



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

MICHIGAN
RADIATION ENVIRONMENTAL MONITORING
PROGRAM REPORT
SUPPLEMENT 5
2008-2013

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Prepared by

**Michigan Department of Environment, Great Lakes, and Energy
Materials Management Division
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Executive Summary

Recognizing that the use of nuclear energy to produce electricity could have an adverse impact on public health and the environment, the State of Michigan established the Michigan Radiation Environmental Monitoring Program (MREMP) in 1958 to monitor the environs near the nuclear power plant sites to assure that Michigan's citizens and environment are not adversely impacted. Environmental samples in the form of air particulates, air vapors, milk, surface water, and direct radiation are taken from various sites in Michigan and analyzed to determine if any radiological effects due to nuclear power plants can be detected.

Historically, sample results from all media have indicated elevated levels of radioactivity, but most of these elevated levels are attributable to past atmospheric testing of nuclear weapons. Analytical results that could be attributed to nuclear power plant operations have only been detected on-site at the plants and were within the allowable U.S. Nuclear Regulatory Commission (NRC) limits. No analytical results attributable to nuclear power plant operations have been detected off-site at any of the plants (see *MREMP Report 1958-1996*, *MREMP Report Supplement 1 1997-1999*, *MREMP Report Supplement 2 2000-2001*, *MREMP Report Supplement 3 2002-2004*, and *MREMP Report Supplement 4 2005-2007*).

This report (*MREMP Report, Supplement 5, 2008-2013*) contains the results of radiation environmental monitoring for the years 2008-2013, extending by six years the previously reported data published in 1998 (*MREMP Report 1958-1996*), 2000 (*MREMP Report Supplement 1 1997-1999*), 2002 (*MREMP Report Supplement 2 2000-2001*), 2005 (*MREMP Report Supplemental 3 2002-2004*), and 2008 (*MREMP Report Supplemental 4 2005-2007*). Although a few samples were found to contain elevated levels of radioactivity attributable to nuclear power plant operations, these samples were collected within the nuclear plant site property and did not represent a regulatory, public health, or environmental concern. The influence of atmospheric fallout from past testing of nuclear weapons can no longer be readily seen in environmental samples, and monitoring levels from all off-site samples now fluctuate in the range of natural background radiation.

In conclusion, the results of the MREMP for the years 2008-2013 indicate that no public health or environmental radiological impact has yet been detected in the off-site environs of Michigan's nuclear power plants due to the operation of nuclear power reactors.

Introduction

Program History

In 1958 the Michigan Department of Health established the Michigan Radiation Environmental Monitoring Program (MREMP) to determine the impact of nuclear power plants on the environment and public health. Specific statutory authority for an environmental monitoring program was provided to the Michigan Department of Public Health in 1972 with the enactment of 1972 PA 305. Later, the Public Health Code (1978 PA 368) provided this authority in Section 13518 of Part 135 of the Code. In April 1996 the MREMP was transferred to the Michigan Department of Environmental Quality (MDEQ), now Michigan Department of Environment, Great Lakes, and Energy (EGLE), by Executive Order 1996-1, along with other radioactive material radiation protection programs. The MREMP monitoring program has been in continuous operation since its inception in 1958.

This report is the fifth supplement to the *Michigan Radiation Environmental Monitoring Program Report 1958-1996* published in May 1998. The *Michigan Radiation Environmental Monitoring Program Report Supplement 1 1997-1999* was published in August 2000; Supplement 2 was published in August 2002; Supplement 3 was published in August 2005; and Supplement 4 was published in August 2008 by the MDEQ (now EGLE). This fifth supplement extends the monitoring period that began in 1958 through the years 2008 to 2013. As a sequel, this supplement report will focus on the 2008-2013 monitoring results and refer to the original report, and previous supplements, for discussions of historical trends and preoperational baseline results.

Nuclear Power Plants in Michigan

Big Rock Point

Consumers Energy Company's Big Rock Point plant, a boiling water reactor (BWR) near Charlevoix, was the first operational nuclear power plant in Michigan. The 240-megawatt thermal (MWt) plant achieved initial criticality on September 27, 1962, and commenced electrical power production before the end of the year. On August 29, 1997, which was the thirty-fifth anniversary of the Atomic Energy Commission issuance of an operating license to Big Rock Point, the plant was shut down for the final time. Site decommissioning activities began shortly after the final shut down and was completed in 2006. The Big Rock Point plant was under MREMP surveillance since July 1960.

Palisades

Located near South Haven, Michigan is Entergy Nuclear Operations, Inc. Palisades plant, a 2530 MWt pressurized water reactor (PWR), that went into operation in 1971. The Palisades plant has been in essentially continuous operation since 1971 except for two lengthy periods: one in the mid-1970s and another in the fall of 1990, when extensive steam generator repair and/or steam generator replacement took place. MREMP surveillance of the plant was initiated in 1968.

D. C. Cook

The American Electric Power Company's D. C. Cook plant is a two-reactor facility located near Bridgman, Michigan. D. C. Cook I, a 3250 MWt PWR, commenced operation in early 1975 and has operated essentially continuously through September 1997. D. C. Cook II, a 3411 MWt PWR, commenced electrical power production in 1978 and, except for a steam generator replacement in 1988, has operated essentially continuously through September 1997. American Electric Power Company shut down both reactors of the D. C. Cook plant in September 1997 due to concerns raised regarding the long-term reliability of reactor and reactor containment cooling systems. Both reactors were restarted during 2000 (Unit II in June 2000 and Unit I in December 2000) and operated essentially continuously since their restart. MREMP surveillance of the D. C. Cook plant was initiated in 1971.

Fermi 2

Fermi 2, Michigan's newest nuclear power plant, is located on the same site as was the original Enrico Fermi nuclear power plant near Monroe, Michigan. The 3430 MWt BWR achieved initial criticality in June 1985 but, due to a variety of problems, did not start reliable electrical power production until November 1988. Fermi 2 experienced a routine operational history until Christmas Day in 1993, when a failure of one of the low-pressure turbines caused major damage to the turbine and the main generator. After a thirteen-month outage to repair the damaged nonnuclear plant components and clean up the affected areas of the plant, the plant was once again operational and has been in routine power production mode ever since. Since the Fermi 2 plant is adjacent to the Enrico Fermi plant, MREMP surveillance of the plant was technically initiated in 1958. Monitoring at the plant site was scaled back in 1975, with the completion of the major portion of the original Enrico Fermi plant decommissioning and expanded in the fall of 1983 just prior to the scheduled initial date of operation for Fermi 2.

Environmental Monitoring Phases

The purpose of the MREMP is to assess the environmental impact from operating nuclear power plants in Michigan and to determine any public health impact that may be the result of plant operations. This program also provides verification of the plant operated effluent monitoring system for each nuclear plant, as well as its associated radiological environmental monitoring network, and serves as an in-place sampling network in the event of an accidental release. Atmospheric, terrestrial, aquatic, and direct radiation pathways are monitored to determine the potential impact of nuclear power plant operations on the environment and public health.

Preoperational environmental samples are collected and analyzed to provide background data on natural radioactivity and/or man-made sources of radioactivity in the vicinity of a planned operational nuclear power plant. Data accumulated during the preoperational period establish a baseline with which to compare operational measurements. A minimum of one year of data is usually collected prior to reactor operation for an adequate preoperational monitoring program. For all four nuclear power plant sites in Michigan, at least two years of data were collected. In addition to the preoperational monitoring conducted in the environs of Michigan's four nuclear power plant sites, a background reference station is operated in Lansing, Michigan, for data comparison.

The operational phase of the radiological environmental monitoring program is a natural extension of the preoperational monitoring program. Once the reactor becomes operational, environmental samples are collected from the network of sampling sites established for the preoperational phase, and individual and cumulative measurement results are compared to baseline data to discern any trends that may be indicative of the impact of plant operations. Measurement results from each of the nuclear plant areas are also compared to the results from the Lansing reference station, as well as the results from the other plant environs to assure that data anomalies and/or trends are adequately assessed. The Palisades, D. C. Cook, and Fermi 2 plants are currently in this phase of monitoring.

The post-operational phase of the radiological environmental monitoring program is initiated at the conclusion of the operational phase. When the plant is shutdown for decommissioning, environmental samples are collected from the network of sampling sites established for preoperational and operational monitoring. Individual and cumulative measurement results are compared to baseline data to discern any trends that may be indicative of the impact of plant activities during the final phase of the plant's operations. During this final phase of environmental monitoring, the number of samples and the frequency of sample collection are often reduced as the plant decommissioning nears completion. The Big Rock Point plant has essentially completed this phase of monitoring with only direct radiation monitoring continuing at the Interim Spent Fuel Storage Installation remaining.

Atmospheric Monitoring

Sampling Network

The atmospheric monitoring network consists of two to five sampling stations in the vicinity of each of the four Michigan nuclear power plant sites and a background reference station in Lansing. At each station a highly efficient vacuum pump continuously draws ambient air, first through a particulate filter and then through a charcoal filter to collect air particulates and air vapors, respectively. Particulate filters are analyzed for gross beta activity three days after the end of sample collection to allow for the decay of the radon daughter products, and charcoal filters are analyzed as soon as possible after the end of sample collection for the presence of radioactive iodine isotopes. Radiation atmospheric monitoring in Michigan was initiated in November 1958, with the first sampling station at the Fermi plant site. Air monitoring stations were added to the Fermi site vicinity as well as setting up multiple sampling stations in the vicinities of the Big Rock Point (July 1960), Palisades (November 1968), and D. C. Cook (September 1971) plant sites. The background reference station in Lansing became operational in February 1961. Air monitoring stations were discontinued in the vicinity of the Big Rock Point site in September 2006, with the completion of the plant decommissioning project.

Historical and Preoperational Atmospheric Monitoring

A detailed presentation of both historical and preoperational atmospheric monitoring results, historical monitoring trends, and determination of preoperational air monitoring baselines for the four Michigan nuclear power plant areas were presented in the *MREMP Report 1958-1996*. These detailed discussions are not repeated in this report, but updated versions of the atmospheric monitoring historical plots are shown in Figures 1-5. Air particulate activities are reported in units of picocuries per cubic meter (pCi/m^3). The air monitoring baseline analyses are presented in Tables 1-3 for each of the three operational plants. The plot of the monthly average air particulate gross beta activity for the longest running MREMP air station, at the Fermi plant site, has been updated with the additional six years of data and is shown in Figure 1. Also, the quarterly average air particulate activity for the three nuclear plant sites along with the Lansing background reference site is updated through 2013 and is shown in Figures 2-5. Visual examination of the two figures reveals that the additional six years of monitoring results are essentially a continuation of the natural background trend that has prevailed since the Chernobyl accident in 1986.

Atmospheric monitoring data pertaining to Big Rock Point has not been included in this Supplement of the MREMP Report due to its discontinuation in September 2006. The historical atmospheric monitoring data for Big Rock Point can be found in the *MREMP Report 1958-1996*, Supplement 1, Supplement 2, Supplement 3, and Supplement 4.

Figure 1

Monthly Average Air Particulate Activity Fermi Nuclear Power Plant

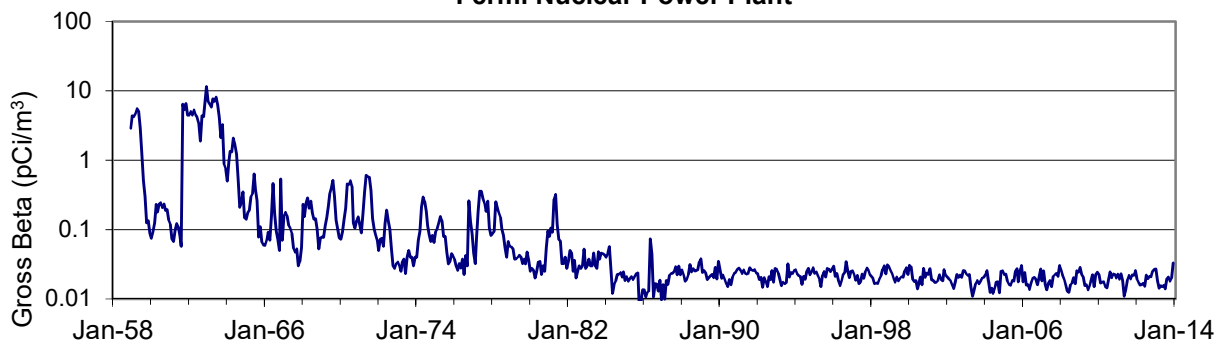


Figure 2

**Quarterly Average Air Particulate Activity
Fermi Nuclear Power Plant Site**

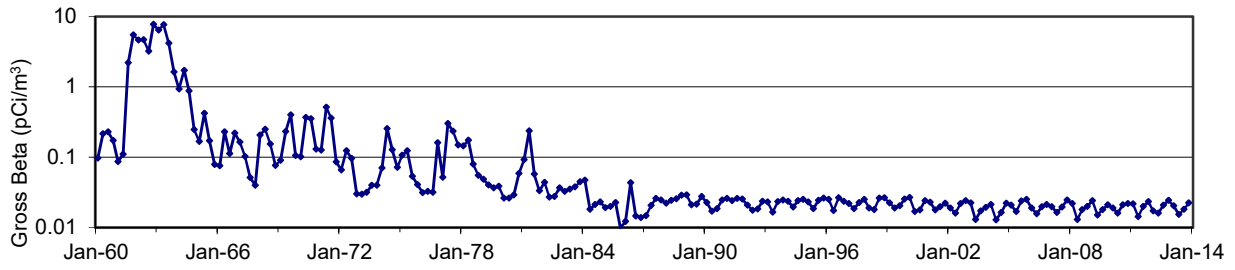


Figure 3

**Quarterly Average Air Particulate Activity
Lansing Background Reference Site**

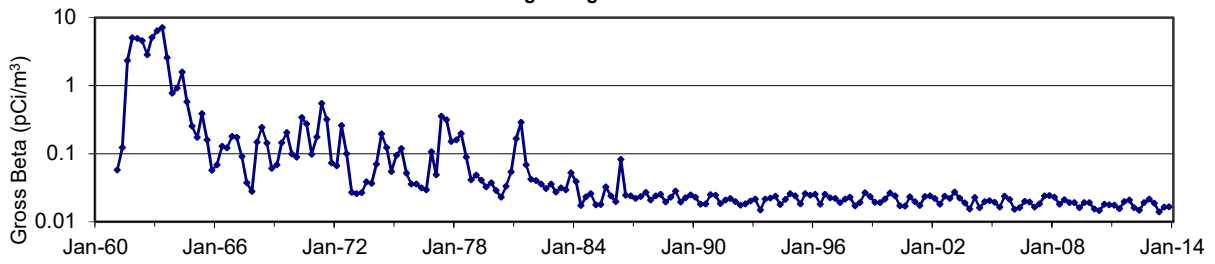


Figure 4

**Quarterly Average Air Particulate Activity
Palisades Nuclear Power Plant Site**

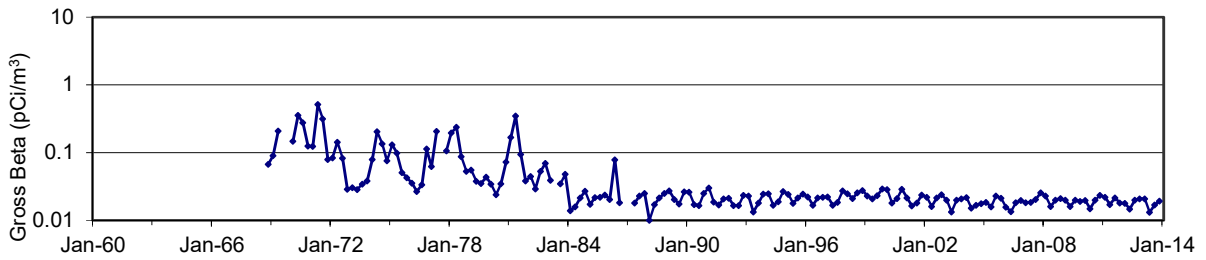


Figure 5

**Quarterly Average Air Particulate Activity
D. C. Cook Nuclear Power Plant Site**

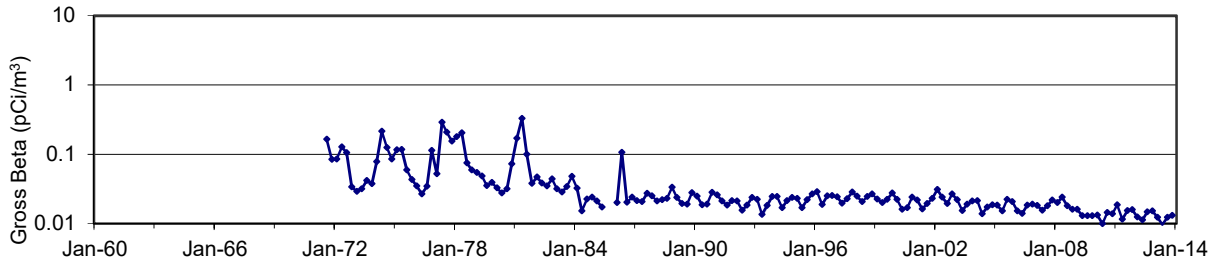


Table 1

PALISADES PREOPERATIONAL AIR PARTICULATE MONITORING RESULTS			
	Reactor Site	Covert	South Haven
Number of Samples	57	55	44
Highest Result (pCi/m ³)	0.70	0.92	0.64
Lowest Result (pCi/m ³)	0.06	0.06	0.07
Arithmetic Mean (pCi/m ³)	0.24	0.25	0.25
Geometric Mean (pCi/m ³)	0.19	0.20	0.21

Table 2

D. C. COOK PREOPERATIONAL AIR PARTICULATE MONITORING RESULTS					
	Reactor Site	Bridgman	Stevensville	Livingston Road	Peddy Farm
Number of Samples	48	22	30	25	28
Highest Result (pCi/m ³)	0.34	0.24	0.37	0.37	0.20
Lowest Result (pCi/m ³)	0.04	0.05	0.04	0.04	0.03
Arithmetic Mean (pCi/m ³)	0.13	0.13	0.11	0.09	0.10
Geometric Mean (pCi/m ³)	0.11	0.11	0.09	0.08	0.08

Table 3

FERMI 2 PREOPERATIONAL AIR PARTICULATE MONITORING RESULTS						
	Reactor Site	Rockwood	Pointe Aux Peaux Rd.	Nadeau Rd.	Dixie Hwy.	Fix Farm
Number of Samples	125	132	106	130	127	131
Highest Result (pCi/m ³)	0.09	0.09	0.08	0.11	0.07	0.07
Lowest Result (pCi/m ³)	0.01	0.01	0.01	0.01	0.01	0.01
Arithmetic Mean (pCi/m ³)	0.03	0.03	0.03	0.03	0.03	0.03
Geometric Mean (pCi/m ³)	0.03	0.02	0.03	0.03	0.03	0.03

Atmospheric Monitoring 2008-2013

The air particulate monitoring results from the three nuclear power plant areas and the Lansing background reference station were very consistent with recent years. During the 2008-2013 monitoring period, air particulate levels remained at natural background levels, with no discernable increasing or decreasing trends. There were a total of 21 air vapor iodine-131 (^{131}I) results exceeding the analytical Minimum Detectable Activity (MDA) level, with the highest measurement being 0.10 ± 0.05 pCi/l at the Fermi 2 reactor site. All 21 of these samples were collected and analyzed within the last week of March 2011 through April 2011. The elevated levels of iodine-131 found in this time frame can be attributed to the Fukushima Daiichi power plant accident that occurred on March 11, 2011. Details of the air particulate gross beta monitoring results for each of the three plants with comparisons to their respective preoperational baseline data and to the Lansing station are discussed below. Also, plots of gross beta results of each station for 2008-2013 are shown in Figures 6-19. The air monitoring results in tabular form is presented in Appendix A of this report.

Palisades

Three atmospheric monitoring stations were operated in the environs of the Palisades plant during 2008-2013 period: one at the reactor site, a second north of the plant in South Haven, and the third southeast of the plant near Covert. There were no distinguishable peaks or trends in the gross beta results for all three stations during the six-year period, with the levels oscillating between the extremes of 0.003 pCi/m³ and 0.050 pCi/m³. Gross beta data from the three stations were analyzed for central tendencies and measurement extremes and are presented in Table 4.

The average air particulate gross beta concentration during the preoperational monitoring period was 0.25 pCi/m³ for the Palisades plant area. This preoperational average was about fourteen times higher than the area average concentration of 0.017 pCi/m³, for 2008-2013 period. The average air particulate gross beta concentration for the Lansing background reference station was 0.018 pCi/m³ during the 2008-2013 period, which is very similar to the average level of the three Palisades stations.

D. C. Cook

Five atmospheric monitoring stations were operated in the environs of the D. C. Cook plant during 2008-2013. One is located at the reactor site, a second is south of the plant in Bridgman, a third is northeast of the plant in Stevensville, a fourth is at the west end of Livingston Road near the south boundary of the plant site, and a fifth is about three miles due east of the plant. There were no distinguishable peaks or trends in the gross beta results for all five stations during the 2008-2013 period, with the levels oscillating between the extremes of 0.002 pCi/m³ and 0.048 pCi/m³. Gross beta data from the five stations were analyzed for central tendencies and measurement extremes. The results of these analyses are presented in Table 5.

The average air particulate gross beta concentration during the preoperational monitoring period was 0.11 pCi/m³ for the D. C. Cook plant area. This preoperational gross beta concentration is almost seven times higher than the average concentration of 0.016 pCi/m³, for the 2008-2013 monitoring period. The average air particulate gross beta concentration for the Lansing background reference station was 0.018 pCi/m³ during the 2008-2013 period, which is the same as the area average levels at the five D. C. Cook stations.

Fermi 2

Five atmospheric monitoring stations were operated in the environs of the Fermi 2 plant during 2008-2013. One is located at the reactor site, a second south of the plant on Pointe Aux Peaux Road, a third southwest of the plant on Nadeau Road, a fourth on Dixie Highway due west of the plant, and the fifth station at the Fix Farm, northwest of the plant on Post Road. There were no distinguishable peaks or trends in the gross beta results for all five stations during the 2008-2013 period, with the levels oscillating between the extremes of 0.005 pCi/m³ and 0.063 pCi/m³. Gross beta data from the five stations were analyzed for central tendencies and measurement extremes. The results of these analyses are presented in Table 6.

The area average air particulate gross beta concentration during the preoperational monitoring period was 0.03 pCi/m³ for Fermi 2. This preoperational gross beta concentration is just slightly higher than the area

average concentrations of 0.019 pCi/m³ measured during the 2008-2013 period. The average air particulate gross beta concentration for the Lansing background reference station was 0.018 pCi/m³ during the 2008-2013 period, which is the same as the area average level measured in the Fermi 2 area.

Lansing

One atmospheric monitoring station was operated as the reference site during 2008-2013. It is in Lansing, MI in the outdoor environment surrounding the laboratory. There were no distinguishable peaks or trends in the gross beta results for this station during the 2008-2013 period, with the levels oscillating between the extremes of 0.008 pCi/m³ and 0.047 pCi/m³. Gross beta data from the air station were analyzed for central tendencies and measurement extremes. The results of these analyses are presented in Table 7.

The average air particulate gross beta concentration for the Lansing background reference station was 0.018 pCi/m³ during the 2008-2013 period, which is used to compare to the result averages from the monitoring stations surrounding the power plants.

Table 4

PALISADES AIR PARTICULATE MONITORING RESULTS 2008-2013			
2008 Monitoring Results			
	Reactor Site	Covert	South Haven
Number of Samples	52	22	52
Highest Result (pCi/m ³)	0.036	0.028	0.039
Lowest Result (pCi/m ³)	0.007	0.009	0.007
Arithmetic Mean (pCi/m ³)	0.020	0.016	0.019
Geometric Mean (pCi/m ³)	0.019	0.015	0.018
2009 Monitoring Results			
	Reactor Site	Covert	South Haven
Number of Samples	48	51	51
Highest Result (pCi/m ³)	0.037	0.034	0.038
Lowest Result (pCi/m ³)	0.007	0.005	0.008
Arithmetic Mean (pCi/m ³)	0.019	0.015	0.018
Geometric Mean (pCi/m ³)	0.018	0.014	0.017
2010 Monitoring Results			
	Reactor Site	Covert	South Haven
Number of Samples	50	51	51
Highest Result (pCi/m ³)	0.036	0.026	0.034
Lowest Result (pCi/m ³)	0.007	0.007	0.003
Arithmetic Mean (pCi/m ³)	0.019	0.014	0.017
Geometric Mean (pCi/m ³)	0.018	0.014	0.016
2011 Monitoring Results			
	Reactor Site	Covert	South Haven
Number of Samples	38	50	52
Highest Result (pCi/m ³)	0.036	0.026	0.034
Lowest Result (pCi/m ³)	0.011	0.007	0.008
Arithmetic Mean (pCi/m ³)	0.020	0.015	0.019
Geometric Mean (pCi/m ³)	0.019	0.014	0.017
2012 Monitoring Results			
	Reactor Site	Covert	South Haven
Number of Samples	53	51	53
Highest Result (pCi/m ³)	0.035	0.031	0.042
Lowest Result (pCi/m ³)	0.009	0.009	0.008
Arithmetic Mean (pCi/m ³)	0.018	0.015	0.018
Geometric Mean (pCi/m ³)	0.018	0.015	0.017
2013 Monitoring Results			
	Reactor Site	Covert	South Haven
Number of Samples	51	52	51
Highest Result (pCi/m ³)	0.043	0.035	0.050
Lowest Result (pCi/m ³)	0.007	0.005	0.008
Arithmetic Mean (pCi/m ³)	0.017	0.014	0.020
Geometric Mean (pCi/m ³)	0.016	0.013	0.019

Table 5

D. C. COOK AIR PARTICULATE MONITORING RESULTS 2008-2013					
2008 Monitoring Results					
	Reactor Site	Bridgman	Stevensville	Livingston Road	Peddy Farm
Number of Samples	37	52	52	38	50
Highest Result (pCi/m ³)	0.036	0.039	0.038	0.032	0.033
Lowest Result (pCi/m ³)	0.008	0.007	0.009	0.006	0.006
Arithmetic Mean (pCi/m ³)	0.019	0.020	0.023	0.019	0.018
Geometric Mean (pCi/m ³)	0.018	0.020	0.022	0.018	0.017
2009 Monitoring Results					
	Reactor Site	Bridgman	Stevensville	Livingston Road	Peddy Farm
Number of Samples	51	49	51	52	52
Highest Result (pCi/m ³)	0.022	0.041	0.048	0.032	0.042
Lowest Result (pCi/m ³)	0.006	0.007	0.010	0.007	0.008
Arithmetic Mean (pCi/m ³)	0.014	0.018	0.023	0.016	0.019
Geometric Mean (pCi/m ³)	0.013	0.017	0.022	0.015	0.018
2010 Monitoring Results					
	Reactor Site	Bridgman	Stevensville	Livingston Road	Peddy Farm
Number of Samples	51	52	50	52	51
Highest Result (pCi/m ³)	0.023	0.036	0.038	0.030	0.035
Lowest Result (pCi/m ³)	0.003	0.005	0.004	0.005	0.005
Arithmetic Mean (pCi/m ³)	0.013	0.016	0.016	0.015	0.018
Geometric Mean (pCi/m ³)	0.012	0.015	0.015	0.014	0.016
2011 Monitoring Results					
	Reactor Site	Bridgman	Stevensville	Livingston Road	Peddy Farm
Number of Samples	52	52	52	52	52
Highest Result (pCi/m ³)	0.031	0.027	0.038	0.029	0.038
Lowest Result (pCi/m ³)	0.006	0.005	0.009	0.008	0.008
Arithmetic Mean (pCi/m ³)	0.015	0.013	0.017	0.015	0.019
Geometric Mean (pCi/m ³)	0.015	0.012	0.016	0.015	0.018
2012 Monitoring Results					
	Reactor Site	Bridgman	Stevensville	Livingston Road	Peddy Farm
Number of Samples	48	51	50	51	49
Highest Result (pCi/m ³)	0.026	0.020	0.033	0.035	0.035
Lowest Result (pCi/m ³)	0.007	0.002	0.009	0.006	0.009
Arithmetic Mean (pCi/m ³)	0.014	0.009	0.018	0.016	0.017
Geometric Mean (pCi/m ³)	0.013	0.008	0.017	0.015	0.016
2013 Monitoring Results					
	Reactor Site	Bridgman	Stevensville	Livingston Road	Peddy Farm
Number of Samples	51	47	51	52	51
Highest Result (pCi/m ³)	0.025	0.032	0.032	0.028	0.036
Lowest Result (pCi/m ³)	0.006	0.002	0.007	0.003	0.006
Arithmetic Mean (pCi/m ³)	0.012	0.011	0.017	0.015	0.015
Geometric Mean (pCi/m ³)	0.011	0.009	0.016	0.014	0.014

Table 6

FERMI 2 AIR PARTICULATE MONITORING RESULTS 2008-2013					
2008 Monitoring Results					
	Reactor Site	Pointe Aux Peaux Rd.	Nadeau Rd.	Dixie Hwy.	Fix Farm
Number of Samples	52	52	51	52	52
Highest Result (pCi/m ³)	0.040	0.044	0.035	0.047	0.038
Lowest Result (pCi/m ³)	0.009	0.007	0.008	0.009	0.007
Arithmetic Mean (pCi/m ³)	0.019	0.020	0.020	0.020	0.018
Geometric Mean (pCi/m ³)	0.018	0.018	0.019	0.019	0.017
2009 Monitoring Results					
	Reactor Site	Pointe Aux Peaux Rd.	Nadeau Rd.	Dixie Hwy.	Fix Farm
Number of Samples	53	53	17	52	53
Highest Result (pCi/m ³)	0.032	0.032	0.038	0.058	0.032
Lowest Result (pCi/m ³)	0.011	0.010	0.007	0.011	0.009
Arithmetic Mean (pCi/m ³)	0.020	0.019	0.019	0.021	0.019
Geometric Mean (pCi/m ³)	0.019	0.018	0.017	0.020	0.018
2010 Monitoring Results					
	Reactor Site	Pointe Aux Peaux Rd.	Nadeau Rd.	Dixie Hwy.	Fix Farm
Number of Samples	48	51	20	51	51
Highest Result (pCi/m ³)	0.032	0.039	0.030	0.027	0.030
Lowest Result (pCi/m ³)	0.011	0.010	0.009	0.008	0.009
Arithmetic Mean (pCi/m ³)	0.019	0.018	0.020	0.018	0.018
Geometric Mean (pCi/m ³)	0.019	0.017	0.019	0.017	0.017
2011 Monitoring Results					
	Reactor Site	Pointe Aux Peaux Rd.	Nadeau Rd.	Dixie Hwy.	Fix Farm
Number of Samples	52	52	52	52	52
Highest Result (pCi/m ³)	0.044	0.036	0.038	0.041	0.041
Lowest Result (pCi/m ³)	0.007	0.005	0.007	0.009	0.009
Arithmetic Mean (pCi/m ³)	0.020	0.018	0.019	0.019	0.019
Geometric Mean (pCi/m ³)	0.019	0.017	0.018	0.018	0.018
2012 Monitoring Results					
	Reactor Site	Pointe Aux Peaux Rd.	Nadeau Rd.	Dixie Hwy.	Fix Farm
Number of Samples	52	52	46	51	52
Highest Result (pCi/m ³)	0.041	0.040	0.039	0.038	0.039
Lowest Result (pCi/m ³)	0.008	0.009	0.009	0.009	0.009
Arithmetic Mean (pCi/m ³)	0.020	0.018	0.017	0.020	0.019
Geometric Mean (pCi/m ³)	0.019	0.017	0.017	0.019	0.018
2013 Monitoring Results					
	Reactor Site	Pointe Aux Peaux Rd.	Nadeau Rd.	Dixie Hwy.	Fix Farm
Number of Samples	51	52	43	51	52
Highest Result (pCi/m ³)	0.051	0.062	0.050	0.063	0.057
Lowest Result (pCi/m ³)	0.007	0.008	0.007	0.007	0.007
Arithmetic Mean (pCi/m ³)	0.019	0.019	0.016	0.018	0.018
Geometric Mean (pCi/m ³)	0.018	0.017	0.015	0.017	0.017

Table 7

LANSING AIR PARTICULATE MONITORING RESULTS 2008-2013	
2008 Monitoring Results	
	Reference Site
Number of Samples	52
Highest Result (pCi/m ³)	0.036
Lowest Result (pCi/m ³)	0.010
Arithmetic Mean (pCi/m ³)	0.020
Geometric Mean (pCi/m ³)	0.020
2009 Monitoring Results	
	Reference Site
Number of Samples	52
Highest Result (pCi/m ³)	0.038
Lowest Result (pCi/m ³)	0.009
Arithmetic Mean (pCi/m ³)	0.018
Geometric Mean (pCi/m ³)	0.017
2010 Monitoring Results	
	Reference Site
Number of Samples	48
Highest Result (pCi/m ³)	0.029
Lowest Result (pCi/m ³)	0.007
Arithmetic Mean (pCi/m ³)	0.016
Geometric Mean (pCi/m ³)	0.016
2011 Monitoring Results	
	Reference Site
Number of Samples	51
Highest Result (pCi/m ³)	0.047
Lowest Result (pCi/m ³)	0.009
Arithmetic Mean (pCi/m ³)	0.018
Geometric Mean (pCi/m ³)	0.017
2012 Monitoring Results	
	Reference Site
Number of Samples	52
Highest Result (pCi/m ³)	0.037
Lowest Result (pCi/m ³)	0.011
Arithmetic Mean (pCi/m ³)	0.018
Geometric Mean (pCi/m ³)	0.017
2013 Monitoring Results	
	Reference Site
Number of Samples	53
Highest Result (pCi/m ³)	0.033
Lowest Result (pCi/m ³)	0.008
Arithmetic Mean (pCi/m ³)	0.016
Geometric Mean (pCi/m ³)	0.016

Figure 6

Air Particulate Monitoring
Palisades Reactor Site 2008-2013

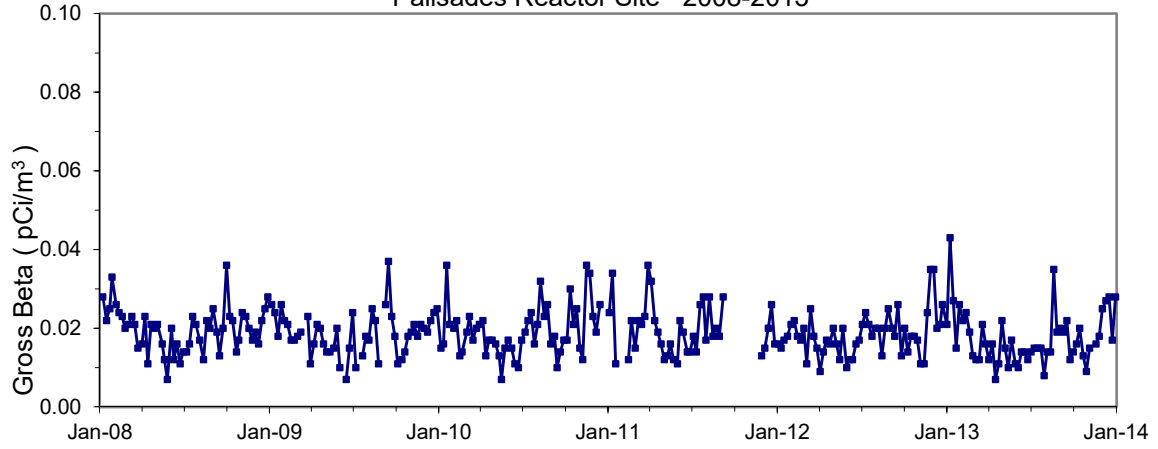


Figure 7

Air Particulate Monitoring
Palisades Covert Site 2008-2013

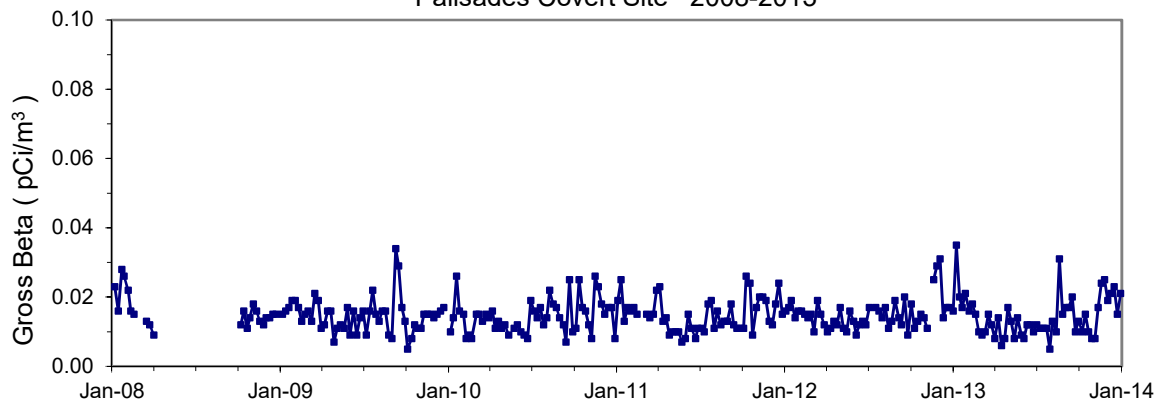


Figure 8

Air Particulate Monitoring
Palisades South Haven Site 2008-2013

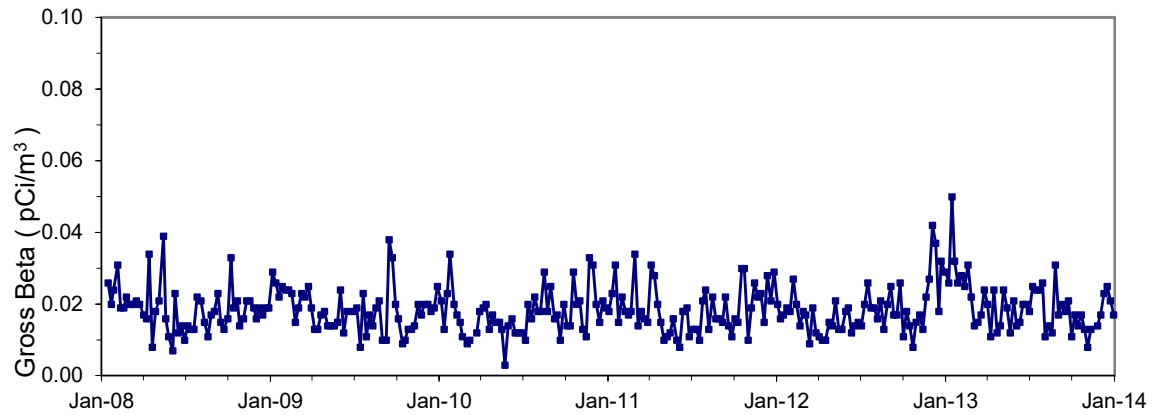


Figure 9

Air Particulate Monitoring
D. C. Cook Reactor Site 2008-2013

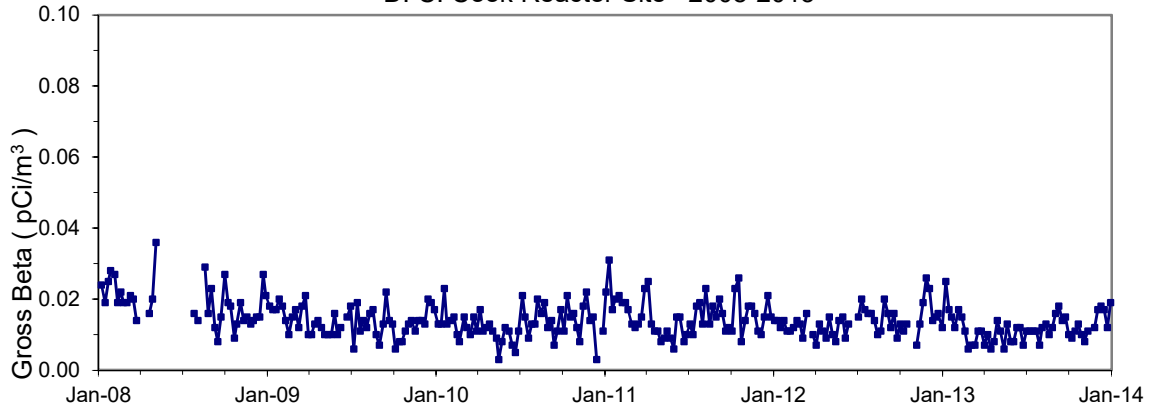


Figure 10

Air Particulate Monitoring
D. C. Cook Bridgman Site 2008-2013

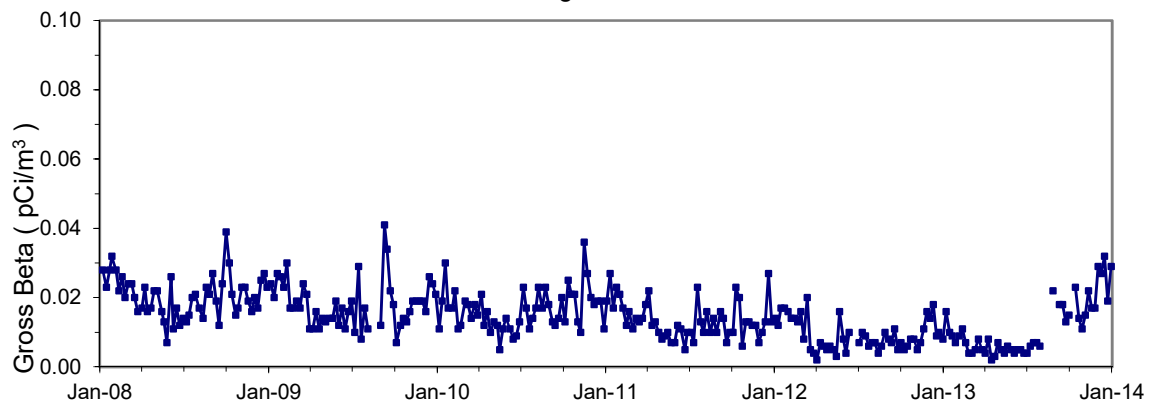


Figure 11

Air Particulate Monitoring
D. C. Cook Stevensville Site 2008-2013

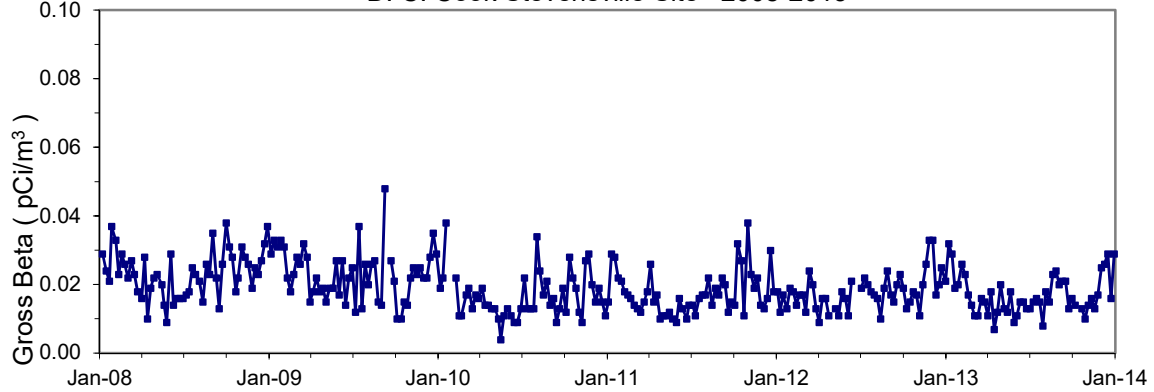


Figure 12

Air Particulate Monitoring

D. C. Cook Livingston Road Site 2008-2013

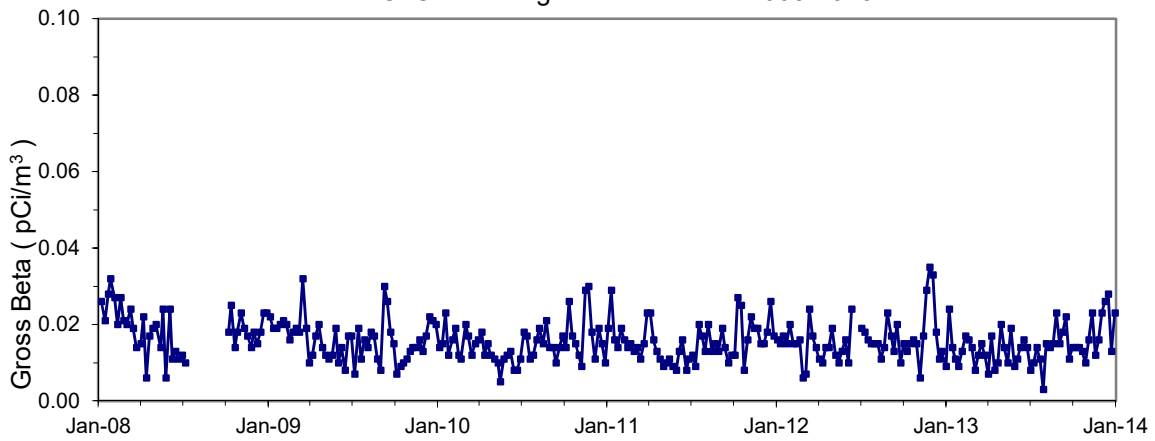


Figure 13

Air Particulate Monitoring

D. C. Cook Peddy Farm Site 2008-2013

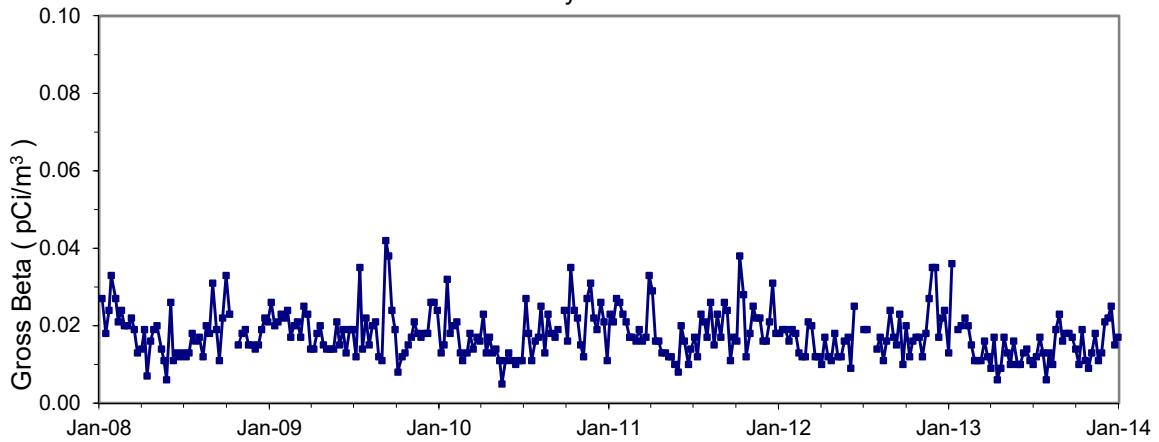


Figure 14

Air Particulate Monitoring

Fermi 2 Reactor Site 2008-2013

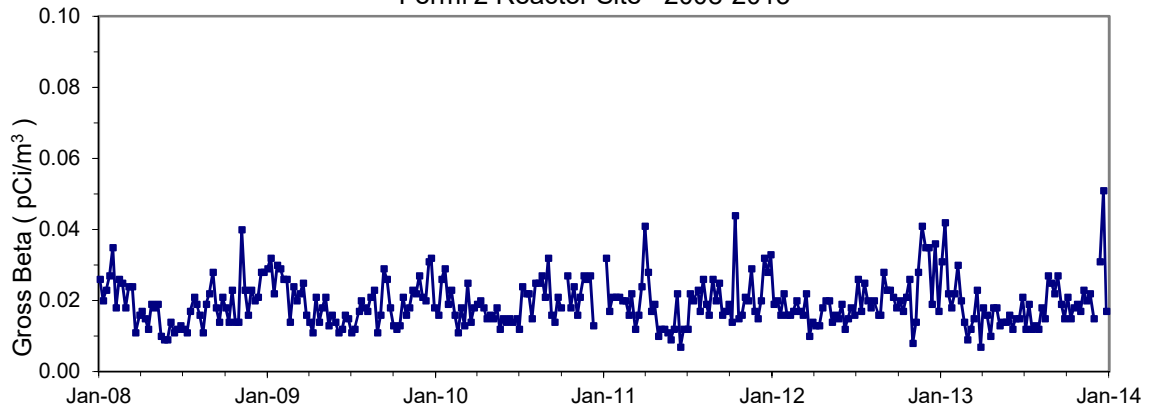


Figure 15

Air Particulate Monitoring
Fermi 2 Pointe Aux Peaux Road Site 2008-2013

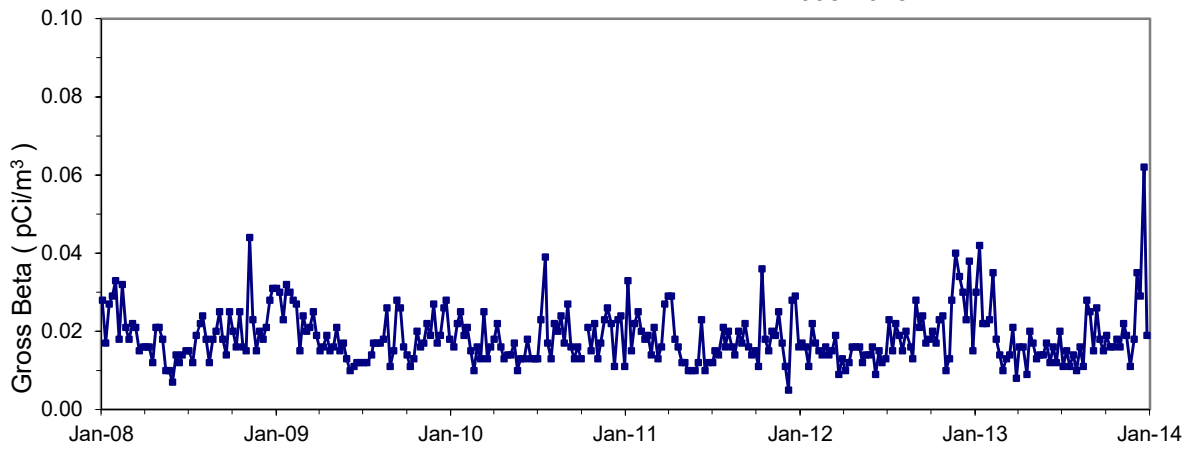


Figure 16

Air Particulate Monitoring
Fermi 2 Nadeau Road Site 2008-2013

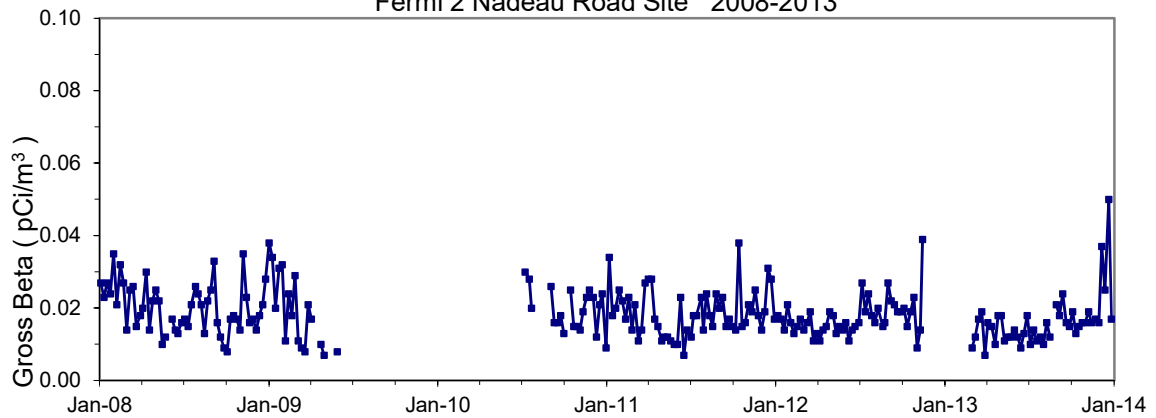


Figure 17

Air Particulate Monitoring
Fermi 2 Dixie Highway Site 2008-2013

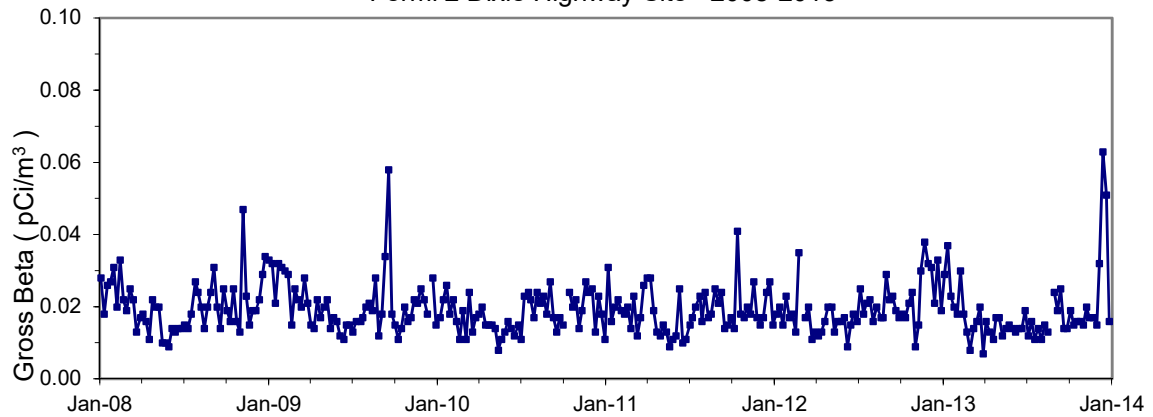


Figure 18

Air Particulate Monitoring
Fermi 2 Fix Farm Site 2008-2013

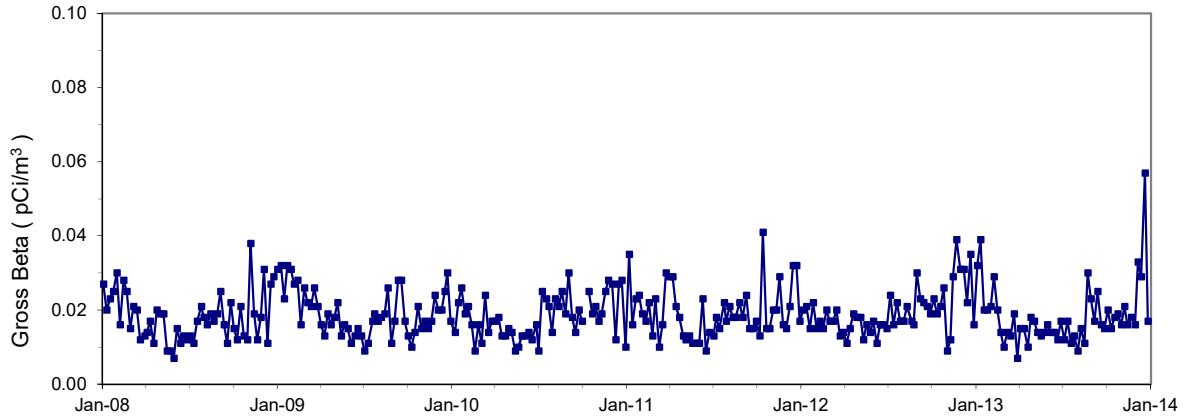
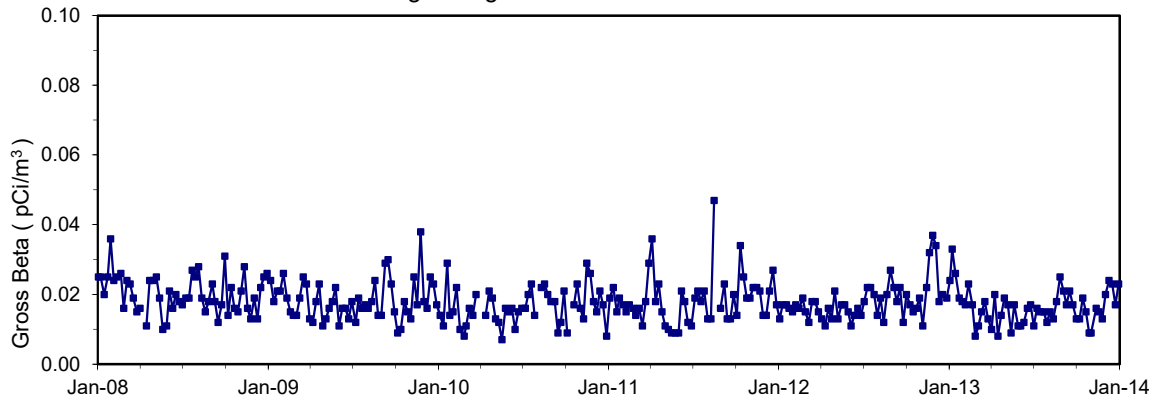


Figure 19

Air Particulate Monitoring
Lansing Background Reference Site 2008-2013



Terrestrial Monitoring

Sampling Network

The terrestrial monitoring network consists of six milk sampling stations: three of which are located near the state's nuclear power plants, and the other four scattered around the state for geographical and population coverage. Sampling at the Charlevoix, Detroit, Grand Rapids, Lansing, Marquette, and Monroe milk stations was initiated in late 1962 and the South Haven milk station was added in 1969. The Charlevoix station was discontinued in September 2006 with the completion of the Big Rock Point plant decommissioning project. The historical monitoring data for the Charlevoix station can be found in *MREMP Report 1958-1996*, Supplement 1, Supplement 2, Supplement 3 and Supplement 4. Biweekly samples are collected for the Lansing, Marquette, Monroe, and South Haven stations; and monthly samples are collected for the Detroit and Grand Rapids stations. Pasteurized milk samples from a local dairy were collected for all seven stations until the late 1970s. During the late 1970s and the early 1980s, all local dairies in the Charlevoix, Monroe, and South Haven areas closed and sampling for these three stations were shifted to raw milk samples from a local dairy farm. Pasteurized milk samples, collected from a local dairy or retail outlet, for the Detroit, Grand Rapids, Lansing, and Marquette stations have continued through 2013. All samples are analyzed for gamma emitting radionuclides, with Iodine-131 (¹³¹I) and cesium-137 (¹³⁷Cs) of particular interest. Radionuclide activity results for milk are reported in units of picocuries per liter (pCi/l).

Historical Terrestrial Monitoring Trends

Historical and preoperational milk monitoring results, historical monitoring trends, and the determination of preoperational milk monitoring baselines for the four plant areas was presented in detail in *MREMP Report 1958-1996*. These discussions are not repeated in this report, but the final results of the preoperational baseline analysis for the three currently operational plants are presented in Tables 8-10 for comparison with the 2008 through 2013 milk monitoring results.

Terrestrial historical and preoperational monitoring data pertaining to Big Rock Point has not been included in this Supplement of the MREMP Report. The terrestrial monitoring data for Big Rock Point can be found in the *MREMP Report 1958-1996*, Supplement 1, Supplement 2, Supplement 3 and Supplement 4.

Table 8

PALISADES PREOPERATIONAL MILK MONITORING RESULTS		
1969 Milk Monitoring Results	¹³¹ I (pCi/l)	¹³⁷ Cs (pCi/l)
South Haven Average	Less than 14	11
South Haven Highest	Less than 14	16
South Haven Lowest	Less than 14	6
Statewide Average without South Haven	Less than 14	15
1970 Milk Monitoring Results		
South Haven Average	Less than 14	11
South Haven Highest	Less than 14	41
South Haven Lowest	Less than 14	Less than 6
Statewide Average without South Haven	Less than 14	14

Table 9

D. C. COOK PREOPERATIONAL MILK MONITORING RESULTS		
1973 Milk Monitoring Results	¹³¹ I (pCi/l)	¹³⁷ Cs (pCi/l)
South Haven Average	Less than 14	6
South Haven Highest	Less than 14	20
South Haven Lowest	Less than 14	Less than 6
Statewide Average without South Haven	Less than 14	7
1974 Milk Monitoring Results		
South Haven Average	Less than 14	8
South Haven Highest	Less than 14	17
South Haven Lowest	Less than 14	Less than 6
Statewide Average without South Haven	Less than 14	9

Table 10

FERMI 2 PREOPERATIONAL MILK MONITORING RESULTS		
1983 Milk Monitoring Results	¹³¹ I (pCi/l)	¹³⁷ Cs (pCi/l)
Monroe Average	Less than 6	Less than 5
Monroe Highest	Less than 6	13
Monroe Lowest	Less than 6	Less than 5
Statewide Average without Monroe	Less than 6	Less than 5
1984 Milk Monitoring Results		
Monroe Average	Less than 6	Less than 5
Monroe Highest	Less than 6	6
Monroe Lowest	Less than 6	Less than 5
Statewide Average without Monroe	Less than 6	Less than 5

Terrestrial Monitoring 2008-2013

Almost all the milk monitoring results for the 694 samples analyzed during the six-year period were less than the MDA levels. The number of samples analyzed and the average analytical MDA levels for each monitoring station are delineated in Table 11. There were no samples with ^{131}I exceeding the MDA levels during the six-year period. Three of the 694 milk samples had detectable levels of ^{137}Cs , with an average measured level of 4 pCi/l, which is identical to the average analytical MDA level for ^{137}Cs . With only 0.4 percent of the samples analyzed indicating detectable amounts of ^{137}Cs at levels almost equal to the analytical MDA, milk produced in Michigan is now almost virtually free of these long-lived radionuclides from past atmospheric fallout.

There were no discernable trends for the 2008-2013 milk results, with only one of the six stations indicating three samples with detectable amounts of ^{137}Cs . The three samples with detectable levels of ^{137}Cs were almost the same as the two found during the most recent reported period, 2005-07. Overall, the milk monitoring results from all sampling stations were lower than levels recorded during preoperational monitoring periods. A tabular presentation of MREMP milk monitoring results for 2008-2013 is in Appendix B. Appendix B also shows the monitoring results for potassium-40 (^{40}K), which is a naturally –occurring radionuclide that is always present in milk.

Table 11

MILK MONITORING RESULT AVERAGES 2008-2013			
	Number of Samples	^{131}I (pCi/l)	^{137}Cs (pCi/l)
Detroit	53	Less than 4	Less than 3
Grand Rapids	56	Less than 4	Less than 3
Lansing	151	Less than 4	Less than 3
Marquette	136	Less than 4	Less than 3
Monroe	152	Less than 5	Less than 3
South Haven	146	Less than 4	Less than 3
Statewide	694	Less than 4	Less than 3

Aquatic Monitoring

Sampling Network

The aquatic monitoring network consists of eight surface water sampling stations for the three Michigan nuclear plant sites and a background reference station in Lansing. A monthly grab sample is collected from the Palisades plant discharge line when the plant is operational. At the D. C. Cook plant, monthly grab samples are collected from pre-discharge holding tanks for each reactor, when the reactors are operational. A monthly surface water grab sample is collected from Lake Erie in front of the Fermi plant, and four daily composite surface/drinking water sampling stations of the Detroit Edison Company are split with the MREMP on a monthly basis. Beginning in November 2011, two monthly grab samples are collected from the Grand River for the Lansing reference site. All samples are analyzed for gamma emitting radionuclides, gross beta and tritium activity.

Historical and Preoperational Aquatic Monitoring

A detailed presentation of both historical and preoperational aquatic monitoring results, historical monitoring trends and determination of preoperational surface water monitoring baselines for the four Michigan nuclear power plant areas was presented in *MREMP Report 1958-1996*. These detailed discussions are not repeated in this report, but updated versions of three surface water historical plots for the currently operational plants are shown in Figures 20-22 and the final results of the surface water baseline analysis is presented in Tables 12-14. Visual examination of the historical surface water plots for all three operational plant sites reveals a continuation of the trend that has prevailed over the last decade.

Aquatic monitoring data pertaining to Big Rock Point has not been included in this Supplement of the MREMP Report due to its decommissioning in September 2006. The historical aquatic monitoring data for Big Rock Point can be found in the *MREMP Report 1958-1996*, Supplement 1, Supplement 2, Supplement 3 and Supplement 4.

Figure 20

Annual Average Surface Water Activity Palisades Reactor Site

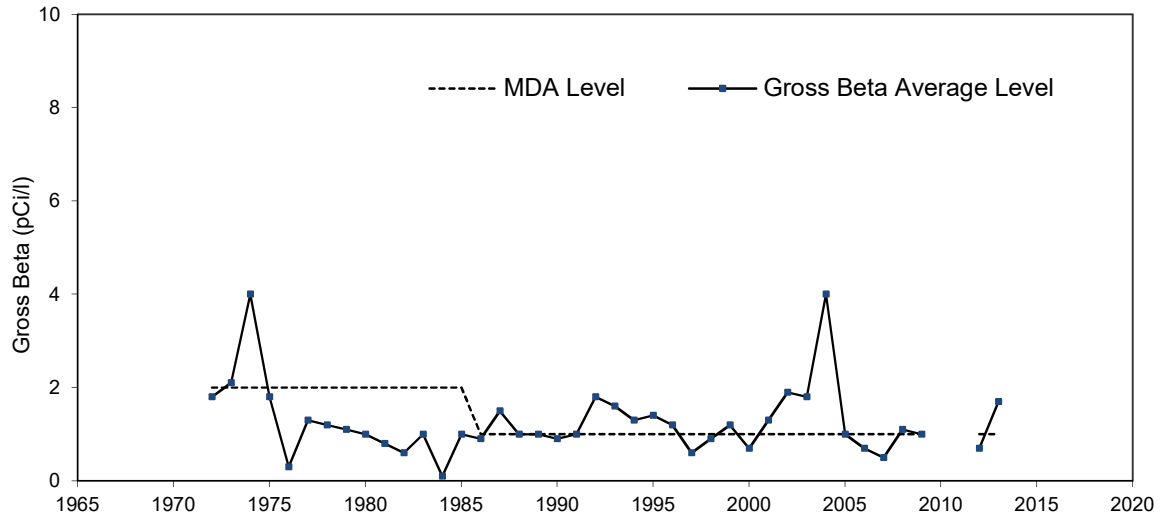


Figure 21

Annual Average Surface Water Activity D. C. Cook Reactor Site

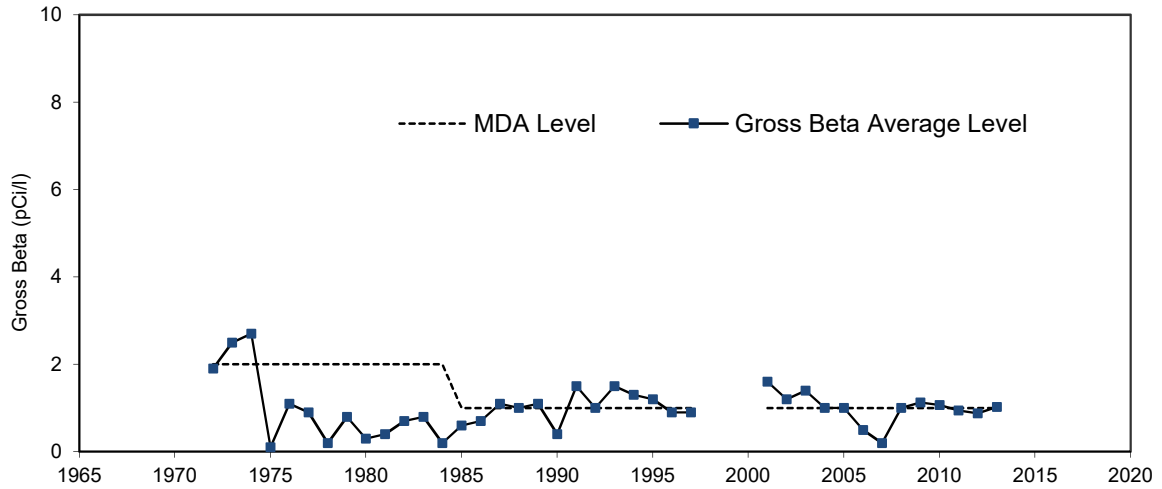


Figure 22

Annual Average Surface Water Activity

Fermi 2 Reactor Site

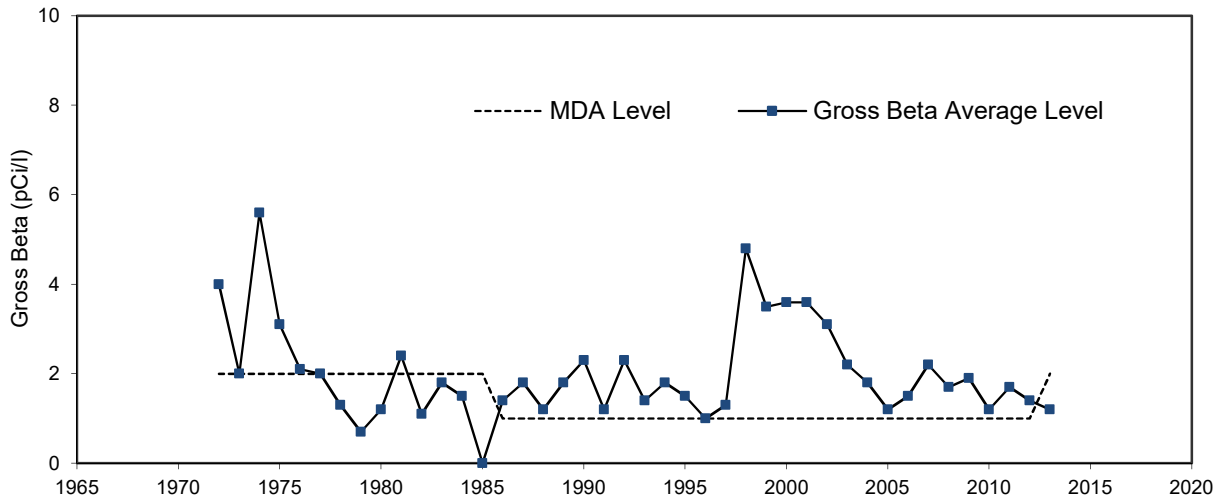


Table 12

1972-1973 PALISADES SURFACE WATER RESULT AVERAGES		
	Gross Beta (pCi/l)	Tritium (pCi/l)
Reactor Site	4.0	300
Non-Reactor Sites	5.1	200

Table 13

1973-1974 D. C. COOK SURFACE WATER RESULT AVERAGES		
	Gross Beta (pCi/l)	Tritium (pCi/l)
Reactor Site	4.2	300
Non-Reactor Sites	4.4	300

Table 14

1983-1984 FERMI 2 SURFACE WATER RESULT AVERAGES		
	Gross Beta (pCi/l)	Tritium (pCi/l)
Reactor Site	3.6	200

Aquatic Monitoring 2008-2013

Surface water results during 2008-2013 were generally in alignment with results from recent years with the exception of two tritium samples; one each from the Palisades power plant and the DC Cook power plant. Measured gross beta levels for all 2008-2013 surface water samples ranged between below the MDA level of 1 pCi/l and 6 pCi/l. Tritium levels over the six years ranged from below the MDA level of 100 pCi/l and 400 pCi/l for the Fermi and Lansing monitoring sites. Palisades and Cook each had one sample with elevated levels of tritium. For Palisades the surface water sample from July 2009 had a measured tritium level of 24,000 pCi/l and for Cook the surface water sample from September 2013 sample had a measured tritium level 12,000 pCi/l. Both of these elevated levels are within allowable limits but much higher than the other surface water tritium levels¹. Details of the 2008-2013 surface water monitoring results for the three plants, the Lansing reference site and comparisons to their respective preoperational baseline data are discussed below in Tables 15-18. Figures 25-42 at the end of this section, show gross beta and tritium results for the nine sampling stations for 2008-2013 and a tabular presentation of the results is provided in Appendix C.

Palisades

Palisades plant aquatic monitoring during 2008-2013 consisted of one surface water sampling station at the reactor site. Monthly grab samples were collected from the reactor discharge and analyzed in the same manner as they were during the baseline assessment period. The results for the six-year period are summarized in Table 15. The Palisades reactor site surface water result gross beta average of 2.2 pCi/l for the six-year period is less than the baseline assessment period average of 4.0 pCi/l and is very comparable to the average levels measured in recent years. The tritium average of 5,000 pCi/l is considerably greater than the 300 pCi/l average measured during the baseline assessment years, but when the July 2009 elevated sample result is excluded from the average calculation, a result of 275 pCi/l is obtained which is very consistent with previous years. None of the 31 samples showed any significant gamma activity above MDA levels.

Table 15

PALISADES SURFACE WATER RESULTS 2008-2013		
	Gross Beta (pCi/l)	Tritium (pCi/l)
Reactor Site		
Number of Samples	31	31
Highest Result	4	24,000
Lowest Result	Less than 1	Less than 100
Arithmetic Mean	2.2	5,000
Geometric Mean	2.1	700

D. C. Cook

Aquatic monitoring for D. C. Cook during 2008-2013 consisted of two surface water sampling stations at the reactor site, one for each reactor unit. Monthly grab samples were collected from the reactor discharge holding tank for each unit and analyzed in the same manner as they were during the baseline assessment period. The results for the six-year period are summarized in Table 16. Surface water gross beta averages for both reactor units during the six-year period were 1.8 pCi/l and 2.1 pCi/l for Unit 1 and Unit 2 respectively. These were both less than the preoperational baseline assessment period average of 4.2 pCi/l. Tritium average of 200 pCi/l for Unit 1 was less than the baseline average of 300 pCi/l during 2008-2013 monitoring period but the tritium average of 2,000 pCi/l for Unit 2 is considerably greater than the 300 pCi/l average measured during the baseline assessment years. When the September 2013 elevated sample result is excluded from the average calculation, a result of 200 pCi/l is obtained which is very consistent with previous years. None of the 99 total surface water samples collected at the Cook plant during 2008-2013 indicated any significant gamma activity above minimum detectable levels.

¹ The NRC's tritium limit on water effluent is 1×10^6 pCi/l.

Table 16

D. C. COOK SURFACE WATER RESULTS 2008-2013		
	Gross Beta (pCi/l)	Tritium (pCi/l)
Reactor Site – Unit 1		
Number of Samples	49	49
Highest Result	3	300
Lowest Result	Less than 1	Less than 100
Arithmetic Mean	1.8	200
Geometric Mean	1.7	200
Reactor Site – Unit 2		
Number of Samples	50	50
Highest Result	3	12,000
Lowest Result	Less than 1	Less than 100
Arithmetic Mean	2.1	2,000
Geometric Mean	2.1	400

Fermi 2

Fermi 2 aquatic monitoring during 2008-2013 consisted of monthly samples from five surface water sampling sites. A monthly grab collected from Lake Erie directly in front of the reactor site by MREMP staff and four daily composited samples collected monthly by Fermi 2 plant staff. All monthly samples are analyzed in the same manner as they were during the baseline assessment period, and the results for the 2008-2013 monitoring period are summarized in Table 17.

During the 2008-2013 monitoring period, surface water gross beta averages for the Fermi 2 plant area were all lower than the preoperational baseline assessment period average of 3.6 pCi/l. Tritium averages during the 2008-2013 monitoring period were identical to the 200 pCi/l average from the baseline assessment period for all five monitoring sites. None of the 341 samples showed any significant gamma activity above MDA levels.

Table 17

FERMI 2 SURFACE WATER RESULTS 2008-2013		
	Gross Beta (pCi/l)	Tritium (pCi/l)
Reactor Site		
Number of Samples	60	60
Highest Result	5	400
Lowest Result	Less than 1	Less than 100
Arithmetic Mean	2.7	200
Geometric Mean	2.5	200
Monroe Intake Site		
Number of Samples	70	71
Highest Result	4	400
Lowest Result	Less than 1	Less than 100
Arithmetic Mean	2.2	200
Geometric Mean	2.1	200
Trenton Channel Site		
Number of Samples	71	71
Highest Result	3	300
Lowest Result	Less than 1	Less than 100

FERMI 2 SURFACE WATER RESULTS 2008-2013		
	Gross Beta (pCi/l)	Tritium (pCi/l)
Arithmetic Mean	2.0	200
Geometric Mean	1.9	200
Allen Park Intake Site		
Number of Samples	70	70
Highest Result	5	300
Lowest Result	Less than 1	Less than 100
Arithmetic Mean	1.9	200
Geometric Mean	1.8	200
Fermi 2 Intake Site		
Number of Samples	70	71
Highest Result	4	200
Lowest Result	Less than 1	Less than 100
Arithmetic Mean	2.3	200
Geometric Mean	2.1	200

Lansing

Lansing reference site aquatic monitoring during 2011-2013 consisted of one surface water sampling station at the Grand River in Lansing, MI. Starting in November of 2011, two monthly grab samples were collected from the Grand River and analyzed in the same manner as the power plant surface water samples were during the baseline assessment period. The results for the three-year period are summarized in Table 18. The Lansing reference site surface water result gross beta average of 3.2 pCi/l for the three-year period and the tritium average of 200 pCi/l. These were in line with the result averages obtained from the three power plants from the 2008-2013 monitoring period and were at or below the baseline assessments averages for the three power plants. None of the 51 samples showed any significant gamma activity above MDA levels.

Table 18

LANSING SURFACE WATER RESULTS 2011-2013		
	Gross Beta (pCi/l)	Tritium (pCi/l)
Reference Site		
Number of Samples	51	51
Highest Result	5	200
Lowest Result	Less than 1	Less than 100
Arithmetic Mean	3.2	200
Geometric Mean	3.0	200

Figure 23

Surface Water Gross Beta Monitoring Palisades Reactor Site 2008-2013

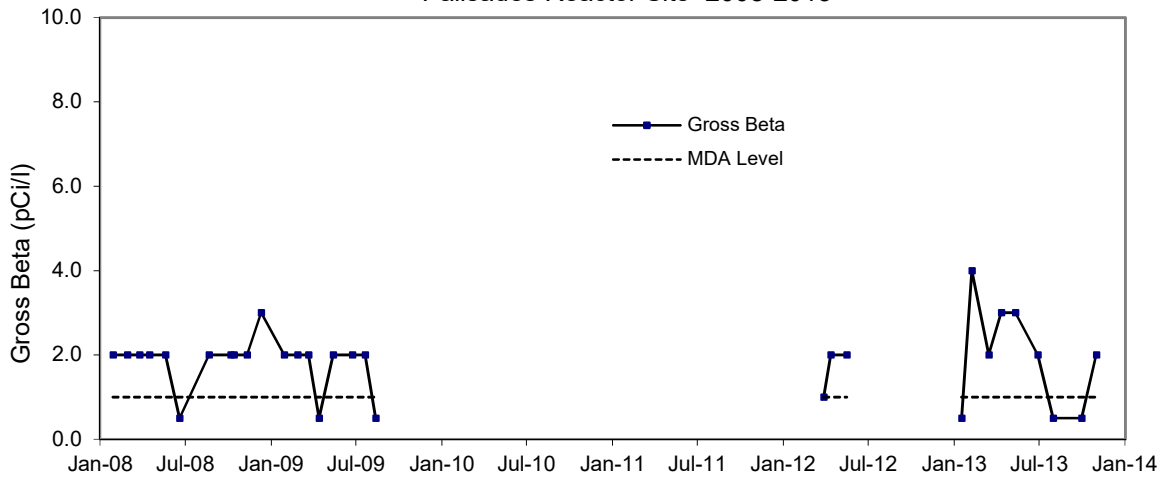


Figure 24

Surface Water Tritium Monitoring Palisades Reactor Site 2008-2013

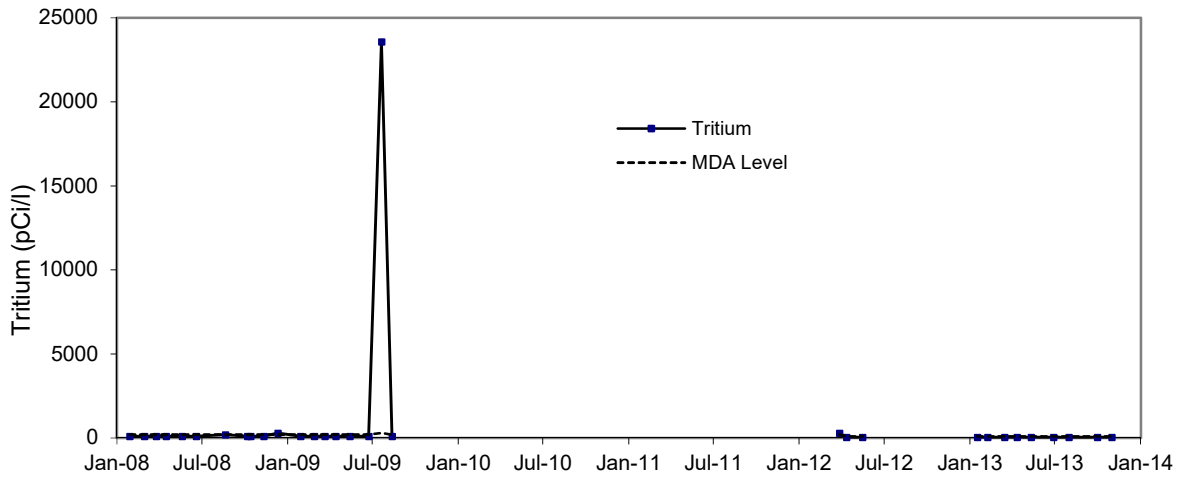


Figure 25

Surface Water Gross Beta Monitoring D. C. Cook 1 Reactor Site 2008-2013

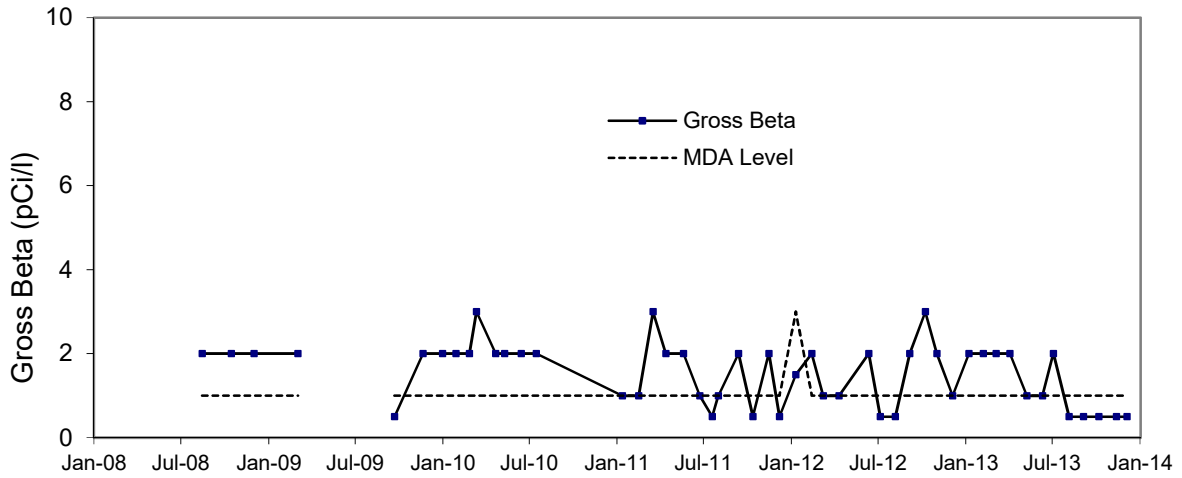


Figure 26

Surface Water Tritium Monitoring D. C. Cook 1 Reactor Site 2008-2013

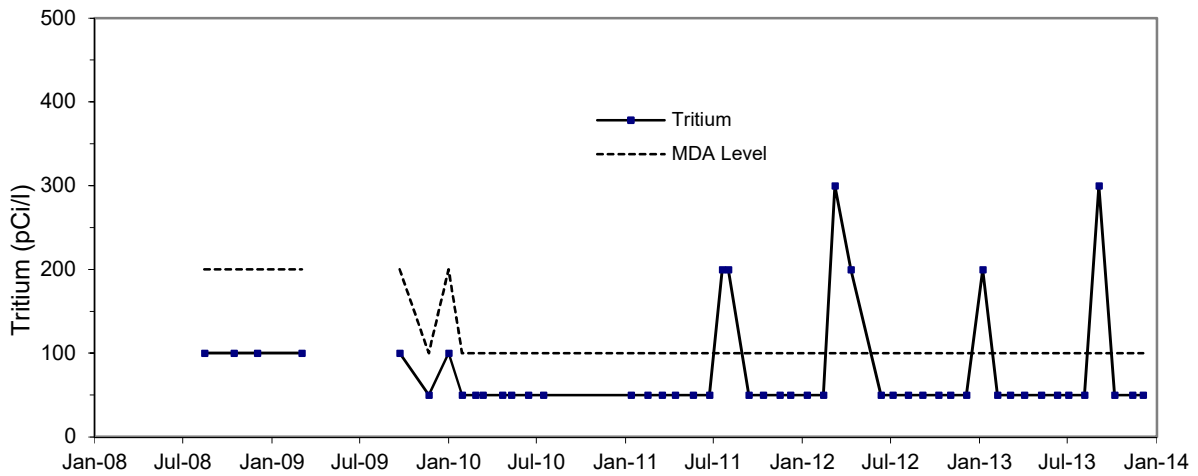


Figure 27

Surface Water Gross Beta Monitoring D. C. Cook 2 Reactor Site 2008-2013

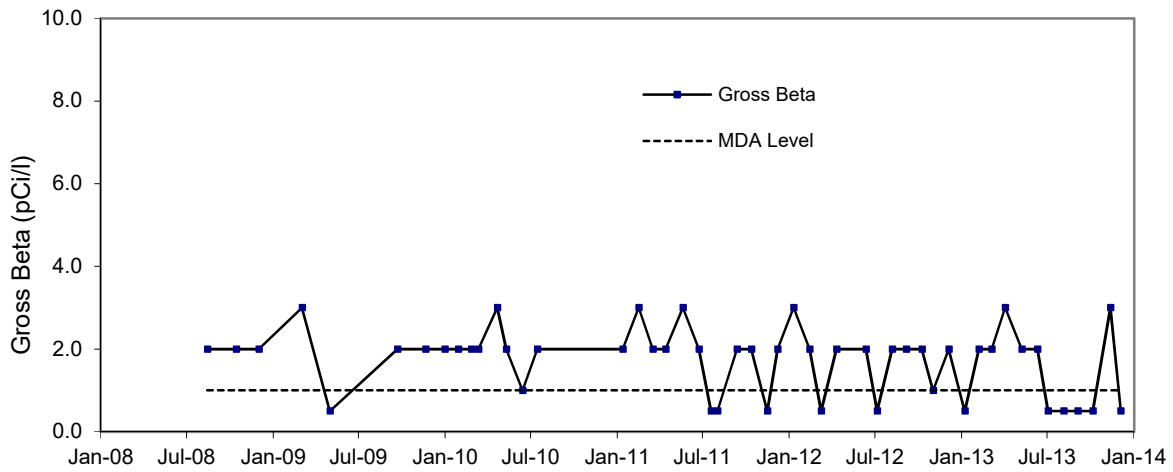


Figure 28

Surface Water Tritium Monitoring D. C. Cook 2 Reactor Site 2008-2013

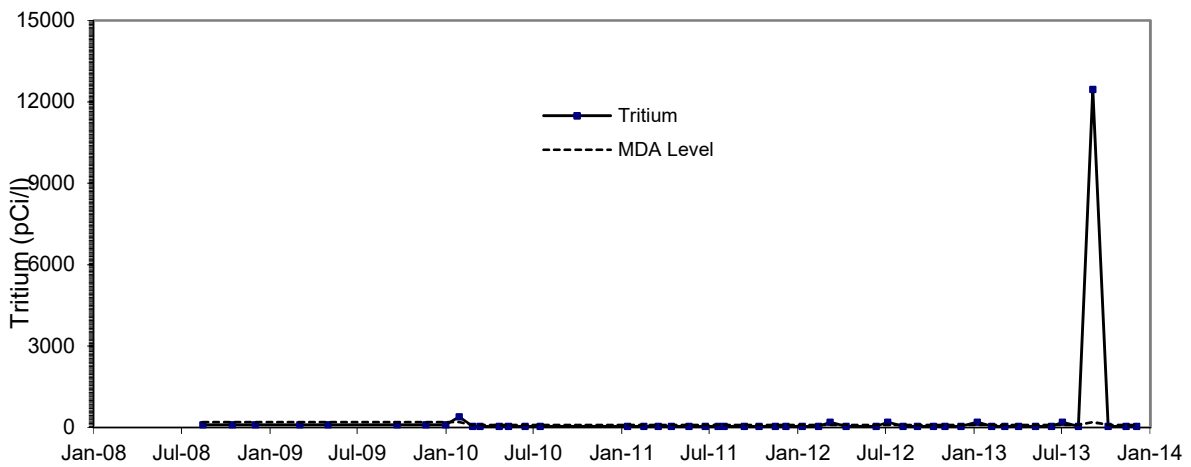


Figure 29

Surface Water Gross Beta Monitoring

Fermi 2 Reactor Site 2008-2013

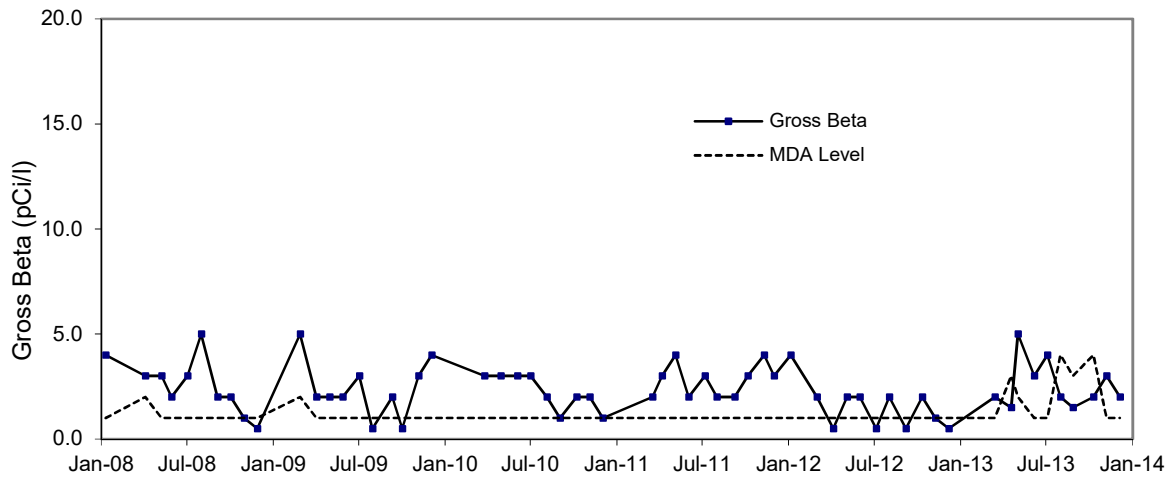


Figure 30

Surface Water Tritium Monitoring

Fermi 2 Reactor Site 2008-2013

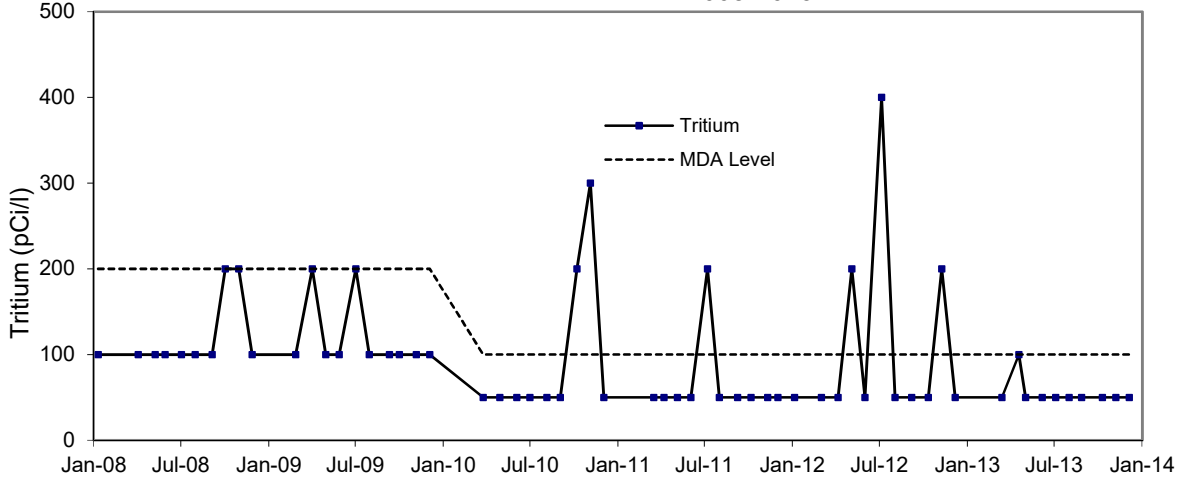


Figure 31

Surface Water Gross Beta Monitoring Fermi 2 Monroe Intake Site 2008-2013

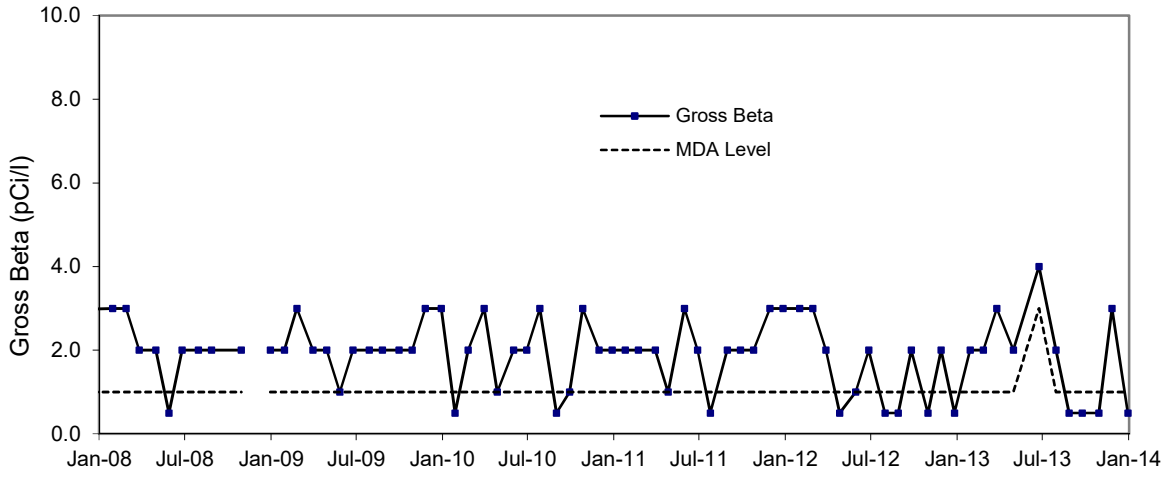


Figure 32

Surface Water Tritium Monitoring Fermi 2 Monroe Intake Site 2008-2013

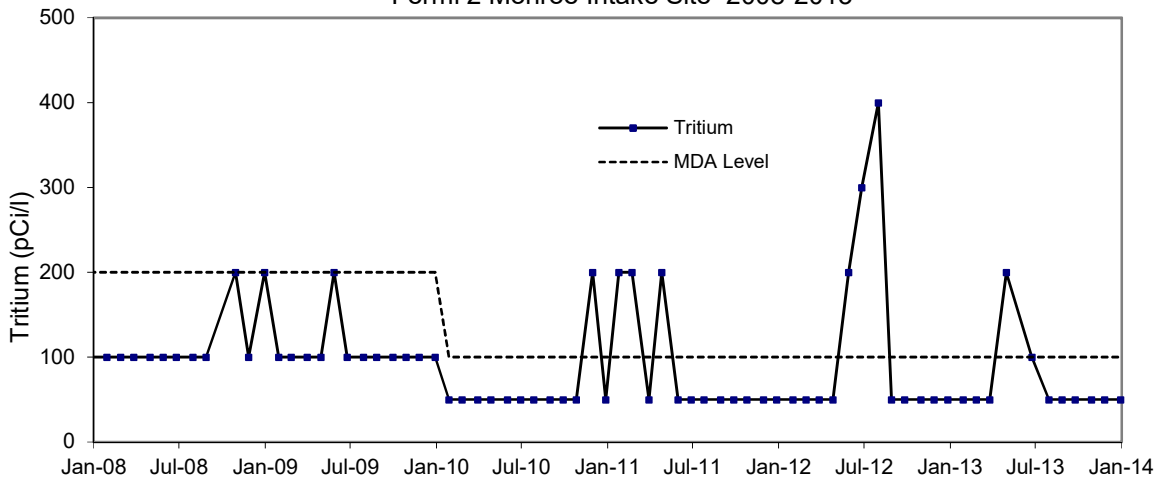


Figure 33

Surface Water Gross Beta Monitoring Fermi 2 Trenton Channel Site 2008-2013

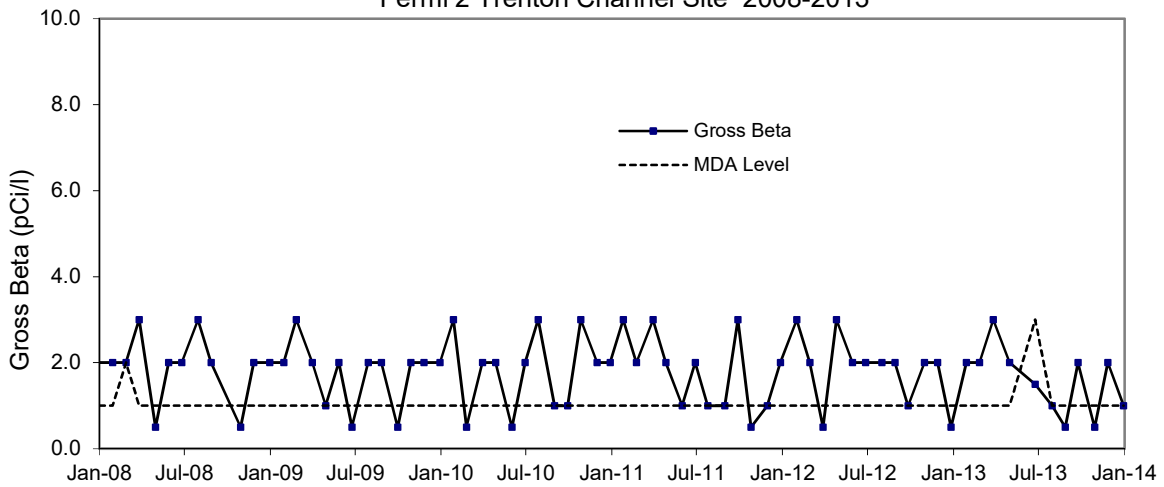


Figure 34

Surface Water Tritium Monitoring Fermi 2 Trenton Channel Site 2008-2013

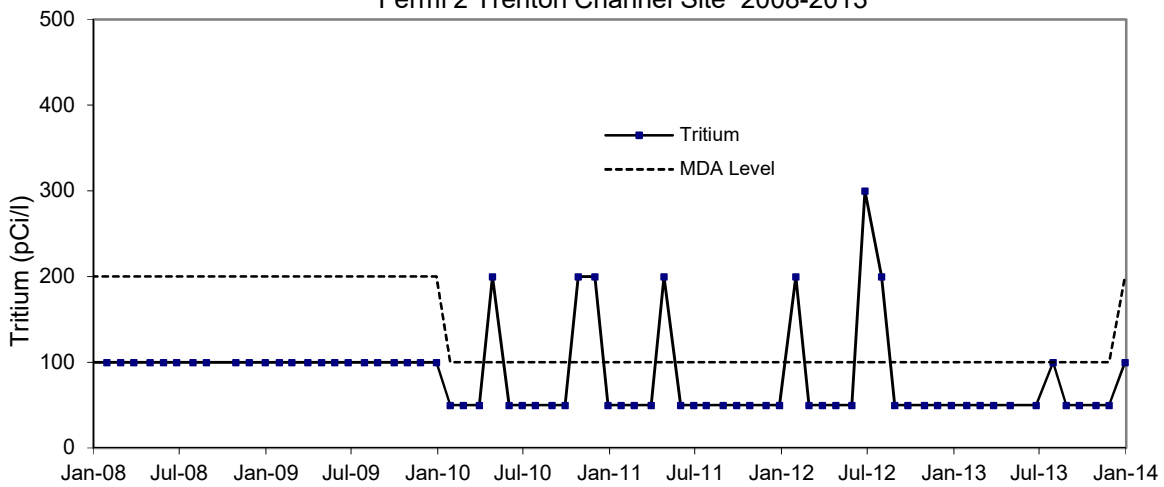


Figure 35

Surface Water Gross Beta Monitoring Fermi 2 Allen Park Intake Site 2008-2013

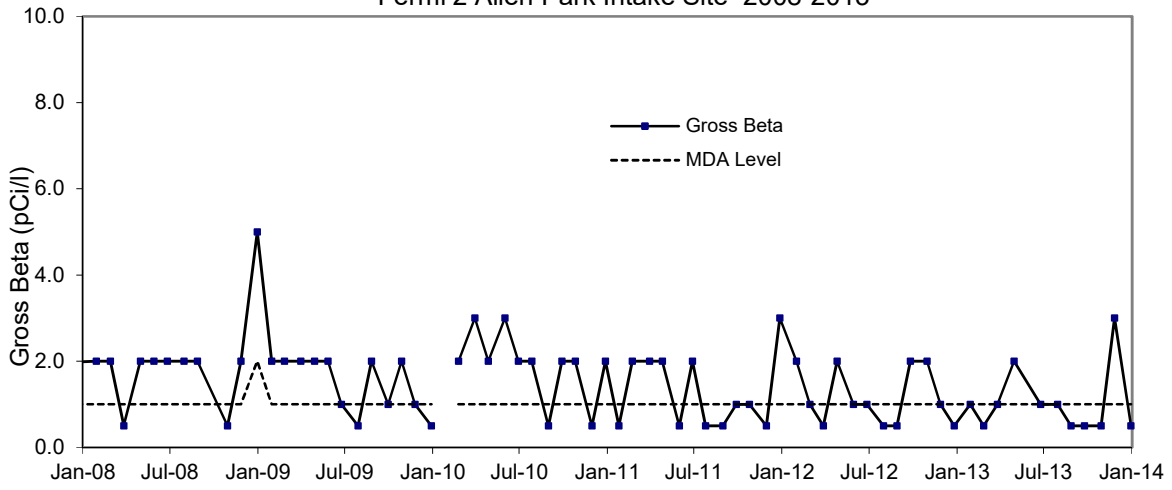


Figure 36

Surface Water Tritium Monitoring Fermi 2 Allen Park Intake Site 2008-2013

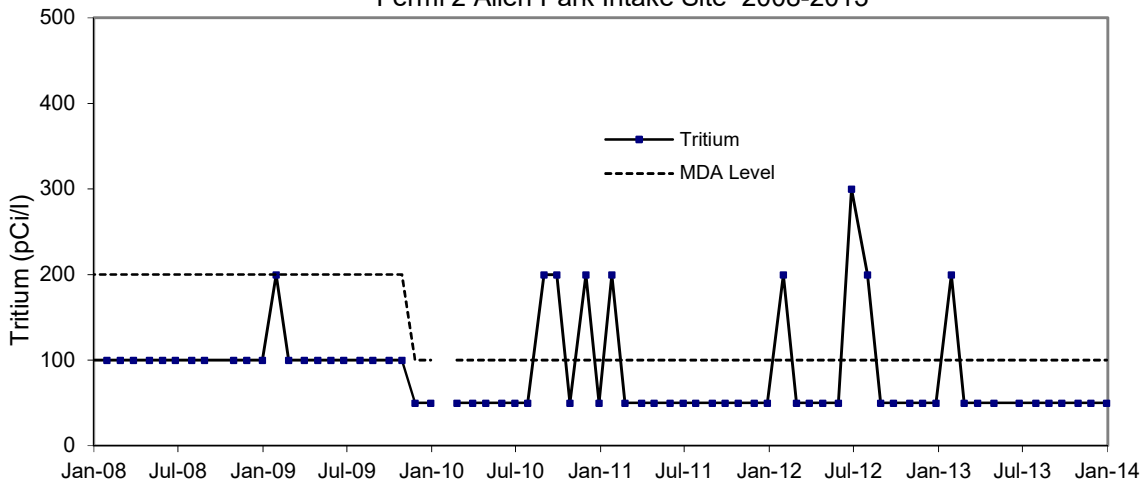


Figure 37

Surface Water Gross Beta Monitoring Fermi 2 Intake Site 2008-2013

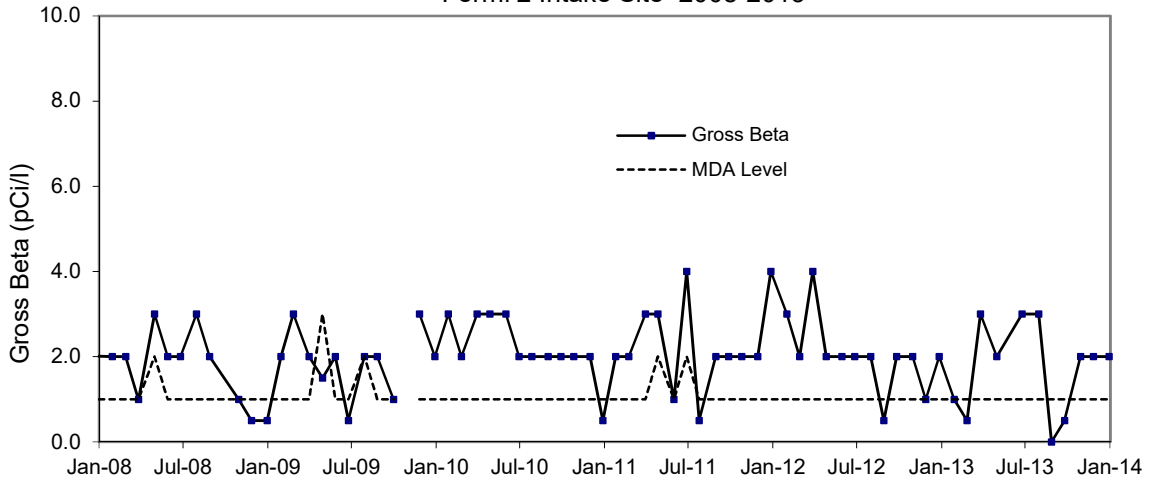


Figure 38

Surface Water Tritium Monitoring Fermi 2 Intake Site 2008-2013

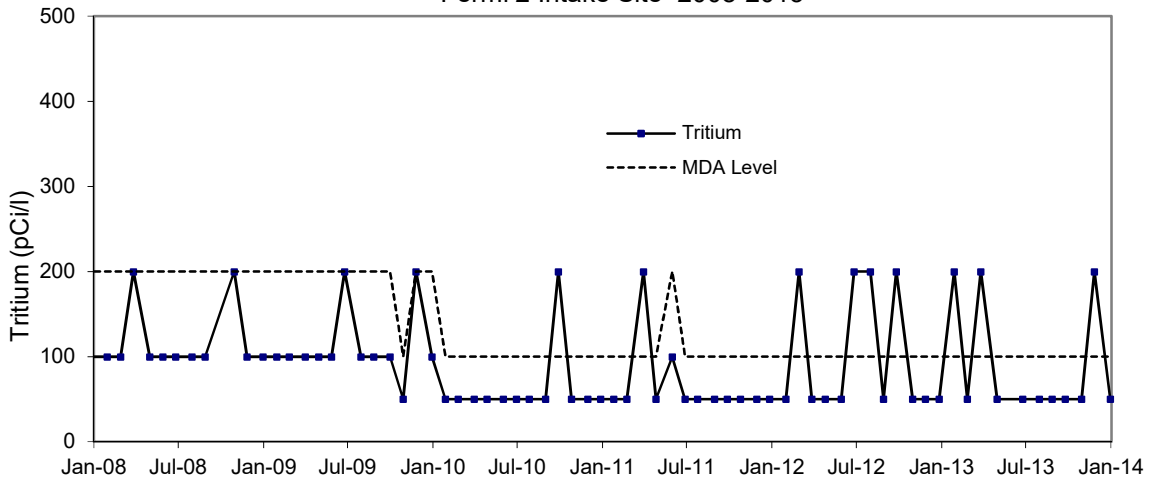


Figure 39

Surface Water Gross Beta Monitoring
Lansing Reference Site 2011-2013

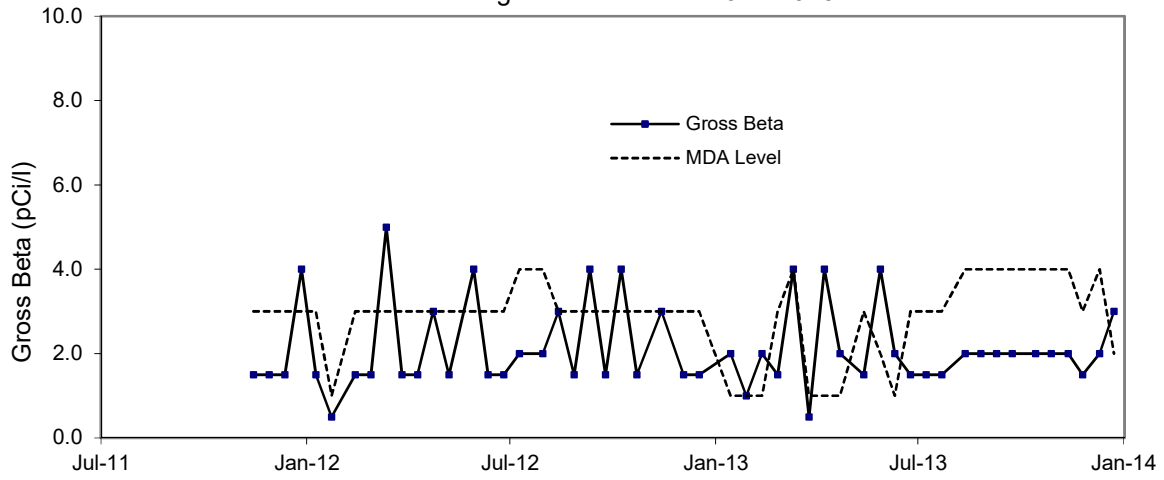
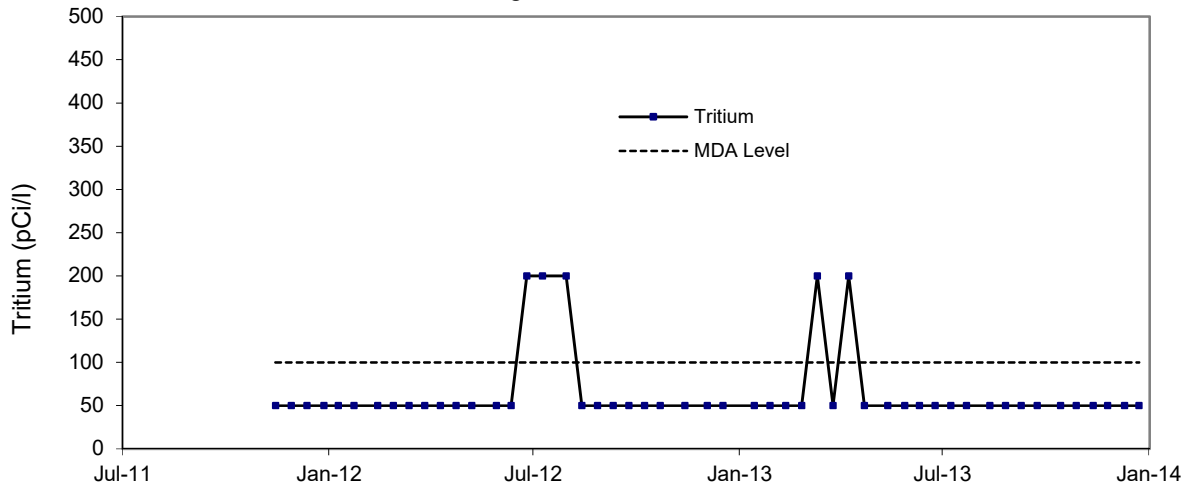


Figure 40

Surface Water Tritium Monitoring
Lansing Reference Site 2011-13



Direct Radiation Monitoring

Sampling Network

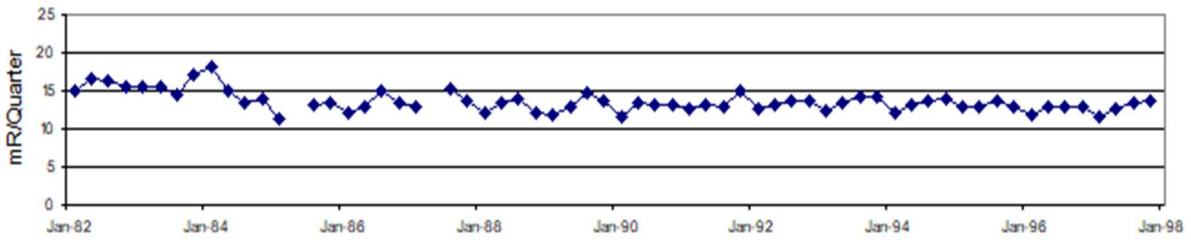
The direct radiation monitoring network consists of 4 to 16 monitoring sites for the three operational power plant areas, the Interim Spent Fuel Storage Installation at Big Rock Point, and a background reference site in Lansing. The network of Thermoluminescent dosimeters (TLD) are exchanged and analyzed each calendar quarter by MDEQ (now EGLE) staff. This direct radiation monitoring network replaces the NRC network which was discontinued in 1997. Direct radiation monitoring results are reported in units of milliroentgens (mR) per quarter or, equivalently, mR per 90 days.

Historical Direct Radiation Monitoring Trends

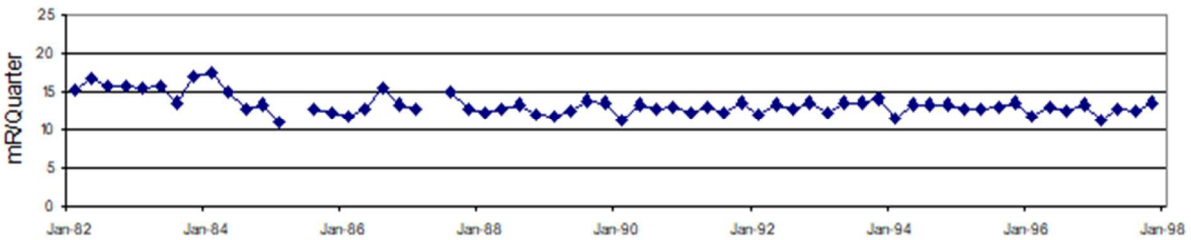
The NRC quarterly direct radiation monitoring program was initiated in the early 1980s around Michigan's four nuclear plant sites and was in operation through the end of 1997. A detailed discussion of historical direct radiation results and trends for the NRC network of monitoring sites was presented in the *MREMP Report 1958-1996*. These detailed discussions are not repeated in this report, but the historical plots of quarterly direct radiation results are shown in Figures 41-44. Since the MDEQ (now EGLE) network of monitoring sites uses only some of the locations used in the NRC network, the historical monitoring results are only updated through the end of 1997 when the monitoring networks changed. For historical results after 1997, reference MREMP Report Supplement 1, Supplement 2, Supplement 3, and Supplement 4.

Figure 41

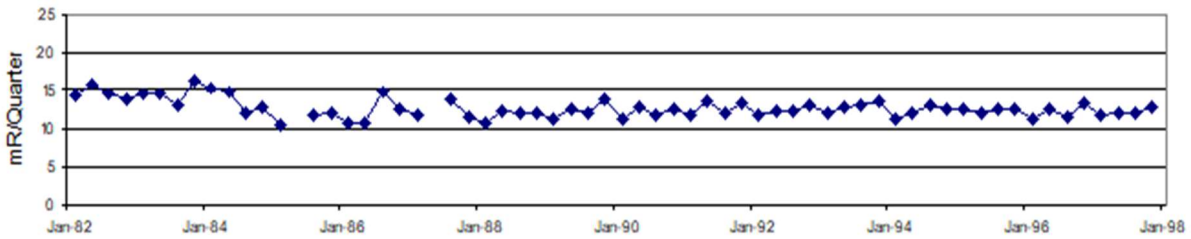
Direct Radiation Monitoring
Big Rock Point Plant (0-2 Miles)



Direct Radiation Monitoring
Big Rock Point Plant (2-5 Miles)



Direct Radiation Monitoring
Big Rock Point Plant (>5 Miles)



Direct Radiation Monitoring
Big Rock Point Plant (Upwind Control)

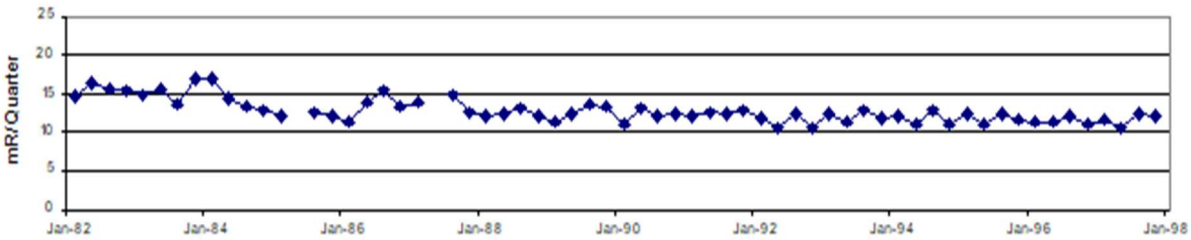
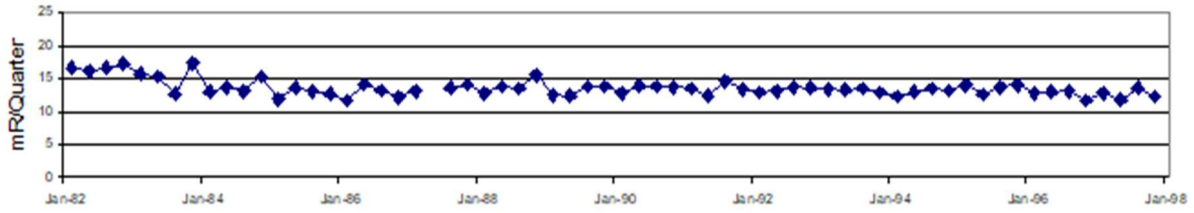
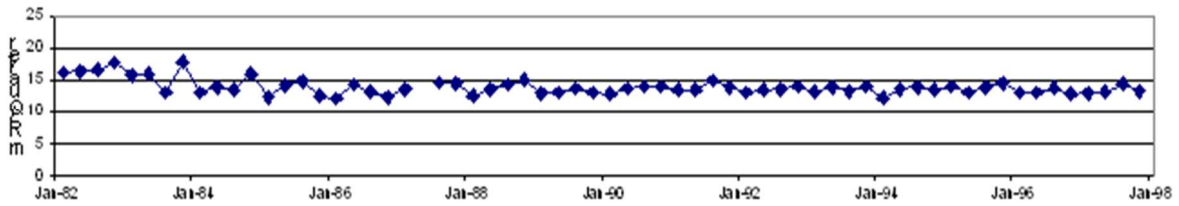


Figure 42

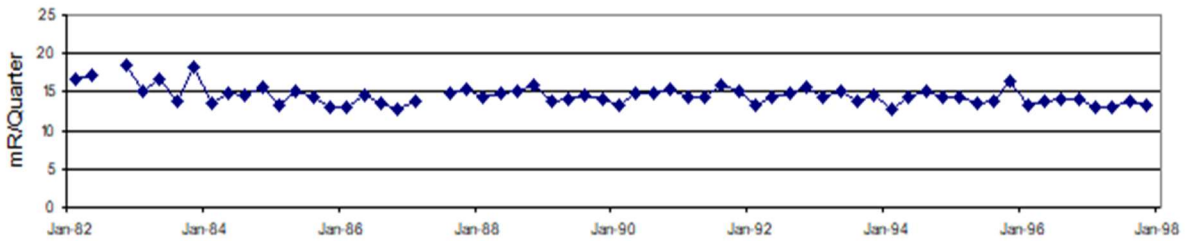
Direct Radiation Monitoring
Palisades Plant (0-2 Miles)



Direct Radiation Monitoring
Palisades Plant (2-5 Miles)



Direct Radiation Monitoring
Palisades Plant (>5 Miles)



Direct Radiation Monitoring
Palisades Plant (Upwind Control)

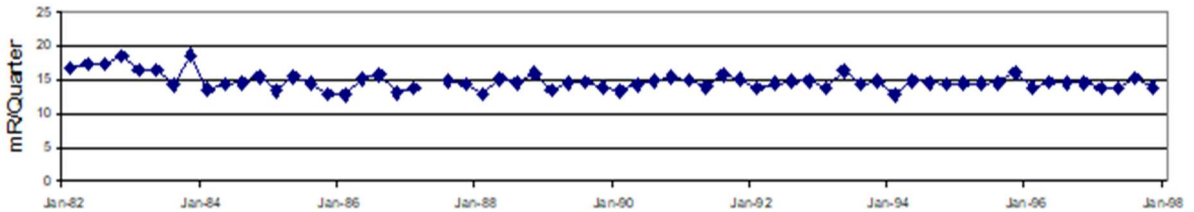
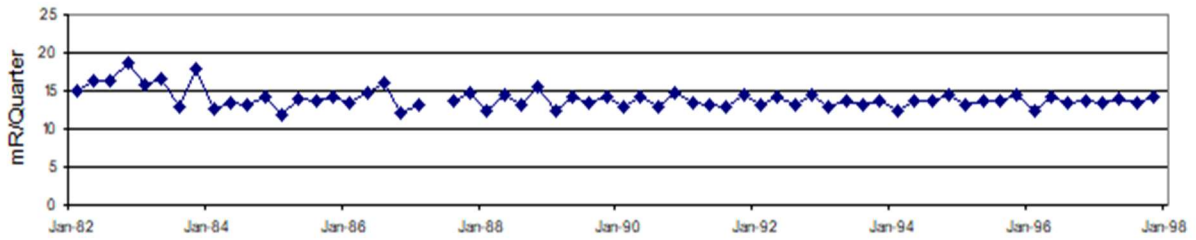
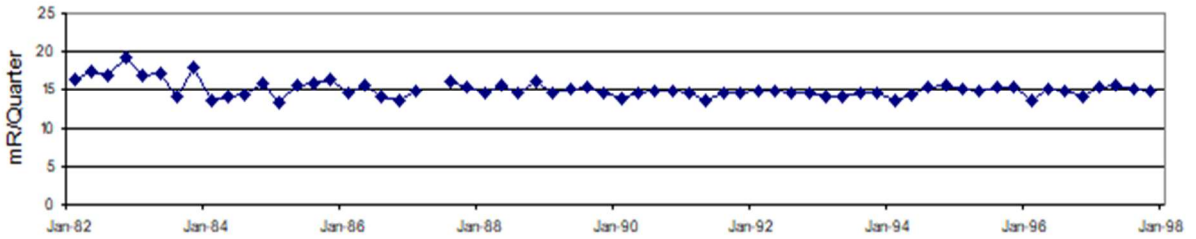


Figure 43

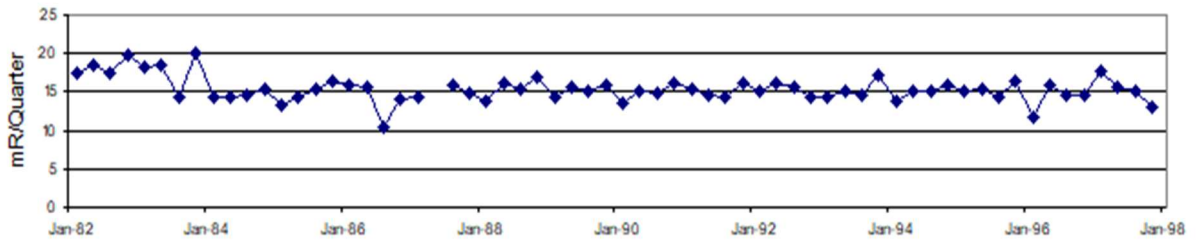
Direct Radiation Monitoring
D. C. Cook Plant (0-2 Miles)



Direct Radiation Monitoring
D. C. Cook Plant (2-5 Miles)



Direct Radiation Monitoring
D. C. Cook Plant (>5 Miles)



Direct Radiation Monitoring
D. C. Cook Plant (Upwind Control)

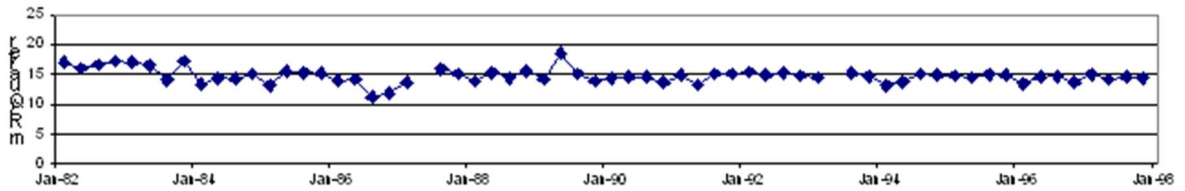
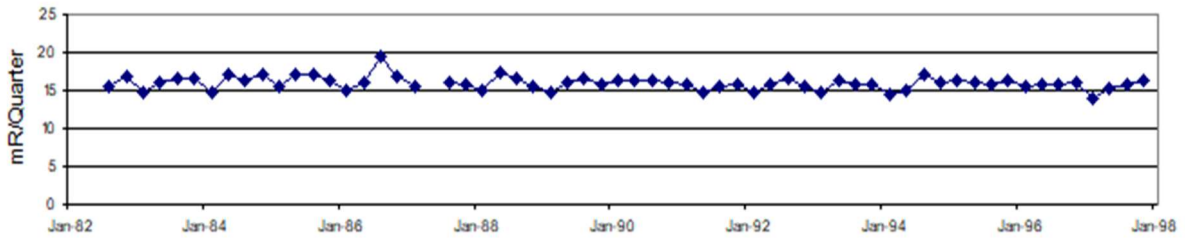


Figure 44

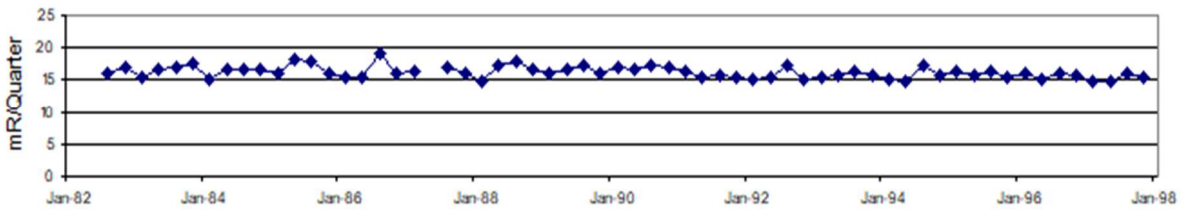
Direct Radiation Monitoring

Fermi 2 Plant (0-2 Miles)



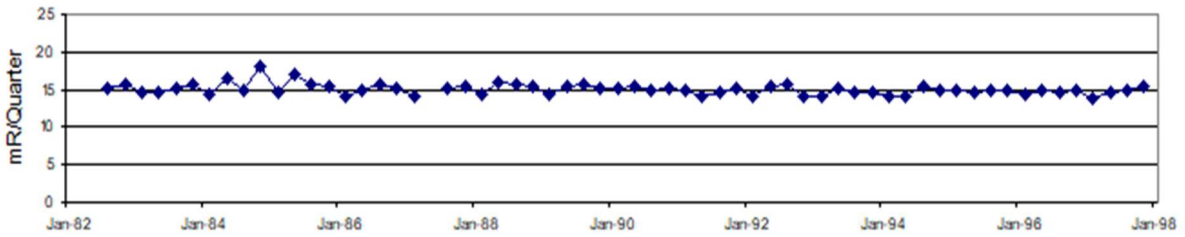
Direct Radiation Monitoring

Fermi 2 Plant (2-5 Miles)



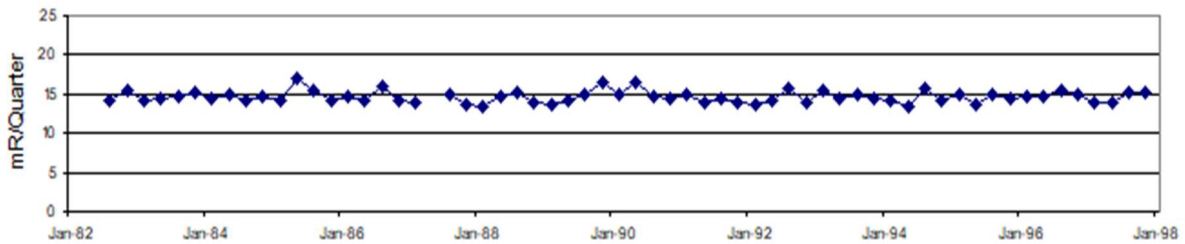
Direct Radiation Monitoring

Fermi 2 Plant (>5 Miles)



Direct Radiation Monitoring

Fermi 2 Plant (Upwind Control)



Direct Radiation Monitoring 2008-2013

During June and July of 1998, a replacement network of direct radiation monitoring sites was established around the four Michigan nuclear power plants along with a background reference site in Lansing, Michigan. The new network of monitoring sites around each of the four nuclear plants is very similar to the NRC network, with a couple of changes. A new monitoring site was co-located with the MDEQ (now EGLE) air sampler, near the reactor at each of the nuclear power plants so to have a site on plant property. In late 2001, monitoring commenced at the Big Rock Point Interim Spent Fuel Storage Installation (ISFSI) with dosimeters placed at the four corners of the fenced area. In 2006 the Big Rock Point network of sites surrounding the plant was discontinued, leaving only the four sites at the corners of the ISFSI for continued monitoring. Also, fewer monitoring sites are used in the area surrounding each of the plants and the NRC upwind control sites were eliminated. A total of 51 monitoring sites (4 for ISFSI, 15 for Palisades, 15 for D. C. Cook, 16 for Fermi 2, and 1 for Lansing) are used in the new MREMP direct radiation network. The TLDs are exchanged at the 51 sites every quarter, analyzed, and the results normalized to a standard 90-day calendar to facilitate comparison over time. Details of the 2008-2013 direct radiation monitoring results for each of the four plants with a comparison to the Lansing background reference site results are discussed below. Figures 45-48 at the end of this section show the quarterly exposure measurement results as a function distance and Figures 49-52 show the average quarterly exposure measurement results as a function of direction for each plant. A tabular presentation of the measurements results for 2008-2013 is presented in Appendix D.

Big Rock Point

Direct radiation results during 2008-2013 monitoring period were, on the average, consistent with previous monitoring years. The average quarterly monitoring measurements for the ISFSI during 2008-2013 monitoring period was 13.6 mR, which is considerably lower than the average of 19.1 mR for the Lansing reference site, unshielded background. The 2008-2013 average quarterly results as a function of direction for the ISFSI are presented in Table 19. From the information in this table and graphically shown in Figures 45 and 49, there were no unusual trends exhibited as a function direction from the ISFSI.

Table 19

BIG ROCK POINT DIRECT RADIATION RESULTS 2008-2013	
Interim Spent Fuel Storage Installation Corner Direction	Average Quarterly Exposure (mR)
NW	12.0
SW	14.6
SE	15.8
NE	11.7

Palisades

The average of all direct radiation measurements taken during 2008-2013 at the 15 monitoring sites in the Palisades plant environs was 15.1 mR, lower than the average of 19.1 mR for the Lansing reference site, unshielded background. Average quarterly direct radiation levels as a function of distance and compass direction from the plant are presented in Table 20. From the information in this table and graphically shown in Figures 46 and 50, no unusual trends are exhibited as a function of either distance or compass direction from the plant.

Table 20

PALISADES DIRECT RADIATION RESULTS 2008-2013	
Distance from the Reactor (miles)	Average Quarterly Exposure (mR)
Reactor Site	15.9
0-2	14.7
2-5	15.1

PALISADES DIRECT RADIATION RESULTS 2008-2013	
>5	15.8
Compass Direction (22.5° Sector)	Average Quarterly Exposure (mR)
NNE	15.3
NE	17.3
ENE	14.6
E	15.9
ESE	14.4
SE	14.3
SSE	15.2
S	15.1
SSW	13.6

D. C. Cook

The average of all the quarterly direct radiation measurements taken during 2008-2013 at the 15 D. C. Cook monitoring sites was 14.8 mR, considerably lower than the average of 19.1 mR for the Lansing reference site, unshielded background. Average quarterly direct radiation levels as a function of distance and compass direction from the plant are presented in Table 21. From the information in this table and graphically shown in Figures 47 and 51, no unusual trends are exhibited as a function of either distance or compass direction from the plant.

Table 21

D. C. COOK DIRECT RADIATION RESULTS 2008-2013	
Distance from the Reactor (miles)	Average Quarterly Exposure (mR)
Reactor Site	15.4
0-2	14.2
2-5	15.4
>5	15.5
Compass Direction (22.5° Sector)	Average Quarterly Exposure (mR)
NNE	14.8
NE	13.0
ENE	13.9
E	14.1
ESE	16.1
SE	15.3
SSE	16.0
S	14.5
SSW	14.2

Fermi 2

The Fermi 2 plant NRC quarterly TLD results for the 2008-2013 period were, on the average, the highest of the four plants and consistent with past monitoring. The average of all measurements taken at the 16 Fermi 2 monitoring sites is 17.4 mR which is slightly lower than the average of 19.1 mR for the Lansing reference site, unshielded background. Average quarterly direct radiation levels as a function of distance and compass direction from the plant are presented in Table 22. From the information in this table and graphically shown in Figures 48 and 52, no unusual trends are exhibited as a function of either distance or compass direction from the plant.

Table 22

FERMI 2 DIRECT RADIATION RESULTS 2008-2013	
Distance from the Reactor (miles)	Average Quarterly Exposure (mR)
0	18.2
0-2	17.1
2-5	18.3
>5	17.0
Compass Direction (22.5° Sector)	Average Quarterly Exposure (mR)
N	16.8
NNE	19.9
NE	
S	16.4
SSW	15.7
SW	16.5
WSW	16.2
W	18.5
WNW	17.3
NW	16.6
NNW	18.4

Lansing

The averages of all measurements taken at the Lansing reference were 10.0 mR for the lead shielded backgrounds and 19.1 mR for the unshielded background and are presented in Table 23. The unshielded background was used to compare to the power plant monitoring results.

Table 23

LANSING DIRECT RADIATION RESULTS 2008-2013	
Reference Site	Average Quarterly Exposure (mR)
Lead Shielded	10.0
Unshielded	19.1

Figure 45

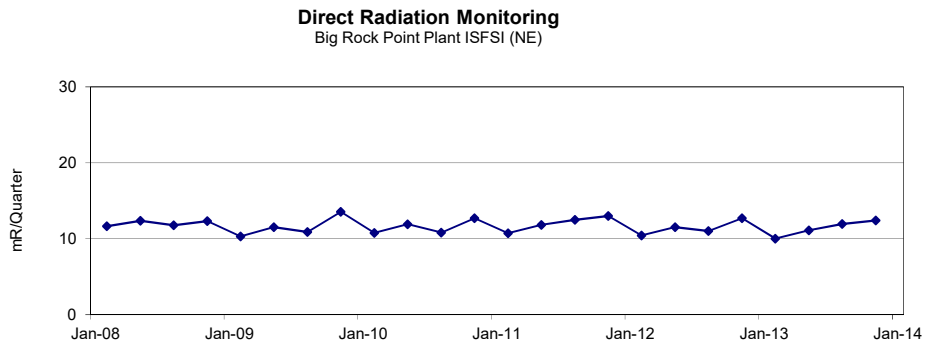
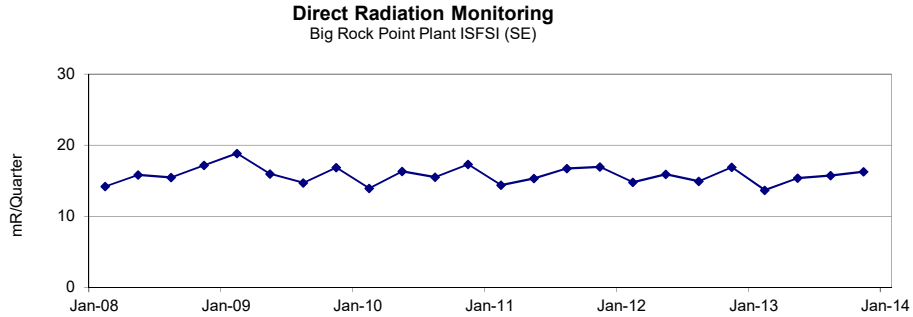
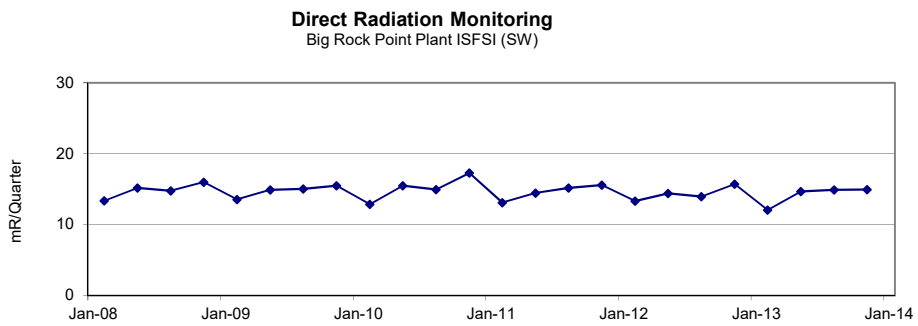
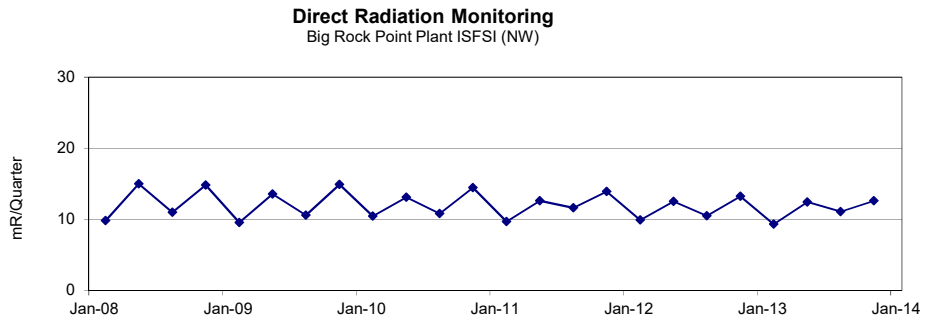
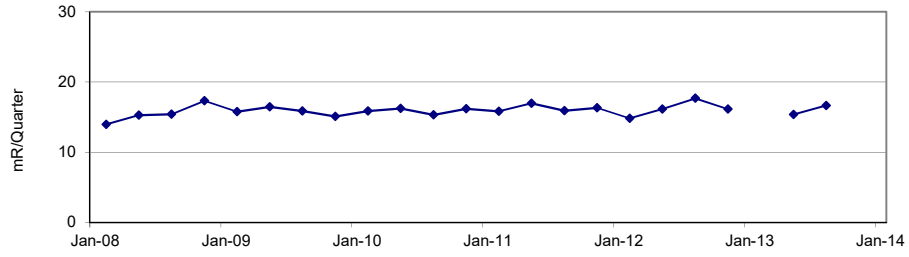
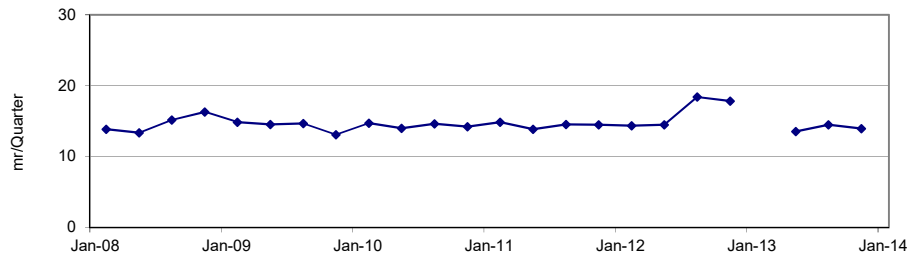


Figure 46

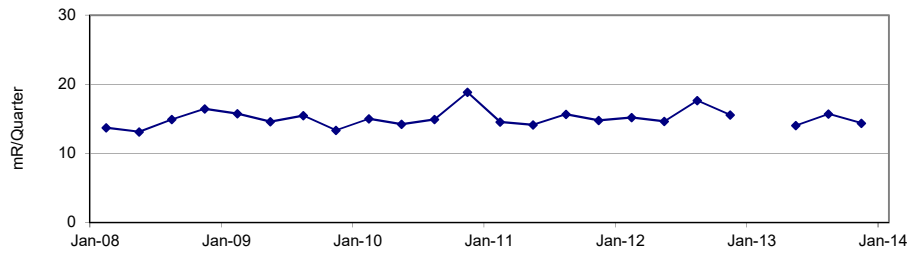
Direct Radiation Monitoring
Palisades Plant (Reactor Site)



Direct Radiation Monitoring
Palisades Plant (0-2 Miles)



Direct Radiation Monitoring
Palisades Plant (2-5 Miles)



Direct Radiation Monitoring
Palisades Plant (>5 Miles)

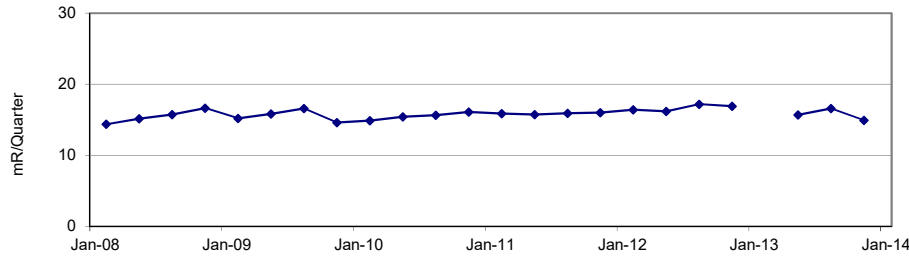


Figure 47

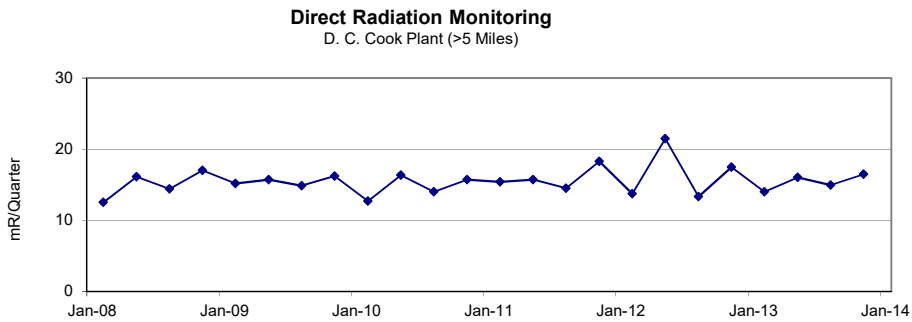
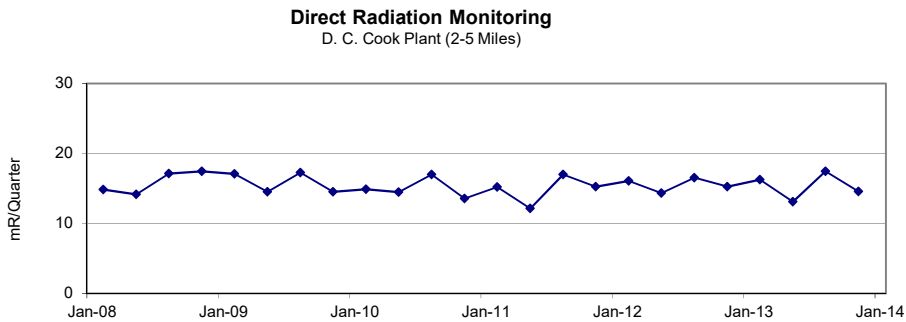
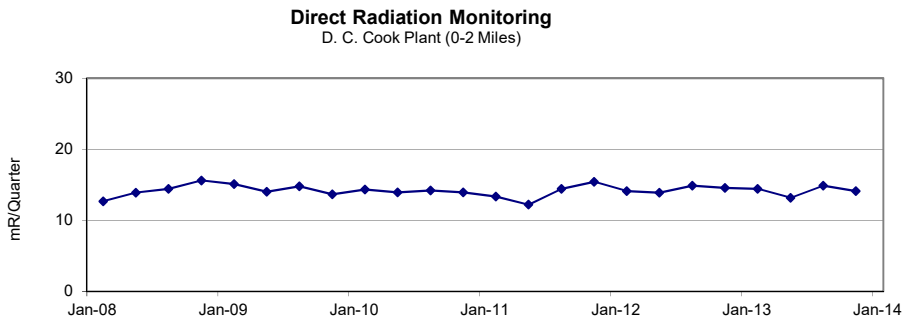
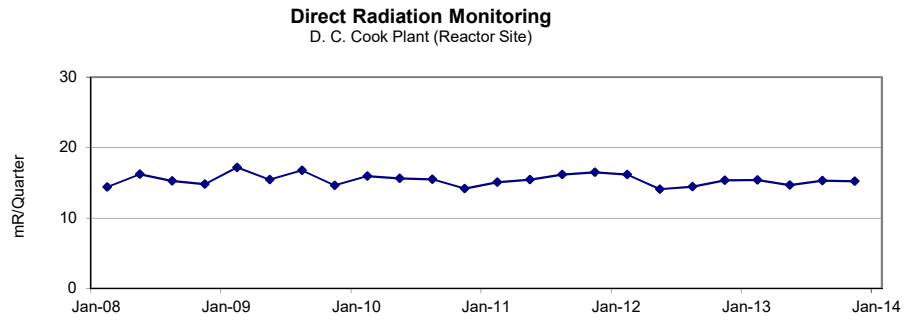
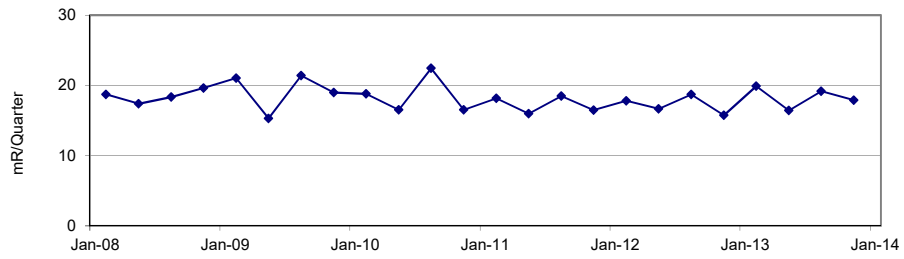
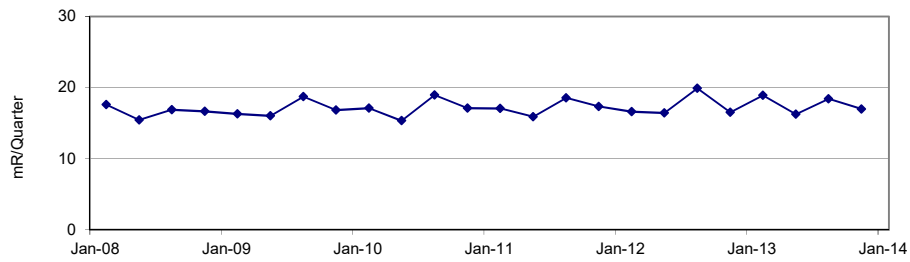


Figure 48

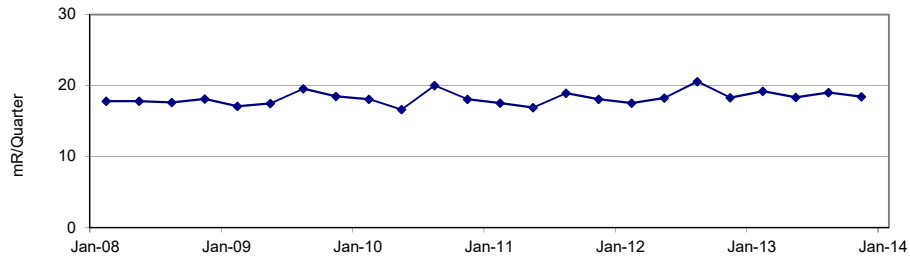
Direct Radiation Monitoring
Fermi 2 Plant (Reactor Site)



Direct Radiation Monitoring
Fermi 2 Plant (0-2 Miles)



Direct Radiation Monitoring
Fermi 2 Plant (2-5 Miles)



Direct Radiation Monitoring
Fermi 2 Plant (>5 Miles)

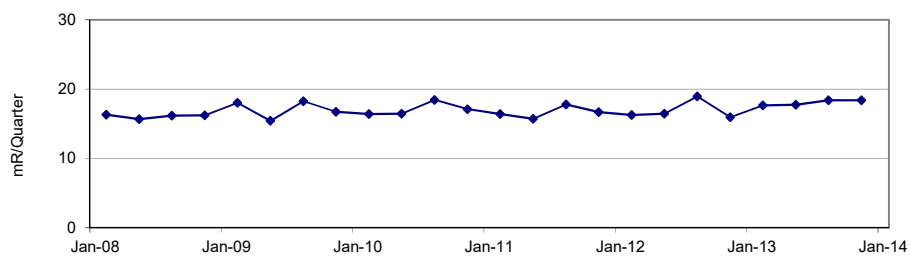


Figure 49

Direct Radiation Monitoring
Big Rock ISFSI 2008-2013

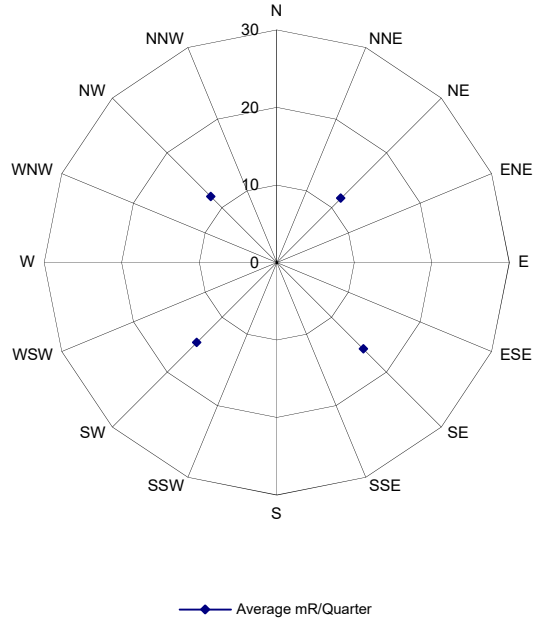


Figure 50

Direct Radiation Monitoring
Palisades Plant 2008-2013

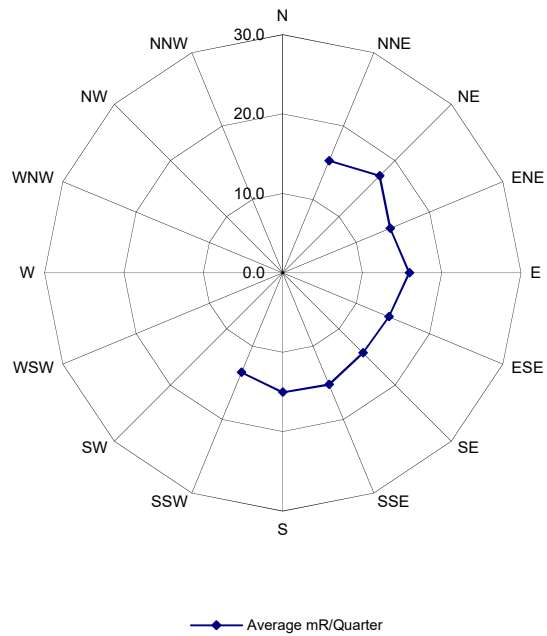


Figure 51

Direct Radiation Monitoring
D. C. Cook Plant 2008-2013

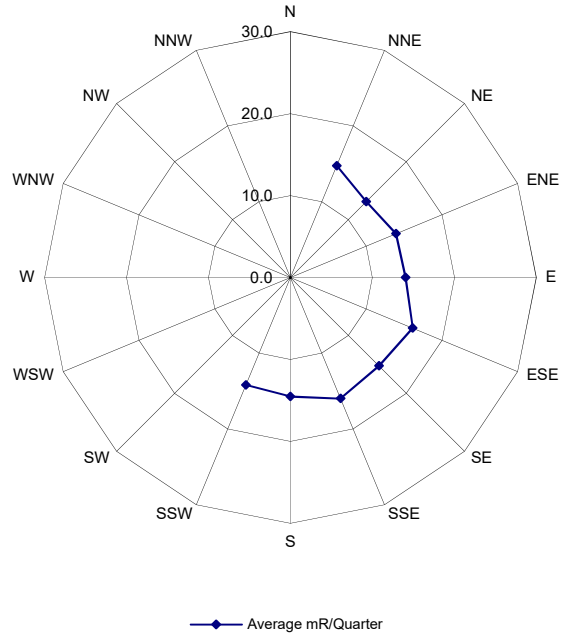
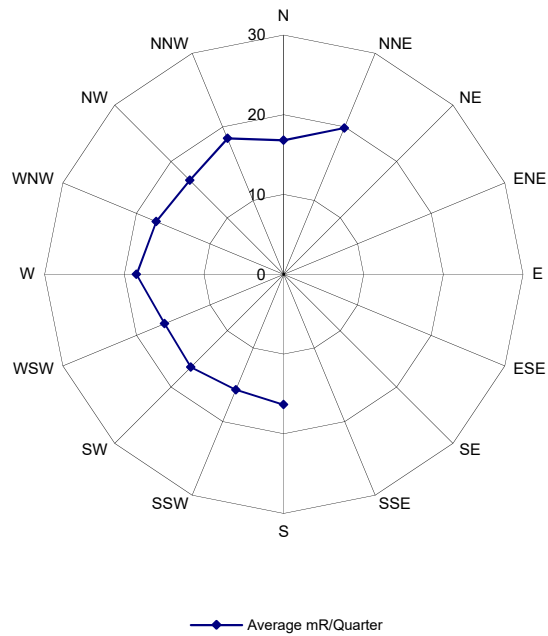


Figure 52

Direct Radiation Monitoring
Fermi 2 Plant 2008-2013



Summary and Conclusion

Recognizing that the peaceful use of nuclear energy to produce electricity could have an adverse impact on public health and the environment, the State of Michigan established the Michigan Radiation Environmental Monitoring Program (MREMP) in 1958. The purpose of the program is to monitor the environs near the nuclear power plant sites to assure that Michigan's citizens and its environment are not adversely impacted. Environmental samples in the form of air particulates, air vapors, milk, surface water, and direct radiation are taken from various sites in Michigan and analyzed to determine if any radiological effects due to nuclear power plants can be detected.

Geographic variations in atmospheric air particulate monitoring are evident during the 2008-2013 monitoring period, but no air particulate sample analytical results were found to be indicative of nuclear power plant operations, with levels reflecting only the normal fluctuations in natural background. Among the atmospheric air vapor results for the 2008-2013 period, 21 were found to be above the MDA. However, all these 21 results were immediately following the Fukushima Daiichi power plant accident on March 11, 2011. Within four weeks of the Fukushima accident, the results returned to levels below the MDA indicating no detectable influence from Michigan's nuclear power plant operations.

Terrestrial milk sample results were consistently below MDA levels during the six-year monitoring period. Long-lived radionuclides due to atmospheric fallout from nuclear device testing prior to 1981 were still present in a small percentage of milk samples, but the detectable levels found during the 2008-2013 period were only slightly above analytical MDA levels. None of the 2008-2013 milk results were attributable to Michigan nuclear plant operations.

Most aquatic monitoring surface water sample results during 2008-2013 continued the trend of exhibiting the fluctuation in natural background from the early 1980s to the present. There was one sample from the Palisades Plant and one sample from the DC Cook Plant with much higher than usual amounts of tritium activity. These samples were collected inside the plant, so they are held to the NRC's limits of radioactive release to the environment. They both were below allowable NRC limit for tritium. They also represent a very small fraction of the total samples analyzed.

Direct radiation monitoring results have detected the impact of nuclear plant operations but only at the plant site very near to the reactor. Off-site direct radiation monitoring has historically shown levels reflecting the natural background of cosmic and terrestrial radiation. Direct radiation levels during 2008-2013 follow the normal natural background trend with no pattern that would indicate an adverse impact due to nuclear power plant operations.

In conclusion, the results of the MREMP indicate that no public health or environmental radiological impact was detected in the off-site environs of Michigan's nuclear power plants during the 2008-2013 period that could be attributed to the operation of nuclear power reactors.

Appendix A

Atmospheric Monitoring
Palisades
2008
Reactor Site Air Station

Collection Date	Gross Beta (pCi/m ³)	¹³¹ I (pCi/m ³)	Collection Date	Gross Beta (pCi/m ³)	¹³¹ I (pCi/m ³)
01/07/08	0.028 ± 0.002	LT 0.03	07/06/08	0.014 ± 0.002	LT 0.04
01/15/08	0.022 ± 0.002	LT 0.03	07/12/08	0.016 ± 0.002	LT 0.05
01/22/08	0.025 ± 0.002	LT 0.03	07/19/08	0.023 ± 0.002	LT 0.04
01/27/08	0.033 ± 0.003	LT 0.05	07/26/08	0.021 ± 0.002	LT 0.04
02/05/08	0.026 ± 0.002	LT 0.02	08/03/08	0.017 ± 0.002	LT 0.03
02/11/08	0.024 ± 0.002	LT 0.04	08/11/08	0.012 ± 0.002	LT 0.03
02/18/08	0.023 ± 0.002	LT 0.03	08/18/08	0.022 ± 0.002	LT 0.03
02/24/08	0.020 ± 0.002	LT 0.04	08/25/08	0.020 ± 0.002	LT 0.07
03/02/08	0.021 ± 0.002	LT 0.03	09/01/08	0.025 ± 0.002	LT 0.03
03/10/08	0.023 ± 0.002	LT 0.03	09/09/08	0.019 ± 0.002	LT 0.03
03/16/08	0.021 ± 0.003	LT 0.05	09/15/08	0.013 ± 0.002	LT 0.04
03/23/08	0.015 ± 0.002	LT 0.03	09/22/08	0.020 ± 0.002	LT 0.03
04/01/08	0.016 ± 0.002	LT 0.02	09/30/08	0.036 ± 0.002	LT 0.03
04/07/08	0.023 ± 0.002	LT 0.04	10/07/08	0.023 ± 0.002	LT 0.03
04/13/08	0.011 ± 0.002	LT 0.04	10/13/08	0.022 ± 0.002	LT 0.04
04/20/08	0.021 ± 0.002	LT 0.03	10/21/08	0.014 ± 0.002	LT 0.03
04/27/08	0.020 ± 0.002	LT 0.04	10/26/08	0.017 ± 0.002	LT 0.04
05/04/08	0.021 ± 0.002	LT 0.04	11/03/08	0.024 ± 0.002	LT 0.03
05/14/08	0.016 ± 0.002	LT 0.02	11/10/08	0.023 ± 0.002	LT 0.03
05/19/08	0.012 ± 0.002	LT 0.04	11/17/08	0.020 ± 0.002	LT 0.04
05/25/08	0.007 ± 0.002	LT 0.05	11/25/08	0.017 ± 0.002	LT 0.04
06/03/08	0.020 ± 0.002	LT 0.02	12/01/08	0.019 ± 0.002	LT 0.04
06/08/08	0.012 ± 0.002	LT 0.05	12/08/08	0.016 ± 0.002	LT 0.03
06/15/08	0.016 ± 0.002	LT 0.03	12/15/08	0.022 ± 0.002	LT 0.03
06/22/08	0.011 ± 0.002	LT 0.03	12/22/08	0.025 ± 0.002	LT 0.04
06/29/08	0.014 ± 0.002	LT 0.04	12/28/08	0.028 ± 0.003	LT 0.04

LT – Less Than

Appendix A

Atmospheric Monitoring
Palisades
2008
Covert Air Station

Collection Date	Gross Beta (pCi/m ³)	¹³¹ I (pCi/m ³)	Collection Date	Gross Beta (pCi/m ³)	¹³¹ I (pCi/m ³)
01/07/08	0.023 ± 0.002	LT 0.03	07/06/08	~~~~~	~~~~~
01/15/08	0.016 ± 0.002	LT 0.03	07/12/08	~~~~~	~~~~~
01/22/08	0.028 ± 0.002	LT 0.03	07/19/08	~~~~~	~~~~~
01/27/08	0.026 ± 0.003	LT 0.05	07/26/08	~~~~~	~~~~~
02/05/08	0.022 ± 0.002	LT 0.03	08/03/08	~~~~~	~~~~~
02/11/08	0.016 ± 0.002	LT 0.04	08/11/08	~~~~~	~~~~~
02/18/08	0.015 ± 0.003*	LT 0.07*	08/18/08	~~~~~	~~~~~
02/24/08	~~~~~	~~~~~	08/25/08	~~~~~	~~~~~
03/02/08	~~~~~	~~~~~	09/01/08	~~~~~	~~~~~
03/10/08	~~~~~	~~~~~	09/09/08	~~~~~	~~~~~
03/16/08	0.013 ± 0.002	LT 0.04	09/15/08	~~~~~	~~~~~
03/23/08	0.012 ± 0.002	LT 0.03	09/22/08	~~~~~	~~~~~
04/01/08	0.009 ± 0.001	LT 0.02	09/30/08	~~~~~	~~~~~
04/07/08	~~~~~	~~~~~	10/07/08	0.012 ± 0.002	LT 0.03
04/13/08	~~~~~	~~~~~	10/13/08	0.016 ± 0.002	LT 0.04
04/20/08	~~~~~	~~~~~	10/21/08	0.011 ± 0.002	LT 0.03
04/27/08	~~~~~	~~~~~	10/26/08	0.014 ± 0.002	LT 0.04
05/04/08	~~~~~	~~~~~	11/03/08	0.018 ± 0.002	LT 0.03
05/14/08	~~~~~	~~~~~	11/10/08	0.016 ± 0.002	LT 0.03
05/19/08	~~~~~	~~~~~	11/17/08	0.013 ± 0.002	LT 0.04
05/25/08	~~~~~	~~~~~	11/25/08	0.012 ± 0.002	LT 0.04
06/03/08	~~~~~	~~~~~	12/01/08	0.014 ± 0.002	LT 0.04
06/08/08	~~~~~	~~~~~	12/08/08	0.014 ± 0.002	LT 0.04
06/15/08	~~~~~	~~~~~	12/15/08	0.015 ± 0.002	LT 0.03
06/22/08	~~~~~	~~~~~	12/22/08	0.015 ± 0.002	LT 0.04
06/29/08	~~~~~	~~~~~	12/28/08	~~~~~	~~~~~

LT – Less Than

~~~~~ – No Sample

\* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring  
Palisades  
2008  
South Haven Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/07/08        | 0.026 ± 0.002                    | LT 0.03                                | 07/06/08        | 0.013 ± 0.002                    | LT 0.04                                |
| 01/15/08        | 0.020 ± 0.002                    | LT 0.03                                | 07/12/08        | 0.013 ± 0.002                    | LT 0.04                                |
| 01/22/08        | 0.024 ± 0.002                    | LT 0.03                                | 07/19/08        | 0.022 ± 0.002                    | LT 0.04                                |
| 01/27/08        | 0.031 ± 0.003                    | LT 0.05                                | 07/26/08        | 0.021 ± 0.002                    | LT 0.04                                |
| 02/05/08        | 0.019 ± 0.002                    | LT 0.02                                | 08/03/08        | 0.015 ± 0.002                    | LT 0.03                                |
| 02/11/08        | 0.019 ± 0.002                    | LT 0.04                                | 08/11/08        | 0.011 ± 0.002                    | LT 0.03                                |
| 02/18/08        | 0.022 ± 0.002                    | LT 0.03                                | 08/18/08        | 0.017 ± 0.002                    | LT 0.03                                |
| 02/24/08        | 0.020 ± 0.002                    | LT 0.04                                | 08/25/08        | 0.018 ± 0.002                    | LT 0.06                                |
| 03/02/08        | 0.020 ± 0.002                    | LT 0.03                                | 09/01/08        | 0.023 ± 0.002                    | LT 0.03                                |
| 03/10/08        | 0.021 ± 0.002                    | LT 0.03                                | 09/09/08        | 0.015 ± 0.002                    | LT 0.03                                |
| 03/16/08        | 0.020 ± 0.002                    | LT 0.04                                | 09/15/08        | 0.013 ± 0.002                    | LT 0.04                                |
| 03/23/08        | 0.017 ± 0.002                    | LT 0.03                                | 09/22/08        | 0.016 ± 0.002                    | LT 0.03                                |
| 04/01/08        | 0.016 ± 0.002                    | LT 0.02                                | 09/30/08        | 0.033 ± 0.002                    | LT 0.03                                |
| 04/07/08        | 0.034 ± 0.004*                   | LT 0.08*                               | 10/07/08        | 0.019 ± 0.002                    | LT 0.03                                |
| 04/13/08        | 0.008 ± 0.002                    | LT 0.04                                | 10/13/08        | 0.021 ± 0.002                    | LT 0.04                                |
| 04/20/08        | 0.018 ± 0.002                    | LT 0.03                                | 10/21/08        | 0.014 ± 0.002                    | LT 0.03                                |
| 04/27/08        | 0.021 ± 0.002                    | LT 0.04                                | 10/26/08        | 0.016 ± 0.002                    | LT 0.04                                |
| 05/04/08        | 0.039 ± 0.004*                   | LT 0.07*                               | 11/03/08        | 0.021 ± 0.002                    | LT 0.03                                |
| 05/14/08        | 0.016 ± 0.002                    | LT 0.02                                | 11/10/08        | 0.021 ± 0.002                    | LT 0.03                                |
| 05/19/08        | 0.011 ± 0.002                    | LT 0.04                                | 11/17/08        | 0.019 ± 0.002                    | LT 0.04                                |
| 05/25/08        | 0.007 ± 0.002                    | LT 0.04                                | 11/25/08        | 0.016 ± 0.002                    | LT 0.04                                |
| 06/03/08        | 0.023 ± 0.002                    | LT 0.02                                | 12/01/08        | 0.019 ± 0.002                    | LT 0.04                                |
| 06/08/08        | 0.012 ± 0.002                    | LT 0.05                                | 12/08/08        | 0.017 ± 0.003*                   | LT 0.07                                |
| 06/15/08        | 0.014 ± 0.002                    | LT 0.03                                | 12/15/08        | 0.019 ± 0.002                    | LT 0.03                                |
| 06/22/08        | 0.010 ± 0.002                    | LT 0.03                                | 12/22/08        | 0.019 ± 0.002                    | LT 0.04                                |
| 06/29/08        | 0.014 ± 0.002                    | LT 0.04                                | 12/28/08        | 0.029 ± 0.003                    | LT 0.04                                |

LT – Less Than

\* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring  
 D. C. Cook  
 2008  
 Reactor Site Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/07/08        | 0.024 ± 0.002                    | LT 0.03                                | 07/06/08        | ~~~~                             | ~~~~                                   |
| 01/15/08        | 0.019 ± 0.002                    | LT 0.03                                | 07/12/08        | ~~~~                             | ~~~~                                   |
| 01/22/08        | 0.025 ± 0.002                    | LT 0.03                                | 07/19/08        | ~~~~                             | ~~~~                                   |
| 01/27/08        | 0.028 ± 0.003                    | LT 0.05                                | 07/26/08        | 0.016 ± 0.002                    | LT 0.07                                |
| 02/05/08        | 0.027 ± 0.002                    | LT 0.02                                | 08/03/08        | 0.014 ± 0.002                    | LT 0.03                                |
| 02/11/08        | 0.019 ± 0.002                    | LT 0.04                                | 08/11/08        | ~~~~                             | ~~~~                                   |
| 02/18/08        | 0.022 ± 0.002                    | LT 0.03                                | 08/18/08        | 0.029 ± 0.002                    | LT 0.03                                |
| 02/24/08        | 0.019 ± 0.002                    | LT 0.04                                | 08/25/08        | 0.016 ± 0.002                    | LT 0.04                                |
| 03/02/08        | 0.019 ± 0.002                    | LT 0.04                                | 09/01/08        | 0.023 ± 0.002                    | LT 0.03                                |
| 03/10/08        | 0.021 ± 0.002                    | LT 0.03                                | 09/09/08        | 0.012 ± 0.002                    | LT 0.03                                |
| 03/16/08        | 0.020 ± 0.002                    | LT 0.04                                | 09/15/08        | 0.008 ± 0.002                    | LT 0.04                                |
| 03/23/08        | 0.014 ± 0.002                    | LT 0.03                                | 09/22/08        | 0.015 ± 0.002                    | LT 0.03                                |
| 04/01/08        | 0.004 ± 0.002*                   | LT 0.05*                               | 09/30/08        | 0.027 ± 0.002                    | LT 0.03                                |
| 04/07/08        | ~~~~                             | ~~~~                                   | 10/07/08        | 0.019 ± 0.002                    | LT 0.03                                |
| 04/13/08        | ~~~~                             | ~~~~                                   | 10/13/08        | 0.018 ± 0.002                    | LT 0.04                                |
| 04/20/08        | 0.016 ± 0.002                    | LT 0.04                                | 10/21/08        | 0.009 ± 0.002                    | LT 0.03                                |
| 04/27/08        | 0.020 ± 0.002                    | LT 0.04                                | 10/26/08        | 0.013 ± 0.002                    | LT 0.04                                |
| 05/04/08        | 0.036 ± 0.004*                   | LT 0.07*                               | 11/03/08        | 0.019 ± 0.002                    | LT 0.03                                |
| 05/14/08        | ~~~~                             | ~~~~                                   | 11/10/08        | 0.014 ± 0.002                    | LT 0.03                                |
| 05/19/08        | ~~~~                             | ~~~~                                   | 11/17/08        | 0.015 ± 0.002                    | LT 0.04                                |
| 05/25/08        | ~~~~                             | ~~~~                                   | 11/25/08        | 0.013 ± 0.002                    | LT 0.04                                |
| 06/03/08        | ~~~~                             | ~~~~                                   | 12/01/08        | 0.014 ± 0.002                    | LT 0.04                                |
| 06/08/08        | ~~~~                             | ~~~~                                   | 12/08/08        | 0.015 ± 0.002                    | LT 0.04                                |
| 06/15/08        | ~~~~                             | ~~~~                                   | 12/15/08        | 0.015 ± 0.002                    | LT 0.03                                |
| 06/22/08        | ~~~~                             | ~~~~                                   | 12/22/08        | 0.027 ± 0.002                    | LT 0.04                                |
| 06/28/08        | ~~~~                             | ~~~~                                   | 12/28/08        | 0.021 ± 0.002                    | LT 0.04                                |

LT – Less Than  
 ~~~~ – No Sample  
 * – Based on Sampling Duration

Appendix A

Atmospheric Monitoring
 D. C. Cook
 2008
 Bridgman Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/07/08 | 0.028 ± 0.002 | LT 0.03 | 07/06/08 | 0.013 ± 0.002 | LT 0.03 |
| 01/15/08 | 0.023 ± 0.002 | LT 0.03 | 07/12/08 | 0.015 ± 0.002 | LT 0.05 |
| 01/22/08 | 0.028 ± 0.002 | LT 0.03 | 07/19/08 | 0.020 ± 0.002 | LT 0.04 |
| 01/27/08 | 0.032 ± 0.003 | LT 0.05 | 07/26/08 | 0.021 ± 0.002 | LT 0.04 |
| 02/05/08 | 0.028 ± 0.002 | LT 0.02 | 08/03/08 | 0.017 ± 0.002 | LT 0.03 |
| 02/11/08 | 0.022 ± 0.002 | LT 0.04 | 08/11/08 | 0.014 ± 0.002 | LT 0.03 |
| 02/18/08 | 0.026 ± 0.002 | LT 0.03 | 08/18/08 | 0.023 ± 0.002 | LT 0.03 |
| 02/24/08 | 0.020 ± 0.002 | LT 0.04 | 08/25/08 | 0.021 ± 0.002 | LT 0.04 |
| 03/02/08 | 0.024 ± 0.002 | LT 0.04 | 09/01/08 | 0.027 ± 0.002 | LT 0.03 |
| 03/10/08 | 0.024 ± 0.002 | LT 0.03 | 09/09/08 | 0.019 ± 0.002 | LT 0.03 |
| 03/16/08 | 0.020 ± 0.002 | LT 0.04 | 09/15/08 | 0.012 ± 0.002 | LT 0.04 |
| 03/23/08 | 0.016 ± 0.002 | LT 0.03 | 09/22/08 | 0.024 ± 0.002 | LT 0.03 |
| 04/01/08 | 0.017 ± 0.002 | LT 0.02 | 09/30/08 | 0.039 ± 0.003 | LT 0.03 |
| 04/07/08 | 0.023 ± 0.002 | LT 0.04 | 10/07/08 | 0.030 ± 0.002 | LT 0.03 |
| 04/13/08 | 0.016 ± 0.004* | LT 0.08* | 10/13/08 | 0.021 ± 0.002 | LT 0.04 |
| 04/20/08 | 0.017 ± 0.002 | LT 0.03 | 10/21/08 | 0.015 ± 0.002 | LT 0.03 |
| 04/27/08 | 0.022 ± 0.002 | LT 0.04 | 10/26/08 | 0.017 ± 0.002 | LT 0.04 |
| 05/04/08 | 0.022 ± 0.002 | LT 0.04 | 11/03/08 | 0.023 ± 0.002 | LT 0.03 |
| 05/14/08 | 0.016 ± 0.002 | LT 0.02 | 11/10/08 | 0.023 ± 0.002 | LT 0.03 |
| 05/19/08 | 0.013 ± 0.002 | LT 0.04 | 11/17/08 | 0.019 ± 0.002 | LT 0.04 |
| 05/25/08 | 0.007 ± 0.002 | LT 0.05 | 11/25/08 | 0.016 ± 0.002 | LT 0.04 |
| 06/03/08 | 0.026 ± 0.002 | LT 0.02 | 12/01/08 | 0.020 ± 0.002 | LT 0.04 |
| 06/08/08 | 0.011 ± 0.002 | LT 0.05 | 12/08/08 | 0.017 ± 0.002 | LT 0.03 |
| 06/15/08 | 0.017 ± 0.002 | LT 0.03 | 12/15/08 | 0.025 ± 0.002 | LT 0.03 |
| 06/22/08 | 0.012 ± 0.002 | LT 0.03 | 12/22/08 | 0.027 ± 0.002 | LT 0.04 |
| 06/28/08 | 0.014 ± 0.002 | LT 0.05 | 12/28/08 | 0.023 ± 0.002 | LT 0.04 |

LT – Less Than

* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring
 D. C. Cook
 2008
 Stevensville Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/07/08 | 0.029 ± 0.002 | LT 0.03 | 07/06/08 | 0.017 ± 0.002 | LT 0.03 |
| 01/15/08 | 0.024 ± 0.002 | LT 0.03 | 07/12/08 | 0.018 ± 0.002 | LT 0.05 |
| 01/22/08 | 0.021 ± 0.002 | LT 0.03 | 07/19/08 | 0.025 ± 0.002 | LT 0.04 |
| 01/27/08 | 0.037 ± 0.003 | LT 0.05 | 07/26/08 | 0.023 ± 0.002 | LT 0.04 |
| 02/05/08 | 0.033 ± 0.002 | LT 0.02 | 08/03/08 | 0.021 ± 0.002 | LT 0.03 |
| 02/11/08 | 0.023 ± 0.002 | LT 0.04 | 08/11/08 | 0.015 ± 0.002 | LT 0.03 |
| 02/18/08 | 0.029 ± 0.002 | LT 0.03 | 08/18/08 | 0.026 ± 0.002 | LT 0.03 |
| 02/24/08 | 0.026 ± 0.002 | LT 0.04 | 08/25/08 | 0.023 ± 0.002 | LT 0.04 |
| 03/02/08 | 0.022 ± 0.002 | LT 0.04 | 09/01/08 | 0.035 ± 0.003 | LT 0.03 |
| 03/10/08 | 0.027 ± 0.002 | LT 0.03 | 09/09/08 | 0.022 ± 0.002 | LT 0.03 |
| 03/16/08 | 0.023 ± 0.002 | LT 0.04 | 09/15/08 | 0.013 ± 0.002 | LT 0.04 |
| 03/23/08 | 0.018 ± 0.002 | LT 0.03 | 09/22/08 | 0.026 ± 0.003 | LT 0.03 |
| 04/01/08 | 0.016 ± 0.002 | LT 0.02 | 09/30/08 | 0.038 ± 0.003 | LT 0.03 |
| 04/07/08 | 0.028 ± 0.002 | LT 0.04 | 10/07/08 | 0.031 ± 0.002 | LT 0.03 |
| 04/13/08 | 0.010 ± 0.002 | LT 0.04 | 10/13/08 | 0.028 ± 0.003 | LT 0.04 |
| 04/20/08 | 0.019 ± 0.002 | LT 0.03 | 10/21/08 | 0.018 ± 0.002 | LT 0.03 |
| 04/27/08 | 0.022 ± 0.002 | LT 0.04 | 10/26/08 | 0.022 ± 0.003 | LT 0.04 |
| 05/04/08 | 0.023 ± 0.002 | LT 0.04 | 11/03/08 | 0.031 ± 0.002 | LT 0.03 |
| 05/14/08 | 0.020 ± 0.002 | LT 0.02 | 11/10/08 | 0.028 ± 0.002 | LT 0.03 |
| 05/19/08 | 0.014 ± 0.002 | LT 0.04 | 11/17/08 | 0.026 ± 0.002 | LT 0.04 |
| 05/25/08 | 0.009 ± 0.002 | LT 0.05 | 11/25/08 | 0.019 ± 0.002 | LT 0.04 |
| 06/03/08 | 0.029 ± 0.002 | LT 0.02 | 12/01/08 | 0.025 ± 0.003 | LT 0.04 |
| 06/08/08 | 0.014 ± 0.002 | LT 0.05 | 12/08/08 | 0.023 ± 0.002 | LT 0.03 |
| 06/15/08 | 0.016 ± 0.002 | LT 0.03 | 12/15/08 | 0.027 ± 0.002 | LT 0.03 |
| 06/22/08 | 0.016 ± 0.002 | LT 0.03 | 12/22/08 | 0.032 ± 0.003 | LT 0.04 |
| 06/28/08 | 0.016 ± 0.002 | LT 0.05 | 12/28/08 | 0.037 ± 0.003 | LT 0.04 |

LT – Less Than

Appendix A

Atmospheric Monitoring
 D. C. Cook
 2008
 Livingston Road Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/07/08 | 0.026 ± 0.002 | LT 0.03 | 07/06/08 | 0.010 ± 0.002 | LT 0.03 |
| 01/15/08 | 0.021 ± 0.002 | LT 0.03 | 07/12/08 | ~~~~~ | ~~~~~ |
| 01/22/08 | 0.028 ± 0.002 | LT 0.03 | 07/19/08 | ~~~~~ | ~~~~~ |
| 01/27/08 | 0.032 ± 0.003 | LT 0.05 | 07/26/08 | ~~~~~ | ~~~~~ |
| 02/05/08 | 0.027 ± 0.002 | LT 0.02 | 08/03/08 | ~~~~~ | ~~~~~ |
| 02/11/08 | 0.020 ± 0.002 | LT 0.04 | 08/11/08 | ~~~~~ | ~~~~~ |
| 02/18/08 | 0.027 ± 0.002 | LT 0.03 | 08/18/08 | ~~~~~ | ~~~~~ |
| 02/24/08 | 0.021 ± 0.002 | LT 0.04 | 08/25/08 | ~~~~~ | ~~~~~ |
| 03/02/08 | 0.020 ± 0.002 | LT 0.04 | 09/01/08 | ~~~~~ | ~~~~~ |
| 03/10/08 | 0.024 ± 0.002 | LT 0.03 | 09/09/08 | ~~~~~ | ~~~~~ |
| 03/16/08 | 0.019 ± 0.002 | LT 0.04 | 09/15/08 | ~~~~~ | ~~~~~ |
| 03/23/08 | 0.014 ± 0.002 | LT 0.03 | 09/22/08 | ~~~~~ | ~~~~~ |
| 04/01/08 | 0.015 ± 0.002 | LT 0.02 | 09/30/08 | ~~~~~ | ~~~~~ |
| 04/07/08 | 0.022 ± 0.002 | LT 0.04 | 10/07/08 | 0.018 ± 0.002 | LT 0.03 |
| 04/13/08 | 0.006 ± 0.002 | LT 0.04 | 10/13/08 | 0.025 ± 0.003 | LT 0.04 |
| 04/20/08 | 0.017 ± 0.002 | LT 0.03 | 10/21/08 | 0.014 ± 0.002 | LT 0.03 |
| 04/27/08 | 0.019 ± 0.002 | LT 0.04 | 10/26/08 | 0.018 ± 0.002 | LT 0.04 |
| 05/04/08 | 0.020 ± 0.002 | LT 0.04 | 11/03/08 | 0.023 ± 0.002 | LT 0.03 |
| 05/14/08 | 0.014 ± 0.002 | LT 0.02 | 11/10/08 | 0.019 ± 0.002 | LT 0.03 |
| 05/19/08 | 0.024 ± 0.003 | LT 0.04 | 11/17/08 | 0.017 ± 0.002 | LT 0.04 |
| 05/25/08 | 0.006 ± 0.002 | LT 0.05 | 11/25/08 | 0.014 ± 0.002 | LT 0.04 |
| 06/03/08 | 0.024 ± 0.002 | LT 0.02 | 12/01/08 | 0.018 ± 0.002 | LT 0.04 |
| 06/08/08 | 0.011 ± 0.002 | LT 0.05 | 12/08/08 | 0.015 ± 0.002 | LT 0.03 |
| 06/15/08 | 0.013 ± 0.002 | LT 0.03 | 12/15/08 | 0.018 ± 0.002 | LT 0.03 |
| 06/22/08 | 0.011 ± 0.002 | LT 0.03 | 12/22/08 | 0.023 ± 0.002 | LT 0.04 |
| 06/28/08 | 0.012 ± 0.002 | LT 0.04 | 12/28/08 | 0.023 ± 0.002 | LT 0.04 |

LT – Less Than
 ~~~~ – No Sample



Appendix A

Atmospheric Monitoring  
 D. C. Cook  
 2008  
 Peddy Farm Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/07/08        | 0.027 ± 0.002                    | LT 0.03                                | 07/06/08        | 0.012 ± 0.002                    | LT 0.03                                |
| 01/15/08        | 0.018 ± 0.002                    | LT 0.03                                | 07/12/08        | 0.013 ± 0.002                    | LT 0.05                                |
| 01/22/08        | 0.024 ± 0.002                    | LT 0.03                                | 07/19/08        | 0.018 ± 0.002                    | LT 0.04                                |
| 01/27/08        | 0.033 ± 0.003                    | LT 0.05                                | 07/26/08        | 0.016 ± 0.002                    | LT 0.04                                |
| 02/05/08        | 0.027 ± 0.002                    | LT 0.02                                | 08/03/08        | 0.017 ± 0.002                    | LT 0.03                                |
| 02/11/08        | 0.021 ± 0.002                    | LT 0.04                                | 08/11/08        | 0.012 ± 0.002                    | LT 0.03                                |
| 02/18/08        | 0.024 ± 0.002                    | LT 0.03                                | 08/18/08        | 0.020 ± 0.002                    | LT 0.03                                |
| 02/24/08        | 0.020 ± 0.002                    | LT 0.04                                | 08/25/08        | 0.018 ± 0.002                    | LT 0.04                                |
| 03/02/08        | 0.020 ± 0.002                    | LT 0.04                                | 09/01/08        | 0.031 ± 0.002                    | LT 0.03                                |
| 03/10/08        | 0.022 ± 0.002                    | LT 0.03                                | 09/09/08        | 0.019 ± 0.002                    | LT 0.03                                |
| 03/16/08        | 0.019 ± 0.002                    | LT 0.04                                | 09/15/08        | 0.011 ± 0.002                    | LT 0.04                                |
| 03/23/08        | 0.013 ± 0.002                    | LT 0.03                                | 09/22/08        | 0.022 ± 0.002                    | LT 0.03                                |
| 04/01/08        | 0.014 ± 0.002                    | LT 0.02                                | 09/30/08        | 0.033 ± 0.002                    | LT 0.03                                |
| 04/07/08        | 0.019 ± 0.002                    | LT 0.04                                | 10/07/08        | 0.003 ± 0.002*                   | LT 0.06*                               |
| 04/13/08        | 0.007 ± 0.002                    | LT 0.04                                | 10/13/08        | ~~~~                             | ~~~~                                   |
| 04/20/08        | 0.016 ± 0.002                    | LT 0.03                                | 10/21/08        | ~~~~                             | ~~~~                                   |
| 04/27/08        | 0.019 ± 0.002                    | LT 0.04                                | 10/26/08        | 0.015 ± 0.002                    | LT 0.04                                |
| 05/04/08        | 0.020 ± 0.002                    | LT 0.04                                | 11/03/08        | 0.018 ± 0.002                    | LT 0.03                                |
| 05/14/08        | 0.014 ± 0.002                    | LT 0.02                                | 11/10/08        | 0.019 ± 0.002                    | LT 0.03                                |
| 05/19/08        | 0.011 ± 0.002                    | LT 0.04                                | 11/17/08        | 0.015 ± 0.002                    | LT 0.04                                |
| 05/25/08        | 0.006 ± 0.002                    | LT 0.05                                | 11/25/08        | 0.015 ± 0.002                    | LT 0.04                                |
| 06/03/08        | 0.026 ± 0.002                    | LT 0.02                                | 12/01/08        | 0.014 ± 0.002                    | LT 0.04                                |
| 06/08/08        | 0.011 ± 0.002                    | LT 0.05                                | 12/08/08        | 0.015 ± 0.002                    | LT 0.03                                |
| 06/15/08        | 0.013 ± 0.002                    | LT 0.03                                | 12/15/08        | 0.019 ± 0.002                    | LT 0.03                                |
| 06/22/08        | 0.012 ± 0.002                    | LT 0.03                                | 12/22/08        | 0.022 ± 0.002                    | LT 0.04                                |
| 06/28/08        | 0.013 ± 0.002                    | LT 0.05                                | 12/28/08        | 0.021 ± 0.002                    | LT 0.04                                |

LT – Less Than  
 ~~~~ – No Sample  
 * – Based on Sampling Duration

Appendix A

Atmospheric Monitoring
Fermi 2
2008
Reactor Site Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/03/08 | 0.026 ± 0.002 | LT 0.05 | 07/02/08 | 0.012 ± 0.002 | LT 0.05 |
| 01/10/08 | 0.020 ± 0.002 | LT 0.04 | 07/10/08 | 0.011 ± 0.002 | LT 0.04 |
| 01/17/08 | 0.023 ± 0.002 | LT 0.05 | 07/17/08 | 0.017 ± 0.002 | LT 0.04 |
| 01/24/08 | 0.027 ± 0.002 | LT 0.04 | 07/26/08 | 0.021 ± 0.002 | LT 0.03 |
| 01/31/08 | 0.035 ± 0.002 | LT 0.04 | 07/31/08 | 0.019 ± 0.003 | LT 0.05 |
| 02/07/08 | 0.018 ± 0.002 | LT 0.04 | 08/07/08 | 0.016 ± 0.002 | LT 0.04 |
| 02/14/08 | 0.026 ± 0.002 | LT 0.04 | 08/14/08 | 0.011 ± 0.002 | LT 0.04 |
| 02/21/08 | 0.025 ± 0.002 | LT 0.04 | 08/21/08 | 0.019 ± 0.002 | LT 0.04 |
| 02/28/08 | 0.018 ± 0.002 | LT 0.04 | 08/28/08 | 0.022 ± 0.002 | LT 0.04 |
| 03/06/08 | 0.024 ± 0.002 | LT 0.04 | 09/04/08 | 0.028 ± 0.002 | LT 0.04 |
| 03/13/08 | 0.024 ± 0.002 | LT 0.04 | 09/11/08 | 0.018 ± 0.002 | LT 0.04 |
| 03/20/08 | 0.011 ± 0.002 | LT 0.04 | 09/18/08 | 0.014 ± 0.002 | LT 0.04 |
| 03/29/08 | 0.016 ± 0.002 | LT 0.03 | 09/25/08 | 0.021 ± 0.002 | LT 0.04 |
| 04/03/08 | 0.017 ± 0.003 | LT 0.06 | 10/02/08 | 0.018 ± 0.002 | LT 0.04 |
| 04/10/08 | 0.015 ± 0.002 | LT 0.04 | 10/09/08 | 0.014 ± 0.002 | LT 0.04 |
| 04/17/08 | 0.012 ± 0.002 | LT 0.04 | 10/16/08 | 0.023 ± 0.002 | LT 0.04 |
| 04/24/08 | 0.019 ± 0.002 | LT 0.04 | 10/23/08 | 0.014 ± 0.002 | LT 0.04 |
| 05/01/08 | 0.018 ± 0.002 | LT 0.04 | 10/30/08 | 0.014 ± 0.002 | LT 0.05 |
| 05/08/08 | 0.019 ± 0.002 | LT 0.04 | 11/06/08 | 0.040 ± 0.003 | LT 0.04 |
| 05/15/08 | 0.010 ± 0.002 | LT 0.04 | 11/13/08 | 0.023 ± 0.002 | LT 0.04 |
| 05/22/08 | 0.009 ± 0.002 | LT 0.04 | 11/20/08 | 0.016 ± 0.002 | LT 0.07 |
| 05/29/08 | 0.009 ± 0.002 | LT 0.04 | 11/27/08 | 0.023 ± 0.002 | LT 0.05 |
| 06/05/08 | 0.014 ± 0.002 | LT 0.04 | 12/04/08 | 0.020 ± 0.002 | LT 0.04 |
| 06/12/08 | 0.011 ± 0.002 | LT 0.04 | 12/11/08 | 0.021 ± 0.002 | LT 0.04 |
| 06/18/08 | 0.012 ± 0.002 | LT 0.05 | 12/18/08 | 0.028 ± 0.002 | LT 0.05 |
| 06/26/08 | 0.013 ± 0.002 | LT 0.04 | 12/24/08 | 0.028 ± 0.002 | LT 0.09 |

LT – Less Than

Appendix A

Atmospheric Monitoring
 Fermi 2
 2008
 Pointe Aux Peaux Road Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/03/08 | 0.028 ± 0.002 | LT 0.05 | 07/02/08 | 0.015 ± 0.002 | LT 0.05 |
| 01/10/08 | 0.017 ± 0.002 | LT 0.04 | 07/10/08 | 0.012 ± 0.002 | LT 0.04 |
| 01/17/08 | 0.027 ± 0.002 | LT 0.05 | 07/17/08 | 0.019 ± 0.002 | LT 0.04 |
| 01/24/08 | 0.029 ± 0.002 | LT 0.04 | 07/26/08 | 0.022 ± 0.002 | LT 0.03 |
| 01/31/08 | 0.033 ± 0.002 | LT 0.04 | 07/31/08 | 0.024 ± 0.003 | LT 0.05 |
| 02/07/08 | 0.018 ± 0.002 | LT 0.04 | 08/07/08 | 0.018 ± 0.002 | LT 0.04 |
| 02/14/08 | 0.032 ± 0.002 | LT 0.04 | 08/14/08 | 0.012 ± 0.002 | LT 0.04 |
| 02/21/08 | 0.021 ± 0.002 | LT 0.04 | 08/21/08 | 0.018 ± 0.002 | LT 0.04 |
| 02/28/08 | 0.018 ± 0.002 | LT 0.04 | 08/28/08 | 0.020 ± 0.002 | LT 0.04 |
| 03/06/08 | 0.022 ± 0.002 | LT 0.04 | 09/04/08 | 0.025 ± 0.002 | LT 0.04 |
| 03/13/08 | 0.021 ± 0.002 | LT 0.04 | 09/11/08 | 0.018 ± 0.002 | LT 0.04 |
| 03/20/08 | 0.015 ± 0.002 | LT 0.04 | 09/18/08 | 0.014 ± 0.002 | LT 0.04 |
| 03/29/08 | 0.016 ± 0.002 | LT 0.03 | 09/25/08 | 0.025 ± 0.002 | LT 0.04 |
| 04/03/08 | 0.016 ± 0.002 | LT 0.06 | 10/02/08 | 0.020 ± 0.002 | LT 0.04 |
| 04/10/08 | 0.016 ± 0.002 | LT 0.04 | 10/09/08 | 0.016 ± 0.002 | LT 0.04 |
| 04/17/08 | 0.012 ± 0.002 | LT 0.04 | 10/16/08 | 0.025 ± 0.002 | LT 0.04 |
| 04/24/08 | 0.021 ± 0.002 | LT 0.04 | 10/23/08 | 0.016 ± 0.002 | LT 0.04 |
| 05/01/08 | 0.021 ± 0.002 | LT 0.04 | 10/30/08 | 0.015 ± 0.002 | LT 0.05 |
| 05/08/08 | 0.018 ± 0.002 | LT 0.04 | 11/06/08 | 0.044 ± 0.003 | LT 0.04 |
| 05/15/08 | 0.010 ± 0.002 | LT 0.04 | 11/13/08 | 0.023 ± 0.002 | LT 0.04 |
| 05/22/08 | 0.010 ± 0.002 | LT 0.04 | 11/20/08 | 0.015 ± 0.002 | LT 0.07 |
| 05/29/08 | 0.007 ± 0.002 | LT 0.04 | 11/27/08 | 0.020 ± 0.002 | LT 0.05 |
| 06/05/08 | 0.014 ± 0.002 | LT 0.04 | 12/04/08 | 0.018 ± 0.002 | LT 0.04 |
| 06/12/08 | 0.012 ± 0.002 | LT 0.04 | 12/11/08 | 0.021 ± 0.002 | LT 0.04 |
| 06/18/08 | 0.014 ± 0.002 | LT 0.05 | 12/18/08 | 0.028 ± 0.002 | LT 0.05 |
| 06/26/08 | 0.015 ± 0.002 | LT 0.04 | 12/24/08 | 0.031 ± 0.002 | LT 0.09 |

LT – Less Than

Appendix A

Atmospheric Monitoring
Fermi 2
2008
Nadeau Road Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/03/08 | 0.027 ± 0.004* | LT 0.09* | 07/02/08 | 0.017 ± 0.002 | LT 0.05 |
| 01/10/08 | 0.023 ± 0.002 | LT 0.04 | 07/10/08 | 0.015 ± 0.002 | LT 0.04 |
| 01/17/08 | 0.027 ± 0.002 | LT 0.05 | 07/17/08 | 0.021 ± 0.002 | LT 0.04 |
| 01/24/08 | 0.024 ± 0.002 | LT 0.04 | 07/26/08 | 0.026 ± 0.002 | LT 0.03 |
| 01/31/08 | 0.035 ± 0.002 | LT 0.04 | 07/31/08 | 0.024 ± 0.003 | LT 0.05 |
| 02/07/08 | 0.021 ± 0.002 | LT 0.04 | 08/07/08 | 0.021 ± 0.002 | LT 0.04 |
| 02/14/08 | 0.032 ± 0.002 | LT 0.04 | 08/14/08 | 0.013 ± 0.002 | LT 0.04 |
| 02/21/08 | 0.027 ± 0.002 | LT 0.04 | 08/21/08 | 0.022 ± 0.002 | LT 0.04 |
| 02/28/08 | 0.014 ± 0.002 | LT 0.04 | 08/28/08 | 0.025 ± 0.002 | LT 0.04 |
| 03/06/08 | 0.025 ± 0.002 | LT 0.04 | 09/04/08 | 0.033 ± 0.002 | LT 0.04 |
| 03/13/08 | 0.026 ± 0.002 | LT 0.04 | 09/11/08 | 0.016 ± 0.002 | LT 0.04 |
| 03/20/08 | 0.015 ± 0.002 | LT 0.04 | 09/18/08 | 0.012 ± 0.002 | LT 0.04 |
| 03/29/08 | 0.018 ± 0.002 | LT 0.03 | 09/25/08 | 0.009 ± 0.002* | LT 0.04 |
| 04/03/08 | 0.020 ± 0.003 | LT 0.06 | 10/02/08 | 0.008 ± 0.002* | LT 0.04 |
| 04/10/08 | 0.030 ± 0.004* | LT 0.08* | 10/09/08 | 0.017 ± 0.002 | LT 0.04 |
| 04/17/08 | 0.014 ± 0.003* | LT 0.09* | 10/16/08 | 0.018 ± 0.002 | LT 0.04 |
| 04/24/08 | 0.022 ± 0.002 | LT 0.04 | 10/23/08 | 0.017 ± 0.002* | LT 0.04 |
| 05/01/08 | 0.025 ± 0.002 | LT 0.04 | 10/30/08 | 0.014 ± 0.002 | LT 0.05 |
| 05/08/08 | 0.022 ± 0.002 | LT 0.04 | 11/06/08 | 0.035 ± 0.003 | LT 0.04 |
| 05/15/08 | 0.010 ± 0.002 | LT 0.04 | 11/13/08 | 0.023 ± 0.002 | LT 0.08 |
| 05/22/08 | 0.012 ± 0.002 | LT 0.04 | 11/20/08 | 0.016 ± 0.002 | LT 0.07 |
| 05/29/08 | 0.002 ± 0.001 | LT 0.04 | 11/27/08 | 0.017 ± 0.002 | LT 0.05 |
| 06/05/08 | 0.017 ± 0.002 | LT 0.04 | 12/04/08 | 0.014 ± 0.002 | LT 0.04 |
| 06/12/08 | 0.014 ± 0.002 | LT 0.04 | 12/11/08 | 0.018 ± 0.002 | LT 0.04 |
| 06/18/08 | 0.013 ± 0.002 | LT 0.05 | 12/18/08 | 0.021 ± 0.002 | LT 0.05 |
| 06/26/08 | 0.016 ± 0.002 | LT 0.04 | 12/24/08 | 0.028 ± 0.002 | LT 0.09 |

LT – Less Than

* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring
Fermi 2
2008
Dixie Highway Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/03/08 | 0.028 ± 0.002 | LT 0.05 | 07/02/08 | 0.015 ± 0.002 | LT 0.05 |
| 01/10/08 | 0.018 ± 0.002 | LT 0.04 | 07/10/08 | 0.014 ± 0.002 | LT 0.04 |
| 01/17/08 | 0.026 ± 0.002 | LT 0.05 | 07/17/08 | 0.018 ± 0.002 | LT 0.04 |
| 01/24/08 | 0.027 ± 0.002 | LT 0.04 | 07/26/08 | 0.027 ± 0.002 | LT 0.03 |
| 01/31/08 | 0.031 ± 0.002 | LT 0.04 | 07/31/08 | 0.024 ± 0.003 | LT 0.05 |
| 02/07/08 | 0.020 ± 0.002 | LT 0.04 | 08/07/08 | 0.020 ± 0.002 | LT 0.04 |
| 02/14/08 | 0.033 ± 0.002 | LT 0.04 | 08/14/08 | 0.014 ± 0.002 | LT 0.04 |
| 02/21/08 | 0.022 ± 0.002 | LT 0.04 | 08/21/08 | 0.020 ± 0.002 | LT 0.04 |
| 02/28/08 | 0.019 ± 0.002 | LT 0.04 | 08/28/08 | 0.024 ± 0.002 | LT 0.04 |
| 03/06/08 | 0.025 ± 0.002 | LT 0.04 | 09/04/08 | 0.031 ± 0.002 | LT 0.04 |
| 03/13/08 | 0.022 ± 0.002 | LT 0.04 | 09/11/08 | 0.020 ± 0.002 | LT 0.04 |
| 03/20/08 | 0.013 ± 0.002 | LT 0.04 | 09/18/08 | 0.014 ± 0.002 | LT 0.04 |
| 03/29/08 | 0.017 ± 0.002 | LT 0.03 | 09/25/08 | 0.025 ± 0.002 | LT 0.04 |
| 04/03/08 | 0.018 ± 0.003 | LT 0.06 | 10/02/08 | 0.019 ± 0.002 | LT 0.04 |
| 04/10/08 | 0.016 ± 0.002 | LT 0.04 | 10/09/08 | 0.016 ± 0.002 | LT 0.04 |
| 04/17/08 | 0.011 ± 0.002 | LT 0.04 | 10/16/08 | 0.025 ± 0.002 | LT 0.04 |
| 04/24/08 | 0.022 ± 0.002 | LT 0.04 | 10/23/08 | 0.016 ± 0.002 | LT 0.04 |
| 05/01/08 | 0.020 ± 0.002 | LT 0.04 | 10/30/08 | 0.013 ± 0.002 | LT 0.05 |
| 05/08/08 | 0.020 ± 0.002 | LT 0.04 | 11/06/08 | 0.047 ± 0.003 | LT 0.04 |
| 05/15/08 | 0.010 ± 0.002 | LT 0.04 | 11/13/08 | 0.023 ± 0.002 | LT 0.04 |
| 05/22/08 | 0.010 ± 0.002 | LT 0.04 | 11/20/08 | 0.015 ± 0.002 | LT 0.07 |
| 05/29/08 | 0.009 ± 0.002 | LT 0.04 | 11/27/08 | 0.019 ± 0.002 | LT 0.05 |
| 06/05/08 | 0.014 ± 0.002 | LT 0.04 | 12/04/08 | 0.019 ± 0.002 | LT 0.04 |
| 06/12/08 | 0.013 ± 0.002 | LT 0.04 | 12/11/08 | 0.022 ± 0.002 | LT 0.04 |
| 06/18/08 | 0.014 ± 0.002 | LT 0.05 | 12/18/08 | 0.029 ± 0.002 | LT 0.05 |
| 06/26/08 | 0.014 ± 0.002 | LT 0.04 | 12/24/08 | 0.034 ± 0.002 | LT 0.09 |

LT – Less Than

Appendix A

Atmospheric Monitoring
 Fermi 2
 2008
 Fix Farm Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/03/08 | 0.027 ± 0.002 | LT 0.05 | 07/02/08 | 0.013 ± 0.002 | LT 0.05 |
| 01/10/08 | 0.020 ± 0.002 | LT 0.04 | 07/10/08 | 0.011 ± 0.002 | LT 0.04 |
| 01/17/08 | 0.023 ± 0.002 | LT 0.05 | 07/17/08 | 0.017 ± 0.002 | LT 0.04 |
| 01/24/08 | 0.025 ± 0.002 | LT 0.04 | 07/26/08 | 0.021 ± 0.002 | LT 0.03 |
| 01/31/08 | 0.030 ± 0.002 | LT 0.04 | 07/31/08 | 0.018 ± 0.003 | LT 0.05 |
| 02/07/08 | 0.016 ± 0.002 | LT 0.04 | 08/07/08 | 0.016 ± 0.002 | LT 0.04 |
| 02/14/08 | 0.028 ± 0.002 | LT 0.04 | 08/14/08 | 0.019 ± 0.002 | LT 0.04 |
| 02/21/08 | 0.025 ± 0.002 | LT 0.04 | 08/21/08 | 0.017 ± 0.002 | LT 0.04 |
| 02/28/08 | 0.015 ± 0.002 | LT 0.04 | 08/28/08 | 0.019 ± 0.002 | LT 0.04 |
| 03/06/08 | 0.021 ± 0.002 | LT 0.04 | 09/04/08 | 0.025 ± 0.002 | LT 0.04 |
| 03/13/08 | 0.020 ± 0.002 | LT 0.04 | 09/11/08 | 0.016 ± 0.002 | LT 0.04 |
| 03/20/08 | 0.012 ± 0.002 | LT 0.04 | 09/18/08 | 0.011 ± 0.002 | LT 0.04 |
| 03/29/08 | 0.013 ± 0.002 | LT 0.03 | 09/25/08 | 0.022 ± 0.002 | LT 0.04 |
| 04/03/08 | 0.014 ± 0.002 | LT 0.06 | 10/02/08 | 0.015 ± 0.002 | LT 0.04 |
| 04/10/08 | 0.017 ± 0.002 | LT 0.04 | 10/09/08 | 0.012 ± 0.002 | LT 0.04 |
| 04/17/08 | 0.011 ± 0.002 | LT 0.04 | 10/16/08 | 0.021 ± 0.002 | LT 0.04 |
| 04/24/08 | 0.020 ± 0.002 | LT 0.04 | 10/23/08 | 0.013 ± 0.002 | LT 0.04 |
| 05/01/08 | 0.019 ± 0.002 | LT 0.04 | 10/30/08 | 0.012 ± 0.002 | LT 0.05 |
| 05/08/08 | 0.019 ± 0.002 | LT 0.04 | 11/06/08 | 0.038 ± 0.003 | LT 0.04 |
| 05/15/08 | 0.009 ± 0.002 | LT 0.04 | 11/13/08 | 0.019 ± 0.002 | LT 0.04 |
| 05/22/08 | 0.009 ± 0.002 | LT 0.04 | 11/20/08 | 0.012 ± 0.002 | LT 0.07 |
| 05/29/08 | 0.007 ± 0.002 | LT 0.04 | 11/27/08 | 0.018 ± 0.002 | LT 0.05 |
| 06/05/08 | 0.015 ± 0.002 | LT 0.04 | 12/04/08 | 0.031 ± 0.004* | LT 0.08* |
| 06/12/08 | 0.011 ± 0.002 | LT 0.04 | 12/11/08 | 0.011 ± 0.009* | LT 0.32* |
| 06/18/08 | 0.013 ± 0.002 | LT 0.05 | 12/18/08 | 0.027 ± 0.002 | LT 0.05 |
| 06/26/08 | 0.012 ± 0.002 | LT 0.04 | 12/24/08 | 0.029 ± 0.002 | LT 0.09 |

LT – Less Than

* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring 2008 Lansing Background Reference Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/02/08 | 0.025 ± 0.003 | LT 0.03 | 06/30/07 | 0.017 ± 0.003 | LT 0.04 |
| 01/07/08 | 0.025 ± 0.003 | LT 0.04 | 07/07/08 | 0.019 ± 0.003 | LT 0.04 |
| 01/14/08 | 0.020 ± 0.002 | LT 0.03 | 07/14/08 | 0.019 ± 0.003 | LT 0.03 |
| 01/22/08 | 0.025 ± 0.002 | LT 0.03 | 07/21/08 | 0.027 ± 0.003 | LT 0.04 |
| 01/28/08 | 0.036 ± 0.003 | LT 0.04 | 07/28/08 | 0.025 ± 0.003 | LT 0.03 |
| 02/04/08 | 0.024 ± 0.003 | LT 0.03 | 08/04/08 | 0.028 ± 0.003 | LT 0.04 |
| 02/11/08 | 0.025 ± 0.003 | LT 0.03 | 08/11/08 | 0.019 ± 0.003 | LT 0.03 |
| 02/19/08 | 0.026 ± 0.002 | LT 0.03 | 08/18/08 | 0.015 ± 0.004 | LT 0.07 |
| 02/25/08 | 0.016 ± 0.002 | LT 0.04 | 08/25/08 | 0.018 ± 0.002 | LT 0.03 |
| 03/03/08 | 0.024 ± 0.003 | LT 0.03 | 09/02/08 | 0.023 ± 0.002 | LT 0.02 |
| 03/10/08 | 0.023 ± 0.003 | LT 0.03 | 09/08/08 | 0.018 ± 0.002 | LT 0.03 |
| 03/17/08 | 0.019 ± 0.002 | LT 0.03 | 09/15/08 | 0.012 ± 0.002 | LT 0.02 |
| 03/24/08 | 0.015 ± 0.002 | LT 0.03 | 09/22/08 | 0.017 ± 0.002 | LT 0.03 |
| 03/31/08 | 0.016 ± 0.002 | LT 0.03 | 09/29/08 | 0.031 ± 0.003 | LT 0.03 |
| 04/07/08 | LT 0.001* | LT 0.03 | 10/06/08 | 0.014 ± 0.002 | LT 0.03 |
| 04/14/08 | 0.011 ± 0.002 | LT 0.03 | 10/13/08 | 0.022 ± 0.002 | LT 0.03 |
| 04/21/08 | 0.024 ± 0.003 | LT 0.03 | 10/20/08 | 0.016 ± 0.002 | LT 0.03 |
| 04/28/08 | 0.024 ± 0.003 | LT 0.03 | 10/27/08 | 0.015 ± 0.002 | LT 0.02 |
| 05/05/08 | 0.025 ± 0.003 | LT 0.03 | 11/03/08 | 0.021 ± 0.002 | LT 0.03 |
| 05/12/08 | 0.019 ± 0.003 | LT 0.03 | 11/10/08 | 0.028 ± 0.002 | LT 0.02 |
| 05/19/08 | 0.010 ± 0.002 | LT 0.03 | 11/17/08 | 0.016 ± 0.002 | LT 0.03 |
| 05/27/08 | 0.011 ± 0.002 | LT 0.03 | 11/24/08 | 0.013 ± 0.002 | LT 0.03 |
| 06/02/08 | 0.021 ± 0.003 | LT 0.04 | 12/01/08 | 0.019 ± 0.002 | LT 0.03 |
| 06/09/08 | 0.016 ± 0.002 | LT 0.4 | 12/08/08 | 0.013 ± 0.002 | LT 0.03 |
| 06/16/08 | 0.020 ± 0.003 | LT 0.04 | 12/15/08 | 0.022 ± 0.002 | LT 0.02 |
| 06/23/08 | 0.018 ± 0.003 | LT 0.04 | 12/22/08 | 0.025 ± 0.002 | LT 0.03 |

LT – Less Than

* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring
Palisades
2009
Reactor Site Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 01/05/09 | 0.026 ± 0.002 | LT 0.03 |
| 01/12/09 | 0.024 ± 0.002 | LT 0.03 |
| 01/19/09 | 0.018 ± 0.002 | LT 0.03 |
| 01/26/09 | 0.026 ± 0.002 | LT 0.03 |
| 02/02/09 | 0.022 ± 0.002 | LT 0.03 |
| 02/09/09 | 0.021 ± 0.002 | LT 0.03 |
| 02/16/09 | 0.017 ± 0.002 | LT 0.03 |
| 02/23/09 | 0.017 ± 0.002 | LT 0.03 |
| 03/02/09 | 0.018 ± 0.002 | LT 0.03 |
| 03/09/09 | 0.019 ± 0.002 | LT 0.03 |
| 03/16/09 | ~~~~ | LT 0.03 |
| 03/24/09 | 0.023 ± 0.002 | LT 0.03 |
| 03/30/09 | 0.011 ± 0.002 | LT 0.04 |
| 04/06/09 | 0.016 ± 0.002 | LT 0.03 |
| 04/13/09 | 0.021 ± 0.002 | LT 0.03 |
| 04/20/09 | 0.020 ± 0.002 | LT 0.03 |
| 04/27/09 | 0.016 ± 0.002 | LT 0.03 |
| 05/04/09 | 0.014 ± 0.002 | LT 0.03 |
| 05/11/09 | 0.014 ± 0.002 | LT 0.04 |
| 05/19/09 | 0.015 ± 0.002 | LT 0.03 |
| 05/26/09 | 0.020 ± 0.002 | LT 0.03 |
| 06/01/09 | 0.010 ± 0.002 | LT 0.04 |
| 06/08/09 | ~~~~ | ~~~~ |
| 06/15/09 | 0.007 ± 0.002 | LT 0.02 |
| 06/22/09 | 0.015 ± 0.002 | LT 0.03 |
| 06/29/09 | 0.024 ± 0.002 | LT 0.03 |

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 07/06/09 | 0.010 ± 0.002 | LT 0.03 |
| 07/14/09 | ~~~~ | ~~~~ |
| 07/20/09 | 0.013 ± 0.001* | LT 0.02* |
| 07/27/09 | 0.018 ± 0.002 | LT 0.03 |
| 08/03/09 | 0.017 ± 0.002 | LT 0.03 |
| 08/10/09 | 0.025 ± 0.002 | LT 0.03 |
| 08/17/09 | 0.022 ± 0.002 | LT 0.03 |
| 08/24/09 | 0.011 ± 0.002 | LT 0.03 |
| 08/31/09 | ~~~~ | ~~~~ |
| 09/08/09 | 0.026 ± 0.002 | LT 0.01 |
| 09/14/09 | 0.037 ± 0.003 | LT 0.04 |
| 09/21/09 | 0.023 ± 0.002 | LT 0.03 |
| 09/28/09 | 0.018 ± 0.002 | LT 0.03 |
| 10/04/09 | 0.011 ± 0.002 | LT 0.04 |
| 10/13/09 | 0.012 ± 0.002 | LT 0.02 |
| 10/19/09 | 0.014 ± 0.002 | LT 0.03 |
| 10/26/09 | 0.018 ± 0.002 | LT 0.03 |
| 11/02/09 | 0.019 ± 0.002 | LT 0.03 |
| 11/08/09 | 0.021 ± 0.003 | LT 0.04 |
| 11/16/09 | 0.018 ± 0.002 | LT 0.03 |
| 11/23/09 | 0.021 ± 0.002 | LT 0.03 |
| 11/30/09 | 0.020 ± 0.002 | LT 0.03 |
| 12/07/09 | 0.019 ± 0.002 | LT 0.03 |
| 12/14/09 | 0.022 ± 0.002 | LT 0.03 |
| 12/21/09 | 0.024 ± 0.002 | LT 0.03 |
| 12/28/09 | 0.025 ± 0.002 | LT 0.05 |

LT – Less Than
 ~~~~ – No Sample  
 \* – Based on Sampling Duration



Appendix A

Atmospheric Monitoring  
Palisades  
2009  
Covert Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/05/09        | 0.015 ± 0.001                    | LT 0.01                                | 07/06/09        | 0.009 ± 0.002                    | LT 0.03                                |
| 01/12/09        | 0.016 ± 0.002                    | LT 0.03                                | 07/14/09        | 0.016 ± 0.002                    | LT 0.02                                |
| 01/19/09        | 0.017 ± 0.002                    | LT 0.03                                | 07/20/09        | 0.022 ± 0.002                    | LT 0.04                                |
| 01/26/09        | 0.019 ± 0.002                    | LT 0.03                                | 07/27/09        | 0.015 ± 0.002                    | LT 0.03                                |
| 02/02/09        | 0.019 ± 0.002                    | LT 0.03                                | 08/03/09        | 0.013 ± 0.002                    | LT 0.03                                |
| 02/09/09        | 0.017 ± 0.002                    | LT 0.03                                | 08/10/09        | 0.016 ± 0.002                    | LT 0.03                                |
| 02/16/09        | 0.013 ± 0.002                    | LT 0.03                                | 08/17/09        | 0.016 ± 0.002                    | LT 0.03                                |
| 02/23/09        | 0.015 ± 0.002                    | LT 0.03                                | 08/24/09        | 0.009 ± 0.002                    | LT 0.03                                |
| 03/02/09        | 0.016 ± 0.002                    | LT 0.03                                | 08/31/09        | 0.008 ± 0.002                    | LT 0.03                                |
| 03/09/09        | 0.013 ± 0.002                    | LT 0.03                                | 09/08/09        | 0.034 ± 0.002                    | LT 0.02                                |
| 03/16/09        | 0.021 ± 0.002                    | LT 0.03                                | 09/14/09        | 0.029 ± 0.003                    | LT 0.04                                |
| 03/24/09        | 0.019 ± 0.002                    | LT 0.03                                | 09/21/09        | 0.017 ± 0.002                    | LT 0.03                                |
| 03/30/09        | 0.011 ± 0.002                    | LT 0.04                                | 09/28/09        | 0.013 ± 0.002                    | LT 0.03                                |
| 04/06/09        | 0.012 ± 0.002                    | LT 0.03                                | 10/04/09        | 0.005 ± 0.002                    | LT 0.04                                |
| 04/13/09        | 0.016 ± 0.002                    | LT 0.03                                | 10/13/09        | 0.008 ± 0.001                    | LT 0.02                                |
| 04/20/09        | 0.016 ± 0.002                    | LT 0.03                                | 10/19/09        | 0.012 ± 0.002                    | LT 0.03                                |
| 04/27/09        | 0.007 ± 0.002                    | LT 0.03                                | 10/26/09        | 0.011 ± 0.002                    | LT 0.03                                |
| 05/04/09        | 0.011 ± 0.002                    | LT 0.03                                | 11/02/09        | 0.011 ± 0.002                    | LT 0.03                                |
| 05/11/09        | 0.012 ± 0.002                    | LT 0.03                                | 11/08/09        | 0.015 ± 0.003                    | LT 0.04                                |
| 05/19/09        | 0.011 ± 0.002                    | LT 0.03                                | 11/16/09        | 0.015 ± 0.002                    | LT 0.03                                |
| 05/26/09        | 0.017 ± 0.002                    | LT 0.03                                | 11/23/09        | 0.015 ± 0.002                    | LT 0.03                                |
| 06/01/09        | 0.009 ± 0.002                    | LT 0.04                                | 11/30/09        | 0.014 ± 0.002                    | LT 0.03                                |
| 06/08/09        | 0.016 ± 0.002                    | LT 0.03                                | 12/07/09        | 0.015 ± 0.002                    | LT 0.03                                |
| 06/15/09        | 0.009 ± 0.002                    | LT 0.03                                | 12/14/09        | 0.016 ± 0.002                    | LT 0.03                                |
| 06/22/09        | 0.014 ± 0.002                    | LT 0.03                                | 12/21/09        | 0.017 ± 0.002                    | LT 0.03                                |
| 06/29/09        | 0.016 ± 0.002                    | LT 0.03                                | 12/28/09        | ~~~~                             | LT 0.05                                |

LT – Less Than  
~~~~ – No Sample

Appendix A

Atmospheric Monitoring
Palisades
2009
South Haven Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/05/09 | 0.026 ± 0.002 | LT 0.03 | 07/06/09 | 0.008 ± 0.002 | LT 0.03 |
| 01/12/09 | 0.022 ± 0.002 | LT 0.03 | 07/14/09 | 0.023 ± 0.002 | LT 0.03 |
| 01/19/09 | 0.025 ± 0.002 | LT 0.03 | 07/20/09 | 0.011 ± 0.002 | LT 0.04 |
| 01/26/09 | 0.024 ± 0.002 | LT 0.03 | 07/27/09 | 0.017 ± 0.002 | LT 0.03 |
| 02/02/09 | 0.024 ± 0.002 | LT 0.03 | 08/03/09 | 0.014 ± 0.002 | LT 0.03 |
| 02/09/09 | 0.023 ± 0.002 | LT 0.03 | 08/10/09 | 0.019 ± 0.002 | LT 0.03 |
| 02/16/09 | 0.015 ± 0.002 | LT 0.03 | 08/17/09 | 0.021 ± 0.002 | LT 0.03 |
| 02/23/09 | 0.019 ± 0.002 | LT 0.03 | 08/24/09 | 0.010 ± 0.002 | LT 0.03 |
| 03/02/09 | 0.023 ± 0.002 | LT 0.03 | 08/31/09 | 0.010 ± 0.002 | LT 0.03 |
| 03/09/09 | 0.022 ± 0.002 | LT 0.03 | 09/08/09 | 0.038 ± 0.003 | LT 0.02 |
| 03/16/09 | 0.025 ± 0.002 | LT 0.03 | 09/14/09 | 0.033 ± 0.003 | LT 0.04 |
| 03/24/09 | 0.019 ± 0.002 | LT 0.03 | 09/21/09 | 0.020 ± 0.002 | LT 0.03 |
| 03/30/09 | 0.013 ± 0.002 | LT 0.04 | 09/28/09 | 0.016 ± 0.002 | LT 0.03 |
| 04/06/09 | 0.013 ± 0.002 | LT 0.03 | 10/04/09 | 0.009 ± 0.002 | LT 0.04 |
| 04/13/09 | 0.017 ± 0.002 | LT 0.03 | 10/13/09 | 0.010 ± 0.001 | LT 0.02 |
| 04/20/09 | 0.018 ± 0.002 | LT 0.03 | 10/19/09 | 0.013 ± 0.002 | LT 0.03 |
| 04/27/09 | 0.014 ± 0.002 | LT 0.03 | 10/26/09 | 0.013 ± 0.002 | LT 0.03 |
| 05/04/09 | 0.014 ± 0.002 | LT 0.03 | 11/02/09 | 0.014 ± 0.002 | LT 0.03 |
| 05/11/09 | 0.014 ± 0.002 | LT 0.04 | 11/08/09 | 0.020 ± 0.003 | LT 0.04 |
| 05/19/09 | 0.015 ± 0.002 | LT 0.03 | 11/16/09 | 0.017 ± 0.002 | LT 0.03 |
| 05/26/09 | 0.024 ± 0.002 | LT 0.03 | 11/23/09 | 0.020 ± 0.002 | LT 0.03 |
| 06/01/09 | 0.012 ± 0.002 | LT 0.04 | 11/30/09 | 0.020 ± 0.002 | LT 0.03 |
| 06/08/09 | 0.018 ± 0.002 | LT 0.03 | 12/07/09 | 0.018 ± 0.002 | LT 0.03 |
| 06/15/09 | 0.023 ± 0.002* | LT 0.07* | 12/14/09 | 0.019 ± 0.002 | LT 0.03 |
| 06/22/09 | 0.018 ± 0.002 | LT 0.04 | 12/21/09 | 0.025 ± 0.002 | LT 0.03 |
| 06/29/09 | 0.019 ± 0.002 | LT 0.03 | 12/28/09 | 0.021 ± 0.002 | LT 0.05 |

LT – Less Than

* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring
D. C. Cook
2009
Reactor Site Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/05/09 | 0.018 ± 0.002 | LT 0.03 | 07/06/09 | 0.006 ± 0.002 | LT 0.03 |
| 01/12/09 | 0.017 ± 0.002 | LT 0.03 | 07/14/09 | 0.019 ± 0.002 | LT 0.02 |
| 01/19/09 | 0.017 ± 0.002 | LT 0.03 | 07/20/09 | 0.011 ± 0.002 | LT 0.04 |
| 01/26/09 | 0.020 ± 0.002 | LT 0.03 | 07/27/09 | 0.014 ± 0.002 | LT 0.03 |
| 02/02/09 | 0.018 ± 0.002 | LT 0.03 | 08/03/09 | 0.012 ± 0.002 | LT 0.03 |
| 02/09/09 | 0.014 ± 0.002 | LT 0.03 | 08/10/09 | 0.016 ± 0.002 | LT 0.03 |
| 02/16/09 | 0.010 ± 0.002 | LT 0.03 | 08/17/09 | 0.017 ± 0.002 | LT 0.03 |
| 02/23/09 | 0.015 ± 0.002 | LT 0.03 | 08/24/09 | 0.010 ± 0.002 | LT 0.03 |
| 03/02/09 | 0.017 ± 0.002 | LT 0.03 | 08/31/09 | 0.007 ± 0.002 | LT 0.03 |
| 03/09/09 | 0.012 ± 0.002 | LT 0.03 | 09/08/09 | 0.013 ± 0.002 | LT 0.02 |
| 03/16/09 | 0.018 ± 0.002 | LT 0.03 | 09/14/09 | 0.022 ± 0.002 | LT 0.04 |
| 03/24/09 | 0.021 ± 0.002 | LT 0.03 | 09/21/09 | 0.014 ± 0.002 | LT 0.03 |
| 03/30/09 | 0.010 ± 0.002 | LT 0.04 | 09/28/09 | 0.013 ± 0.002 | LT 0.03 |
| 04/06/09 | 0.010 ± 0.002 | LT 0.03 | 10/04/09 | 0.006 ± 0.002 | LT 0.04 |
| 04/13/09 | 0.013 ± 0.002 | LT 0.03 | 10/13/09 | 0.008 ± 0.001 | LT 0.02 |
| 04/20/09 | 0.014 ± 0.002 | LT 0.03 | 10/19/09 | 0.008 ± 0.002 | LT 0.03 |
| 04/27/09 | 0.012 ± 0.002 | LT 0.03 | 10/26/09 | 0.011 ± 0.002 | LT 0.03 |
| 05/04/09 | 0.010 ± 0.002 | LT 0.03 | 11/02/09 | 0.013 ± 0.002 | LT 0.03 |
| 05/11/09 | 0.010 ± 0.002 | LT 0.03 | 11/08/09 | 0.014 ± 0.002 | LT 0.04 |
| 05/19/09 | 0.010 ± 0.002 | LT 0.03 | 11/16/09 | 0.011 ± 0.002 | LT 0.03 |
| 05/26/09 | 0.016 ± 0.002 | LT 0.03 | 11/23/09 | 0.013 ± 0.002 | LT 0.04 |
| 06/01/09 | 0.010 ± 0.002 | LT 0.04 | 11/30/09 | 0.014 ± 0.002 | LT 0.04 |
| 06/08/09 | 0.012 ± 0.002 | LT 0.03 | 12/07/09 | 0.015 ± 0.002 | LT 0.04 |
| 06/15/09 | LT 0.001* | LT 0.03 | 12/14/09 | 0.015 ± 0.002 | LT 0.03 |
| 06/22/09 | 0.015 ± 0.002 | LT 0.03 | 12/21/09 | 0.027 ± 0.002 | LT 0.04 |
| 06/29/09 | 0.018 ± 0.002 | LT 0.03 | 12/28/09 | 0.021 ± 0.002 | LT 0.04 |

LT – Less Than

* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring
 D. C. Cook
 2009
 Bridgman Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/05/09 | 0.024 ± 0.002 | LT 0.03 | 07/06/09 | 0.010 ± 0.002 | LT 0.03 |
| 01/12/09 | 0.020 ± 0.002 | LT 0.03 | 07/14/09 | 0.029 ± 0.002 | LT 0.02 |
| 01/19/09 | 0.027 ± 0.002 | LT 0.03 | 07/20/09 | 0.008 ± 0.002 | LT 0.04 |
| 01/26/09 | 0.026 ± 0.002 | LT 0.03 | 07/27/09 | 0.017 ± 0.002 | LT 0.03 |
| 02/02/09 | 0.023 ± 0.002 | LT 0.03 | 08/03/09 | 0.011 ± 0.002 | LT 0.03 |
| 02/09/09 | 0.030 ± 0.003 | LT 0.03 | 08/10/09 | LT 0.001* | LT 0.03 |
| 02/16/09 | 0.017 ± 0.002 | LT 0.03 | 08/17/09 | LT 0.002* | LT 0.07 |
| 02/23/09 | 0.017 ± 0.002 | LT 0.03 | 08/24/09 | ~~~~ | ~~~~ |
| 03/02/09 | 0.019 ± 0.002 | LT 0.03 | 08/31/09 | 0.012 ± 0.002 | LT 0.03 |
| 03/09/09 | 0.017 ± 0.002 | LT 0.03 | 09/08/09 | 0.041 ± 0.003 | LT 0.02 |
| 03/16/09 | 0.024 ± 0.002 | LT 0.03 | 09/14/09 | 0.034 ± 0.003 | LT 0.04 |
| 03/24/09 | 0.021 ± 0.002 | LT 0.03 | 09/21/09 | 0.022 ± 0.002 | LT 0.03 |
| 03/30/09 | 0.011 ± 0.002 | LT 0.04 | 09/28/09 | 0.018 ± 0.002 | LT 0.03 |
| 04/06/09 | 0.011 ± 0.002 | LT 0.03 | 10/04/09 | 0.007 ± 0.002 | LT 0.04 |
| 04/13/09 | 0.016 ± 0.002 | LT 0.03 | 10/13/09 | 0.012 ± 0.002 | LT 0.02 |
| 04/20/09 | 0.011 ± 0.002 | LT 0.03 | 10/19/09 | 0.014 ± 0.002 | LT 0.03 |
| 04/27/09 | 0.014 ± 0.002 | LT 0.03 | 10/26/09 | 0.013 ± 0.002 | LT 0.03 |
| 05/04/09 | 0.013 ± 0.002 | LT 0.03 | 11/02/09 | 0.016 ± 0.002 | LT 0.03 |
| 05/11/09 | 0.014 ± 0.002 | LT 0.03 | 11/08/09 | 0.019 ± 0.002 | LT 0.04 |
| 05/19/09 | 0.014 ± 0.002 | LT 0.03 | 11/16/09 | 0.019 ± 0.002 | LT 0.03 |
| 05/26/09 | 0.019 ± 0.002 | LT 0.03 | 11/23/09 | 0.016 ± 0.002 | LT 0.04 |
| 06/01/09 | 0.012 ± 0.002 | LT 0.04 | 11/30/09 | 0.020 ± 0.002 | LT 0.04 |
| 06/08/09 | 0.017 ± 0.002 | LT 0.03 | 12/07/09 | 0.017 ± 0.002 | LT 0.03 |
| 06/15/09 | 0.011 ± 0.002 | LT 0.03 | 12/14/09 | 0.025 ± 0.002 | LT 0.03 |
| 06/22/09 | 0.016 ± 0.002 | LT 0.03 | 12/21/09 | 0.027 ± 0.002 | LT 0.04 |
| 06/29/09 | 0.019 ± 0.002 | LT 0.03 | 12/28/09 | 0.023 ± 0.002 | LT 0.04 |

LT – Less Than
 ~~~~ – No Sample  
 \* – Based on Sampling Duration

## Appendix A

Atmospheric Monitoring  
D. C. Cook  
2009  
Stevensville Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/05/09        | 0.029 ± 0.002                    | LT 0.03                                | 07/06/09        | 0.012 ± 0.002                    | LT 0.03                                |
| 01/12/09        | 0.033 ± 0.003                    | LT 0.03                                | 07/14/09        | 0.037 ± 0.003                    | LT 0.02                                |
| 01/19/09        | 0.031 ± 0.003                    | LT 0.03                                | 07/20/09        | 0.013 ± 0.002                    | LT 0.04                                |
| 01/26/09        | 0.033 ± 0.003                    | LT 0.03                                | 07/27/09        | 0.026 ± 0.002                    | LT 0.03                                |
| 02/02/09        | 0.031 ± 0.003                    | LT 0.03                                | 08/03/09        | 0.020 ± 0.002                    | LT 0.03                                |
| 02/09/09        | 0.022 ± 0.002                    | LT 0.03                                | 08/10/09        | 0.026 ± 0.002                    | LT 0.03                                |
| 02/16/09        | 0.018 ± 0.002                    | LT 0.03                                | 08/17/09        | 0.027 ± 0.002                    | LT 0.03                                |
| 02/23/09        | 0.023 ± 0.002                    | LT 0.03                                | 08/24/09        | 0.015 ± 0.002                    | LT 0.03                                |
| 03/02/09        | 0.028 ± 0.002                    | LT 0.03                                | 08/31/09        | 0.014 ± 0.002                    | LT 0.03                                |
| 03/09/09        | 0.026 ± 0.002                    | LT 0.03                                | 09/08/09        | 0.048 ± 0.003                    | LT 0.02                                |
| 03/16/09        | 0.032 ± 0.003                    | LT 0.03                                | 09/14/09        | 0.002 ± 0.001*                   | LT 0.04                                |
| 03/24/09        | 0.028 ± 0.002                    | LT 0.03                                | 09/21/09        | 0.027 ± 0.002                    | LT 0.03                                |
| 03/30/09        | 0.015 ± 0.002                    | LT 0.04                                | 09/28/09        | 0.021 ± 0.002                    | LT 0.03                                |
| 04/06/09        | 0.018 ± 0.002                    | LT 0.03                                | 10/04/09        | 0.010 ± 0.002                    | LT 0.04                                |
| 04/13/09        | 0.022 ± 0.002                    | LT 0.03                                | 10/13/09        | 0.010 ± 0.001                    | LT 0.02                                |
| 04/20/09        | 0.018 ± 0.002                    | LT 0.03                                | 10/19/09        | 0.015 ± 0.002                    | LT 0.03                                |
| 04/27/09        | 0.019 ± 0.002                    | LT 0.03                                | 10/26/09        | 0.014 ± 0.002                    | LT 0.03                                |
| 05/04/09        | 0.015 ± 0.002                    | LT 0.03                                | 11/02/09        | 0.022 ± 0.002                    | LT 0.03                                |
| 05/11/09        | 0.019 ± 0.002                    | LT 0.03                                | 11/08/09        | 0.025 ± 0.003                    | LT 0.04                                |
| 05/19/09        | 0.019 ± 0.002                    | LT 0.03                                | 11/16/09        | 0.023 ± 0.002                    | LT 0.03                                |
| 05/26/09        | 0.027 ± 0.002                    | LT 0.03                                | 11/23/09        | 0.019 ± 0.002                    | LT 0.04                                |
| 06/01/09        | 0.017 ± 0.002                    | LT 0.04                                | 11/30/09        | 0.025 ± 0.003                    | LT 0.04                                |
| 06/08/09        | 0.027 ± 0.002                    | LT 0.03                                | 12/07/09        | 0.023 ± 0.002                    | LT 0.03                                |
| 06/15/09        | 0.014 ± 0.002                    | LT 0.03                                | 12/14/09        | 0.027 ± 0.002                    | LT 0.03                                |
| 06/22/09        | 0.022 ± 0.002                    | LT 0.03                                | 12/21/09        | 0.032 ± 0.003                    | LT 0.04                                |
| 06/29/09        | 0.025 ± 0.002                    | LT 0.03                                | 12/28/09        | 0.037 ± 0.003                    | LT 0.04                                |

LT – Less Than

\* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring  
 D. C. Cook  
 2009  
 Livingston Road Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/05/09        | 0.022 ± 0.002                    | LT 0.03                                | 07/06/09        | 0.017 ± 0.002                    | LT 0.03                                |
| 01/12/09        | 0.019 ± 0.002                    | LT 0.03                                | 07/14/09        | 0.019 ± 0.002                    | LT 0.02                                |
| 01/19/09        | 0.019 ± 0.002                    | LT 0.03                                | 07/20/09        | 0.011 ± 0.002                    | LT 0.04                                |
| 01/26/09        | 0.020 ± 0.002                    | LT 0.03                                | 07/27/09        | 0.016 ± 0.002                    | LT 0.03                                |
| 02/02/09        | 0.021 ± 0.002                    | LT 0.03                                | 08/03/09        | 0.014 ± 0.002                    | LT 0.03                                |
| 02/09/09        | 0.020 ± 0.002                    | LT 0.03                                | 08/10/09        | 0.018 ± 0.002                    | LT 0.03                                |
| 02/16/09        | 0.016 ± 0.002                    | LT 0.03                                | 08/17/09        | 0.017 ± 0.002                    | LT 0.03                                |
| 02/23/09        | 0.018 ± 0.002                    | LT 0.03                                | 08/24/09        | 0.011 ± 0.002                    | LT 0.03                                |
| 03/02/09        | 0.019 ± 0.002                    | LT 0.03                                | 08/31/09        | 0.008 ± 0.002                    | LT 0.03                                |
| 03/09/09        | 0.018 ± 0.002                    | LT 0.03                                | 09/08/09        | 0.030 ± 0.002                    | LT 0.02                                |
| 03/16/09        | 0.032 ± 0.003                    | LT 0.03                                | 09/14/09        | 0.026 ± 0.003                    | LT 0.04                                |
| 03/24/09        | 0.019 ± 0.002                    | LT 0.03                                | 09/21/09        | 0.018 ± 0.002                    | LT 0.03                                |
| 03/30/09        | 0.010 ± 0.002                    | LT 0.04                                | 09/28/09        | 0.015 ± 0.002                    | LT 0.03                                |
| 04/06/09        | 0.012 ± 0.002                    | LT 0.03                                | 10/04/09        | 0.007 ± 0.002                    | LT 0.04                                |
| 04/13/09        | 0.017 ± 0.002                    | LT 0.03                                | 10/13/09        | 0.009 ± 0.001                    | LT 0.02                                |
| 04/20/09        | 0.020 ± 0.002                    | LT 0.03                                | 10/19/09        | 0.010 ± 0.002                    | LT 0.03                                |
| 04/27/09        | 0.014 ± 0.002                    | LT 0.03                                | 10/26/09        | 0.011 ± 0.002                    | LT 0.03                                |
| 05/04/09        | 0.012 ± 0.002                    | LT 0.03                                | 11/02/09        | 0.013 ± 0.002                    | LT 0.03                                |
| 05/11/09        | 0.011 ± 0.002                    | LT 0.03                                | 11/08/09        | 0.014 ± 0.002                    | LT 0.04                                |
| 05/19/09        | 0.012 ± 0.002                    | LT 0.03                                | 11/16/09        | 0.014 ± 0.002                    | LT 0.03                                |
| 05/26/09        | 0.019 ± 0.002                    | LT 0.03                                | 11/23/09        | 0.014 ± 0.002                    | LT 0.04                                |
| 06/01/09        | 0.010 ± 0.002                    | LT 0.04                                | 11/30/09        | 0.018 ± 0.002                    | LT 0.04                                |
| 06/08/09        | 0.014 ± 0.002                    | LT 0.03                                | 12/07/09        | 0.015 ± 0.002                    | LT 0.03                                |
| 06/15/09        | 0.008 ± 0.002                    | LT 0.03                                | 12/14/09        | 0.018 ± 0.002                    | LT 0.03                                |
| 06/22/09        | 0.017 ± 0.002                    | LT 0.03                                | 12/21/09        | 0.023 ± 0.002                    | LT 0.04                                |
| 06/29/09        | 0.017 ± 0.002                    | LT 0.03                                | 12/28/09        | 0.023 ± 0.002                    | LT 0.04                                |

LT – Less Than

Appendix A

Atmospheric Monitoring  
 D. C. Cook  
 2009  
 Peddy Farm Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/05/09        | 0.026 ± 0.002                    | LT 0.03                                | 07/06/09        | 0.012 ± 0.002                    | LT 0.03                                |
| 01/12/09        | 0.020 ± 0.002                    | LT 0.03                                | 07/14/09        | 0.035 ± 0.002                    | LT 0.02                                |
| 01/19/09        | 0.021 ± 0.002                    | LT 0.03                                | 07/20/09        | 0.014 ± 0.002                    | LT 0.04                                |
| 01/26/09        | 0.023 ± 0.002                    | LT 0.03                                | 07/27/09        | 0.022 ± 0.002                    | LT 0.03                                |
| 02/02/09        | 0.022 ± 0.002                    | LT 0.03                                | 08/03/09        | 0.015 ± 0.002                    | LT 0.03                                |
| 02/09/09        | 0.024 ± 0.002                    | LT 0.03                                | 08/10/09        | 0.020 ± 0.002                    | LT 0.03                                |
| 02/16/09        | 0.017 ± 0.002                    | LT 0.03                                | 08/17/09        | 0.021 ± 0.002                    | LT 0.03                                |
| 02/23/09        | 0.020 ± 0.002                    | LT 0.03                                | 08/24/09        | 0.012 ± 0.002                    | LT 0.03                                |
| 03/02/09        | 0.021 ± 0.002                    | LT 0.03                                | 08/31/09        | 0.011 ± 0.002                    | LT 0.03                                |
| 03/09/09        | 0.017 ± 0.002                    | LT 0.03                                | 09/08/09        | 0.042 ± 0.003                    | LT 0.02                                |
| 03/16/09        | 0.025 ± 0.002                    | LT 0.03                                | 09/14/09        | 0.038 ± 0.003                    | LT 0.04                                |
| 03/24/09        | 0.023 ± 0.002                    | LT 0.03                                | 09/21/09        | 0.024 ± 0.002                    | LT 0.03                                |
| 03/30/09        | 0.014 ± 0.002                    | LT 0.04                                | 09/28/09        | 0.019 ± 0.002                    | LT 0.03                                |
| 04/06/09        | 0.014 ± 0.002                    | LT 0.03                                | 10/04/09        | 0.008 ± 0.002                    | LT 0.04                                |
| 04/13/09        | 0.018 ± 0.002                    | LT 0.03                                | 10/13/09        | 0.012 ± 0.002                    | LT 0.02                                |
| 04/20/09        | 0.020 ± 0.002                    | LT 0.03                                | 10/19/09        | 0.013 ± 0.002                    | LT 0.03                                |
| 04/27/09        | 0.015 ± 0.002                    | LT 0.03                                | 10/26/09        | 0.015 ± 0.002                    | LT 0.03                                |
| 05/04/09        | 0.014 ± 0.002                    | LT 0.03                                | 11/02/09        | 0.017 ± 0.002                    | LT 0.03                                |
| 05/11/09        | 0.014 ± 0.002                    | LT 0.03                                | 11/08/09        | 0.021 ± 0.002                    | LT 0.04                                |
| 05/19/09        | 0.014 ± 0.002                    | LT 0.03                                | 11/16/09        | 0.018 ± 0.002                    | LT 0.03                                |
| 05/26/09        | 0.021 ± 0.002                    | LT 0.03                                | 11/23/09        | 0.015 ± 0.002                    | LT 0.04                                |
| 06/01/09        | 0.015 ± 0.002                    | LT 0.04                                | 11/30/09        | 0.014 ± 0.002                    | LT 0.04                                |
| 06/08/09        | 0.019 ± 0.002                    | LT 0.03                                | 12/07/09        | 0.015 ± 0.002                    | LT 0.03                                |
| 06/15/09        | 0.013 ± 0.002                    | LT 0.03                                | 12/14/09        | 0.019 ± 0.002                    | LT 0.03                                |
| 06/22/09        | 0.019 ± 0.002                    | LT 0.03                                | 12/21/09        | 0.022 ± 0.002                    | LT 0.04                                |
| 06/29/09        | 0.019 ± 0.002                    | LT 0.03                                | 12/28/09        | 0.021 ± 0.002                    | LT 0.04                                |

LT – Less Than

Appendix A

Atmospheric Monitoring  
Fermi 2  
2009  
Reactor Site Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 01/01/09        | 0.029 ± 0.002                    | LT 0.04                                |
| 01/08/09        | 0.032 ± 0.003                    | LT 0.04                                |
| 01/15/09        | 0.022 ± 0.002                    | LT 0.04                                |
| 01/22/09        | 0.030 ± 0.002                    | LT 0.04                                |
| 01/29/09        | 0.029 ± 0.002                    | LT 0.04                                |
| 02/05/09        | 0.026 ± 0.002                    | LT 0.04                                |
| 02/12/09        | 0.026 ± 0.002                    | LT 0.04                                |
| 02/19/09        | 0.014 ± 0.002                    | LT 0.04                                |
| 02/26/09        | 0.024 ± 0.002                    | LT 0.04                                |
| 03/05/09        | 0.020 ± 0.002                    | LT 0.04                                |
| 03/12/09        | 0.022 ± 0.002                    | LT 0.04                                |
| 03/19/09        | 0.025 ± 0.002                    | LT 0.04                                |
| 03/26/09        | 0.016 ± 0.002                    | LT 0.04                                |
| 04/02/09        | 0.014 ± 0.002                    | LT 0.04                                |
| 04/09/09        | 0.011 ± 0.002                    | LT 0.04                                |
| 04/16/09        | 0.021 ± 0.002                    | LT 0.05                                |
| 04/23/09        | 0.014 ± 0.002                    | LT 0.04                                |
| 04/30/09        | 0.018 ± 0.002                    | LT 0.04                                |
| 05/07/09        | 0.021 ± 0.002                    | LT 0.04                                |
| 05/14/09        | 0.013 ± 0.002                    | LT 0.04                                |
| 05/21/09        | 0.016 ± 0.002                    | LT 0.04                                |
| 05/28/09        | 0.014 ± 0.002                    | LT 0.04                                |
| 06/04/09        | 0.011 ± 0.002                    | LT 0.04                                |
| 06/12/09        | 0.012 ± 0.002                    | LT 0.04                                |
| 06/18/09        | 0.016 ± 0.002                    | LT 0.05                                |
| 06/25/09        | 0.015 ± 0.002                    | LT 0.04                                |
| 07/02/09        | 0.011 ± 0.002                    | LT 0.04                                |

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 07/09/09        | 0.012 ± 0.002                    | LT 0.04                                |
| 07/19/09        | 0.017 ± 0.002                    | LT 0.02                                |
| 07/23/09        | 0.020 ± 0.003                    | LT 0.07                                |
| 07/30/09        | 0.018 ± 0.002                    | LT 0.04                                |
| 08/06/09        | 0.017 ± 0.002                    | LT 0.04                                |
| 08/13/09        | 0.021 ± 0.002                    | LT 0.04                                |
| 08/22/09        | 0.023 ± 0.002                    | LT 0.04                                |
| 08/27/09        | 0.011 ± 0.002                    | LT 0.04                                |
| 09/03/09        | 0.016 ± 0.002                    | LT 0.04                                |
| 09/10/09        | 0.029 ± 0.003                    | LT 0.04                                |
| 09/17/09        | 0.026 ± 0.002                    | LT 0.04                                |
| 09/24/09        | 0.018 ± 0.002                    | LT 0.04                                |
| 10/01/09        | 0.013 ± 0.002                    | LT 0.04                                |
| 10/08/09        | 0.012 ± 0.002                    | LT 0.04                                |
| 10/11/09        | 0.013 ± 0.002                    | LT 0.04                                |
| 10/22/09        | 0.021 ± 0.002                    | LT 0.04                                |
| 10/29/09        | 0.016 ± 0.002                    | LT 0.04                                |
| 11/05/09        | 0.018 ± 0.002                    | LT 0.04                                |
| 11/12/09        | 0.023 ± 0.002                    | LT 0.04                                |
| 11/19/09        | 0.022 ± 0.002                    | LT 0.04                                |
| 11/26/09        | 0.027 ± 0.002                    | LT 0.05                                |
| 12/03/09        | 0.021 ± 0.002                    | LT 0.04                                |
| 12/10/09        | 0.020 ± 0.002                    | LT 0.04                                |
| 12/17/09        | 0.031 ± 0.003                    | LT 0.05                                |
| 12/22/09        | 0.032 ± 0.003                    | LT 0.06                                |
| 12/31/09        | 0.018 ± 0.002                    | LT 0.03                                |
|                 |                                  |                                        |

LT – Less Than



Appendix A

Atmospheric Monitoring  
 Fermi 2  
 2009  
 Pointe Aux Peaux Road Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/01/09        | 0.031 ± 0.002                    | LT 0.04                                | 07/09/09        | 0.012 ± 0.002                    | LT 0.04                                |
| 01/08/09        | 0.030 ± 0.002                    | LT 0.04                                | 07/19/09        | 0.014 ± 0.002                    | LT 0.02                                |
| 01/15/09        | 0.023 ± 0.002                    | LT 0.04                                | 07/23/09        | 0.017 ± 0.003                    | LT 0.07                                |
| 01/22/09        | 0.032 ± 0.003                    | LT 0.04                                | 07/30/09        | 0.017 ± 0.002                    | LT 0.04                                |
| 01/29/09        | 0.030 ± 0.002                    | LT 0.04                                | 08/06/09        | 0.017 ± 0.002                    | LT 0.04                                |
| 02/05/09        | 0.028 ± 0.002                    | LT 0.04                                | 08/13/09        | 0.018 ± 0.002                    | LT 0.04                                |
| 02/12/09        | 0.027 ± 0.002                    | LT 0.04                                | 08/22/09        | 0.026 ± 0.002                    | LT 0.04                                |
| 02/19/09        | 0.015 ± 0.002                    | LT 0.04                                | 08/27/09        | 0.011 ± 0.002                    | LT 0.04                                |
| 02/26/09        | 0.024 ± 0.002                    | LT 0.04                                | 09/03/09        | 0.015 ± 0.002                    | LT 0.04                                |
| 03/05/09        | 0.020 ± 0.002                    | LT 0.04                                | 09/10/09        | 0.028 ± 0.002                    | LT 0.04                                |
| 03/12/09        | 0.021 ± 0.002                    | LT 0.04                                | 09/17/09        | 0.026 ± 0.002                    | LT 0.04                                |
| 03/19/09        | 0.025 ± 0.002                    | LT 0.04                                | 09/24/09        | 0.016 ± 0.002                    | LT 0.04                                |
| 03/26/09        | 0.019 ± 0.002                    | LT 0.04                                | 10/01/09        | 0.014 ± 0.002                    | LT 0.04                                |
| 04/02/09        | 0.015 ± 0.002                    | LT 0.04                                | 10/08/09        | 0.011 ± 0.002                    | LT 0.04                                |
| 04/09/09        | 0.016 ± 0.002                    | LT 0.04                                | 10/11/09        | 0.013 ± 0.002                    | LT 0.04                                |
| 04/16/09        | 0.019 ± 0.002                    | LT 0.04                                | 10/22/09        | 0.020 ± 0.002                    | LT 0.04                                |
| 04/23/09        | 0.015 ± 0.002                    | LT 0.04                                | 10/29/09        | 0.016 ± 0.002                    | LT 0.04                                |
| 04/30/09        | 0.016 ± 0.002                    | LT 0.04                                | 11/05/09        | 0.017 ± 0.002                    | LT 0.04                                |
| 05/07/09        | 0.021 ± 0.002                    | LT 0.04                                | 11/12/09        | 0.022 ± 0.002                    | LT 0.04                                |
| 05/14/09        | 0.015 ± 0.002                    | LT 0.04                                | 11/19/09        | 0.019 ± 0.002                    | LT 0.04                                |
| 05/21/09        | 0.017 ± 0.002                    | LT 0.04                                | 11/26/09        | 0.027 ± 0.002                    | LT 0.05                                |
| 05/28/09        | 0.013 ± 0.002                    | LT 0.04                                | 12/03/09        | 0.017 ± 0.002                    | LT 0.04                                |
| 06/04/09        | 0.010 ± 0.002                    | LT 0.04                                | 12/10/09        | 0.019 ± 0.002                    | LT 0.04                                |
| 06/12/09        | 0.011 ± 0.002                    | LT 0.04                                | 12/17/09        | 0.026 ± 0.002                    | LT 0.05                                |
| 06/18/09        | 0.012 ± 0.002                    | LT 0.05                                | 12/22/09        | 0.028 ± 0.003                    | LT 0.06                                |
| 06/25/09        | 0.012 ± 0.002                    | LT 0.04                                | 12/31/09        | 0.018 ± 0.002                    | LT 0.03                                |
| 07/02/09        | 0.012 ± 0.002                    | LT 0.04                                |                 |                                  |                                        |

LT – Less Than

Appendix A

Atmospheric Monitoring  
Fermi 2  
2009  
Nadeau Road Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/01/09        | 0.038 ± 0.003                    | LT 0.04                                | 07/09/09        | 0.003 ± 0.001*                   | LT 0.04                                |
| 01/08/09        | 0.034 ± 0.003                    | LT 0.04                                | 07/19/09        | 0.003 ± 0.001*                   | LT 0.02                                |
| 01/15/09        | 0.020 ± 0.003                    | LT 0.04                                | 07/23/09        | 0.005 ± 0.002*                   | LT 0.08*                               |
| 01/22/09        | 0.031 ± 0.003                    | LT 0.04                                | 07/30/09        | 0.002 ± 0.001*                   | LT 0.05*                               |
| 01/29/09        | 0.032 ± 0.003                    | LT 0.04                                | 08/06/09        | LT 0.001*                        | LT 0.04                                |
| 02/05/09        | 0.011 ± 0.003*                   | LT 0.09*                               | 08/13/09        | LT 0.001*                        | LT 0.04                                |
| 02/12/09        | 0.024 ± 0.002                    | LT 0.04                                | 08/22/09        | LT 0.001*                        | LT 0.04                                |
| 02/19/09        | 0.018 ± 0.002                    | LT 0.04                                | 08/27/09        | 0.004 ± 0.001*                   | LT 0.04                                |
| 02/26/09        | 0.029 ± 0.002                    | LT 0.04                                | 09/03/09        | 0.005 ± 0.001*                   | LT 0.04                                |
| 03/05/09        | 0.011 ± 0.003*                   | LT 0.09                                | 09/10/09        | 0.010 ± 0.002*                   | LT 0.04                                |
| 03/12/09        | 0.009 ± 0.003*                   | LT 0.09*                               | 09/17/09        | 0.008 ± 0.002*                   | LT 0.04*                               |
| 03/19/09        | 0.008 ± 0.003*                   | LT 0.04*                               | 09/24/09        | 0.006 ± 0.001*                   | LT 0.04*                               |
| 03/26/09        | 0.021 ± 0.002                    | LT 0.04                                | 10/01/09        | 0.004 ± 0.001*                   | LT 0.04                                |
| 04/02/09        | 0.017 ± 0.002                    | LT 0.04                                | 10/08/09        | 0.004 ± 0.001*                   | LT 0.04                                |
| 04/09/09        | 0.004 ± 0.001*                   | LT 0.04*                               | 10/11/09        | 0.004 ± 0.001*                   | LT 0.04                                |
| 04/16/09        | LT 0.002*                        | LT 0.09*                               | 10/22/09        | 0.006 ± 0.002*                   | LT 0.04                                |
| 04/23/09        | 0.010 ± 0.003*                   | LT 0.08*                               | 10/29/09        | 0.006 ± 0.002*                   | LT 0.05*                               |
| 04/30/09        | 0.007 ± 0.003*                   | LT 0.08                                | 11/05/09        | 0.006 ± 0.001*                   | LT 0.04*                               |
| 05/07/09        | LT 0.002*                        | LT 0.08*                               | 11/12/09        | 0.007 ± 0.002*                   | LT 0.04*                               |
| 05/14/09        | LT 0.002*                        | LT 0.08*                               | 11/19/09        | 0.006 ± 0.001*                   | LT 0.04*                               |
| 05/21/09        | 0.002 ± 0.001*                   | LT 0.04                                | 11/26/09        | 0.007 ± 0.002*                   | LT 0.05*                               |
| 05/28/09        | 0.008 ± 0.003*                   | LT 0.08*                               | 12/03/09        | 0.005 ± 0.001*                   | LT 0.04*                               |
| 06/04/09        | LT 0.002*                        | LT 0.08*                               | 12/10/09        | 0.006 ± 0.001*                   | LT 0.04*                               |
| 06/12/09        | LT 0.002*                        | LT 0.07*                               | 12/17/09        | 0.007 ± 0.002*                   | LT 0.05*                               |
| 06/18/09        | 0.004 ± 0.002*                   | LT 0.06*                               | 12/22/09        | 0.007 ± 0.002*                   | LT 0.06*                               |
| 06/25/09        | 0.003 ± 0.001*                   | LT 0.04                                | 12/31/09        | 0.003 ± 0.001*                   | LT 0.03*                               |
| 07/02/09        | 0.002 ± 0.001*                   | LT 0.04                                |                 |                                  |                                        |

LT – Less Than  
\* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring  
Fermi 2  
2009  
Dixie Highway Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/01/09        | 0.033 ± 0.002                    | LT 0.04                                | 07/09/09        | 0.016 ± 0.002                    | LT 0.04                                |
| 01/08/09        | 0.032 ± 0.003                    | LT 0.04                                | 07/19/09        | 0.016 ± 0.002                    | LT 0.02                                |
| 01/15/09        | 0.021 ± 0.002                    | LT 0.04                                | 07/23/09        | 0.017 ± 0.003                    | LT 0.07                                |
| 01/22/09        | 0.032 ± 0.003                    | LT 0.04                                | 07/30/09        | 0.020 ± 0.002                    | LT 0.04                                |
| 01/29/09        | 0.031 ± 0.003                    | LT 0.04                                | 08/06/09        | 0.019 ± 0.002                    | LT 0.04                                |
| 02/05/09        | 0.030 ± 0.002                    | LT 0.04                                | 08/13/09        | 0.014 ± 0.002                    | LT 0.04                                |
| 02/12/09        | 0.029 ± 0.002                    | LT 0.04                                | 08/22/09        | 0.028 ± 0.002                    | LT 0.04                                |
| 02/19/09        | 0.015 ± 0.002                    | LT 0.04                                | 08/27/09        | 0.012 ± 0.002                    | LT 0.04                                |
| 02/26/09        | 0.025 ± 0.002                    | LT 0.04                                | 09/03/09        | 0.018 ± 0.002                    | LT 0.04                                |
| 03/05/09        | 0.022 ± 0.002                    | LT 0.04                                | 09/10/09        | 0.034 ± 0.003                    | LT 0.04                                |
| 03/12/09        | 0.020 ± 0.002                    | LT 0.04                                | 09/17/09        | 0.058 ± 0.005*                   | LT 0.08*                               |
| 03/19/09        | 0.028 ± 0.002                    | LT 0.04                                | 09/24/09        | 0.018 ± 0.003                    | LT 0.07                                |
| 03/26/09        | 0.021 ± 0.002                    | LT 0.04                                | 10/01/09        | 0.015 ± 0.002                    | LT 0.04                                |
| 04/02/09        | 0.015 ± 0.002                    | LT 0.04                                | 10/08/09        | 0.011 ± 0.002                    | LT 0.04                                |
| 04/09/09        | 0.014 ± 0.002                    | LT 0.04                                | 10/11/09        | 0.014 ± 0.002                    | LT 0.04                                |
| 04/16/09        | 0.022 ± 0.002                    | LT 0.04                                | 10/22/09        | 0.020 ± 0.002                    | LT 0.04                                |
| 04/23/09        | 0.017 ± 0.002                    | LT 0.04                                | 10/29/09        | 0.016 ± 0.002                    | LT 0.04                                |
| 04/30/09        | 0.020 ± 0.002                    | LT 0.04                                | 11/05/09        | 0.017 ± 0.002                    | LT 0.04                                |
| 05/07/09        | 0.022 ± 0.002                    | LT 0.04                                | 11/12/09        | 0.022 ± 0.002                    | LT 0.04                                |
| 05/14/09        | 0.014 ± 0.002                    | LT 0.04                                | 11/19/09        | 0.021 ± 0.002                    | LT 0.04                                |
| 05/21/09        | 0.017 ± 0.002                    | LT 0.04                                | 11/26/09        | 0.025 ± 0.002                    | LT 0.05                                |
| 05/28/09        | 0.016 ± 0.002                    | LT 0.04                                | 12/03/09        | 0.022 ± 0.002                    | LT 0.04                                |
| 06/04/09        | 0.012 ± 0.002                    | LT 0.04                                | 12/10/09        | 0.018 ± 0.002                    | LT 0.04                                |
| 06/12/09        | 0.011 ± 0.002                    | LT 0.04                                | 12/17/09        | 0.054 ± 0.005*                   | LT 0.09*                               |
| 06/18/09        | 0.015 ± 0.002                    | LT 0.05                                | 12/22/09        | 0.028 ± 0.003                    | LT 0.06                                |
| 06/25/09        | 0.015 ± 0.002                    | LT 0.04                                | 12/31/09        | 0.015 ± 0.002                    | LT 0.03                                |
| 07/02/09        | 0.013 ± 0.002                    | LT 0.04                                |                 |                                  |                                        |

LT – Less Than

\* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring  
Fermi 2  
2009  
Fix Farm Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/01/09        | 0.031 ± 0.002                    | LT 0.04                                | 07/09/09        | 0.011 ± 0.002                    | LT 0.04                                |
| 01/08/09        | 0.032 ± 0.003                    | LT 0.04                                | 07/19/09        | 0.017 ± 0.002                    | LT 0.02                                |
| 01/15/09        | 0.023 ± 0.002                    | LT 0.04                                | 07/23/09        | 0.019 ± 0.003                    | LT 0.07                                |
| 01/22/09        | 0.032 ± 0.003                    | LT 0.04                                | 07/30/09        | 0.017 ± 0.002                    | LT 0.04                                |
| 01/29/09        | 0.031 ± 0.003                    | LT 0.04                                | 08/06/09        | 0.019 ± 0.002                    | LT 0.04                                |
| 02/05/09        | 0.027 ± 0.002                    | LT 0.04                                | 08/13/09        | 0.019 ± 0.002                    | LT 0.04                                |
| 02/12/09        | 0.028 ± 0.002                    | LT 0.04                                | 08/22/09        | 0.026 ± 0.002                    | LT 0.04                                |
| 02/19/09        | 0.016 ± 0.002                    | LT 0.04                                | 08/27/09        | 0.011 ± 0.002                    | LT 0.04                                |
| 02/26/09        | 0.026 ± 0.002                    | LT 0.04                                | 09/03/09        | 0.017 ± 0.002                    | LT 0.04                                |
| 03/05/09        | 0.022 ± 0.002                    | LT 0.04                                | 09/10/09        | 0.028 ± 0.002                    | LT 0.04                                |
| 03/12/09        | 0.021 ± 0.002                    | LT 0.04                                | 09/17/09        | 0.028 ± 0.002                    | LT 0.04                                |
| 03/19/09        | 0.026 ± 0.002                    | LT 0.04                                | 09/24/09        | 0.017 ± 0.002                    | LT 0.04                                |
| 03/26/09        | 0.021 ± 0.002                    | LT 0.04                                | 10/01/09        | 0.013 ± 0.002                    | LT 0.04                                |
| 04/02/09        | 0.016 ± 0.002                    | LT 0.04                                | 10/08/09        | 0.010 ± 0.002                    | LT 0.04                                |
| 04/09/09        | 0.013 ± 0.002                    | LT 0.04                                | 10/11/09        | 0.014 ± 0.002                    | LT 0.04                                |
| 04/16/09        | 0.019 ± 0.002                    | LT 0.04                                | 10/22/09        | 0.021 ± 0.002                    | LT 0.04                                |
| 04/23/09        | 0.016 ± 0.002                    | LT 0.04                                | 10/29/09        | 0.015 ± 0.002                    | LT 0.04                                |
| 04/30/09        | 0.018 ± 0.002                    | LT 0.04                                | 11/05/09        | 0.017 ± 0.002                    | LT 0.04                                |
| 05/07/09        | 0.022 ± 0.002                    | LT 0.04                                | 11/12/09        | 0.015 ± 0.003*                   | LT 0.09*                               |
| 05/14/09        | 0.013 ± 0.002                    | LT 0.04                                | 11/19/09        | 0.017 ± 0.002                    | LT 0.04                                |
| 05/21/09        | 0.016 ± 0.002                    | LT 0.04                                | 11/26/09        | 0.024 ± 0.002                    | LT 0.05                                |
| 05/28/09        | 0.015 ± 0.002                    | LT 0.04                                | 12/03/09        | 0.020 ± 0.002                    | LT 0.04                                |
| 06/04/09        | 0.011 ± 0.002                    | LT 0.04                                | 12/10/09        | 0.020 ± 0.002                    | LT 0.04                                |
| 06/12/09        | 0.013 ± 0.002                    | LT 0.04                                | 12/17/09        | 0.025 ± 0.002                    | LT 0.05                                |
| 06/18/09        | 0.015 ± 0.002                    | LT 0.05                                | 12/22/09        | 0.030 ± 0.003                    | LT 0.06                                |
| 06/25/09        | 0.013 ± 0.002                    | LT 0.04                                | 12/31/09        | 0.017 ± 0.002                    | LT 0.03                                |
| 07/02/09        | 0.009 ± 0.002                    | LT 0.04                                |                 |                                  |                                        |

LT – Less Than

\* – Based on Sampling Duration

## Appendix A

### Atmospheric Monitoring 2009 Lansing Background Reference Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/05/09        | 0.024 ± 0.002                    | LT 0.03                                | 07/07/09        | 0.012 ± 0.002                    | LT 0.02                                |
| 01/12/09        | 0.018 ± 0.002                    | LT 0.03                                | 07/13/09        | 0.019 ± 0.002                    | LT 0.03                                |
| 01/20/09        | 0.021 ± 0.002                    | LT 0.02                                | 07/20/09        | 0.016 ± 0.002                    | LT 0.03                                |
| 01/26/09        | 0.021 ± 0.002                    | LT 0.03                                | 07/27/09        | 0.017 ± 0.002                    | LT 0.02                                |
| 02/02/09        | 0.026 ± 0.002                    | LT 0.03                                | 08/03/09        | 0.016 ± 0.002                    | LT 0.02                                |
| 02/09/09        | 0.019 ± 0.002                    | LT 0.03                                | 08/10/09        | 0.018 ± 0.002                    | LT 0.03                                |
| 02/17/09        | 0.015 ± 0.003                    | LT 0.02                                | 08/17/09        | 0.024 ± 0.002                    | LT 0.02                                |
| 02/23/09        | 0.014 ± 0.002                    | LT 0.03                                | 08/24/09        | 0.014 ± 0.002                    | LT 0.02                                |
| 03/02/09        | 0.014 ± 0.002                    | LT 0.03                                | 08/31/09        | 0.014 ± 0.002                    | LT 0.02                                |
| 03/09/09        | 0.019 ± 0.002                    | LT 0.03                                | 09/08/09        | 0.029 ± 0.002                    | LT 0.02                                |
| 03/16/09        | 0.025 ± 0.002                    | LT 0.03                                | 09/14/09        | 0.030 ± 0.003                    | LT 0.03                                |
| 03/23/09        | 0.023 ± 0.002                    | LT 0.02                                | 09/21/09        | 0.023 ± 0.002                    | LT 0.03                                |
| 03/30/09        | 0.013 ± 0.002                    | LT 0.03                                | 09/28/09        | 0.015 ± 0.002                    | LT 0.03                                |
| 04/06/09        | 0.012 ± 0.002                    | LT 0.02                                | 10/05/09        | 0.009 ± 0.002                    | LT 0.03                                |
| 04/13/09        | 0.018 ± 0.002                    | LT 0.03                                | 10/12/09        | 0.010 ± 0.002                    | LT 0.03                                |
| 04/20/09        | 0.023 ± 0.002                    | LT 0.03                                | 10/19/09        | 0.018 ± 0.002                    | LT 0.03                                |
| 04/27/09        | 0.011 ± 0.002                    | LT 0.03                                | 10/26/09        | 0.015 ± 0.002                    | LT 0.02                                |
| 05/04/09        | 0.013 ± 0.002                    | LT 0.02                                | 11/02/09        | 0.013 ± 0.002                    | LT 0.03                                |
| 05/11/09        | 0.016 ± 0.002                    | LT 0.02                                | 11/09/09        | 0.025 ± 0.002                    | LT 0.03                                |
| 05/18/09        | 0.018 ± 0.002                    | LT 0.03                                | 11/16/09        | 0.017 ± 0.002                    | LT 0.03                                |
| 05/25/09        | 0.022 ± 0.002                    | LT 0.02                                | 11/23/09        | 0.038 ± 0.004                    | LT 0.04                                |
| 06/01/09        | 0.011 ± 0.002                    | LT 0.03                                | 11/30/09        | 0.018 ± 0.002                    | LT 0.03                                |
| 06/08/09        | 0.016 ± 0.002                    | LT 0.02                                | 12/07/09        | 0.016 ± 0.002                    | LT 0.02                                |
| 06/15/09        | 0.016 ± 0.002                    | LT 0.03                                | 12/14/09        | 0.025 ± 0.002                    | LT 0.03                                |
| 06/22/09        | 0.013 ± 0.002                    | LT 0.03                                | 12/21/09        | 0.023 ± 0.002                    | LT 0.03                                |
| 06/29/09        | 0.018 ± 0.002                    | LT 0.02                                | 12/28/09        | 0.017 ± 0.002                    | LT 0.03                                |

LT – Less Than

## Appendix A

Atmospheric Monitoring  
Palisades  
2010  
Reactor Site Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/05/10        | 0.015 ± 0.002                    | LT 0.03                                | 07/06/10        | 0.019 ± 0.002                    | LT 0.03                                |
| 01/11/10        | 0.016 ± 0.002                    | LT 0.04                                | 07/12/10        | 0.022 ± 0.002                    | LT 0.06                                |
| 01/18/10        | 0.036 ± 0.003                    | LT 0.03                                | 07/19/10        | 0.024 ± 0.002                    | LT 0.70                                |
| 01/24/10        | 0.021 ± 0.002                    | LT 0.04                                | 07/26/10        | 0.016 ± 0.002                    | LT 0.56                                |
| 02/02/10        | 0.020 ± 0.002                    | LT 0.02                                | 08/02/10        | 0.021 ± 0.002                    | LT 0.30                                |
| 02/08/10        | 0.022 ± 0.002                    | LT 0.04                                | 08/08/10        | 0.032 ± 0.003                    | LT 0.23                                |
| 02/15/10        | 0.013 ± 0.002                    | LT 0.03                                | 08/16/10        | 0.023 ± 0.002                    | LT 0.08                                |
| 02/20/10        | 0.014 ± 0.002                    | LT 0.05                                | 08/23/10        | 0.026 ± 0.002                    | LT 0.06                                |
| 03/02/10        | 0.019 ± 0.002                    | LT 0.02                                | 08/30/10        | 0.016 ± 0.002                    | LT 0.04                                |
| 03/08/10        | 0.023 ± 0.002                    | LT 0.04                                | 09/07/10        | 0.018 ± 0.002                    | LT 0.04                                |
| 03/15/10        | 0.017 ± 0.002                    | LT 0.03                                | 09/13/10        | 0.010 ± 0.002                    | LT 0.04                                |
| 03/23/10        | 0.020 ± 0.002                    | LT 0.03                                | 09/20/10        | 0.014 ± 0.002                    | LT 0.06                                |
| 03/29/10        | 0.021 ± 0.002                    | LT 0.04                                | 09/27/10        | 0.017 ± 0.002                    | LT 0.02                                |
| 04/06/10        | 0.022 ± 0.002                    | LT 0.03                                | 10/04/10        | 0.017 ± 0.002                    | LT 0.03                                |
| 04/12/10        | 0.013 ± 0.002                    | LT 0.04                                | 10/11/10        | 0.030 ± 0.002                    | LT 0.03                                |
| 04/19/10        | 0.017 ± 0.002                    | LT 0.03                                | 10/18/10        | 0.021 ± 0.002                    | LT 0.03                                |
| 04/26/10        | 0.017 ± 0.002                    | LT 0.03                                | 10/25/10        | 0.025 ± 0.002                    | LT 0.03                                |
| 05/03/10        | 0.016 ± 0.002                    | LT 0.03                                | 11/01/10        | 0.015 ± 0.002                    | LT 0.04                                |
| 05/11/10        | 0.013 ± 0.002                    | LT 0.03                                | 11/07/10        | 0.012 ± 0.002                    | LT 0.06                                |
| 05/16/10        | 0.007 ± 0.002                    | LT 0.04                                | 11/15/10        | 0.036 ± 0.003                    | LT 0.03                                |
| 05/23/10        | 0.015 ± 0.002                    | LT 0.04                                | 11/22/10        | 0.034 ± 0.003                    | LT 0.05                                |
| 05/30/10        | 0.017 ± 0.002                    | LT 0.03                                | 11/29/10        | 0.023 ± 0.002                    | LT 0.03                                |
| 06/07/10        | 0.015 ± 0.002                    | LT 0.03                                | 12/06/10        | 0.019 ± 0.002                    | LT 0.03                                |
| 06/14/10        | 0.011 ± 0.002                    | LT 0.04                                | 12/14/10        | 0.026 ± 0.002                    | LT 0.03                                |
| 06/21/10        | 0.010 ± 0.002                    | LT 0.03                                | 12/21/10        | 0.002 ± 0.001                    | LT 0.03                                |
| 06/28/10        | 0.017 ± 0.002                    | LT 0.03                                | 12/28/10        | ~~~~                             | ~~~~                                   |

LT – Less Than

~~~~ – No Sample

* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring
Palisades
2010
Covert Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 01/05/10 | 0.010 ± 0.002 | LT 0.03 |
| 01/11/10 | 0.014 ± 0.002 | LT 0.04 |
| 01/18/10 | 0.026 ± 0.002 | LT 0.03 |
| 01/24/10 | 0.016 ± 0.002 | LT 0.04 |
| 02/02/10 | 0.015 ± 0.002 | LT 0.02 |
| 02/08/10 | 0.008 ± 0.002 | LT 0.04 |
| 02/15/10 | 0.009 ± 0.002 | LT 0.03 |
| 02/20/10 | 0.008 ± 0.002 | LT 0.05 |
| 03/02/10 | 0.015 ± 0.002 | LT 0.02 |
| 03/08/10 | 0.015 ± 0.002 | LT 0.04 |
| 03/15/10 | 0.013 ± 0.002 | LT 0.03 |
| 03/23/10 | 0.015 ± 0.002 | LT 0.03 |
| 03/29/10 | 0.014 ± 0.002 | LT 0.04 |
| 04/06/10 | 0.016 ± 0.002 | LT 0.03 |
| 04/12/10 | 0.011 ± 0.002 | LT 0.04 |
| 04/19/10 | 0.013 ± 0.002 | LT 0.03 |
| 04/26/10 | 0.011 ± 0.002 | LT 0.03 |
| 05/03/10 | 0.012 ± 0.002 | LT 0.03 |
| 05/11/10 | 0.009 ± 0.001 | LT 0.03 |
| 05/16/10 | 0.003 ± 0.002 | LT 0.04 |
| 05/23/10 | 0.011 ± 0.002 | LT 0.04 |
| 05/30/10 | 0.012 ± 0.002 | LT 0.03 |
| 06/07/10 | 0.010 ± 0.001 | LT 0.03 |
| 06/14/10 | 0.009 ± 0.002 | LT 0.04 |
| 06/21/10 | 0.008 ± 0.002 | LT 0.03 |
| 06/28/10 | 0.019 ± 0.002 | LT 0.03 |

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 07/06/10 | 0.016 ± 0.002 | LT 0.03 |
| 07/12/10 | 0.014 ± 0.002 | LT 0.06 |
| 07/19/10 | 0.017 ± 0.002 | LT 0.69 |
| 07/26/10 | 0.012 ± 0.002 | LT 0.56 |
| 08/02/10 | 0.014 ± 0.002 | LT 0.30 |
| 08/08/10 | 0.022 ± 0.002 | LT 0.23 |
| 08/16/10 | 0.018 ± 0.002 | LT 0.08 |
| 08/23/10 | 0.017 ± 0.002 | LT 0.06 |
| 08/30/10 | 0.014 ± 0.002 | LT 0.04 |
| 09/07/10 | 0.012 ± 0.002 | LT 0.04 |
| 09/13/10 | 0.007 ± 0.002 | LT 0.04 |
| 09/20/10 | 0.025 ± 0.002 | LT 0.06 |
| 09/27/10 | 0.010 ± 0.002 | LT 0.02 |
| 10/04/10 | 0.011 ± 0.002 | LT 0.03 |
| 10/11/10 | 0.025 ± 0.002 | LT 0.03 |
| 10/18/10 | 0.017 ± 0.002 | LT 0.03 |
| 10/25/10 | 0.016 ± 0.002 | LT 0.03 |
| 11/01/10 | 0.012 ± 0.002 | LT 0.04 |
| 11/07/10 | 0.008 ± 0.002 | LT 0.06 |
| 11/15/10 | 0.026 ± 0.002 | LT 0.03 |
| 11/22/10 | 0.023 ± 0.002 | LT 0.05 |
| 11/29/10 | 0.018 ± 0.002 | LT 0.03 |
| 12/06/10 | 0.015 ± 0.002 | LT 0.03 |
| 12/14/10 | 0.017 ± 0.002 | LT 0.03 |
| 12/21/10 | 0.017 ± 0.002 | LT 0.03 |
| 12/28/10 | 0.008 ± 0.002 | LT 0.04 |

LT – Less Than
 ~~~~ – No Sample  
 \* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring  
Palisades  
2010  
South Haven Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/05/10        | 0.013 ± 0.002                    | LT 0.03                                | 07/06/10        | 0.020 ± 0.002                    | LT 0.03                                |
| 01/11/10        | 0.023 ± 0.003                    | LT 0.04                                | 07/12/10        | 0.016 ± 0.002                    | LT 0.06                                |
| 01/18/10        | 0.034 ± 0.003                    | LT 0.03                                | 07/19/10        | 0.022 ± 0.002                    | LT 0.69                                |
| 01/24/10        | 0.020 ± 0.002                    | LT 0.04                                | 07/26/10        | 0.018 ± 0.002                    | ~~~~                                   |
| 02/02/10        | 0.017 ± 0.002                    | LT 0.02                                | 08/02/10        | 0.018 ± 0.002                    | LT 0.30                                |
| 02/08/10        | 0.015 ± 0.002                    | LT 0.04                                | 08/08/10        | 0.029 ± 0.003                    | LT 0.23                                |
| 02/15/10        | 0.011 ± 0.002                    | LT 0.03                                | 08/16/10        | 0.018 ± 0.002                    | LT 0.08                                |
| 02/20/10        | 0.009 ± 0.004                    | LT 0.11                                | 08/23/10        | 0.025 ± 0.002                    | LT 0.06                                |
| 03/02/10        | 0.010 ± 0.002*                   | LT 0.04*                               | 08/30/10        | 0.016 ± 0.002                    | LT 0.04                                |
| 03/08/10        | ~~~~                             | ~~~~                                   | 09/07/10        | 0.017 ± 0.002                    | LT 0.04                                |
| 03/15/10        | 0.012 ± 0.002                    | LT 0.03                                | 09/13/10        | 0.010 ± 0.002                    | LT 0.04                                |
| 03/23/10        | 0.018 ± 0.002                    | LT 0.03                                | 09/20/10        | 0.020 ± 0.002                    | LT 0.06                                |
| 03/29/10        | 0.019 ± 0.002                    | LT 0.04                                | 09/27/10        | 0.014 ± 0.002                    | LT 0.02                                |
| 04/06/10        | 0.020 ± 0.002                    | LT 0.03                                | 10/04/10        | 0.014 ± 0.002                    | LT 0.03                                |
| 04/12/10        | 0.013 ± 0.002                    | LT 0.04                                | 10/11/10        | 0.029 ± 0.002                    | LT 0.03                                |
| 04/19/10        | 0.017 ± 0.002                    | LT 0.03                                | 10/18/10        | 0.020 ± 0.002                    | LT 0.03                                |
| 04/26/10        | 0.015 ± 0.002                    | LT 0.03                                | 10/25/10        | 0.021 ± 0.002                    | LT 0.03                                |
| 05/03/10        | 0.015 ± 0.002                    | LT 0.03                                | 11/01/10        | 0.013 ± 0.002                    | LT 0.04                                |
| 05/11/10        | 0.013 ± 0.002                    | LT 0.03                                | 11/07/10        | 0.011 ± 0.002                    | LT 0.06                                |
| 05/16/10        | 0.003 ± 0.002                    | LT 0.04                                | 11/15/10        | 0.033 ± 0.002                    | LT 0.03                                |
| 05/23/10        | 0.014 ± 0.002                    | LT 0.04                                | 11/22/10        | 0.031 ± 0.003                    | LT 0.05                                |
| 05/30/10        | 0.016 ± 0.002                    | LT 0.03                                | 11/29/10        | 0.020 ± 0.002                    | LT 0.03                                |
| 06/07/10        | 0.012 ± 0.002                    | LT 0.03                                | 12/06/10        | 0.015 ± 0.002                    | LT 0.03                                |
| 06/14/10        | 0.012 ± 0.002                    | LT 0.04                                | 12/14/10        | 0.021 ± 0.002                    | LT 0.03                                |
| 06/21/10        | 0.012 ± 0.002                    | LT 0.03                                | 12/21/10        | 0.019 ± 0.002                    | LT 0.03                                |
| 06/28/10        | 0.010 ± 0.002                    | LT 0.03                                | 12/28/10        | 0.018 ± 0.002                    | LT 0.04                                |

LT – Less Than  
 ~~~~ – No Sample  
 * – Based on Sampling Duration

Appendix A

Atmospheric Monitoring
 D. C. Cook
 2010
 Reactor Site Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 01/05/10 | 0.013 ± 0.002 | LT 0.02 |
| 01/11/10 | 0.013 ± 0.002 | LT 0.04 |
| 01/18/10 | 0.023 ± 0.002 | LT 0.03 |
| 01/24/10 | 0.013 ± 0.002 | LT 0.04 |
| 02/02/10 | 0.014 ± 0.002 | LT 0.02 |
| 02/08/10 | 0.015 ± 0.002 | LT 0.04 |
| 02/15/10 | 0.010 ± 0.002 | LT 0.03 |
| 02/20/10 | 0.008 ± 0.002 | LT 0.05 |
| 03/02/10 | 0.015 ± 0.002 | LT 0.02 |
| 03/08/10 | 0.012 ± 0.002 | LT 0.04 |
| 03/15/10 | 0.010 ± 0.002 | LT 0.03 |
| 03/23/10 | 0.015 ± 0.002 | LT 0.03 |
| 03/29/10 | 0.011 ± 0.002 | LT 0.04 |
| 04/06/10 | 0.017 ± 0.002 | LT 0.03 |
| 04/12/10 | 0.011 ± 0.002 | LT 0.04 |
| 04/19/10 | 0.012 ± 0.002 | LT 0.03 |
| 04/26/10 | 0.013 ± 0.002 | LT 0.03 |
| 05/03/10 | 0.011 ± 0.002 | LT 0.03 |
| 05/11/10 | 0.009 ± 0.002 | LT 0.03 |
| 05/16/10 | 0.003 ± 0.002 | LT 0.04 |
| 05/23/10 | 0.008 ± 0.002 | LT 0.04 |
| 05/30/10 | 0.012 ± 0.002 | LT 0.03 |
| 06/07/10 | 0.011 ± 0.002 | LT 0.03 |
| 06/14/10 | 0.007 ± 0.002 | LT 0.03 |
| 06/21/10 | 0.005 ± 0.001 | LT 0.03 |
| 06/28/10 | 0.011 ± 0.002 | LT 0.03 |

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 07/06/10 | 0.021 ± 0.002 | LT 0.03 |
| 07/12/10 | 0.015 ± 0.002 | LT 1.42 |
| 07/19/10 | 0.009 ± 0.002 | LT 0.69 |
| 07/26/10 | 0.013 ± 0.002 | LT 0.56 |
| 08/02/10 | 0.013 ± 0.002 | LT 0.28 |
| 08/08/10 | 0.020 ± 0.002 | LT 0.25 |
| 08/16/10 | 0.016 ± 0.002 | LT 0.08 |
| 08/23/10 | 0.019 ± 0.002 | LT 0.06 |
| 08/30/10 | 0.012 ± 0.002 | LT 0.04 |
| 09/07/10 | 0.014 ± 0.002 | LT 0.04 |
| 09/13/10 | 0.007 ± 0.002 | LT 0.04 |
| 09/20/10 | 0.011 ± 0.002 | LT 0.03 |
| 09/27/10 | 0.017 ± 0.002 | LT 0.03 |
| 10/04/10 | 0.011 ± 0.002 | LT 0.03 |
| 10/11/10 | 0.021 ± 0.002 | LT 0.03 |
| 10/18/10 | 0.015 ± 0.002 | LT 0.03 |
| 10/25/10 | 0.016 ± 0.002 | LT 0.03 |
| 11/01/10 | 0.012 ± 0.002 | LT 0.04 |
| 11/07/10 | 0.008 ± 0.002 | LT 0.06 |
| 11/15/10 | 0.018 ± 0.002 | LT 0.03 |
| 11/22/10 | 0.022 ± 0.002 | LT 0.05 |
| 11/29/10 | 0.014 ± 0.002 | LT 0.03 |
| 12/06/10 | 0.015 ± 0.002 | LT 0.03 |
| 12/14/10 | 0.003 ± 0.001 | LT 0.03 |
| 12/21/10 | ~~~~ | ~~~~ |
| 12/28/10 | 0.011 ± 0.002 | LT 0.04 |

LT – Less Than
 ~~~~ – No Sample

Appendix A

Atmospheric Monitoring  
 D. C. Cook  
 2010  
 Bridgman Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/05/10        | 0.011 ± 0.002                    | LT 0.02                                | 07/06/10        | 0.023 ± 0.002                    | LT 0.03                                |
| 01/11/10        | 0.019 ± 0.002                    | LT 0.04                                | 07/12/10        | 0.017 ± 0.002                    | LT 1.41                                |
| 01/18/10        | 0.030 ± 0.003                    | LT 0.03                                | 07/19/10        | 0.011 ± 0.002                    | LT 0.70                                |
| 01/24/10        | 0.017 ± 0.002                    | LT 0.04                                | 07/26/10        | 0.014 ± 0.002                    | LT 0.56                                |
| 02/02/10        | 0.017 ± 0.002                    | LT 0.02                                | 08/02/10        | 0.017 ± 0.002                    | LT 0.29                                |
| 02/08/10        | 0.022 ± 0.002                    | LT 0.04                                | 08/08/10        | 0.023 ± 0.002                    | LT 0.25                                |
| 02/15/10        | 0.011 ± 0.002                    | LT 0.03                                | 08/16/10        | 0.017 ± 0.002                    | LT 0.08                                |
| 02/20/10        | 0.012 ± 0.002                    | LT 0.05                                | 08/23/10        | 0.023 ± 0.002                    | LT 0.06                                |
| 03/02/10        | 0.019 ± 0.002                    | LT 0.02                                | 08/30/10        | 0.018 ± 0.002                    | LT 0.04                                |
| 03/08/10        | 0.018 ± 0.002                    | LT 0.04                                | 09/07/10        | 0.013 ± 0.002                    | LT 0.04                                |
| 03/15/10        | 0.014 ± 0.002                    | LT 0.03                                | 09/13/10        | 0.012 ± 0.002                    | LT 0.04                                |
| 03/23/10        | 0.018 ± 0.002                    | LT 0.03                                | 09/20/10        | 0.014 ± 0.002                    | LT 0.03                                |
| 03/29/10        | 0.015 ± 0.002                    | LT 0.04                                | 09/27/10        | 0.020 ± 0.002                    | LT 0.03                                |
| 04/06/10        | 0.021 ± 0.002                    | LT 0.03                                | 10/04/10        | 0.013 ± 0.002                    | LT 0.03                                |
| 04/12/10        | 0.012 ± 0.002                    | LT 0.04                                | 10/11/10        | 0.025 ± 0.002                    | LT 0.03                                |
| 04/19/10        | 0.016 ± 0.002                    | LT 0.04                                | 10/18/10        | 0.021 ± 0.002                    | LT 0.03                                |
| 04/26/10        | 0.010 ± 0.002                    | LT 0.03                                | 10/25/10        | 0.021 ± 0.002                    | LT 0.03                                |
| 05/03/10        | 0.013 ± 0.002                    | LT 0.03                                | 11/01/10        | 0.013 ± 0.002                    | LT 0.04                                |
| 05/11/10        | 0.012 ± 0.002                    | LT 0.03                                | 11/07/10        | 0.010 ± 0.002                    | LT 0.06                                |
| 05/16/10        | 0.005 ± 0.002                    | LT 0.04                                | 11/15/10        | 0.036 ± 0.003                    | LT 0.03                                |
| 05/23/10        | 0.011 ± 0.002                    | LT 0.04                                | 11/22/10        | 0.027 ± 0.002                    | LT 0.05                                |
| 05/30/10        | 0.014 ± 0.002                    | LT 0.03                                | 11/29/10        | 0.020 ± 0.002                    | LT 0.03                                |
| 06/07/10        | 0.011 ± 0.002                    | LT 0.03                                | 12/06/10        | 0.018 ± 0.002                    | LT 0.03                                |
| 06/14/10        | 0.008 ± 0.002                    | LT 0.03                                | 12/14/10        | 0.019 ± 0.002                    | LT 0.03                                |
| 06/21/10        | 0.009 ± 0.002                    | LT 0.03                                | 12/21/10        | 0.019 ± 0.002                    | LT 0.03                                |
| 06/28/10        | 0.013 ± 0.002                    | LT 0.03                                | 12/28/10        | 0.011 ± 0.002                    | LT 0.04                                |

LT – Less Than

Appendix A

Atmospheric Monitoring  
 D. C. Cook  
 2010  
 Stevensville Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 01/05/10        | 0.019 ± 0.002                    | LT 0.03                                |
| 01/11/10        | 0.022 ± 0.002                    | LT 0.04                                |
| 01/18/10        | 0.038 ± 0.004*                   | LT 0.06*                               |
| 01/24/10        | ~~~~                             | ~~~~                                   |
| 02/02/10        | ~~~~                             | ~~~~                                   |
| 02/08/10        | 0.022 ± 0.002                    | LT 0.04                                |
| 02/15/10        | 0.011 ± 0.002                    | LT 0.03                                |
| 02/20/10        | 0.011 ± 0.002                    | LT 0.05                                |
| 03/02/10        | 0.017 ± 0.002                    | LT 0.02                                |
| 03/08/10        | 0.019 ± 0.002                    | LT 0.04                                |
| 03/15/10        | 0.013 ± 0.002                    | LT 0.03                                |
| 03/23/10        | 0.017 ± 0.002                    | LT 0.03                                |
| 03/29/10        | 0.016 ± 0.002                    | LT 0.04                                |
| 04/06/10        | 0.019 ± 0.002                    | LT 0.03                                |
| 04/12/10        | 0.014 ± 0.002                    | LT 0.04                                |
| 04/19/10        | 0.014 ± 0.002                    | LT 0.04                                |
| 04/26/10        | 0.013 ± 0.002                    | LT 0.03                                |
| 05/03/10        | 0.013 ± 0.002                    | LT 0.03                                |
| 05/11/10        | 0.010 ± 0.002                    | LT 0.03                                |
| 05/16/10        | 0.004 ± 0.002                    | LT 0.04                                |
| 05/23/10        | 0.011 ± 0.002                    | LT 0.04                                |
| 05/30/10        | 0.013 ± 0.002                    | LT 0.03                                |
| 06/07/10        | 0.011 ± 0.002                    | LT 0.03                                |
| 06/14/10        | 0.009 ± 0.002                    | LT 0.03                                |
| 06/21/10        | 0.009 ± 0.002                    | LT 0.03                                |
| 06/28/10        | 0.013 ± 0.002                    | LT 0.03                                |

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 07/06/10        | 0.022 ± 0.002                    | LT 0.03                                |
| 07/12/10        | 0.013 ± 0.002                    | LT 1.42                                |
| 07/19/10        | 0.013 ± 0.002                    | LT 0.70                                |
| 07/26/10        | 0.013 ± 0.002                    | LT 0.56                                |
| 08/02/10        | 0.034 ± 0.004*                   | LT 0.57*                               |
| 08/08/10        | 0.024 ± 0.003                    | LT 0.25                                |
| 08/16/10        | 0.017 ± 0.002                    | LT 0.08                                |
| 08/23/10        | 0.021 ± 0.002                    | LT 0.06                                |
| 08/30/10        | 0.014 ± 0.002                    | LT 0.04                                |
| 09/07/10        | 0.016 ± 0.002                    | LT 0.04                                |
| 09/13/10        | 0.009 ± 0.002                    | LT 0.04                                |
| 09/20/10        | 0.013 ± 0.002                    | LT 0.03                                |
| 09/27/10        | 0.019 ± 0.002                    | LT 0.03                                |
| 10/04/10        | 0.012 ± 0.002                    | LT 0.03                                |
| 10/11/10        | 0.028 ± 0.002                    | LT 0.03                                |
| 10/18/10        | 0.022 ± 0.002                    | LT 0.03                                |
| 10/25/10        | 0.019 ± 0.002                    | LT 0.03                                |
| 11/01/10        | 0.012 ± 0.002                    | LT 0.04                                |
| 11/07/10        | 0.009 ± 0.002                    | LT 0.06                                |
| 11/15/10        | 0.027 ± 0.002                    | LT 0.03                                |
| 11/22/10        | 0.029 ± 0.002                    | LT 0.05                                |
| 11/29/10        | 0.020 ± 0.002                    | LT 0.03                                |
| 12/06/10        | 0.015 ± 0.002                    | LT 0.03                                |
| 12/14/10        | 0.019 ± 0.002                    | LT 0.03                                |
| 12/21/10        | 0.015 ± 0.002                    | LT 0.03                                |
| 12/28/10        | 0.011 ± 0.002                    | LT 0.04                                |

LT – Less Than  
 ~~~~ – No Sample  
 * – Based on Sampling Duration

Appendix A

Atmospheric Monitoring
 D. C. Cook
 2010
 Livingston Road Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/05/10 | 0.014 ± 0.002 | LT 0.02 | 07/06/10 | 0.018 ± 0.002 | LT 0.03 |
| 01/11/10 | 0.015 ± 0.002 | LT 0.04 | 07/12/10 | 0.017 ± 0.002 | ~~~~ |
| 01/18/10 | 0.023 ± 0.002 | LT 0.03 | 07/19/10 | 0.011 ± 0.002 | LT 0.69 |
| 01/24/10 | 0.012 ± 0.002 | LT 0.04 | 07/26/10 | 0.012 ± 0.002 | LT 0.56 |
| 02/02/10 | 0.016 ± 0.002 | LT 0.02 | 08/02/10 | 0.016 ± 0.002 | LT 0.28 |
| 02/08/10 | 0.019 ± 0.002 | LT 0.04 | 08/08/10 | 0.019 ± 0.002 | LT 0.25 |
| 02/15/10 | 0.012 ± 0.002 | LT 0.03 | 08/16/10 | 0.015 ± 0.002 | LT 0.08 |
| 02/20/10 | 0.011 ± 0.002 | LT 0.05 | 08/23/10 | 0.021 ± 0.002 | LT 0.06 |
| 03/02/10 | 0.020 ± 0.002 | LT 0.02 | 08/30/10 | 0.014 ± 0.002 | LT 0.04 |
| 03/08/10 | 0.017 ± 0.002 | LT 0.04 | 09/07/10 | 0.014 ± 0.002 | LT 0.04 |
| 03/15/10 | 0.012 ± 0.002 | LT 0.03 | 09/13/10 | 0.010 ± 0.002 | LT 0.04 |
| 03/23/10 | 0.015 ± 0.002 | LT 0.03 | 09/20/10 | 0.014 ± 0.002 | LT 0.03 |
| 03/29/10 | 0.016 ± 0.002 | LT 0.04 | 09/27/10 | 0.017 ± 0.002 | LT 0.03 |
| 04/06/10 | 0.018 ± 0.002 | LT 0.03 | 10/04/10 | 0.014 ± 0.002 | LT 0.03 |
| 04/12/10 | 0.012 ± 0.002 | LT 0.04 | 10/11/10 | 0.026 ± 0.002 | LT 0.03 |
| 04/19/10 | 0.015 ± 0.002 | LT 0.03 | 10/18/10 | 0.017 ± 0.002 | LT 0.03 |
| 04/26/10 | 0.012 ± 0.002 | LT 0.03 | 10/25/10 | 0.015 ± 0.002 | LT 0.03 |
| 05/03/10 | 0.011 ± 0.002 | LT 0.03 | 11/01/10 | 0.012 ± 0.002 | LT 0.04 |
| 05/11/10 | 0.010 ± 0.002 | LT 0.03 | 11/07/10 | 0.009 ± 0.002 | LT 0.06 |
| 05/16/10 | 0.005 ± 0.002 | LT 0.04 | 11/15/10 | 0.029 ± 0.002 | LT 0.03 |
| 05/23/10 | 0.011 ± 0.002 | LT 0.04 | 11/22/10 | 0.030 ± 0.003 | LT 0.05 |
| 05/30/10 | 0.012 ± 0.002 | LT 0.03 | 11/29/10 | 0.018 ± 0.002 | LT 0.03 |
| 06/07/10 | 0.013 ± 0.002 | LT 0.03 | 12/06/10 | 0.011 ± 0.002 | LT 0.03 |
| 06/14/10 | 0.008 ± 0.002 | LT 0.03 | 12/14/10 | 0.019 ± 0.002 | LT 0.03 |
| 06/21/10 | 0.008 ± 0.002 | LT 0.03 | 12/21/10 | 0.015 ± 0.002 | LT 0.03 |
| 06/28/10 | 0.011 ± 0.002 | LT 0.03 | 12/28/10 | 0.010 ± 0.002 | LT 0.04 |

LT – Less Than
 ~~~~ – No Sample

Appendix A

Atmospheric Monitoring  
 D. C. Cook  
 2010  
 Peddy Farm Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 01/05/10        | 0.013 ± 0.002                    | LT 0.03                                |
| 01/11/10        | 0.015 ± 0.002                    | LT 0.04                                |
| 01/18/10        | 0.032 ± 0.003                    | LT 0.03                                |
| 01/24/10        | 0.018 ± 0.002                    | LT 0.04                                |
| 02/02/10        | 0.020 ± 0.002                    | LT 0.02                                |
| 02/08/10        | 0.021 ± 0.002                    | LT 0.04                                |
| 02/15/10        | 0.013 ± 0.002                    | LT 0.03                                |
| 02/20/10        | 0.011 ± 0.002                    | LT 0.05                                |
| 03/02/10        | 0.013 ± 0.001                    | LT 0.02                                |
| 03/08/10        | 0.018 ± 0.002                    | LT 0.04                                |
| 03/15/10        | 0.014 ± 0.002                    | LT 0.03                                |
| 03/23/10        | 0.017 ± 0.002                    | LT 0.03                                |
| 03/29/10        | 0.016 ± 0.002                    | LT 0.04                                |
| 04/06/10        | 0.023 ± 0.002                    | LT 0.03                                |
| 04/12/10        | 0.013 ± 0.002                    | LT 0.04                                |
| 04/19/10        | 0.017 ± 0.002                    | LT 0.04                                |
| 04/26/10        | 0.013 ± 0.002                    | LT 0.03                                |
| 05/03/10        | 0.014 ± 0.002                    | LT 0.03                                |
| 05/11/10        | 0.011 ± 0.002                    | LT 0.03                                |
| 05/16/10        | 0.005 ± 0.002                    | LT 0.04                                |
| 05/23/10        | 0.011 ± 0.002                    | LT 0.04                                |
| 05/30/10        | 0.013 ± 0.002                    | LT 0.03                                |
| 06/07/10        | 0.011 ± 0.002                    | LT 0.03                                |
| 06/14/10        | 0.010 ± 0.002                    | LT 0.04                                |
| 06/21/10        | 0.011 ± 0.002                    | LT 0.03                                |
| 06/28/10        | 0.011 ± 0.002                    | LT 0.03                                |

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 07/06/10        | 0.027 ± 0.002                    | LT 0.03                                |
| 07/12/10        | 0.018 ± 0.002                    | ~~~~                                   |
| 07/19/10        | 0.011 ± 0.002                    | LT 0.70                                |
| 07/26/10        | 0.016 ± 0.002                    | LT 0.56                                |
| 08/02/10        | 0.017 ± 0.002                    | LT 0.29                                |
| 08/08/10        | 0.025 ± 0.003                    | LT 0.25                                |
| 08/16/10        | 0.013 ± 0.002                    | LT 0.08                                |
| 08/23/10        | 0.023 ± 0.002                    | LT 0.06                                |
| 08/30/10        | 0.018 ± 0.002                    | LT 0.04                                |
| 09/07/10        | 0.017 ± 0.002                    | LT 0.04                                |
| 09/13/10        | 0.019 ± 0.004*                   | LT 0.08*                               |
| 09/20/10        | ~~~~                             | ~~~~                                   |
| 09/27/10        | 0.024 ± 0.002                    | LT 0.04                                |
| 10/04/10        | 0.016 ± 0.002                    | LT 0.03                                |
| 10/11/10        | 0.035 ± 0.003                    | LT 0.03                                |
| 10/18/10        | 0.024 ± 0.002                    | LT 0.03                                |
| 10/25/10        | 0.022 ± 0.002                    | LT 0.03                                |
| 11/01/10        | 0.015 ± 0.002                    | LT 0.04                                |
| 11/07/10        | 0.012 ± 0.002                    | LT 0.06                                |
| 11/15/10        | 0.027 ± 0.002                    | LT 0.03                                |
| 11/22/10        | 0.031 ± 0.003                    | LT 0.05                                |
| 11/29/10        | 0.022 ± 0.002                    | LT 0.03                                |
| 12/06/10        | 0.019 ± 0.002                    | LT 0.03                                |
| 12/14/10        | 0.026 ± 0.002                    | LT 0.03                                |
| 12/21/10        | 0.021 ± 0.002                    | LT 0.03                                |
| 12/28/10        | 0.011 ± 0.002                    | LT 0.04                                |

LT – Less Than  
 ~~~~ – No Sample  
 * – Based on Sampling Duration

Appendix A

Atmospheric Monitoring
Fermi 2
2010
Reactor Site Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/07/10 | 0.016 ± 0.002 | LT 0.04 | 07/08/10 | 0.024 ± 0.002 | LT 0.04 |
| 01/14/10 | 0.026 ± 0.002 | LT 0.04 | 07/17/10 | 0.022 ± 0.002 | LT 0.58 |
| 01/21/10 | 0.029 ± 0.003 | LT 0.04 | 07/22/10 | 0.022 ± 0.003 | LT 0.58 |
| 01/28/10 | 0.019 ± 0.002 | LT 0.04 | 07/29/10 | 0.015 ± 0.002 | LT 0.28 |
| 02/04/10 | 0.023 ± 0.002 | LT 0.04 | 08/05/10 | 0.025 ± 0.002 | LT 0.16 |
| 02/11/10 | 0.016 ± 0.002 | LT 0.04 | 08/12/10 | 0.025 ± 0.002 | LT 0.11 |
| 02/18/10 | 0.011 ± 0.002 | LT 0.04 | 08/19/10 | 0.027 ± 0.002 | LT 0.06 |
| 02/25/10 | 0.018 ± 0.002 | LT 0.04 | 08/26/10 | 0.021 ± 0.002 | LT 0.04 |
| 03/04/10 | 0.013 ± 0.002 | LT 0.04 | 09/02/10 | 0.032 ± 0.003 | LT 0.04 |
| 03/11/10 | 0.025 ± 0.002 | LT 0.04 | 09/09/10 | 0.016 ± 0.002 | LT 0.04 |
| 03/18/10 | 0.014 ± 0.002 | LT 0.04 | 09/16/10 | 0.014 ± 0.002 | LT 0.04 |
| 03/25/10 | 0.018 ± 0.002 | LT 0.04 | 09/23/10 | 0.021 ± 0.002 | LT 0.04 |
| 04/01/10 | 0.019 ± 0.002 | LT 0.04 | 09/30/10 | 0.018 ± 0.002 | LT 0.04 |
| 04/08/10 | 0.020 ± 0.002 | LT 0.04 | 10/07/10 | X | LT 0.04 |
| 04/15/10 | 0.018 ± 0.002 | LT 0.04 | 10/14/10 | 0.027 ± 0.002 | LT 0.04 |
| 04/22/10 | 0.015 ± 0.002 | LT 0.04 | 10/21/10 | 0.018 ± 0.002 | LT 0.04 |
| 04/29/10 | 0.016 ± 0.002 | LT 0.04 | 10/28/10 | 0.024 ± 0.002 | LT 0.04 |
| 05/06/10 | 0.015 ± 0.002 | LT 0.04 | 11/04/10 | 0.016 ± 0.002 | LT 0.04 |
| 05/13/10 | 0.018 ± 0.002 | LT 0.04 | 11/10/10 | 0.021 ± 0.002 | LT 0.05 |
| 05/20/10 | 0.012 ± 0.002 | LT 0.04 | 11/18/10 | 0.027 ± 0.002 | LT 0.04 |
| 05/27/10 | 0.015 ± 0.002 | LT 0.04 | 11/24/10 | 0.026 ± 0.003 | LT 0.05 |
| 06/03/10 | 0.014 ± 0.002 | LT 0.04 | 12/02/10 | 0.027 ± 0.002 | LT 0.04 |
| 06/10/10 | 0.015 ± 0.002 | LT 0.04 | 12/09/10 | 0.013 ± 0.002 | LT 0.04 |
| 06/17/10 | 0.014 ± 0.002 | LT 0.04 | 12/16/10 | LT 0.002* | LT 0.08* |
| 06/26/10 | 0.015 ± 0.002 | LT 0.03 | 12/22/10 | ~~~~ | ~~~~ |
| 07/01/10 | 0.012 ± 0.002 | LT 0.06 | 12/30/10 | ~~~~ | ~~~~ |

LT – Less Than
 ~~~~ – No Sample  
 \* – Based on Sampling Duration  
 X – Data Missing

Appendix A  
 Atmospheric Monitoring  
 Fermi 2  
 2010  
 Pointe Aux Peaux Road Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/07/10        | 0.016 ± 0.002                    | LT 0.04                                | 07/08/10        | 0.023 ± 0.002                    | LT 0.04                                |
| 01/14/10        | 0.022 ± 0.002                    | LT 0.04                                | 07/17/10        | 0.039 ± 0.004*                   | LT 1.16*                               |
| 01/21/10        | 0.025 ± 0.002                    | LT 0.04                                | 07/22/10        | 0.017 ± 0.002                    | LT 0.58                                |
| 01/28/10        | 0.019 ± 0.002                    | LT 0.04                                | 07/29/10        | 0.013 ± 0.002                    | LT 0.28                                |
| 02/04/10        | 0.021 ± 0.002                    | LT 0.04                                | 08/05/10        | 0.022 ± 0.002                    | LT 0.15                                |
| 02/11/10        | 0.015 ± 0.002                    | LT 0.04                                | 08/12/10        | 0.020 ± 0.002                    | LT 0.11                                |
| 02/18/10        | 0.010 ± 0.002                    | LT 0.04                                | 08/19/10        | 0.024 ± 0.002                    | LT 0.06                                |
| 02/25/10        | 0.016 ± 0.002                    | LT 0.04                                | 08/26/10        | 0.017 ± 0.002                    | LT 0.04                                |
| 03/04/10        | 0.013 ± 0.002                    | LT 0.04                                | 09/02/10        | 0.027 ± 0.002                    | LT 0.04                                |
| 03/11/10        | 0.025 ± 0.002                    | LT 0.04                                | 09/09/10        | 0.016 ± 0.002                    | LT 0.04                                |
| 03/18/10        | 0.013 ± 0.002                    | LT 0.04                                | 09/16/10        | 0.013 ± 0.002                    | LT 0.04                                |
| 03/25/10        | 0.016 ± 0.002                    | LT 0.04                                | 09/23/10        | 0.016 ± 0.002                    | LT 0.04                                |
| 04/01/10        | 0.018 ± 0.002                    | LT 0.04                                | 09/30/10        | 0.013 ± 0.002                    | LT 0.04                                |
| 04/08/10        | 0.022 ± 0.002*                   | LT 0.09*                               | 10/07/10        | X                                | LT 0.04                                |
| 04/15/10        | 0.016 ± 0.002                    | LT 0.05                                | 10/14/10        | 0.021 ± 0.002                    | LT 0.04                                |
| 04/22/10        | 0.013 ± 0.002                    | LT 0.04                                | 10/21/10        | 0.015 ± 0.002                    | LT 0.04                                |
| 04/29/10        | 0.014 ± 0.002                    | LT 0.04                                | 10/28/10        | 0.022 ± 0.002                    | LT 0.04                                |
| 05/06/10        | 0.014 ± 0.002                    | LT 0.04                                | 11/04/10        | 0.013 ± 0.002                    | LT 0.04                                |
| 05/13/10        | 0.017 ± 0.002                    | LT 0.05                                | 11/10/10        | 0.017 ± 0.002                    | LT 0.05                                |
| 05/20/10        | 0.010 ± 0.002                    | LT 0.04                                | 11/18/10        | 0.023 ± 0.002                    | LT 0.04                                |
| 05/27/10        | 0.013 ± 0.002                    | LT 0.04                                | 11/24/10        | 0.026 ± 0.003                    | LT 0.05                                |
| 06/03/10        | 0.013 ± 0.002                    | LT 0.04                                | 12/02/10        | 0.022 ± 0.002                    | LT 0.04                                |
| 06/10/10        | 0.018 ± 0.002                    | LT 0.04                                | 12/09/10        | 0.011 ± 0.002                    | LT 0.04                                |
| 06/17/10        | 0.013 ± 0.002                    | LT 0.04                                | 12/16/10        | 0.023 ± 0.002                    | LT 0.04                                |
| 06/26/10        | 0.013 ± 0.002                    | LT 0.03                                | 12/22/10        | 0.024 ± 0.002                    | LT 0.05                                |
| 07/01/10        | 0.013 ± 0.002                    | LT 0.06                                | 12/30/10        | 0.011 ± 0.002                    | LT 0.04                                |

LT – Less Than  
 ~~~~ – No Sample  
 * – Based on Sampling Duration
 X – Data Missing

Appendix A

Atmospheric Monitoring
Fermi 2
2010
Nadeau Road Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/07/10 | 0.004 ± 0.001 | LT 0.04 | 07/08/10 | 0.030 ± 0.003 | LT 0.04 |
| 01/14/10 | 0.005 ± 0.001 | LT 0.04 | 07/17/10 | 0.028 ± 0.002 | LT 0.58 |
| 01/21/10 | 0.006 ± 0.002 | LT 0.04 | 07/22/10 | 0.020 ± 0.004* | LT 1.16* |
| 01/28/10 | 0.005 ± 0.001 | LT 0.04 | 07/29/10 | ~~~~ | ~~~~ |
| 02/04/10 | 0.006 ± 0.002 | LT 0.04 | 08/05/10 | ~~~~ | ~~~~ |
| 02/11/10 | 0.003 ± 0.001 | LT 0.04 | 08/12/10 | ~~~~ | ~~~~ |
| 02/18/10 | 0.002 ± 0.001 | LT 0.04 | 08/19/10 | ~~~~ | ~~~~ |
| 02/25/10 | 0.004 ± 0.001 | LT 0.04 | 08/26/10 | ~~~~ | ~~~~ |
| 03/04/10 | 0.003 ± 0.001 | LT 0.04 | 09/02/10 | 0.026 ± 0.002 | LT 0.04 |
| 03/11/10 | 0.005 ± 0.002 | LT 0.04 | 09/09/10 | 0.016 ± 0.002 | LT 0.04 |
| 03/18/10 | 0.003 ± 0.001 | LT 0.04 | 09/16/10 | 0.016 ± 0.002 | LT 0.04 |
| 03/25/10 | 0.005 ± 0.001 | LT 0.04 | 09/23/10 | 0.018 ± 0.002 | LT 0.04 |
| 04/01/10 | 0.005 ± 0.001 | LT 0.04 | 09/30/10 | 0.013 ± 0.002 | LT 0.04 |
| 04/08/10 | 0.003 ± 0.001 | LT 0.04 | 10/07/10 | X | LT 0.04 |
| 04/15/10 | 0.004 ± 0.001 | LT 0.04 | 10/14/10 | 0.025 ± 0.002 | LT 0.04 |
| 04/22/10 | LT 0.001 | LT 0.04 | 10/21/10 | 0.015 ± 0.002 | LT 0.04 |
| 04/29/10 | 0.004 ± 0.001 | LT 0.04 | 10/28/10 | 0.015 ± 0.002 | LT 0.04 |
| 05/06/10 | 0.002 ± 0.001 | LT 0.04 | 11/04/10 | 0.014 ± 0.002 | LT 0.04 |
| 05/13/10 | 0.003 ± 0.001 | LT 0.05 | 11/10/10 | 0.019 ± 0.002 | LT 0.05 |
| 05/20/10 | 0.002 ± 0.001 | LT 0.04 | 11/18/10 | 0.023 ± 0.002 | LT 0.04 |
| 05/27/10 | 0.004 ± 0.001 | LT 0.04 | 11/24/10 | 0.025 ± 0.003 | LT 0.05 |
| 06/03/10 | 0.003 ± 0.001 | LT 0.04 | 12/02/10 | 0.023 ± 0.002 | LT 0.04 |
| 06/10/10 | 0.002 ± 0.001 | LT 0.04 | 12/09/10 | 0.012 ± 0.002 | LT 0.04 |
| 06/17/10 | 0.002 ± 0.001 | LT 0.04 | 12/16/10 | 0.021 ± 0.002 | LT 0.04 |
| 06/26/10 | 0.003 ± 0.001 | LT 0.03 | 12/22/10 | 0.024 ± 0.002 | LT 0.05 |
| 07/01/10 | 0.004 ± 0.002 | LT 0.06 | 12/30/10 | 0.009 ± 0.002 | LT 0.04 |

LT – Less Than
 ~~~~ – No Sample  
 \* – Based on Sampling Duration  
 X – Data Missing



Appendix A

Atmospheric Monitoring  
Fermi 2  
2010  
Dixie Highway Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 01/07/10        | 0.017 ± 0.002                    | LT 0.04                                |
| 01/14/10        | 0.022 ± 0.002                    | LT 0.04                                |
| 01/21/10        | 0.026 ± 0.002                    | LT 0.04                                |
| 01/28/10        | 0.018 ± 0.002                    | LT 0.04                                |
| 02/04/10        | 0.022 ± 0.002                    | LT 0.04                                |
| 02/11/10        | 0.016 ± 0.002                    | LT 0.04                                |
| 02/18/10        | 0.011 ± 0.002                    | LT 0.04                                |
| 02/25/10        | 0.019 ± 0.002                    | LT 0.04                                |
| 03/04/10        | 0.011 ± 0.002                    | LT 0.04                                |
| 03/11/10        | 0.024 ± 0.002                    | LT 0.04                                |
| 03/18/10        | 0.013 ± 0.002                    | LT 0.04                                |
| 03/25/10        | 0.017 ± 0.002                    | LT 0.04                                |
| 04/01/10        | 0.018 ± 0.002                    | LT 0.04                                |
| 04/08/10        | 0.020 ± 0.002                    | LT 0.04                                |
| 04/15/10        | 0.015 ± 0.002                    | LT 0.04                                |
| 04/22/10        | 0.015 ± 0.002                    | LT 0.04                                |
| 04/29/10        | 0.015 ± 0.002                    | LT 0.04                                |
| 05/06/10        | 0.014 ± 0.002                    | LT 0.04                                |
| 05/13/10        | 0.008 ± 0.002                    | LT 0.05                                |
| 05/20/10        | 0.011 ± 0.002                    | LT 0.04                                |
| 05/27/10        | 0.013 ± 0.002                    | LT 0.04                                |
| 06/03/10        | 0.016 ± 0.002                    | LT 0.04                                |
| 06/10/10        | 0.014 ± 0.002                    | LT 0.04                                |
| 06/17/10        | 0.012 ± 0.002                    | LT 0.04                                |
| 06/26/10        | 0.015 ± 0.002                    | LT 0.03                                |
| 07/01/10        | 0.011 ± 0.002                    | LT 0.06                                |

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 07/08/10        | 0.023 ± 0.002                    | LT 0.04                                |
| 07/17/10        | 0.024 ± 0.002                    | LT 0.58                                |
| 07/22/10        | 0.022 ± 0.002                    | LT 0.058                               |
| 07/29/10        | 0.017 ± 0.002                    | LT 0.28                                |
| 08/05/10        | 0.024 ± 0.002                    | LT 0.15                                |
| 08/12/10        | 0.021 ± 0.002                    | LT 0.11                                |
| 08/19/10        | 0.023 ± 0.002                    | LT 0.06                                |
| 08/26/10        | 0.018 ± 0.002                    | LT 0.04                                |
| 09/02/10        | 0.027 ± 0.002                    | LT 0.04                                |
| 09/09/10        | 0.017 ± 0.002                    | LT 0.04                                |
| 09/16/10        | 0.013 ± 0.002                    | LT 0.04                                |
| 09/23/10        | 0.017 ± 0.002                    | LT 0.04                                |
| 09/30/10        | 0.015 ± 0.002                    | LT 0.04                                |
| 10/07/10        | X                                | LT 0.04                                |
| 10/14/10        | 0.024 ± 0.002                    | LT 0.04                                |
| 10/21/10        | 0.020 ± 0.002                    | LT 0.04                                |
| 10/28/10        | 0.022 ± 0.002                    | LT 0.04                                |
| 11/04/10        | 0.014 ± 0.002                    | LT 0.04                                |
| 11/10/10        | 0.019 ± 0.002                    | LT 0.05                                |
| 11/18/10        | 0.027 ± 0.002                    | LT 0.04                                |
| 11/24/10        | 0.024 ± 0.003                    | LT 0.05                                |
| 12/02/10        | 0.025 ± 0.002                    | LT 0.04                                |
| 12/09/10        | 0.013 ± 0.002                    | LT 0.04                                |
| 12/16/10        | 0.023 ± 0.002                    | LT 0.04                                |
| 12/22/10        | 0.018 ± 0.002                    | LT 0.05                                |
| 12/30/10        | 0.011 ± 0.002                    | LT 0.04                                |

LT - Less Than  
 ~~~~ - No Sample  
 X - Data Missing

Appendix A

Atmospheric Monitoring
Fermi 2
2010
Fix Farm Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 01/07/10 | 0.014 ± 0.002 | LT 0.04 |
| 01/14/10 | 0.022 ± 0.002 | LT 0.04 |
| 01/21/10 | 0.026 ± 0.002 | LT 0.04 |
| 01/28/10 | 0.019 ± 0.002 | LT 0.04 |
| 02/04/10 | 0.021 ± 0.002 | LT 0.04 |
| 02/11/10 | 0.016 ± 0.002 | LT 0.04 |
| 02/18/10 | 0.009 ± 0.002 | LT 0.04 |
| 02/25/10 | 0.016 ± 0.002 | LT 0.04 |
| 03/04/10 | 0.011 ± 0.002 | LT 0.04 |
| 03/11/10 | 0.024 ± 0.002 | LT 0.04 |
| 03/18/10 | 0.014 ± 0.002 | LT 0.04 |
| 03/25/10 | 0.017 ± 0.002 | LT 0.04 |
| 04/01/10 | 0.017 ± 0.002 | LT 0.04 |
| 04/08/10 | 0.018 ± 0.002 | LT 0.04 |
| 04/15/10 | 0.013 ± 0.002 | LT 0.04 |
| 04/22/10 | 0.013 ± 0.002 | LT 0.04 |
| 04/29/10 | 0.015 ± 0.002 | LT 0.04 |
| 05/06/10 | 0.014 ± 0.002 | LT 0.04 |
| 05/13/10 | 0.009 ± 0.002 | LT 0.05 |
| 05/20/10 | 0.010 ± 0.002 | LT 0.04 |
| 05/27/10 | 0.013 ± 0.002 | LT 0.04 |
| 06/03/10 | 0.013 ± 0.002 | LT 0.04 |
| 06/10/10 | 0.014 ± 0.002 | LT 0.04 |
| 06/17/10 | 0.012 ± 0.002 | LT 0.04 |
| 06/26/10 | 0.016 ± 0.002 | LT 0.03 |
| 07/01/10 | 0.009 ± 0.002 | LT 0.06 |

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 07/08/10 | 0.025 ± 0.002 | LT 0.04 |
| 07/17/10 | 0.023 ± 0.002 | LT 0.59 |
| 07/22/10 | 0.021 ± 0.002 | LT 0.58 |
| 07/29/10 | 0.014 ± 0.002 | LT 0.28 |
| 08/05/10 | 0.023 ± 0.002 | LT 0.16 |
| 08/12/10 | 0.021 ± 0.002 | LT 0.11 |
| 08/19/10 | 0.025 ± 0.002 | LT 0.06 |
| 08/26/10 | 0.019 ± 0.002 | LT 0.04 |
| 09/02/10 | 0.030 ± 0.0023 | LT 0.04 |
| 09/09/10 | 0.018 ± 0.002 | LT 0.04 |
| 09/16/10 | 0.014 ± 0.002 | LT 0.04 |
| 09/23/10 | 0.020 ± 0.002 | LT 0.04 |
| 09/30/10 | 0.017 ± 0.002 | LT 0.04 |
| 10/07/10 | X | LT 0.04 |
| 10/14/10 | 0.025 ± 0.002 | LT 0.04 |
| 10/21/10 | 0.019 ± 0.002 | LT 0.04 |
| 10/28/10 | 0.021 ± 0.002 | LT 0.04 |
| 11/04/10 | 0.017 ± 0.002 | LT 0.04 |
| 11/10/10 | 0.019 ± 0.002 | LT 0.05 |
| 11/18/10 | 0.025 ± 0.002 | LT 0.04 |
| 11/24/10 | 0.028 ± 0.003 | LT 0.05 |
| 12/02/10 | 0.027 ± 0.002 | LT 0.04 |
| 12/09/10 | 0.012 ± 0.002 | LT 0.04 |
| 12/16/10 | 0.027 ± 0.002 | LT 0.04 |
| 12/22/10 | 0.028 ± 0.002 | LT 0.05 |
| 12/30/10 | 0.010 ± 0.002 | LT 0.04 |

LT - Less Than
 ~~~~ - No Sample  
 X - Data Missing

## Appendix A

### Atmospheric Monitoring 2010 Lansing Background Reference Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/04/10        | 0.014 ± 0.002                    | LT 0.03                                | 07/06/10        | 0.016 ± 0.002                    | LT 0.02                                |
| 01/11/10        | 0.011 ± 0.002                    | LT 0.02                                | 07/12/10        | 0.020 ± 0.002                    | LT 0.03                                |
| 01/19/10        | 0.029 ± 0.002                    | LT 0.02                                | 07/19/10        | 0.023 ± 0.002                    | LT 0.07                                |
| 01/25/10        | 0.014 ± 0.002                    | LT 0.03                                | 07/26/10        | 0.014 ± 0.002                    | LT 0.15                                |
| 02/01/10        | 0.015 ± 0.002                    | LT 0.03                                | 08/02/10        | ~~~~                             | ~~~~                                   |
| 02/08/10        | 0.022 ± 0.002                    | LT 0.02                                | 08/09/10        | 0.022 ± 0.002                    | LT 0.05                                |
| 02/16/10        | 0.010 ± 0.002                    | LT 0.02                                | 08/16/10        | 0.023 ± 0.002                    | LT 0.02                                |
| 02/25/10        | 0.008 ± 0.001                    | LT 0.01                                | 08/23/10        | 0.020 ± 0.002                    | LT 0.03                                |
| 03/01/10        | 0.011 ± 0.002                    | LT 0.02                                | 08/30/10        | 0.018 ± 0.002                    | LT 0.03                                |
| 03/08/10        | 0.016 ± 0.002                    | LT 0.03                                | 09/07/10        | 0.018 ± 0.002                    | LT 0.02                                |
| 03/15/10        | 0.014 ± 0.002                    | LT 0.02                                | 09/14/10        | 0.009 ± 0.002                    | LT 0.02                                |
| 03/22/10        | 0.020 ± 0.003*                   | LT 0.05*                               | 09/20/10        | 0.012 ± 0.002                    | LT 0.03                                |
| 03/29/10        | ~~~~                             | ~~~~                                   | 09/27/10        | 0.021 ± 0.002                    | LT 0.02                                |
| 04/05/10        | ~~~~                             | ~~~~                                   | 10/04/10        | 0.009 ± 0.002                    | LT 0.03                                |
| 04/12/10        | 0.014 ± 0.003                    | LT 0.05                                | 10/11/10        | X                                | LT 0.02                                |
| 04/19/10        | 0.021 ± 0.002                    | LT 0.02                                | 10/18/10        | 0.017 ± 0.002                    | LT 0.03                                |
| 04/26/10        | 0.019 ± 0.002                    | LT 0.03                                | 10/25/10        | 0.023 ± 0.002                    | LT 0.02                                |
| 05/03/10        | 0.013 ± 0.002                    | LT 0.03                                | 11/01/10        | 0.016 ± 0.002                    | LT 0.02                                |
| 05/10/10        | 0.012 ± 0.003*                   | LT 0.05*                               | 11/08/10        | 0.013 ± 0.002                    | LT 0.03                                |
| 05/17/10        | 0.007 ± 0.001                    | LT 0.02                                | 11/15/10        | 0.029 ± 0.003                    | LT 0.03                                |
| 05/24/10        | 0.016 ± 0.002                    | LT 0.02                                | 11/22/10        | 0.026 ± 0.002                    | LT 0.02                                |
| 06/01/10        | 0.015 ± 0.002                    | LT 0.02                                | 11/29/10        | 0.018 ± 0.002                    | LT 0.03                                |
| 06/07/10        | 0.016 ± 0.004*                   | LT 0.05*                               | 12/06/10        | 0.015 ± 0.002                    | LT 0.02                                |
| 06/14/10        | 0.010 ± 0.002                    | LT 0.03                                | 12/13/10        | 0.021 ± 0.002                    | LT 0.03                                |
| 06/21/10        | 0.015 ± 0.002                    | LT 0.02                                | 12/20/10        | 0.017 ± 0.002                    | LT 0.03                                |
| 06/28/10        | 0.016 ± 0.002                    | LT 0.02                                | 12/27/10        | 0.008 ± 0.002                    | LT 0.02                                |

LT – Less Than  
 ~~~~ – No Sample  
 * – Based on Sampling Duration
 X – Data Missing

Appendix A

Atmospheric Monitoring
Palisades
2011
Reactor Site Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 01/03/11 | 0.024 ± 0.003 | LT 0.04 |
| 01/10/11 | 0.034 ± 0.003 | LT 0.08 |
| 01/17/11 | 0.011 ± 0.003* | LT 0.07* |
| 01/24/11 | ~~~~ | ~~~~ |
| 01/31/11 | ~~~~ | ~~~~ |
| 02/07/11 | ~~~~ | ~~~~ |
| 02/14/11 | 0.012 ± 0.002 | LT 0.03 |
| 02/20/11 | 0.022 ± 0.002 | LT 0.04 |
| 02/28/11 | 0.015 ± 0.002 | LT 0.03 |
| 03/07/11 | 0.022 ± 0.002 | LT 0.03 |
| 03/14/11 | 0.021 ± 0.002 | LT 0.03 |
| 03/21/11 | 0.023 ± 0.002 | LT 0.02 |
| 03/28/11 | 0.036 ± 0.003 | LT 0.03 |
| 04/04/11 | 0.032 ± 0.002 | 0.06 ± 0.04 |
| 04/11/11 | 0.022 ± 0.002 | 0.04 ± 0.03 |
| 04/18/11 | 0.019 ± 0.002 | LT 0.03 |
| 04/25/11 | 0.016 ± 0.002 | LT 0.05 |
| 05/02/11 | 0.012 ± 0.002 | LT 0.03 |
| 05/09/11 | 0.013 ± 0.002 | LT 0.03 |
| 05/15/11 | 0.016 ± 0.002 | LT 0.04 |
| 05/22/11 | 0.012 ± 0.002 | LT 0.03 |
| 05/30/11 | 0.011 ± 0.002 | LT 0.03 |
| 06/05/11 | 0.022 ± 0.003 | LT 0.04 |
| 06/12/11 | 0.019 ± 0.002 | LT 0.04 |
| 06/21/11 | 0.014 ± 0.002 | LT 0.03 |
| 06/26/11 | 0.014 ± 0.002 | LT 0.05 |

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 07/04/11 | 0.018 ± 0.002 | LT 0.03 |
| 07/10/11 | 0.014 ± 0.002 | LT 0.04 |
| 07/18/11 | 0.026 ± 0.002 | LT 0.03 |
| 07/25/11 | 0.028 ± 0.002 | LT 0.03 |
| 07/31/11 | 0.017 ± 0.002 | LT 0.04 |
| 08/07/11 | 0.028 ± 0.002 | LT 0.03 |
| 08/15/11 | 0.018 ± 0.002 | LT 0.03 |
| 08/22/11 | 0.020 ± 0.002 | LT 0.03 |
| 08/29/11 | 0.018 ± 0.002 | LT 0.03 |
| 09/06/11 | 0.028 ± 0.002 | LT 0.03 |
| 09/12/11 | ~~~~ | ~~~~ |
| 09/19/11 | ~~~~ | ~~~~ |
| 09/26/11 | ~~~~ | ~~~~ |
| 10/03/11 | ~~~~ | ~~~~ |
| 10/09/11 | ~~~~ | ~~~~ |
| 10/17/11 | ~~~~ | ~~~~ |
| 10/23/11 | ~~~~ | ~~~~ |
| 10/31/11 | ~~~~ | ~~~~ |
| 11/07/11 | ~~~~ | ~~~~ |
| 11/14/11 | ~~~~ | ~~~~ |
| 11/21/11 | ~~~~ | ~~~~ |
| 11/28/11 | 0.013 ± 0.002 | LT 0.03 |
| 12/05/11 | 0.015 ± 0.002 | X |
| 12/12/11 | 0.020 ± 0.002 | LT 0.03 |
| 12/19/11 | 0.026 ± 0.002 | LT 0.03 |
| 12/26/11 | 0.016 ± 0.002 | LT 0.06 |

LT - Less Than
 ~~~~ - No Sample  
 \* - Based on Sampling Duration  
 X - Data Missing

Appendix A

Atmospheric Monitoring  
Palisades  
2011  
Covert Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 01/03/11        | 0.019 ± 0.002                    | LT 0.04                                |
| 01/10/11        | 0.025 ± 0.002                    | LT 0.08                                |
| 01/17/11        | 0.013 ± 0.002                    | LT 0.04                                |
| 01/24/11        | 0.017 ± 0.002                    | LT 0.03                                |
| 01/31/11        | 0.016 ± 0.002                    | LT 0.04                                |
| 02/07/11        | 0.017 ± 0.002                    | LT 0.03                                |
| 02/14/11        | 0.015 ± 0.002                    | LT 0.03                                |
| 02/20/11        | 0.004 ± 0.002                    | LT 0.04                                |
| 02/28/11        | 0.002 ± 0.001                    | LT 0.03                                |
| 03/07/11        | 0.015 ± 0.002                    | LT 0.03                                |
| 03/14/11        | 0.014 ± 0.002                    | LT 0.03                                |
| 03/21/11        | 0.015 ± 0.002                    | LT 0.02                                |
| 03/28/11        | 0.022 ± 0.002                    | 0.05 ± 0.03                            |
| 04/04/11        | 0.023 ± 0.002                    | LT 0.03                                |
| 04/11/11        | 0.013 ± 0.002                    | 0.04 ± 0.03                            |
| 04/18/11        | 0.014 ± 0.002                    | LT 0.03                                |
| 04/25/11        | 0.009 ± 0.002                    | LT 0.05                                |
| 05/02/11        | 0.010 ± 0.002                    | LT 0.03                                |
| 05/09/11        | 0.010 ± 0.002                    | LT 0.03                                |
| 05/15/11        | 0.010 ± 0.002                    | LT 0.04                                |
| 05/22/11        | 0.007 ± 0.002                    | LT 0.03                                |
| 05/30/11        | 0.008 ± 0.001                    | LT 0.03                                |
| 06/05/11        | 0.015 ± 0.002                    | LT 0.04                                |
| 06/12/11        | 0.011 ± 0.002                    | LT 0.04                                |
| 06/21/11        | 0.008 ± 0.001                    | LT 0.03                                |
| 06/26/11        | 0.011 ± 0.002                    | LT 0.05                                |

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 07/04/11        | 0.011 ± 0.002                    | LT 0.03                                |
| 07/10/11        | 0.010 ± 0.002                    | LT 0.04                                |
| 07/18/11        | 0.018 ± 0.002                    | LT 0.03                                |
| 07/25/11        | 0.019 ± 0.002                    | LT 0.03                                |
| 07/31/11        | 0.011 ± 0.002                    | LT 0.04                                |
| 08/07/11        | 0.016 ± 0.002                    | LT 0.03                                |
| 08/15/11        | 0.012 ± 0.002                    | LT 0.03                                |
| 08/22/11        | 0.013 ± 0.002                    | LT 0.03                                |
| 08/29/11        | 0.013 ± 0.002                    | LT 0.03                                |
| 09/06/11        | 0.018 ± 0.002                    | LT 0.03                                |
| 09/12/11        | 0.012 ± 0.002                    | LT 0.03                                |
| 09/19/11        | 0.011 ± 0.002                    | LT 0.03                                |
| 09/26/11        | 0.011 ± 0.002                    | LT 0.03                                |
| 10/03/11        | 0.011 ± 0.002                    | LT 0.03                                |
| 10/09/11        | 0.026 ± 0.003                    | LT 0.04                                |
| 10/17/11        | 0.024 ± 0.002                    | LT 0.03                                |
| 10/23/11        | 0.009 ± 0.002                    | LT 0.04                                |
| 10/31/11        | 0.017 ± 0.002                    | LT 0.03                                |
| 11/07/11        | 0.020 ± 0.002                    | LT 0.03                                |
| 11/14/11        | 0.020 ± 0.002                    | LT 0.04                                |
| 11/21/11        | 0.019 ± 0.002                    | LT 0.05                                |
| 11/28/11        | 0.013 ± 0.002                    | LT 0.03                                |
| 12/05/11        | 0.012 ± 0.002                    | X                                      |
| 12/12/11        | 0.018 ± 0.002                    | LT 0.03                                |
| 12/19/11        | 0.024 ± 0.002                    | LT 0.03                                |
| 12/26/11        | 0.015 ± 0.002                    | LT 0.06                                |

LT - Less Than  
 ~~~~ - No Sample  
 * - Based on Sampling Duration
 X - Data Missing

Appendix A

Atmospheric Monitoring
Palisades
2011
South Haven Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 01/03/11 | 0.023 ± 0.002 | LT 0.04 |
| 01/10/11 | 0.031 ± 0.003 | LT 0.08 |
| 01/17/11 | 0.015 ± 0.002 | LT 0.04 |
| 01/24/11 | 0.022 ± 0.002 | LT 0.03 |
| 01/31/11 | 0.018 ± 0.002 | LT 0.04 |
| 02/07/11 | 0.017 ± 0.002 | LT 0.03 |
| 02/14/11 | 0.018 ± 0.002 | LT 0.03 |
| 02/20/11 | 0.034 ± 0.004* | LT 0.07* |
| 02/28/11 | 0.014 ± 0.002 | LT 0.03 |
| 03/07/11 | 0.018 ± 0.002 | LT 0.03 |
| 03/14/11 | 0.016 ± 0.002 | LT 0.03 |
| 03/21/11 | 0.015 ± 0.002 | LT 0.02 |
| 03/28/11 | 0.031 ± 0.003 | LT 0.04 |
| 04/04/11 | 0.028 ± 0.002 | 0.05 ± 0.04 |
| 04/11/11 | 0.020 ± 0.002 | LT 0.03 |
| 04/18/11 | 0.015 ± 0.002 | LT 0.03 |
| 04/25/11 | 0.010 ± 0.002 | LT 0.05 |
| 05/02/11 | 0.011 ± 0.002 | LT 0.03 |
| 05/09/11 | 0.012 ± 0.002 | LT 0.03 |
| 05/15/11 | 0.016 ± 0.002 | LT 0.04 |
| 05/22/11 | 0.010 ± 0.002 | LT 0.03 |
| 05/30/11 | 0.008 ± 0.001 | LT 0.03 |
| 06/05/11 | 0.018 ± 0.002 | LT 0.04 |
| 06/12/11 | 0.019 ± 0.002 | LT 0.04 |
| 06/21/11 | 0.011 ± 0.002 | LT 0.03 |
| 06/26/11 | 0.013 ± 0.002 | LT 0.05 |

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 07/04/11 | 0.013 ± 0.002 | LT 0.03 |
| 07/10/11 | 0.010 ± 0.002 | LT 0.04 |
| 07/18/11 | 0.021 ± 0.002 | LT 0.03 |
| 07/25/11 | 0.024 ± 0.002 | LT 0.03 |
| 07/31/11 | 0.013 ± 0.002 | LT 0.04 |
| 08/07/11 | 0.022 ± 0.002 | LT 0.03 |
| 08/15/11 | 0.016 ± 0.002 | LT 0.03 |
| 08/22/11 | 0.016 ± 0.002 | LT 0.03 |
| 08/29/11 | 0.015 ± 0.002 | LT 0.03 |
| 09/06/11 | 0.022 ± 0.002 | LT 0.03 |
| 09/12/11 | 0.014 ± 0.002 | LT 0.03 |
| 09/19/11 | 0.011 ± 0.002 | LT 0.03 |
| 09/26/11 | 0.016 ± 0.002 | LT 0.03 |
| 10/03/11 | 0.015 ± 0.002 | LT 0.03 |
| 10/09/11 | 0.030 ± 0.003 | LT 0.04 |
| 10/17/11 | 0.030 ± 0.002 | LT 0.03 |
| 10/23/11 | 0.010 ± 0.002 | LT 0.04 |
| 10/31/11 | 0.019 ± 0.002 | LT 0.03 |
| 11/07/11 | 0.026 ± 0.002 | LT 0.03 |
| 11/14/11 | 0.022 ± 0.002 | LT 0.03 |
| 11/21/11 | 0.023 ± 0.002 | LT 0.05 |
| 11/28/11 | 0.015 ± 0.002 | LT 0.03 |
| 12/05/11 | 0.028 ± 0.004 | X |
| 12/12/11 | 0.021 ± 0.002 | LT 0.03 |
| 12/19/11 | 0.029 ± 0.002 | LT 0.03 |
| 12/26/11 | 0.020 ± 0.002 | LT 0.06 |

LT - Less Than
 ~~~~ - No Sample  
 \* - Based on Sampling Duration  
 X - Data Missing

Appendix A

Atmospheric Monitoring  
 D. C. Cook  
 2011  
 Reactor Site Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 01/03/11        | 0.022 ± 0.002                    | LT 0.04                                |
| 01/10/11        | 0.031 ± 0.003                    | LT 0.08                                |
| 01/17/11        | 0.017 ± 0.002                    | LT 0.04                                |
| 01/24/11        | 0.020 ± 0.002                    | LT 0.03                                |
| 01/31/11        | 0.021 ± 0.002                    | LT 0.04                                |
| 02/07/11        | 0.019 ± 0.002                    | LT 0.03                                |
| 02/14/11        | 0.019 ± 0.002                    | LT 0.03                                |
| 02/20/11        | 0.017 ± 0.002                    | LT 0.04                                |
| 02/28/11        | 0.013 ± 0.002                    | LT 0.03                                |
| 03/07/11        | 0.012 ± 0.002                    | LT 0.03                                |
| 03/14/11        | 0.013 ± 0.002                    | LT 0.09                                |
| 03/21/11        | 0.015 ± 0.002                    | LT 0.05                                |
| 03/28/11        | 0.023 ± 0.002                    | LT 0.03                                |
| 04/04/11        | 0.025 ± 0.002                    | 0.05 ± 0.04                            |
| 04/11/11        | 0.013 ± 0.002                    | LT 0.03                                |
| 04/18/11        | 0.011 ± 0.002                    | LT 0.03                                |
| 04/25/11        | 0.011 ± 0.002                    | LT 0.05                                |
| 05/02/11        | 0.008 ± 0.002                    | LT 0.03                                |
| 05/09/11        | 0.009 ± 0.002                    | LT 0.03                                |
| 05/15/11        | 0.011 ± 0.002                    | LT 0.04                                |
| 05/22/11        | 0.009 ± 0.002                    | LT 0.03                                |
| 05/30/11        | 0.006 ± 0.001                    | LT 0.03                                |
| 06/05/11        | 0.015 ± 0.002                    | LT 0.04                                |
| 06/12/11        | 0.015 ± 0.002                    | LT 0.04                                |
| 06/21/11        | 0.008 ± 0.001                    | LT 0.03                                |
| 06/26/11        | 0.010 ± 0.002                    | LT 0.05                                |

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 07/04/11        | 0.013 ± 0.002                    | LT 0.03                                |
| 07/10/11        | 0.010 ± 0.002                    | LT 0.04                                |
| 07/18/11        | 0.018 ± 0.002                    | LT 0.03                                |
| 07/25/11        | 0.019 ± 0.002                    | LT 0.03                                |
| 07/31/11        | 0.013 ± 0.002                    | LT 0.04                                |
| 08/07/11        | 0.023 ± 0.002                    | LT 0.03                                |
| 08/15/11        | 0.013 ± 0.002                    | LT 0.03                                |
| 08/22/11        | 0.018 ± 0.002                    | LT 0.03                                |
| 08/29/11        | 0.015 ± 0.002                    | LT 0.03                                |
| 09/06/11        | 0.020 ± 0.002                    | LT 0.03                                |
| 09/12/11        | 0.016 ± 0.002                    | LT 0.03                                |
| 09/19/11        | 0.011 ± 0.002                    | LT 0.03                                |
| 09/26/11        | 0.012 ± 0.002                    | LT 0.03                                |
| 10/03/11        | 0.011 ± 0.002                    | LT 0.03                                |
| 10/09/11        | 0.023 ± 0.003                    | LT 0.04                                |
| 10/17/11        | 0.026 ± 0.002                    | LT 0.03                                |
| 10/23/11        | 0.008 ± 0.002                    | LT 0.05                                |
| 10/31/11        | 0.014 ± 0.002                    | LT 0.03                                |
| 11/07/11        | 0.018 ± 0.002                    | LT 0.03                                |
| 11/14/11        | 0.018 ± 0.002                    | LT 0.03                                |
| 11/21/11        | 0.016 ± 0.002                    | LT 0.05                                |
| 11/28/11        | 0.011 ± 0.002                    | LT 0.03                                |
| 12/05/11        | 0.010 ± 0.002                    | LT 0.03                                |
| 12/12/11        | 0.015 ± 0.002                    | LT 0.05                                |
| 12/19/11        | 0.021 ± 0.002                    | LT 0.03                                |
| 12/26/11        | 0.015 ± 0.002                    | LT 0.06                                |

LT – Less Than

Appendix A

Atmospheric Monitoring  
 D. C. Cook  
 2011  
 Bridgman Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 01/03/11        | 0.019 ± 0.002                    | LT 0.04                                |
| 01/10/11        | 0.027 ± 0.002                    | LT 0.08                                |
| 01/17/11        | 0.017 ± 0.002                    | LT 0.04                                |
| 01/24/11        | 0.023 ± 0.002                    | LT 0.03                                |
| 01/31/11        | 0.021 ± 0.002                    | LT 0.04                                |
| 02/07/11        | 0.017 ± 0.002                    | LT 0.03                                |
| 02/14/11        | 0.012 ± 0.002                    | LT 0.03                                |
| 02/20/11        | 0.016 ± 0.002                    | LT 0.04                                |
| 02/28/11        | 0.011 ± 0.002                    | LT 0.03                                |
| 03/07/11        | 0.014 ± 0.002                    | LT 0.03                                |
| 03/14/11        | 0.013 ± 0.002                    | LT 0.09                                |
| 03/21/11        | 0.014 ± 0.002                    | LT 0.05                                |
| 03/28/11        | 0.018 ± 0.002                    | LT 0.03                                |
| 04/04/11        | 0.022 ± 0.002                    | 0.04 ± 0.04                            |
| 04/11/11        | 0.012 ± 0.002                    | LT 0.03                                |
| 04/18/11        | 0.013 ± 0.002                    | LT 0.03                                |
| 04/25/11        | 0.010 ± 0.002                    | LT 0.05                                |
| 05/02/11        | 0.008 ± 0.002                    | LT 0.03                                |
| 05/09/11        | 0.009 ± 0.002                    | LT 0.03                                |
| 05/15/11        | 0.010 ± 0.002                    | LT 0.04                                |
| 05/22/11        | 0.007 ± 0.002                    | LT 0.03                                |
| 05/30/11        | 0.007 ± 0.001                    | LT 0.03                                |
| 06/05/11        | 0.012 ± 0.002                    | LT 0.04                                |
| 06/12/11        | 0.011 ± 0.002                    | LT 0.04                                |
| 06/21/11        | 0.005 ± 0.001                    | LT 0.03                                |
| 06/26/11        | 0.010 ± 0.002                    | LT 0.05                                |

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 07/04/11        | 0.010 ± 0.002                    | LT 0.03                                |
| 07/10/11        | 0.007 ± 0.002                    | LT 0.05                                |
| 07/18/11        | 0.023 ± 0.002                    | LT 0.03                                |
| 07/25/11        | 0.013 ± 0.002                    | LT 0.03                                |
| 07/31/11        | 0.010 ± 0.002                    | LT 0.04                                |
| 08/07/11        | 0.016 ± 0.002                    | LT 0.03                                |
| 08/15/11        | 0.010 ± 0.002                    | LT 0.03                                |
| 08/22/11        | 0.014 ± 0.002                    | LT 0.03                                |
| 08/29/11        | 0.010 ± 0.002                    | LT 0.03                                |
| 09/06/11        | 0.016 ± 0.002                    | LT 0.03                                |
| 09/12/11        | 0.014 ± 0.002                    | LT 0.03                                |
| 09/19/11        | 0.007 ± 0.002                    | LT 0.03                                |
| 09/26/11        | 0.010 ± 0.002                    | LT 0.03                                |
| 10/03/11        | 0.010 ± 0.002                    | LT 0.03                                |
| 10/09/11        | 0.023 ± 0.003                    | LT 0.04                                |
| 10/17/11        | 0.020 ± 0.002                    | LT 0.03                                |
| 10/23/11        | 0.006 ± 0.002                    | LT 0.05                                |
| 10/31/11        | 0.013 ± 0.002                    | LT 0.03                                |
| 11/07/11        | 0.013 ± 0.002                    | LT 0.03                                |
| 11/14/11        | 0.012 ± 0.002                    | LT 0.03                                |
| 11/21/11        | 0.012 ± 0.002                    | LT 0.05                                |
| 11/28/11        | 0.007 ± 0.001                    | LT 0.03                                |
| 12/05/11        | 0.010 ± 0.002                    | LT 0.03                                |
| 12/12/11        | 0.013 ± 0.002                    | LT 0.05                                |
| 12/19/11        | 0.027 ± 0.002                    | LT 0.03                                |
| 12/26/11        | 0.013 ± 0.002                    | LT 0.06                                |

LT – Less Than



Appendix A

Atmospheric Monitoring  
 D. C. Cook  
 2011  
 Stevensville Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 01/03/11        | 0.015 ± 0.002                    | LT 0.04                                |
| 01/10/11        | 0.029 ± 0.002                    | LT 0.08                                |
| 01/17/11        | 0.028 ± 0.004*                   | LT 0.07*                               |
| 01/24/11        | 0.022 ± 0.002                    | LT 0.03                                |
| 01/31/11        | 0.021 ± 0.002                    | LT 0.04                                |
| 02/07/11        | 0.018 ± 0.002                    | LT 0.03                                |
| 02/14/11        | 0.017 ± 0.002                    | LT 0.03                                |
| 02/20/11        | 0.016 ± 0.002                    | LT 0.04                                |
| 02/28/11        | 0.014 ± 0.002                    | LT 0.03                                |
| 03/07/11        | 0.013 ± 0.002                    | LT 0.03                                |
| 03/14/11        | 0.012 ± 0.002                    | LT 0.09                                |
| 03/21/11        | 0.015 ± 0.002                    | LT 0.05                                |
| 03/28/11        | 0.018 ± 0.002                    | 0.05 ± 0.03                            |
| 04/04/11        | 0.026 ± 0.002                    | LT 0.03                                |
| 04/11/11        | 0.015 ± 0.002                    | LT 0.03                                |
| 04/18/11        | 0.017 ± 0.002                    | LT 0.03                                |
| 04/25/11        | 0.010 ± 0.002                    | LT 0.05                                |
| 05/02/11        | 0.011 ± 0.002                    | LT 0.03                                |
| 05/09/11        | 0.011 ± 0.002                    | LT 0.03                                |
| 05/15/11        | 0.012 ± 0.002                    | LT 0.04                                |
| 05/22/11        | 0.010 ± 0.002                    | LT 0.03                                |
| 05/30/11        | 0.009 ± 0.001                    | LT 0.03                                |
| 06/05/11        | 0.016 ± 0.002                    | LT 0.04                                |
| 06/12/11        | 0.013 ± 0.002                    | LT 0.04                                |
| 06/21/11        | 0.010 ± 0.001                    | LT 0.03                                |
| 06/26/11        | 0.014 ± 0.002                    | LT 0.05                                |

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 07/04/11        | 0.014 ± 0.002                    | LT 0.03                                |
| 07/10/11        | 0.011 ± 0.002                    | LT 0.04                                |
| 07/18/11        | 0.016 ± 0.002                    | LT 0.03                                |
| 07/25/11        | 0.017 ± 0.002                    | LT 0.03                                |
| 07/31/11        | 0.017 ± 0.002                    | LT 0.04                                |
| 08/07/11        | 0.022 ± 0.002                    | LT 0.03                                |
| 08/15/11        | 0.014 ± 0.002                    | LT 0.03                                |
| 08/22/11        | 0.019 ± 0.002                    | LT 0.03                                |
| 08/29/11        | 0.017 ± 0.002                    | LT 0.03                                |
| 09/06/11        | 0.022 ± 0.002                    | LT 0.03                                |
| 09/12/11        | 0.020 ± 0.002                    | LT 0.03                                |
| 09/19/11        | 0.012 ± 0.002                    | LT 0.03                                |
| 09/26/11        | 0.015 ± 0.002                    | LT 0.03                                |
| 10/03/11        | 0.014 ± 0.002                    | LT 0.03                                |
| 10/09/11        | 0.032 ± 0.003                    | LT 0.04                                |
| 10/17/11        | 0.027 ± 0.002                    | LT 0.03                                |
| 10/23/11        | 0.011 ± 0.002                    | LT 0.05                                |
| 10/31/11        | 0.038 ± 0.004*                   | LT 0.06*                               |
| 11/07/11        | 0.023 ± 0.002                    | LT 0.03                                |
| 11/14/11        | 0.019 ± 0.002                    | LT 0.03                                |
| 11/21/11        | 0.022 ± 0.002                    | LT 0.05                                |
| 11/28/11        | 0.014 ± 0.002                    | LT 0.03                                |
| 12/05/11        | 0.013 ± 0.002                    | LT 0.03                                |
| 12/12/11        | 0.016 ± 0.002                    | LT 0.05                                |
| 12/19/11        | 0.030 ± 0.002                    | LT 0.03                                |
| 12/26/11        | 0.018 ± 0.002                    | LT 0.06                                |

LT – Less Than  
 \* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring  
 D. C. Cook  
 2011  
 Livingston Road Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/03/11        | 0.019 ± 0.002                    | LT 0.04                                | 07/04/11        | 0.012 ± 0.002                    | LT 0.03                                |
| 01/10/11        | 0.029 ± 0.002                    | LT 0.08                                | 07/10/11        | 0.009 ± 0.002                    | LT 0.04                                |
| 01/17/11        | 0.016 ± 0.002                    | LT 0.04                                | 07/18/11        | 0.020 ± 0.002                    | LT 0.03                                |
| 01/24/11        | 0.014 ± 0.002                    | LT 0.03                                | 07/25/11        | 0.017 ± 0.002                    | LT 0.03                                |
| 01/31/11        | 0.019 ± 0.002                    | LT 0.04                                | 07/31/11        | 0.013 ± 0.002                    | LT 0.04                                |
| 02/07/11        | 0.016 ± 0.002                    | LT 0.03                                | 08/07/11        | 0.020 ± 0.002                    | LT 0.03                                |
| 02/14/11        | 0.014 ± 0.002                    | LT 0.03                                | 08/15/11        | 0.013 ± 0.002                    | LT 0.03                                |
| 02/20/11        | 0.015 ± 0.002                    | LT 0.04                                | 08/22/11        | 0.015 ± 0.002                    | LT 0.03                                |
| 02/28/11        | 0.013 ± 0.002                    | LT 0.03                                | 08/29/11        | 0.013 ± 0.002                    | LT 0.03                                |
| 03/07/11        | 0.014 ± 0.002                    | LT 0.03                                | 09/06/11        | 0.019 ± 0.002                    | LT 0.03                                |
| 03/14/11        | 0.011 ± 0.002                    | LT 0.09                                | 09/12/11        | 0.014 ± 0.002                    | LT 0.03                                |
| 03/21/11        | 0.015 ± 0.002                    | LT 0.05                                | 09/19/11        | 0.010 ± 0.002                    | LT 0.03                                |
| 03/28/11        | 0.023 ± 0.002                    | 0.04 ± 0.03                            | 09/26/11        | 0.012 ± 0.002                    | LT 0.03                                |
| 04/04/11        | 0.023 ± 0.002                    | LT 0.03                                | 10/03/11        | 0.012 ± 0.002                    | LT 0.03                                |
| 04/11/11        | 0.016 ± 0.002                    | LT 0.03                                | 10/09/11        | 0.027 ± 0.003                    | LT 0.04                                |
| 04/18/11        | 0.013 ± 0.002                    | LT 0.03                                | 10/17/11        | 0.025 ± 0.002                    | LT 0.03                                |
| 04/25/11        | 0.011 ± 0.002                    | LT 0.05                                | 10/23/11        | 0.008 ± 0.002                    | LT 0.05                                |
| 05/02/11        | 0.009 ± 0.002                    | LT 0.03                                | 10/31/11        | 0.016 ± 0.002                    | LT 0.03                                |
| 05/09/11        | 0.010 ± 0.002                    | LT 0.03                                | 11/07/11        | 0.022 ± 0.002                    | LT 0.03                                |
| 05/15/11        | 0.011 ± 0.002                    | LT 0.04                                | 11/14/11        | 0.019 ± 0.002                    | LT 0.03                                |
| 05/22/11        | 0.009 ± 0.002                    | LT 0.03                                | 11/21/11        | 0.019 ± 0.002                    | LT 0.05                                |
| 05/30/11        | 0.008 ± 0.001                    | LT 0.03                                | 11/28/11        | 0.015 ± 0.002                    | LT 0.03                                |
| 06/05/11        | 0.013 ± 0.002                    | LT 0.04                                | 12/05/11        | 0.015 ± 0.002                    | LT 0.03                                |
| 06/12/11        | 0.016 ± 0.002                    | LT 0.04                                | 12/12/11        | 0.018 ± 0.002                    | LT 0.05                                |
| 06/21/11        | 0.008 ± 0.001                    | LT 0.03                                | 12/19/11        | 0.026 ± 0.002                    | LT 0.03                                |
| 06/26/11        | 0.011 ± 0.002                    | LT 0.05                                | 12/26/11        | 0.017 ± 0.002                    | LT 0.06                                |

LT – Less Than

Appendix A

Atmospheric Monitoring  
D. C. Cook  
2011  
Peddy Farm Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 01/03/11        | 0.023 ± 0.002                    | LT 0.04                                |
| 01/10/11        | 0.021 ± 0.002                    | LT 0.08                                |
| 01/17/11        | 0.027 ± 0.002                    | LT 0.04                                |
| 01/24/11        | 0.026 ± 0.002                    | LT 0.03                                |
| 01/31/11        | 0.023 ± 0.002                    | LT 0.04                                |
| 02/07/11        | 0.021 ± 0.002                    | LT 0.03                                |
| 02/14/11        | 0.017 ± 0.002                    | LT 0.03                                |
| 02/20/11        | 0.017 ± 0.002                    | LT 0.04                                |
| 02/28/11        | 0.016 ± 0.002                    | LT 0.03                                |
| 03/07/11        | 0.019 ± 0.002                    | LT 0.03                                |
| 03/14/11        | 0.016 ± 0.002                    | LT 0.09                                |
| 03/21/11        | 0.017 ± 0.002                    | LT 0.05                                |
| 03/28/11        | 0.033 ± 0.002                    | 0.07 ± 0.03                            |
| 04/04/11        | 0.029 ± 0.003                    | 0.05 ± 0.04                            |
| 04/11/11        | 0.016 ± 0.002                    | LT 0.03                                |
| 04/18/11        | 0.016 ± 0.002                    | LT 0.03                                |
| 04/25/11        | 0.013 ± 0.002                    | LT 0.05                                |
| 05/02/11        | 0.013 ± 0.002                    | LT 0.03                                |
| 05/09/11        | 0.012 ± 0.002                    | LT 0.03                                |
| 05/15/11        | 0.012 ± 0.002                    | LT 0.04                                |
| 05/22/11        | 0.010 ± 0.002                    | LT 0.03                                |
| 05/30/11        | 0.008 ± 0.001                    | LT 0.03                                |
| 06/05/11        | 0.020 ± 0.002                    | LT 0.04                                |
| 06/12/11        | 0.016 ± 0.002                    | LT 0.04                                |
| 06/21/11        | 0.010 ± 0.001                    | LT 0.03                                |
| 06/26/11        | 0.014 ± 0.002                    | LT 0.05                                |

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 07/04/11        | 0.017 ± 0.002                    | LT 0.03                                |
| 07/10/11        | 0.012 ± 0.002                    | LT 0.04                                |
| 07/18/11        | 0.023 ± 0.002                    | LT 0.03                                |
| 07/25/11        | 0.021 ± 0.002                    | LT 0.03                                |
| 07/31/11        | 0.017 ± 0.002                    | LT 0.04                                |
| 08/07/11        | 0.026 ± 0.002                    | LT 0.03                                |
| 08/15/11        | 0.015 ± 0.002                    | LT 0.03                                |
| 08/22/11        | 0.023 ± 0.002                    | LT 0.03                                |
| 08/29/11        | 0.017 ± 0.002                    | LT 0.03                                |
| 09/06/11        | 0.026 ± 0.002                    | LT 0.03                                |
| 09/12/11        | 0.024 ± 0.002                    | LT 0.03                                |
| 09/19/11        | 0.011 ± 0.002                    | LT 0.03                                |
| 09/26/11        | 0.017 ± 0.002                    | LT 0.03                                |
| 10/03/11        | 0.016 ± 0.002                    | LT 0.03                                |
| 10/09/11        | 0.038 ± 0.003                    | LT 0.04                                |
| 10/17/11        | 0.028 ± 0.002                    | LT 0.03                                |
| 10/23/11        | 0.012 ± 0.002                    | LT 0.07                                |
| 10/31/11        | 0.018 ± 0.002                    | LT 0.03                                |
| 11/07/11        | 0.025 ± 0.002                    | LT 0.03                                |
| 11/14/11        | 0.022 ± 0.002                    | LT 0.03                                |
| 11/21/11        | 0.022 ± 0.002                    | LT 0.05                                |
| 11/28/11        | 0.016 ± 0.002                    | LT 0.03                                |
| 12/05/11        | 0.016 ± 0.002                    | LT 0.03                                |
| 12/12/11        | 0.021 ± 0.002                    | LT 0.05                                |
| 12/19/11        | 0.031 ± 0.002                    | LT 0.03                                |
| 12/26/11        | 0.018 ± 0.002                    | LT 0.06                                |

LT – Less Than

Appendix A

Atmospheric Monitoring  
Fermi 2  
2011  
Reactor Site Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/06/11        | 0.032 ± 0.003                    | LT 0.13                                | 07/07/11        | 0.022 ± 0.003                    | LT 0.05                                |
| 01/13/11        | 0.017 ± 0.002                    | LT 0.05                                | 07/14/11        | 0.020 ± 0.002                    | LT 0.04                                |
| 01/20/11        | 0.021 ± 0.002                    | LT 0.04                                | 07/24/11        | 0.023 ± 0.002                    | LT 0.02                                |
| 01/27/11        | 0.021 ± 0.002                    | LT 0.05                                | 07/28/11        | 0.017 ± 0.003                    | LT 0.06                                |
| 02/03/11        | 0.021 ± 0.002                    | LT 0.05                                | 08/04/11        | 0.026 ± 0.002                    | LT 0.04                                |
| 02/10/11        | 0.020 ± 0.002                    | LT 0.04                                | 08/11/11        | 0.019 ± 0.002                    | LT 0.04                                |
| 02/17/11        | 0.020 ± 0.002                    | LT 0.04                                | 08/17/11        | 0.016 ± 0.002                    | LT 0.05                                |
| 02/24/11        | 0.016 ± 0.002                    | LT 0.04                                | 08/25/11        | 0.026 ± 0.002                    | LT 0.04                                |
| 03/02/11        | 0.022 ± 0.002                    | LT 0.05                                | 09/01/11        | 0.020 ± 0.002                    | LT 0.04                                |
| 03/10/11        | 0.012 ± 0.002                    | LT 0.07                                | 09/08/11        | 0.025 ± 0.002                    | LT 0.04                                |
| 03/17/11        | 0.016 ± 0.002                    | LT 0.05                                | 09/15/11        | 0.016 ± 0.002                    | LT 0.05                                |
| 03/24/11        | 0.024 ± 0.002                    | 0.06 ± 0.05                            | 09/22/11        | 0.017 ± 0.002                    | LT 0.05                                |
| 03/31/11        | 0.041 ± 0.003                    | LT 0.04                                | 09/29/11        | 0.019 ± 0.002                    | LT 0.04                                |
| 04/07/11        | 0.028 ± 0.002                    | 0.10 ± 0.05                            | 10/06/11        | 0.014 ± 0.002                    | LT 0.04                                |
| 04/14/11        | 0.017 ± 0.002                    | LT 0.04                                | 10/13/11        | 0.044 ± 0.003                    | LT 0.04                                |
| 04/21/11        | 0.019 ± 0.002                    | LT 0.04                                | 10/20/11        | 0.015 ± 0.002                    | LT 0.04                                |
| 04/29/11        | 0.010 ± 0.002                    | LT 0.03                                | 10/27/11        | 0.016 ± 0.002                    | LT 0.04                                |
| 05/05/11        | 0.012 ± 0.002                    | LT 0.05                                | 11/03/11        | 0.021 ± 0.002                    | LT 0.05                                |
| 05/12/11        | 0.012 ± 0.002                    | LT 0.04                                | 11/10/11        | 0.020 ± 0.002                    | LT 0.04                                |
| 05/19/11        | 0.011 ± 0.002                    | LT 0.04                                | 11/17/11        | 0.029 ± 0.002                    | LT 0.07                                |
| 05/26/11        | 0.009 ± 0.002                    | LT 0.04                                | 11/24/11        | 0.017 ± 0.002                    | LT 0.05                                |
| 06/02/11        | 0.012 ± 0.002                    | LT 0.04                                | 12/01/11        | 0.015 ± 0.002                    | LT 0.04                                |
| 06/09/11        | 0.022 ± 0.002                    | LT 0.04                                | 12/08/11        | 0.020 ± 0.002                    | LT 0.05                                |
| 06/16/11        | 0.007 ± 0.001                    | LT 0.05                                | 12/15/11        | 0.032 ± 0.003                    | LT 0.04                                |
| 06/23/11        | 0.012 ± 0.002                    | LT 0.04                                | 12/22/11        | 0.028 ± 0.002                    | LT 0.09                                |
| 07/02/11        | 0.012 ± 0.001                    | LT 0.03                                | 12/29/11        | 0.033 ± 0.004                    | LT 0.16                                |

LT – Less Than

Appendix A

Atmospheric Monitoring  
Fermi 2  
2011  
Pointe Aux Peaux Road Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/06/11        | 0.033 ± 0.003                    | LT 0.13                                | 07/07/11        | 0.015 ± 0.002                    | LT 0.05                                |
| 01/13/11        | 0.015 ± 0.002                    | LT 0.05                                | 07/14/11        | 0.014 ± 0.002                    | LT 0.04                                |
| 01/20/11        | 0.022 ± 0.002                    | LT 0.04                                | 07/24/11        | 0.021 ± 0.002                    | LT 0.02                                |
| 01/27/11        | 0.025 ± 0.002                    | LT 0.05                                | 07/28/11        | 0.016 ± 0.003                    | LT 0.06                                |
| 02/03/11        | 0.020 ± 0.002                    | LT 0.05                                | 08/04/11        | 0.020 ± 0.002                    | LT 0.04                                |
| 02/10/11        | 0.018 ± 0.002                    | LT 0.04                                | 08/11/11        | 0.016 ± 0.002                    | LT 0.04                                |
| 02/17/11        | 0.019 ± 0.002                    | LT 0.04                                | 08/17/11        | 0.014 ± 0.002                    | LT 0.05                                |
| 02/24/11        | 0.014 ± 0.002                    | LT 0.04                                | 08/25/11        | 0.020 ± 0.002                    | LT 0.04                                |
| 03/02/11        | 0.021 ± 0.002                    | LT 0.05                                | 09/01/11        | 0.017 ± 0.002                    | LT 0.04                                |
| 03/10/11        | 0.013 ± 0.002                    | LT 0.07                                | 09/08/11        | 0.022 ± 0.002                    | LT 0.04                                |
| 03/17/11        | 0.016 ± 0.002                    | LT 0.05                                | 09/15/11        | 0.016 ± 0.002                    | LT 0.05                                |
| 03/24/11        | 0.027 ± 0.002                    | LT 0.04                                | 09/22/11        | 0.014 ± 0.002                    | LT 0.05                                |
| 03/31/11        | 0.029 ± 0.002                    | LT 0.04                                | 09/29/11        | 0.015 ± 0.002                    | LT 0.04                                |
| 04/07/11        | 0.029 ± 0.002                    | LT 0.04                                | 10/06/11        | 0.011 ± 0.002                    | LT 0.04                                |
| 04/14/11        | 0.018 ± 0.002                    | LT 0.04                                | 10/13/11        | 0.036 ± 0.003                    | LT 0.04                                |
| 04/21/11        | 0.016 ± 0.002                    | LT 0.04                                | 10/20/11        | 0.018 ± 0.002                    | LT 0.04                                |
| 04/29/11        | 0.012 ± 0.002                    | LT 0.03                                | 10/27/11        | 0.015 ± 0.002                    | LT 0.04                                |
| 05/05/11        | 0.012 ± 0.002                    | LT 0.05                                | 11/03/11        | 0.020 ± 0.002                    | LT 0.05                                |
| 05/12/11        | 0.010 ± 0.002                    | LT 0.04                                | 11/10/11        | 0.019 ± 0.002                    | LT 0.04                                |
| 05/19/11        | 0.010 ± 0.002                    | LT 0.04                                | 11/17/11        | 0.025 ± 0.002                    | LT 0.07                                |
| 05/26/11        | 0.010 ± 0.002                    | LT 0.04                                | 11/24/11        | 0.017 ± 0.002                    | LT 0.05                                |
| 06/02/11        | 0.012 ± 0.002                    | LT 0.04                                | 12/01/11        | 0.011 ± 0.002                    | LT 0.04                                |
| 06/09/11        | 0.023 ± 0.002                    | LT 0.04                                | 12/08/11        | 0.005 ± 0.001                    | LT 0.05                                |
| 06/16/11        | 0.010 ± 0.002                    | LT 0.05                                | 12/15/11        | 0.028 ± 0.002                    | LT 0.04                                |
| 06/23/11        | 0.012 ± 0.002                    | LT 0.04                                | 12/22/11        | 0.029 ± 0.003                    | LT 0.09                                |
| 07/02/11        | 0.012 ± 0.002                    | LT 0.03                                | 12/29/11        | 0.016 ± 0.002                    | LT 0.08                                |

LT – Less Than

Appendix A

Atmospheric Monitoring  
Fermi 2  
2011  
Nadeau Road Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/06/11        | 0.034 ± 0.003                    | LT 0.13                                | 07/07/11        | 0.018 ± 0.003                    | LT 0.05                                |
| 01/13/11        | 0.018 ± 0.002                    | LT 0.05                                | 07/14/11        | 0.018 ± 0.002                    | LT 0.04                                |
| 01/20/11        | 0.020 ± 0.002                    | LT 0.04                                | 07/24/11        | 0.023 ± 0.002                    | LT 0.02                                |
| 01/27/11        | 0.025 ± 0.002                    | LT 0.05                                | 07/28/11        | 0.014 ± 0.003                    | LT 0.06                                |
| 02/03/11        | 0.022 ± 0.002                    | LT 0.05                                | 08/04/11        | 0.024 ± 0.002                    | LT 0.04                                |
| 02/10/11        | 0.017 ± 0.002                    | LT 0.04                                | 08/11/11        | 0.018 ± 0.002                    | LT 0.04                                |
| 02/17/11        | 0.023 ± 0.002                    | LT 0.04                                | 08/17/11        | 0.015 ± 0.002                    | LT 0.05                                |
| 02/24/11        | 0.014 ± 0.002                    | LT 0.04                                | 08/25/11        | 0.024 ± 0.002                    | LT 0.04                                |
| 03/02/11        | 0.021 ± 0.002                    | LT 0.05                                | 09/01/11        | 0.020 ± 0.002                    | LT 0.04                                |
| 03/10/11        | 0.011 ± 0.002                    | LT 0.07                                | 09/08/11        | 0.023 ± 0.002                    | LT 0.04                                |
| 03/17/11        | 0.014 ± 0.002                    | LT 0.05                                | 09/15/11        | 0.015 ± 0.002                    | LT 0.05                                |
| 03/24/11        | 0.027 ± 0.002                    | 0.07 ± 0.05                            | 09/22/11        | 0.017 ± 0.002                    | LT 0.05                                |
| 03/31/11        | 0.028 ± 0.002                    | LT 0.04                                | 09/29/11        | 0.015 ± 0.002                    | LT 0.04                                |
| 04/07/11        | 0.028 ± 0.002                    | 0.07 ± 0.05                            | 10/06/11        | 0.014 ± 0.002                    | LT 0.04                                |
| 04/14/11        | 0.017 ± 0.002                    | LT 0.04                                | 10/13/11        | 0.038 ± 0.003                    | LT 0.04                                |
| 04/21/11        | 0.015 ± 0.002                    | LT 0.04                                | 10/20/11        | 0.015 ± 0.002                    | LT 0.04                                |
| 04/29/11        | 0.011 ± 0.002                    | LT 0.03                                | 10/27/11        | 0.016 ± 0.002                    | LT 0.04                                |
| 05/05/11        | 0.012 ± 0.002                    | LT 0.05                                | 11/03/11        | 0.021 ± 0.002                    | LT 0.05                                |
| 05/12/11        | 0.012 ± 0.002                    | LT 0.04                                | 11/10/11        | 0.019 ± 0.002                    | LT 0.04                                |
| 05/19/11        | 0.011 ± 0.002                    | LT 0.04                                | 11/17/11        | 0.025 ± 0.002                    | LT 0.07                                |
| 05/26/11        | 0.010 ± 0.002                    | LT 0.04                                | 11/24/11        | 0.018 ± 0.002                    | LT 0.05                                |
| 06/02/11        | 0.010 ± 0.002                    | LT 0.04                                | 12/01/11        | 0.014 ± 0.002                    | LT 0.04                                |
| 06/09/11        | 0.023 ± 0.002                    | LT 0.04                                | 12/08/11        | 0.019 ± 0.002                    | LT 0.05                                |
| 06/16/11        | 0.007 ± 0.001                    | LT 0.05                                | 12/15/11        | 0.031 ± 0.003                    | LT 0.04                                |
| 06/23/11        | 0.014 ± 0.002                    | LT 0.04                                | 12/22/11        | 0.028 ± 0.003                    | LT 0.09                                |
| 07/02/11        | 0.012 ± 0.001                    | LT 0.03                                | 12/29/11        | 0.017 ± 0.002                    | LT 0.08                                |

LT – Less Than

Appendix A

Atmospheric Monitoring  
Fermi 2  
2011  
Dixie Highway Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/06/11        | 0.031 ± 0.003                    | LT 0.13                                | 07/07/11        | 0.017 ± 0.002                    | LT 0.05                                |
| 01/13/11        | 0.016 ± 0.002                    | LT 0.05                                | 07/14/11        | 0.020 ± 0.002                    | LT 0.04                                |
| 01/20/11        | 0.020 ± 0.002                    | LT 0.04                                | 07/24/11        | 0.023 ± 0.002                    | LT 0.02                                |
| 01/27/11        | 0.022 ± 0.002                    | LT 0.05                                | 07/28/11        | 0.016 ± 0.003                    | LT 0.06                                |
| 02/03/11        | 0.019 ± 0.002                    | LT 0.05                                | 08/04/11        | 0.024 ± 0.002                    | LT 0.04                                |
| 02/10/11        | 0.018 ± 0.002                    | LT 0.04                                | 08/11/11        | 0.017 ± 0.002                    | LT 0.04                                |
| 02/17/11        | 0.020 ± 0.002                    | LT 0.04                                | 08/17/11        | 0.018 ± 0.002                    | LT 0.05                                |
| 02/24/11        | 0.014 ± 0.002                    | LT 0.04                                | 08/25/11        | 0.025 ± 0.002                    | LT 0.04                                |
| 03/02/11        | 0.023 ± 0.002                    | LT 0.05                                | 09/01/11        | 0.021 ± 0.002                    | LT 0.04                                |
| 03/10/11        | 0.012 ± 0.002                    | LT 0.07                                | 09/08/11        | 0.024 ± 0.002                    | LT 0.04                                |
| 03/17/11        | 0.017 ± 0.002                    | LT 0.05                                | 09/15/11        | 0.014 ± 0.002                    | LT 0.05                                |
| 03/24/11        | 0.026 ± 0.002                    | LT 0.04                                | 09/22/11        | 0.015 ± 0.002                    | LT 0.05                                |
| 03/31/11        | 0.028 ± 0.002                    | LT 0.04                                | 09/29/11        | 0.017 ± 0.002                    | LT 0.04                                |
| 04/07/11        | 0.028 ± 0.002                    | 0.07 ± 0.05                            | 10/06/11        | 0.014 ± 0.002                    | LT 0.04                                |
| 04/14/11        | 0.019 ± 0.002                    | LT 0.05                                | 10/13/11        | 0.041 ± 0.003                    | LT 0.04                                |
| 04/21/11        | 0.013 ± 0.002                    | LT 0.04                                | 10/20/11        | 0.018 ± 0.002                    | LT 0.04                                |
| 04/29/11        | 0.012 ± 0.002                    | LT 0.03                                | 10/27/11        | 0.017 ± 0.002                    | LT 0.04                                |
| 05/05/11        | 0.015 ± 0.002                    | LT 0.05                                | 11/03/11        | 0.020 ± 0.002                    | LT 0.05                                |
| 05/12/11        | 0.013 ± 0.002                    | LT 0.04                                | 11/10/11        | 0.018 ± 0.002                    | LT 0.04                                |
| 05/19/11        | 0.009 ± 0.002                    | LT 0.04                                | 11/17/11        | 0.027 ± 0.002                    | LT 0.07                                |
| 05/26/11        | 0.011 ± 0.002                    | LT 0.04                                | 11/24/11        | 0.017 ± 0.002                    | LT 0.05                                |
| 06/02/11        | 0.012 ± 0.002                    | LT 0.04                                | 12/01/11        | 0.015 ± 0.002                    | LT 0.04                                |
| 06/09/11        | 0.025 ± 0.002                    | LT 0.04                                | 12/08/11        | 0.017 ± 0.002                    | LT 0.05                                |
| 06/16/11        | 0.010 ± 0.002                    | LT 0.05                                | 12/15/11        | 0.024 ± 0.002                    | LT 0.04                                |
| 06/23/11        | 0.011 ± 0.002                    | LT 0.04                                | 12/22/11        | 0.027 ± 0.002                    | LT 0.09                                |
| 07/02/11        | 0.015 ± 0.002                    | LT 0.03                                | 12/29/11        | 0.015 ± 0.002                    | LT 0.08                                |

LT – Less Than

Appendix A

Atmospheric Monitoring  
Fermi 2  
2011  
Fix Farm Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/06/11        | 0.035 ± 0.003                    | LT 0.13                                | 07/07/11        | 0.018 ± 0.003                    | LT 0.05                                |
| 01/13/11        | 0.016 ± 0.002                    | LT 0.05                                | 07/14/11        | 0.015 ± 0.002                    | LT 0.04                                |
| 01/20/11        | 0.023 ± 0.002                    | LT 0.04                                | 07/24/11        | 0.022 ± 0.002                    | LT 0.02                                |
| 01/27/11        | 0.024 ± 0.002                    | LT 0.05                                | 07/28/11        | 0.017 ± 0.003                    | LT 0.06                                |
| 02/03/11        | 0.019 ± 0.002                    | LT 0.05                                | 08/04/11        | 0.021 ± 0.002                    | LT 0.04                                |
| 02/10/11        | 0.017 ± 0.002                    | LT 0.04                                | 08/11/11        | 0.018 ± 0.002                    | LT 0.04                                |
| 02/17/11        | 0.022 ± 0.002                    | LT 0.04                                | 08/17/11        | 0.018 ± 0.002                    | LT 0.05                                |
| 02/24/11        | 0.013 ± 0.002                    | LT 0.04                                | 08/25/11        | 0.022 ± 0.002                    | LT 0.04                                |
| 03/02/11        | 0.023 ± 0.002                    | LT 0.06                                | 09/01/11        | 0.018 ± 0.002                    | LT 0.04                                |
| 03/10/11        | 0.010 ± 0.002                    | LT 0.07                                | 09/08/11        | 0.024 ± 0.002                    | LT 0.04                                |
| 03/17/11        | 0.016 ± 0.002                    | LT 0.05                                | 09/15/11        | 0.015 ± 0.002                    | LT 0.05                                |
| 03/24/11        | 0.030 ± 0.003                    | LT 0.04                                | 09/22/11        | 0.015 ± 0.002                    | LT 0.05                                |
| 03/31/11        | 0.029 ± 0.002                    | 0.06 ± 0.04                            | 09/29/11        | 0.017 ± 0.002                    | LT 0.04                                |
| 04/07/11        | 0.029 ± 0.002                    | 0.06 ± 0.05                            | 10/06/11        | 0.013 ± 0.002                    | LT 0.04                                |
| 04/14/11        | 0.021 ± 0.002                    | LT 0.05                                | 10/13/11        | 0.041 ± 0.003                    | LT 0.04                                |
| 04/21/11        | 0.018 ± 0.002                    | LT 0.04                                | 10/20/11        | 0.015 ± 0.002                    | LT 0.04                                |
| 04/29/11        | 0.013 ± 0.002                    | LT 0.03                                | 10/27/11        | 0.015 ± 0.002                    | LT 0.04                                |
| 05/05/11        | 0.012 ± 0.002                    | LT 0.05                                | 11/03/11        | 0.020 ± 0.002                    | LT 0.05                                |
| 05/12/11        | 0.013 ± 0.002                    | LT 0.04                                | 11/10/11        | 0.020 ± 0.002                    | LT 0.04                                |
| 05/19/11        | 0.011 ± 0.002                    | LT 0.04                                | 11/17/11        | 0.029 ± 0.002                    | LT 0.07                                |
| 05/26/11        | 0.011 ± 0.002                    | LT 0.05                                | 11/24/11        | 0.016 ± 0.002                    | LT 0.05                                |
| 06/02/11        | 0.011 ± 0.002                    | LT 0.04                                | 12/01/11        | 0.015 ± 0.002                    | LT 0.04                                |
| 06/09/11        | 0.023 ± 0.002                    | LT 0.04                                | 12/08/11        | 0.021 ± 0.002                    | LT 0.05                                |
| 06/16/11        | 0.009 ± 0.002                    | LT 0.05                                | 12/15/11        | 0.032 ± 0.003                    | LT 0.04                                |
| 06/23/11        | 0.014 ± 0.002                    | LT 0.04                                | 12/22/11        | 0.032 ± 0.003                    | LT 0.09                                |
| 07/02/11        | 0.013 ± 0.002                    | LT 0.03                                | 12/29/11        | 0.017 ± 0.002                    | LT 0.16                                |

LT – Less Than



## Appendix A

### Atmospheric Monitoring 2011 Lansing Background Reference Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/03/11        | 0.019 ± 0.002                    | LT 0.03                                | 07/05/11        | 0.019 ± 0.002                    | LT 0.02                                |
| 01/11/11        | 0.022 ± 0.002                    | LT 0.07                                | 07/11/11        | 0.021 ± 0.002                    | LT 0.03                                |
| 01/18/11        | 0.015 ± 0.002                    | LT 0.04                                | 07/18/11        | 0.018 ± 0.002                    | LT 0.02                                |
| 01/24/11        | 0.019 ± 0.002                    | LT 0.03                                | 07/25/11        | 0.021 ± 0.002                    | LT 0.02                                |
| 01/31/11        | 0.017 ± 0.002                    | LT 0.03                                | 08/01/11        | 0.013 ± 0.002                    | LT 0.02                                |
| 02/07/11        | 0.015 ± 0.002                    | LT 0.02                                | 08/08/11        | 0.013 ± 0.002                    | LT 0.03                                |
| 02/14/11        | 0.017 ± 0.002                    | LT 0.03                                | 08/15/11        | 0.047 ± 0.004*                   | LT 0.06*                               |
| 02/22/11        | 0.016 ± 0.002                    | LT 0.02                                | 08/23/11        | ~~~~                             | ~~~~                                   |
| 02/28/11        | 0.014 ± 0.002                    | LT 0.03                                | 08/29/11        | 0.016 ± 0.002                    | LT 0.03                                |
| 03/07/11        | 0.016 ± 0.002                    | LT 0.02                                | 09/06/11        | 0.023 ± 0.002                    | LT 0.02                                |
| 03/14/11        | 0.011 ± 0.002                    | LT 0.02                                | 09/12/11        | 0.013 ± 0.002                    | LT 0.03                                |
| 03/21/11        | 0.018 ± 0.002                    | LT 0.03                                | 09/19/11        | 0.013 ± 0.002                    | LT 0.03                                |
| 03/28/11        | 0.029 ± 0.002                    | 0.03 ± 0.03                            | 09/26/11        | 0.020 ± 0.002                    | LT 0.03                                |
| 04/04/11        | 0.036 ± 0.003                    | 0.07 ± 0.03                            | 10/03/11        | 0.014 ± 0.002                    | LT 0.02                                |
| 04/11/11        | 0.018 ± 0.002                    | 0.03 ± 0.03                            | 10/10/11        | 0.034 ± 0.003                    | LT 0.03                                |
| 04/18/11        | 0.023 ± 0.002                    | LT 0.02                                | 10/17/11        | 0.025 ± 0.002                    | LT 0.03                                |
| 04/25/11        | 0.015 ± 0.002                    | LT 0.03                                | 10/24/11        | 0.019 ± 0.002                    | LT 0.02                                |
| 05/02/11        | 0.011 ± 0.002                    | LT 0.03                                | 10/31/11        | 0.019 ± 0.002                    | LT 0.03                                |
| 05/09/11        | 0.010 ± 0.002                    | LT 0.03                                | 11/07/11        | 0.022 ± 0.002                    | LT 0.03                                |
| 05/16/11        | 0.009 ± 0.002                    | LT 0.03                                | 11/14/11        | 0.022 ± 0.002                    | LT 0.03                                |
| 05/24/11        | 0.009 ± 0.001                    | LT 0.02                                | 11/21/11        | 0.021 ± 0.002                    | LT 0.01                                |
| 05/31/11        | 0.009 ± 0.002                    | LT 0.02                                | 11/28/11        | 0.014 ± 0.002                    | LT 0.03                                |
| 06/06/11        | 0.021 ± 0.002                    | LT 0.03                                | 12/05/11        | 0.014 ± 0.002                    | LT 0.03                                |
| 06/13/11        | 0.018 ± 0.002                    | LT 0.02                                | 12/12/11        | 0.021 ± 0.002                    | LT 0.02                                |
| 06/20/11        | 0.012 ± 0.002                    | LT 0.02                                | 12/19/11        | 0.027 ± 0.002                    | LT 0.03                                |
| 06/27/11        | 0.011 ± 0.002                    | LT 0.02                                | 12/27/11        | 0.017 ± 0.002                    | LT 0.05                                |

LT – Less Than

~~~~ – No Sample

* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring
Palisades
2012
Reactor Site Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 01/03/12 | 0.016 ± 0.002 | LT 0.05 |
| 01/09/12 | 0.015 ± 0.002 | LT 0.04 |
| 01/15/12 | 0.017 ± 0.002 | LT 0.04 |
| 01/23/12 | 0.018 ± 0.002 | LT 0.02 |
| 01/30/12 | 0.021 ± 0.002 | LT 0.03 |
| 02/06/12 | 0.022 ± 0.002 | LT 0.04 |
| 02/13/12 | 0.018 ± 0.002 | LT 0.03 |
| 02/20/12 | 0.017 ± 0.002 | LT 0.03 |
| 02/27/12 | 0.020 ± 0.002 | LT 0.03 |
| 03/04/12 | 0.011 ± 0.002 | LT 0.04 |
| 03/12/12 | 0.025 ± 0.002 | LT 0.03 |
| 03/19/12 | 0.018 ± 0.002 | LT 0.03 |
| 03/26/12 | 0.015 ± 0.002 | LT 0.03 |
| 04/02/12 | 0.009 ± 0.002 | LT 0.03 |
| 04/09/12 | 0.014 ± 0.002 | LT 0.03 |
| 04/16/12 | 0.017 ± 0.002 | LT 0.03 |
| 04/23/12 | 0.016 ± 0.002 | LT 0.04 |
| 04/30/12 | 0.020 ± 0.002 | LT 0.03 |
| 05/07/12 | 0.016 ± 0.002 | LT 0.03 |
| 05/14/12 | 0.012 ± 0.002 | LT 0.03 |
| 05/21/12 | 0.020 ± 0.002 | LT 0.03 |
| 05/29/12 | 0.010 ± 0.002 | LT 0.02 |
| 06/04/12 | 0.012 ± 0.002 | LT 0.04 |
| 06/11/12 | 0.012 ± 0.002 | LT 0.03 |
| 06/18/12 | 0.016 ± 0.002 | LT 0.03 |
| 06/25/12 | 0.017 ± 0.002 | LT 0.04 |
| 07/02/12 | 0.021 ± 0.002 | LT 0.03 |

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 07/09/12 | 0.024 ± 0.002 | LT 0.04 |
| 07/16/12 | 0.021 ± 0.002 | LT 0.03 |
| 07/23/12 | 0.018 ± 0.002 | LT 0.03 |
| 07/30/12 | 0.020 ± 0.002 | LT 0.03 |
| 08/06/12 | 0.020 ± 0.002 | LT 0.03 |
| 08/13/12 | 0.013 ± 0.002 | LT 0.03 |
| 08/20/12 | 0.020 ± 0.002 | LT 0.03 |
| 08/27/12 | 0.025 ± 0.002 | LT 0.03 |
| 09/04/12 | 0.020 ± 0.002 | LT 0.03 |
| 09/10/12 | 0.018 ± 0.002 | LT 0.04 |
| 09/17/12 | 0.026 ± 0.002 | LT 0.03 |
| 09/24/12 | 0.013 ± 0.002 | LT 0.03 |
| 10/01/12 | 0.020 ± 0.002 | LT 0.03 |
| 10/08/12 | 0.014 ± 0.002 | LT 0.03 |
| 10/15/12 | 0.018 ± 0.002 | LT 0.03 |
| 10/22/12 | 0.018 ± 0.002 | LT 0.03 |
| 10/29/12 | 0.017 ± 0.002 | LT 0.05 |
| 11/05/12 | 0.011 ± 0.002 | LT 0.03 |
| 11/12/12 | 0.011 ± 0.002 | LT 0.03 |
| 11/19/12 | 0.024 ± 0.002 | LT 0.06 |
| 11/26/12 | 0.035 ± 0.002 | LT 0.04 |
| 12/03/12 | 0.035 ± 0.002 | LT 0.04 |
| 12/10/12 | 0.020 ± 0.002 | LT 0.03 |
| 12/17/12 | 0.021 ± 0.002 | LT 0.04 |
| 12/22/12 | 0.026 ± 0.003 | LT 0.06 |
| 12/31/12 | 0.021 ± 0.002 | LT 0.03 |
| | | |

LT – Less Than

Appendix A

Atmospheric Monitoring
Palisades
2012
Covert Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 01/03/12 | 0.016 ± 0.002 | LT 0.05 |
| 01/09/12 | 0.017 ± 0.002 | LT 0.04 |
| 01/15/12 | 0.019 ± 0.002 | LT 0.04 |
| 01/23/12 | 0.014 ± 0.002 | LT 0.02 |
| 01/30/12 | 0.016 ± 0.002 | LT 0.03 |
| 02/06/12 | 0.016 ± 0.002 | LT 0.04 |
| 02/13/12 | 0.015 ± 0.002 | LT 0.03 |
| 02/20/12 | 0.014 ± 0.002 | LT 0.03 |
| 02/27/12 | 0.015 ± 0.002 | LT 0.03 |
| 03/04/12 | 0.010 ± 0.002 | LT 0.04 |
| 03/12/12 | 0.019 ± 0.002 | LT 0.03 |
| 03/19/12 | 0.015 ± 0.002 | LT 0.03 |
| 03/26/12 | 0.012 ± 0.002 | LT 0.03 |
| 04/02/12 | 0.010 ± 0.002 | LT 0.03 |
| 04/09/12 | 0.011 ± 0.002 | LT 0.03 |
| 04/16/12 | 0.013 ± 0.002 | LT 0.03 |
| 04/23/12 | 0.012 ± 0.002 | LT 0.04 |
| 04/30/12 | 0.017 ± 0.002 | LT 0.03 |
| 05/07/12 | 0.011 ± 0.002 | LT 0.03 |
| 05/14/12 | 0.010 ± 0.002 | LT 0.03 |
| 05/21/12 | 0.016 ± 0.002 | LT 0.03 |
| 05/29/12 | 0.013 ± 0.002 | LT 0.02 |
| 06/04/12 | 0.009 ± 0.002 | LT 0.04 |
| 06/11/12 | 0.012 ± 0.002 | LT 0.03 |
| 06/18/12 | 0.013 ± 0.002 | LT 0.03 |
| 06/25/12 | 0.012 ± 0.002 | LT 0.04 |
| 07/02/12 | 0.017 ± 0.002 | LT 0.03 |

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 07/09/12 | LT 0.001* | LT 0.04 |
| 07/16/12 | 0.017 ± 0.002 | LT 0.03 |
| 07/23/12 | 0.016 ± 0.002 | LT 0.03 |
| 07/30/12 | 0.014 ± 0.002 | LT 0.03 |
| 08/06/12 | 0.017 ± 0.002 | LT 0.03 |
| 08/13/12 | 0.011 ± 0.002 | LT 0.03 |
| 08/20/12 | 0.013 ± 0.002 | LT 0.03 |
| 08/27/12 | 0.019 ± 0.002 | LT 0.03 |
| 09/04/12 | 0.014 ± 0.002 | LT 0.03 |
| 09/10/12 | 0.012 ± 0.002 | LT 0.04 |
| 09/17/12 | 0.020 ± 0.002 | LT 0.03 |
| 09/24/12 | 0.009 ± 0.002 | LT 0.03 |
| 10/01/12 | 0.018 ± 0.002 | LT 0.03 |
| 10/08/12 | 0.011 ± 0.002 | LT 0.03 |
| 10/15/12 | 0.013 ± 0.002 | LT 0.03 |
| 10/22/12 | 0.015 ± 0.002 | LT 0.03 |
| 10/29/12 | 0.014 ± 0.002 | LT 0.05 |
| 11/05/12 | 0.011 ± 0.002* | LT 0.03 |
| 11/12/12 | LT 0.001* | LT 0.03 |
| 11/19/12 | 0.025 ± 0.002 | LT 0.06 |
| 11/26/12 | 0.029 ± 0.002 | LT 0.04 |
| 12/03/12 | 0.031 ± 0.002 | LT 0.04 |
| 12/10/12 | 0.014 ± 0.002 | LT 0.03 |
| 12/17/12 | 0.017 ± 0.002 | LT 0.04 |
| 12/22/12 | 0.017 ± 0.003 | LT 0.06 |
| 12/31/12 | 0.016 ± 0.002 | LT 0.03 |
| | | |

LT – Less Than
* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring
Palisades
2012
South Haven Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 01/03/12 | 0.016 ± 0.002 | LT 0.05 |
| 01/09/12 | 0.017 ± 0.002 | LT 0.04 |
| 01/15/12 | 0.019 ± 0.002 | LT 0.04 |
| 01/23/12 | 0.018 ± 0.002 | LT 0.02 |
| 01/30/12 | 0.027 ± 0.002* | LT 0.06* |
| 02/06/12 | 0.020 ± 0.002 | LT 0.04 |
| 02/13/12 | 0.014 ± 0.002 | LT 0.03 |
| 02/20/12 | 0.018 ± 0.002 | LT 0.03 |
| 02/27/12 | 0.017 ± 0.002 | LT 0.03 |
| 03/04/12 | 0.009 ± 0.002 | LT 0.04 |
| 03/12/12 | 0.019 ± 0.002 | LT 0.03 |
| 03/19/12 | 0.012 ± 0.002 | LT 0.03 |
| 03/26/12 | 0.011 ± 0.002 | LT 0.03 |
| 04/02/12 | 0.010 ± 0.002 | LT 0.03 |
| 04/09/12 | 0.010 ± 0.002 | LT 0.03 |
| 04/16/12 | 0.015 ± 0.002 | LT 0.03 |
| 04/23/12 | 0.014 ± 0.002 | LT 0.04 |
| 04/30/12 | 0.021 ± 0.002 | LT 0.03 |
| 05/07/12 | 0.013 ± 0.002 | LT 0.03 |
| 05/14/12 | 0.013 ± 0.002 | LT 0.03 |
| 05/21/12 | 0.018 ± 0.002 | LT 0.03 |
| 05/29/12 | 0.019 ± 0.002 | LT 0.02 |
| 06/04/12 | 0.012 ± 0.002 | LT 0.04 |
| 06/11/12 | 0.014 ± 0.002 | LT 0.03 |
| 06/18/12 | 0.015 ± 0.002 | LT 0.03 |
| 06/25/12 | 0.014 ± 0.002 | LT 0.04 |
| 07/02/12 | 0.020 ± 0.002 | LT 0.03 |

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 07/09/12 | 0.026 ± 0.002 | LT 0.04 |
| 07/16/12 | 0.019 ± 0.002 | LT 0.03 |
| 07/23/12 | 0.019 ± 0.002 | LT 0.03 |
| 07/30/12 | 0.016 ± 0.002 | LT 0.03 |
| 08/06/12 | 0.021 ± 0.002 | LT 0.03 |
| 08/13/12 | 0.013 ± 0.002 | LT 0.03 |
| 08/20/12 | 0.020 ± 0.002 | LT 0.03 |
| 08/27/12 | 0.025 ± 0.002 | LT 0.03 |
| 09/04/12 | 0.017 ± 0.002 | LT 0.03 |
| 09/10/12 | 0.017 ± 0.002 | LT 0.04 |
| 09/17/12 | 0.026 ± 0.002 | LT 0.03 |
| 09/24/12 | 0.011 ± 0.002 | LT 0.03 |
| 10/01/12 | 0.018 ± 0.002 | LT 0.03 |
| 10/08/12 | 0.014 ± 0.002 | LT 0.03 |
| 10/15/12 | 0.008 ± 0.002 | LT 0.03 |
| 10/22/12 | 0.015 ± 0.002 | LT 0.03 |
| 10/29/12 | 0.017 ± 0.002 | LT 0.05 |
| 11/05/12 | 0.013 ± 0.002 | LT 0.03 |
| 11/12/12 | 0.022 ± 0.002 | LT 0.03 |
| 11/19/12 | 0.027 ± 0.002 | LT 0.06 |
| 11/26/12 | 0.042 ± 0.002 | LT 0.04 |
| 12/03/12 | 0.037 ± 0.002 | LT 0.04 |
| 12/10/12 | 0.018 ± 0.002 | LT 0.03 |
| 12/17/12 | 0.032 ± 0.002 | LT 0.04 |
| 12/22/12 | 0.029 ± 0.003 | LT 0.06 |
| 12/31/12 | 0.026 ± 0.002 | LT 0.03 |
| | | |

LT – Less Than
* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring
 D. C. Cook
 2012
 Reactor Site Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 01/03/12 | 0.014 ± 0.002 | LT 0.05 |
| 01/09/12 | 0.014 ± 0.002 | LT 0.04 |
| 01/15/12 | 0.012 ± 0.002 | LT 0.04 |
| 01/23/12 | 0.014 ± 0.002 | LT 0.02 |
| 01/30/12 | 0.011 ± 0.002 | LT 0.03 |
| 02/06/12 | 0.011 ± 0.002 | LT 0.03 |
| 02/13/12 | 0.012 ± 0.002 | LT 0.03 |
| 02/20/12 | 0.014 ± 0.002 | LT 0.03 |
| 02/27/12 | 0.013 ± 0.002 | LT 0.03 |
| 03/04/12 | 0.009 ± 0.002 | LT 0.04 |
| 03/12/12 | 0.016 ± 0.002 | LT 0.03 |
| 03/19/12 | LT 0.001* | LT 0.03* |
| 03/26/12 | 0.010 ± 0.002 | LT 0.03 |
| 04/02/12 | 0.007 ± 0.002 | LT 0.03 |
| 04/09/12 | 0.013 ± 0.002 | LT 0.03 |
| 04/16/12 | 0.011 ± 0.002 | LT 0.03 |
| 04/23/12 | 0.009 ± 0.002 | LT 0.04 |
| 04/30/12 | 0.015 ± 0.002 | LT 0.03 |
| 05/07/12 | 0.010 ± 0.002 | LT 0.03 |
| 05/14/12 | 0.008 ± 0.002 | LT 0.03 |
| 05/21/12 | 0.014 ± 0.002 | LT 0.03 |
| 05/29/12 | 0.015 ± 0.002 | LT 0.02 |
| 06/04/12 | 0.009 ± 0.002 | LT 0.04 |
| 06/11/12 | 0.013 ± 0.003 | LT 0.05 |
| 06/18/12 | 0.011 ± 0.002 | LT 0.03 |
| 06/25/12 | 0.012 ± 0.002 | LT 0.04 |
| 07/02/12 | 0.015 ± 0.002 | X |

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 07/09/12 | 0.020 ± 0.002 | LT 0.04 |
| 07/16/12 | 0.017 ± 0.002 | LT 0.03 |
| 07/23/12 | 0.016 ± 0.002 | LT 0.03 |
| 07/30/12 | 0.016 ± 0.002 | LT 0.03 |
| 08/06/12 | 0.014 ± 0.002 | LT 0.03 |
| 08/13/12 | 0.010 ± 0.002 | LT 0.03 |
| 08/20/12 | 0.011 ± 0.002 | LT 0.03 |
| 08/27/12 | 0.020 ± 0.002 | LT 0.03 |
| 09/04/12 | 0.016 ± 0.002 | LT 0.03 |
| 09/10/12 | 0.012 ± 0.002 | LT 0.04 |
| 09/17/12 | 0.016 ± 0.002 | LT 0.03 |
| 09/24/12 | 0.009 ± 0.002 | LT 0.03 |
| 10/01/12 | 0.013 ± 0.002 | LT 0.03 |
| 10/08/12 | 0.011 ± 0.002 | LT 0.03 |
| 10/15/12 | 0.013 ± 0.002 | LT 0.03 |
| 10/22/12 | LT 0.001* | LT 0.03 |
| 10/29/12 | ~~~~ | ~~~~ |
| 11/05/12 | 0.007 ± 0.002 | LT 0.03 |
| 11/05/12 | 0.013 ± 0.002 | LT 0.03 |
| 11/12/12 | 0.019 ± 0.002 | LT 0.06 |
| 11/26/12 | 0.026 ± 0.002 | LT 0.04 |
| 12/03/12 | 0.023 ± 0.002 | LT 0.04 |
| 12/10/12 | 0.014 ± 0.002 | LT 0.03 |
| 12/17/12 | 0.015 ± 0.002 | LT 0.04 |
| 12/22/12 | 0.016 ± 0.003 | LT 0.06 |
| 12/31/12 | 0.012 ± 0.002 | LT 0.03 |
| | | |

LT – Less Than
 ~~~~ – No Sample  
 \* – Based on Sampling Duration  
 X – Data Missing

Appendix A

Atmospheric Monitoring  
 D. C. Cook  
 2012  
 Bridgman Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 01/03/12        | 0.014 ± 0.002                    | LT 0.05                                |
| 01/09/12        | 0.012 ± 0.002                    | LT 0.04                                |
| 01/15/12        | 0.017 ± 0.002                    | LT 0.04                                |
| 01/23/12        | 0.017 ± 0.002                    | LT 0.02                                |
| 01/30/12        | 0.016 ± 0.002                    | LT 0.03                                |
| 02/06/12        | 0.014 ± 0.002                    | LT 0.03                                |
| 02/13/12        | 0.014 ± 0.002                    | LT 0.04                                |
| 02/20/12        | 0.013 ± 0.002                    | LT 0.03                                |
| 02/27/12        | 0.016 ± 0.002                    | LT 0.04                                |
| 03/04/12        | 0.008 ± 0.002                    | LT 0.05                                |
| 03/12/12        | 0.020 ± 0.002                    | LT 0.04                                |
| 03/19/12        | 0.005 ± 0.001                    | LT 0.03                                |
| 03/26/12        | 0.004 ± 0.001                    | LT 0.03                                |
| 04/02/12        | 0.002 ± 0.001                    | LT 0.03                                |
| 04/09/12        | 0.007 ± 0.001                    | LT 0.03                                |
| 04/16/12        | 0.006 ± 0.001                    | LT 0.03                                |
| 04/23/12        | 0.005 ± 0.001                    | LT 0.04                                |
| 04/30/12        | 0.006 ± 0.001                    | LT 0.03                                |
| 05/07/12        | 0.005 ± 0.001                    | LT 0.03                                |
| 05/14/12        | 0.003 ± 0.001                    | LT 0.03                                |
| 05/21/12        | 0.016 ± 0.002                    | LT 0.03                                |
| 05/29/12        | 0.008 ± 0.001                    | LT 0.02                                |
| 06/04/12        | 0.004 ± 0.002                    | LT 0.04                                |
| 06/11/12        | 0.010 ± 0.002                    | LT 0.05                                |
| 06/18/12        | 0.004 ± 0.001                    | LT 0.03                                |
| 06/25/12        | 0.005 ± 0.001                    | LT 0.04                                |
| 07/02/12        | 0.007 ± 0.001                    | X                                      |

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 07/09/12        | 0.010 ± 0.002                    | LT 0.04                                |
| 07/16/12        | 0.009 ± 0.002                    | LT 0.03                                |
| 07/23/12        | 0.006 ± 0.001                    | LT 0.03                                |
| 07/30/12        | 0.007 ± 0.002                    | LT 0.03                                |
| 08/06/12        | 0.007 ± 0.002                    | LT 0.03                                |
| 08/13/12        | 0.004 ± 0.001                    | LT 0.03                                |
| 08/20/12        | 0.006 ± 0.001                    | LT 0.03                                |
| 08/27/12        | 0.010 ± 0.002                    | LT 0.03                                |
| 09/04/12        | 0.008 ± 0.001                    | LT 0.03                                |
| 09/10/12        | 0.007 ± 0.002                    | LT 0.04                                |
| 09/17/12        | 0.011 ± 0.002                    | LT 0.03                                |
| 09/24/12        | 0.005 ± 0.001                    | LT 0.03                                |
| 10/01/12        | 0.007 ± 0.002                    | LT 0.03                                |
| 10/08/12        | 0.005 ± 0.001                    | LT 0.03                                |
| 10/15/12        | 0.006 ± 0.002                    | LT 0.03                                |
| 10/22/12        | 0.008 ± 0.002                    | LT 0.03                                |
| 10/29/12        | 0.008 ± 0.002                    | LT 0.05                                |
| 11/05/12        | 0.005 ± 0.001                    | LT 0.03                                |
| 11/05/12        | 0.007 ± 0.002                    | LT 0.03                                |
| 11/12/12        | 0.011 ± 0.002                    | LT 0.06                                |
| 11/26/12        | 0.016 ± 0.002                    | LT 0.04                                |
| 12/03/12        | 0.014 ± 0.002                    | LT 0.04                                |
| 12/10/12        | 0.018 ± 0.002                    | LT 0.03                                |
| 12/17/12        | 0.009 ± 0.002                    | LT 0.04                                |
| 12/22/12        | 0.010 ± 0.002                    | LT 0.06                                |
| 12/31/12        | 0.008 ± 0.001                    | LT 0.03                                |
|                 |                                  |                                        |

LT - Less Than  
 X - Data Missing

Appendix A

Atmospheric Monitoring  
 D. C. Cook  
 2012  
 Stevensville Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 01/03/12        | 0.018 ± 0.002                    | LT 0.05                                |
| 01/09/12        | 0.012 ± 0.002                    | LT 0.04                                |
| 01/15/12        | 0.017 ± 0.002                    | LT 0.04                                |
| 01/23/12        | 0.013 ± 0.002                    | LT 0.02                                |
| 01/30/12        | 0.019 ± 0.002                    | LT 0.03                                |
| 02/06/12        | 0.018 ± 0.002                    | LT 0.03                                |
| 02/13/12        | 0.014 ± 0.002                    | LT 0.03                                |
| 02/20/12        | 0.017 ± 0.002                    | LT 0.03                                |
| 02/27/12        | 0.017 ± 0.002                    | LT 0.03                                |
| 03/04/12        | 0.012 ± 0.002                    | LT 0.04                                |
| 03/12/12        | 0.024 ± 0.002                    | LT 0.03                                |
| 03/19/12        | 0.020 ± 0.002                    | LT 0.03                                |
| 03/26/12        | 0.013 ± 0.002                    | LT 0.03                                |
| 04/02/12        | 0.009 ± 0.002                    | LT 0.03                                |
| 04/09/12        | 0.016 ± 0.002                    | LT 0.03                                |
| 04/16/12        | 0.016 ± 0.002                    | LT 0.03                                |
| 04/23/12        | 0.011 ± 0.002                    | LT 0.04                                |
| 04/30/12        | ~~~~                             | ~~~~                                   |
| 05/07/12        | 0.013 ± 0.002                    | LT 0.03                                |
| 05/14/12        | 0.011 ± 0.002                    | LT 0.03                                |
| 05/21/12        | 0.018 ± 0.002                    | LT 0.03                                |
| 05/29/12        | 0.016 ± 0.002                    | LT 0.02                                |
| 06/04/12        | 0.011 ± 0.002                    | LT 0.04                                |
| 06/11/12        | 0.021 ± 0.003                    | LT 0.05                                |
| 06/18/12        | 0.014 ± 0.002                    | LT 0.03                                |
| 06/25/12        | 0.014 ± 0.002                    | LT 0.04                                |
| 07/02/12        | 0.019 ± 0.002                    | X                                      |

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 07/09/12        | 0.022 ± 0.002                    | LT 0.04                                |
| 07/16/12        | 0.020 ± 0.002                    | LT 0.03                                |
| 07/23/12        | 0.018 ± 0.002                    | LT 0.03                                |
| 07/30/12        | 0.017 ± 0.002                    | LT 0.03                                |
| 08/06/12        | 0.016 ± 0.002                    | LT 0.03                                |
| 08/13/12        | 0.010 ± 0.002                    | LT 0.03                                |
| 08/20/12        | 0.019 ± 0.002                    | LT 0.03                                |
| 08/27/12        | 0.024 ± 0.002                    | LT 0.03                                |
| 09/04/12        | 0.017 ± 0.002                    | LT 0.03                                |
| 09/10/12        | 0.015 ± 0.002                    | LT 0.04                                |
| 09/17/12        | 0.020 ± 0.002                    | LT 0.03                                |
| 09/24/12        | 0.023 ± 0.004*                   | LT 0.03*                               |
| 10/01/12        | 0.019 ± 0.002                    | LT 0.03                                |
| 10/08/12        | 0.013 ± 0.002                    | LT 0.03                                |
| 10/15/12        | 0.015 ± 0.002                    | LT 0.03                                |
| 10/22/12        | 0.018 ± 0.002                    | LT 0.03                                |
| 10/29/12        | 0.017 ± 0.002                    | LT 0.05                                |
| 11/05/12        | 0.011 ± 0.002                    | LT 0.03                                |
| 11/05/12        | 0.020 ± 0.002                    | LT 0.03                                |
| 11/12/12        | 0.026 ± 0.002                    | LT 0.06                                |
| 11/26/12        | 0.033 ± 0.003                    | LT 0.04                                |
| 12/03/12        | 0.033 ± 0.003                    | LT 0.04                                |
| 12/10/12        | 0.017 ± 0.002                    | LT 0.03                                |
| 12/17/12        | 0.020 ± 0.002                    | LT 0.04                                |
| 12/22/12        | 0.025 ± 0.003                    | LT 0.06                                |
| 12/31/12        | 0.021 ± 0.002                    | LT 0.03                                |
|                 |                                  |                                        |

LT – Less Than  
 ~~~~ – No Sample  
 * – Based on Sampling Duration
 X – Data Missing

Appendix A

Atmospheric Monitoring
D. C. Cook
2012
Livingston Road Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 01/03/12 | 0.016 ± 0.002 | LT 0.05 |
| 01/09/12 | 0.015 ± 0.002 | LT 0.04 |
| 01/15/12 | 0.017 ± 0.002 | LT 0.04 |
| 01/23/12 | 0.015 ± 0.002 | LT 0.02 |
| 01/30/12 | 0.020 ± 0.002 | LT 0.03 |
| 02/06/12 | 0.015 ± 0.002 | LT 0.03 |
| 02/13/12 | 0.015 ± 0.002 | LT 0.03 |
| 02/20/12 | 0.016 ± 0.002 | LT 0.03 |
| 02/27/12 | 0.006 ± 0.001 | LT 0.03 |
| 03/04/12 | 0.007 ± 0.002 | LT 0.05 |
| 03/12/12 | 0.024 ± 0.001 | LT 0.03 |
| 03/19/12 | 0.017 ± 0.002 | LT 0.03 |
| 03/26/12 | 0.014 ± 0.002 | LT 0.03 |
| 04/02/12 | 0.011 ± 0.002 | LT 0.03 |
| 04/09/12 | 0.010 ± 0.002 | LT 0.03 |
| 04/16/12 | 0.014 ± 0.002 | LT 0.03 |
| 04/23/12 | 0.014 ± 0.002 | LT 0.04 |
| 04/30/12 | 0.019 ± 0.002 | LT 0.03 |
| 05/07/12 | 0.012 ± 0.002 | LT 0.03 |
| 05/14/12 | 0.010 ± 0.002 | LT 0.03 |
| 05/21/12 | 0.013 ± 0.002 | LT 0.03 |
| 05/29/12 | 0.016 ± 0.002 | LT 0.02 |
| 06/04/12 | 0.010 ± 0.002 | LT 0.04 |
| 06/11/12 | 0.024 ± 0.003 | LT 0.05 |
| 06/18/12 | 0.011 ± 0.002 | LT 0.03 |
| 06/25/12 | 0.013 ± 0.002 | LT 0.04 |
| 07/02/12 | 0.019 ± 0.002 | X |

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 07/09/12 | 0.018 ± 0.002 | LT 0.04 |
| 07/16/12 | 0.016 ± 0.002 | LT 0.03 |
| 07/23/12 | 0.015 ± 0.002 | LT 0.03 |
| 07/30/12 | 0.015 ± 0.002 | LT 0.03 |
| 08/06/12 | 0.015 ± 0.002 | LT 0.03 |
| 08/13/12 | 0.011 ± 0.002 | LT 0.03 |
| 08/20/12 | 0.014 ± 0.002 | LT 0.03 |
| 08/27/12 | 0.023 ± 0.002 | LT 0.03 |
| 09/04/12 | 0.017 ± 0.002 | LT 0.03 |
| 09/10/12 | 0.013 ± 0.002 | LT 0.04 |
| 09/17/12 | 0.020 ± 0.002 | LT 0.03 |
| 09/24/12 | 0.010 ± 0.002 | LT 0.03 |
| 10/01/12 | 0.015 ± 0.002 | LT 0.03 |
| 10/08/12 | 0.013 ± 0.002 | LT 0.03 |
| 10/15/12 | 0.015 ± 0.002 | LT 0.03 |
| 10/22/12 | 0.016 ± 0.002 | LT 0.03 |
| 10/29/12 | 0.015 ± 0.002 | LT 0.05 |
| 11/05/12 | 0.006 ± 0.001 | LT 0.03 |
| 11/05/12 | 0.017 ± 0.002 | LT 0.03 |
| 11/12/12 | 0.029 ± 0.003 | LT 0.06 |
| 11/26/12 | 0.035 ± 0.003 | LT 0.04 |
| 12/03/12 | 0.033 ± 0.003 | LT 0.04 |
| 12/10/12 | 0.018 ± 0.002 | LT 0.03 |
| 12/17/12 | 0.011 ± 0.002 | LT 0.04 |
| 12/22/12 | 0.013 ± 0.002 | LT 0.06 |
| 12/31/12 | 0.009 ± 0.001 | LT 0.03 |
| | | |

LT - Less Than
X - Data Missing

Appendix A

Atmospheric Monitoring
 D. C. Cook
 2007
 Peddy Farm Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 01/03/12 | 0.018 ± 0.002 | LT 0.05 |
| 01/09/12 | 0.019 ± 0.002 | LT 0.04 |
| 01/15/12 | 0.019 ± 0.002 | LT 0.04 |
| 01/23/12 | 0.016 ± 0.002 | LT 0.02 |
| 01/30/12 | 0.019 ± 0.002 | LT 0.03 |
| 02/06/12 | 0.018 ± 0.002 | LT 0.04 |
| 02/13/12 | 0.013 ± 0.002 | LT 0.03 |
| 02/20/12 | 0.012 ± 0.002 | LT 0.03 |
| 02/27/12 | 0.012 ± 0.002 | LT 0.03 |
| 03/04/12 | 0.021 ± 0.002 | LT 0.04 |
| 03/12/12 | 0.020 ± 0.002 | LT 0.03 |
| 03/19/12 | 0.012 ± 0.002 | LT 0.03 |
| 03/26/12 | 0.012 ± 0.002 | LT 0.03 |
| 04/02/12 | 0.010 ± 0.002 | LT 0.03 |
| 04/09/12 | 0.017 ± 0.002 | LT 0.03 |
| 04/16/12 | 0.012 ± 0.002 | LT 0.03 |
| 04/23/12 | 0.011 ± 0.002 | LT 0.04 |
| 04/30/12 | 0.018 ± 0.002 | LT 0.03 |
| 05/07/12 | 0.012 ± 0.002 | LT 0.03 |
| 05/14/12 | 0.012 ± 0.002 | LT 0.03 |
| 05/21/12 | 0.016 ± 0.002 | LT 0.03 |
| 05/29/12 | 0.017 ± 0.002 | LT 0.02 |
| 06/04/12 | 0.009 ± 0.002 | LT 0.04 |
| 06/11/12 | 0.025 ± 0.003 | LT 0.05 |
| 06/18/12 | 0.013 ± 0.002 | LT 0.03 |
| 06/25/12 | 0.011 ± 0.002 | LT 0.04 |
| 07/02/12 | 0.019 ± 0.002 | X |

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|
| 07/09/12 | 0.019 ± 0.002 | LT 0.04 |
| 07/16/12 | LT 0.001* | LT 0.03 |
| 07/23/12 | LT 0.001* | LT 0.03 |
| 07/30/12 | 0.014 ± 0.002 | LT 0.03 |
| 08/06/12 | 0.017 ± 0.002 | LT 0.03 |
| 08/13/12 | 0.011 ± 0.002 | LT 0.03 |
| 08/20/12 | 0.016 ± 0.002 | LT 0.03 |
| 08/27/12 | 0.024 ± 0.002 | LT 0.03 |
| 09/04/12 | 0.017 ± 0.002 | LT 0.03 |
| 09/10/12 | 0.015 ± 0.002 | LT 0.04 |
| 09/17/12 | 0.023 ± 0.002 | LT 0.03 |
| 09/24/12 | 0.010 ± 0.002 | LT 0.03 |
| 10/01/12 | 0.020 ± 0.002 | LT 0.03 |
| 10/08/12 | 0.012 ± 0.002 | LT 0.03 |
| 10/15/12 | 0.016 ± 0.002 | LT 0.03 |
| 10/22/12 | 0.017 ± 0.002 | LT 0.03 |
| 10/29/12 | 0.017 ± 0.002 | LT 0.05 |
| 11/05/12 | 0.012 ± 0.002 | LT 0.03 |
| 11/05/12 | 0.018 ± 0.002 | LT 0.03 |
| 11/12/12 | 0.027 ± 0.002 | LT 0.06 |
| 11/26/12 | 0.035 ± 0.003 | LT 0.04 |
| 12/03/12 | 0.035 ± 0.003 | LT 0.04 |
| 12/10/12 | 0.017 ± 0.002 | LT 0.03 |
| 12/17/12 | 0.022 ± 0.002 | LT 0.04 |
| 12/22/12 | 0.024 ± 0.003 | LT 0.06 |
| 12/31/12 | 0.013 ± 0.002 | LT 0.03 |
| | | |

LT – Less Than
 * – Based on Sampling Duration
 X – Data Missing

Appendix A

Atmospheric Monitoring
Fermi 2
2012
Reactor Site Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/05/12 | 0.019 ± 0.002 | LT 0.05 | 07/05/12 | 0.026 ± 0.002 | LT 0.05 |
| 01/12/12 | 0.020 ± 0.002 | LT 0.05 | 07/12/12 | 0.017 ± 0.002 | LT 0.04 |
| 01/19/12 | 0.016 ± 0.002 | LT 0.04 | 07/19/12 | 0.025 ± 0.002 | LT 0.04 |
| 01/26/12 | 0.022 ± 0.002 | LT 0.04 | 07/26/12 | 0.020 ± 0.002 | LT 0.04 |
| 02/02/12 | 0.016 ± 0.002 | LT 0.04 | 08/02/12 | 0.018 ± 0.002 | LT 0.04 |
| 02/09/12 | 0.016 ± 0.002 | LT 0.04 | 08/09/12 | 0.020 ± 0.002 | LT 0.04 |
| 02/16/12 | 0.017 ± 0.002 | LT 0.04 | 08/19/12 | 0.016 ± 0.002 | LT 0.03 |
| 02/23/12 | 0.020 ± 0.002 | LT 0.04 | 08/23/12 | 0.016 ± 0.002 | LT 0.04 |
| 03/01/12 | 0.017 ± 0.002 | LT 0.04 | 08/30/12 | 0.028 ± 0.002 | LT 0.04 |
| 03/08/12 | 0.016 ± 0.002 | LT 0.04 | 09/06/12 | 0.023 ± 0.002 | LT 0.04 |
| 03/15/12 | 0.022 ± 0.002 | LT 0.04 | 09/13/12 | 0.023 ± 0.002 | LT 0.04 |
| 03/22/12 | 0.010 ± 0.002 | LT 0.04 | 09/20/12 | 0.021 ± 0.002 | LT 0.04 |
| 03/29/12 | 0.014 ± 0.002 | LT 0.04 | 09/27/12 | 0.018 ± 0.002 | LT 0.04 |
| 04/05/12 | 0.013 ± 0.002 | LT 0.04 | 10/04/12 | 0.020 ± 0.002 | LT 0.05 |
| 04/12/12 | 0.013 ± 0.002 | LT 0.03 | 10/11/12 | 0.017 ± 0.002 | LT 0.04 |
| 04/19/12 | 0.018 ± 0.002 | LT 0.04 | 10/18/12 | 0.021 ± 0.002 | LT 0.04 |
| 04/26/12 | 0.020 ± 0.002 | LT 0.04 | 10/25/12 | 0.026 ± 0.002 | LT 0.05 |
| 05/04/12 | 0.020 ± 0.002 | LT 0.03 | 11/01/12 | 0.008 ± 0.002 | LT 0.04 |
| 05/10/12 | 0.014 ± 0.002 | LT 0.05 | 11/08/12 | 0.014 ± 0.002 | LT 0.04 |
| 05/17/12 | 0.016 ± 0.002 | LT 0.04 | 11/13/12 | 0.028 ± 0.003 | LT 0.07 |
| 05/24/12 | 0.015 ± 0.002 | LT 0.04 | 11/21/12 | 0.041 ± 0.003 | LT 0.05 |
| 05/31/12 | 0.019 ± 0.002 | LT 0.04 | 11/29/12 | 0.035 ± 0.002 | LT 0.04 |
| 06/07/12 | 0.012 ± 0.002 | LT 0.04 | 12/06/12 | 0.035 ± 0.003 | LT 0.05 |
| 06/14/12 | 0.015 ± 0.002 | LT 0.04 | 12/13/12 | 0.019 ± 0.002 | LT 0.05 |
| 06/20/12 | 0.018 ± 0.002 | LT 0.06 | 12/20/12 | 0.036 ± 0.003 | LT 0.05 |
| 06/28/12 | 0.016 ± 0.002 | LT 0.03 | 12/27/12 | 0.017 ± 0.002 | LT 0.05 |

LT – Less Than

Appendix A

Atmospheric Monitoring
Fermi 2
2012
Pointe Aux Peaux Road Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/05/12 | 0.017 ± 0.002 | LT 0.05 | 07/05/12 | 0.023 ± 0.002 | LT 0.05 |
| 01/12/12 | 0.016 ± 0.002 | LT 0.05 | 07/12/12 | 0.015 ± 0.002 | LT 0.04 |
| 01/19/12 | 0.011 ± 0.002 | LT 0.04 | 07/19/12 | 0.022 ± 0.002 | LT 0.04 |
| 01/26/12 | 0.022 ± 0.002 | LT 0.04 | 07/26/12 | 0.019 ± 0.002 | LT 0.04 |
| 02/02/12 | 0.017 ± 0.002 | LT 0.04 | 08/02/12 | 0.015 ± 0.002 | LT 0.04 |
| 02/09/12 | 0.015 ± 0.002 | LT 0.04 | 08/09/12 | 0.020 ± 0.002 | LT 0.04 |
| 02/16/12 | 0.014 ± 0.002 | LT 0.04 | 08/19/12 | 0.016 ± 0.002 | LT 0.03 |
| 02/23/12 | 0.016 ± 0.002 | LT 0.04 | 08/23/12 | 0.013 ± 0.002 | LT 0.04 |
| 03/01/12 | 0.014 ± 0.002 | LT 0.04 | 08/30/12 | 0.028 ± 0.002 | LT 0.04 |
| 03/08/12 | 0.015 ± 0.002 | LT 0.04 | 09/06/12 | 0.021 ± 0.002 | LT 0.04 |
| 03/15/12 | 0.019 ± 0.002 | LT 0.04 | 09/13/12 | 0.024 ± 0.002* | LT 0.07* |
| 03/22/12 | 0.009 ± 0.002 | LT 0.04 | 09/20/12 | 0.017 ± 0.002* | LT 0.09* |
| 03/29/12 | 0.013 ± 0.002 | LT 0.04 | 09/27/12 | 0.018 ± 0.002 | LT 0.04 |
| 04/05/12 | 0.010 ± 0.002 | LT 0.04 | 10/04/12 | 0.020 ± 0.002 | LT 0.05 |
| 04/12/12 | 0.012 ± 0.002 | LT 0.03 | 10/11/12 | 0.017 ± 0.002 | LT 0.04 |
| 04/19/12 | 0.016 ± 0.002 | LT 0.04 | 10/18/12 | 0.023 ± 0.002 | LT 0.04 |
| 04/26/12 | 0.016 ± 0.002 | LT 0.04 | 10/25/12 | 0.024 ± 0.002 | LT 0.05 |
| 05/04/12 | 0.016 ± 0.002 | LT 0.03 | 11/01/12 | 0.010 ± 0.002 | LT 0.04 |
| 05/10/12 | 0.012 ± 0.002 | LT 0.05 | 11/08/12 | 0.013 ± 0.002 | LT 0.04 |
| 05/17/12 | 0.014 ± 0.002 | LT 0.04 | 11/13/12 | 0.028 ± 0.003 | LT 0.07 |
| 05/24/12 | 0.014 ± 0.002 | LT 0.04 | 11/21/12 | 0.040 ± 0.003 | LT 0.05 |
| 05/31/12 | 0.016 ± 0.002 | LT 0.04 | 11/29/12 | 0.034 ± 0.002 | LT 0.04 |
| 06/07/12 | 0.009 ± 0.002 | LT 0.04 | 12/06/12 | 0.030 ± 0.003 | LT 0.05 |
| 06/14/12 | 0.015 ± 0.002 | LT 0.04 | 12/13/12 | 0.023 ± 0.002 | LT 0.05 |
| 06/20/12 | 0.012 ± 0.002 | LT 0.06 | 12/20/12 | 0.038 ± 0.003 | LT 0.05 |
| 06/28/12 | 0.013 ± 0.002 | LT 0.03 | 12/27/12 | 0.015 ± 0.002 | LT 0.05 |

LT – Less Than
* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring
Fermi 2
2012
Nadeau Road Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/05/12 | 0.018 ± 0.002 | LT 0.05 | 07/05/12 | 0.027 ± 0.002 | LT 0.05 |
| 01/12/12 | 0.017 ± 0.002 | LT 0.05 | 07/12/12 | 0.019 ± 0.002 | LT 0.04 |
| 01/19/12 | 0.014 ± 0.002 | LT 0.04 | 07/19/12 | 0.024 ± 0.002 | LT 0.04 |
| 01/26/12 | 0.021 ± 0.002 | LT 0.04 | 07/26/12 | 0.018 ± 0.002 | LT 0.04 |
| 02/02/12 | 0.016 ± 0.002 | LT 0.04 | 08/02/12 | 0.016 ± 0.002 | LT 0.04 |
| 02/09/12 | 0.013 ± 0.002 | LT 0.04 | 08/09/12 | 0.020 ± 0.002 | LT 0.04 |
| 02/16/12 | 0.015 ± 0.002 | LT 0.04 | 08/19/12 | 0.015 ± 0.002 | LT 0.03 |
| 02/23/12 | 0.017 ± 0.002 | LT 0.04 | 08/23/12 | 0.016 ± 0.002 | LT 0.04 |
| 03/01/12 | 0.014 ± 0.002 | LT 0.04 | 08/30/12 | 0.027 ± 0.002 | LT 0.04 |
| 03/08/12 | 0.016 ± 0.002 | LT 0.04 | 09/06/12 | 0.022 ± 0.002 | LT 0.04 |
| 03/15/12 | 0.019 ± 0.002 | LT 0.04 | 09/13/12 | 0.021 ± 0.002 | LT 0.04 |
| 03/22/12 | 0.011 ± 0.002 | LT 0.04 | 09/20/12 | 0.019 ± 0.002 | LT 0.04 |
| 03/29/12 | 0.013 ± 0.002 | LT 0.04 | 09/27/12 | 0.019 ± 0.002 | LT 0.04 |
| 04/05/12 | 0.011 ± 0.002 | LT 0.04 | 10/04/12 | 0.020 ± 0.002 | LT 0.05 |
| 04/12/12 | 0.014 ± 0.002 | LT 0.03 | 10/11/12 | 0.015 ± 0.002 | LT 0.04 |
| 04/19/12 | 0.015 ± 0.002 | LT 0.04 | 10/18/12 | 0.019 ± 0.002 | LT 0.04 |
| 04/26/12 | 0.019 ± 0.002 | LT 0.04 | 10/25/12 | 0.023 ± 0.002 | LT 0.05 |
| 05/04/12 | 0.018 ± 0.002 | LT 0.03 | 11/01/12 | 0.009 ± 0.002 | LT 0.04 |
| 05/10/12 | 0.013 ± 0.002 | LT 0.05 | 11/08/12 | 0.014 ± 0.002 | LT 0.04 |
| 05/17/12 | 0.015 ± 0.002 | LT 0.04 | 11/13/12 | 0.039 ± 0.005* | LT 0.07* |
| 05/24/12 | 0.014 ± 0.002 | LT 0.04 | 11/21/12 | ~~~~ | ~~~~ |
| 05/31/12 | 0.016 ± 0.002 | LT 0.04 | 11/29/12 | ~~~~ | ~~~~ |
| 06/07/12 | 0.011 ± 0.002 | LT 0.04 | 12/06/12 | ~~~~ | ~~~~ |
| 06/14/12 | 0.014 ± 0.002 | LT 0.04 | 12/13/12 | ~~~~ | ~~~~ |
| 06/20/12 | 0.015 ± 0.002 | LT 0.06 | 12/20/12 | ~~~~ | ~~~~ |
| 06/28/12 | 0.016 ± 0.002 | LT 0.03 | 12/27/12 | ~~~~ | ~~~~ |

LT – Less Than

~~~~ – No Sample

\* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring  
Fermi 2  
2012  
Dixie Highway Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 01/05/12        | 0.018 ± 0.002                    | LT 0.05                                |
| 01/12/12        | 0.020 ± 0.002                    | LT 0.05                                |
| 01/19/12        | 0.015 ± 0.002                    | LT 0.04                                |
| 01/26/12        | 0.023 ± 0.002                    | LT 0.04                                |
| 02/02/12        | 0.017 ± 0.002                    | LT 0.04                                |
| 02/09/12        | 0.018 ± 0.002                    | LT 0.04                                |
| 02/16/12        | 0.013 ± 0.002                    | LT 0.04                                |
| 02/23/12        | 0.035 ± 0.004*                   | LT 0.08*                               |
| 03/01/12        | ~~~~                             | ~~~~                                   |
| 03/08/12        | 0.017 ± 0.002                    | LT 0.04                                |
| 03/15/12        | 0.020 ± 0.002                    | LT 0.04                                |
| 03/22/12        | 0.011 ± 0.002                    | LT 0.04                                |
| 03/29/12        | 0.013 ± 0.002                    | LT 0.04                                |
| 04/05/12        | 0.012 ± 0.002                    | LT 0.04                                |
| 04/12/12        | 0.013 ± 0.002                    | LT 0.03                                |
| 04/19/12        | 0.016 ± 0.002                    | LT 0.04                                |
| 04/26/12        | 0.020 ± 0.002                    | LT 0.04                                |
| 05/04/12        | 0.020 ± 0.002                    | LT 0.03                                |
| 05/10/12        | 0.013 ± 0.002                    | LT 0.05                                |
| 05/17/12        | 0.016 ± 0.002                    | LT 0.04                                |
| 05/24/12        | 0.016 ± 0.002                    | LT 0.04                                |
| 05/31/12        | 0.017 ± 0.002                    | LT 0.04                                |
| 06/07/12        | 0.009 ± 0.002                    | LT 0.04                                |
| 06/14/12        | 0.015 ± 0.002                    | LT 0.04                                |
| 06/20/12        | 0.018 ± 0.002                    | LT 0.06                                |
| 06/28/12        | 0.016 ± 0.002                    | LT 0.03                                |

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|
| 07/05/12        | 0.025 ± 0.002                    | LT 0.05                                |
| 07/12/12        | 0.018 ± 0.002                    | LT 0.04                                |
| 07/19/12        | 0.021 ± 0.002                    | LT 0.04                                |
| 07/26/12        | 0.022 ± 0.002                    | LT 0.04                                |
| 08/02/12        | 0.016 ± 0.002                    | LT 0.04                                |
| 08/09/12        | 0.020 ± 0.002                    | LT 0.04                                |
| 08/19/12        | 0.017 ± 0.002                    | LT 0.03                                |
| 08/23/12        | 0.017 ± 0.002                    | LT 0.04                                |
| 08/30/12        | 0.029 ± 0.002                    | LT 0.04                                |
| 09/06/12        | 0.022 ± 0.002                    | LT 0.04                                |
| 09/13/12        | 0.023 ± 0.002                    | LT 0.04                                |
| 09/20/12        | 0.019 ± 0.002                    | LT 0.04                                |
| 09/27/12        | 0.017 ± 0.002                    | LT 0.04                                |
| 10/04/12        | 0.018 ± 0.002                    | LT 0.05                                |
| 10/11/12        | 0.017 ± 0.002                    | LT 0.04                                |
| 10/18/12        | 0.021 ± 0.002                    | LT 0.04                                |
| 10/25/12        | 0.024 ± 0.002                    | LT 0.05                                |
| 11/01/12        | 0.009 ± 0.002                    | LT 0.04                                |
| 11/08/12        | 0.015 ± 0.002                    | LT 0.04                                |
| 11/13/12        | 0.030 ± 0.003                    | LT 0.07                                |
| 11/21/12        | 0.038 ± 0.003                    | LT 0.05                                |
| 11/29/12        | 0.032 ± 0.002                    | LT 0.04                                |
| 12/06/12        | 0.031 ± 0.003                    | LT 0.05                                |
| 12/13/12        | 0.021 ± 0.002                    | LT 0.05                                |
| 12/20/12        | 0.033 ± 0.003                    | LT 0.05                                |
| 12/27/12        | 0.019 ± 0.002                    | LT 0.05                                |

LT – Less Than  
 ~~~~ – No Sample  
 * – Based on Sampling Duration

Appendix A

Atmospheric Monitoring
Fermi 2
2012
Fix Farm Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/05/12 | 0.020 ± 0.002 | LT 0.05 | 07/05/12 | 0.024 ± 0.002 | LT 0.05 |
| 01/12/12 | 0.021 ± 0.002 | LT 0.05 | 07/12/12 | 0.016 ± 0.002 | LT 0.04 |
| 01/19/12 | 0.015 ± 0.002 | LT 0.04 | 07/19/12 | 0.022 ± 0.002 | LT 0.04 |
| 01/26/12 | 0.022 ± 0.002 | LT 0.04 | 07/26/12 | 0.017 ± 0.002 | LT 0.04 |
| 02/02/12 | 0.015 ± 0.002 | LT 0.04 | 08/02/12 | 0.017 ± 0.002 | LT 0.04 |
| 02/09/12 | 0.017 ± 0.002 | LT 0.04 | 08/09/12 | 0.021 ± 0.002 | LT 0.04 |
| 02/16/12 | 0.015 ± 0.002 | LT 0.04 | 08/19/12 | 0.017 ± 0.002 | LT 0.03 |
| 02/23/12 | 0.020 ± 0.002 | LT 0.04 | 08/23/12 | 0.016 ± 0.002 | LT 0.04 |
| 03/01/12 | 0.017 ± 0.002 | LT 0.04 | 08/30/12 | 0.030 ± 0.003 | LT 0.04 |
| 03/08/12 | 0.017 ± 0.002 | LT 0.04 | 09/06/12 | 0.023 ± 0.002 | LT 0.04 |
| 03/15/12 | 0.020 ± 0.002 | LT 0.04 | 09/13/12 | 0.022 ± 0.002 | LT 0.04 |
| 03/22/12 | 0.013 ± 0.002* | LT 0.08* | 09/20/12 | 0.021 ± 0.002 | LT 0.04 |
| 03/29/12 | 0.014 ± 0.002 | LT 0.04 | 09/27/12 | 0.019 ± 0.002 | LT 0.04 |
| 04/05/12 | 0.011 ± 0.002 | LT 0.04 | 10/04/12 | 0.023 ± 0.002 | LT 0.05 |
| 04/12/12 | 0.015 ± 0.002 | LT 0.03 | 10/11/12 | 0.019 ± 0.002 | LT 0.04 |
| 04/19/12 | 0.019 ± 0.002 | LT 0.04 | 10/18/12 | 0.021 ± 0.002 | LT 0.04 |
| 04/26/12 | 0.018 ± 0.002 | LT 0.04 | 10/25/12 | 0.026 ± 0.002 | LT 0.05 |
| 05/04/12 | 0.018 ± 0.002 | LT 0.03 | 11/01/12 | 0.009 ± 0.002 | LT 0.04 |
| 05/10/12 | 0.012 ± 0.002 | LT 0.05 | 11/08/12 | 0.012 ± 0.002 | LT 0.04 |
| 05/17/12 | 0.016 ± 0.002 | LT 0.04 | 11/13/12 | 0.029 ± 0.003 | LT 0.07 |
| 05/24/12 | 0.014 ± 0.002 | LT 0.04 | 11/21/12 | 0.039 ± 0.003 | LT 0.05 |
| 05/31/12 | 0.017 ± 0.002 | LT 0.04 | 11/29/12 | 0.031 ± 0.002 | LT 0.04 |
| 06/07/12 | 0.011 ± 0.002 | LT 0.04 | 12/06/12 | 0.031 ± 0.003 | LT 0.05 |
| 06/14/12 | 0.016 ± 0.002 | LT 0.04 | 12/13/12 | 0.022 ± 0.002 | LT 0.05 |
| 06/20/12 | 0.016 ± 0.002 | LT 0.06 | 12/20/12 | 0.035 ± 0.003 | LT 0.05 |
| 06/28/12 | 0.015 ± 0.002 | LT 0.03 | 12/27/12 | 0.016 ± 0.002 | LT 0.05 |

LT – Less Than
* – Based on Sampling Duration

Appendix A

Atmospheric Monitoring 2012 Lansing Background Reference Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/03/12 | 0.013 ± 0.002 | LT 0.03 | 07/02/12 | 0.018 ± 0.001 | LT 0.01 |
| 01/09/12 | 0.017 ± 0.002 | LT 0.03 | 07/09/12 | 0.022 ± 0.002 | LT 0.02 |
| 01/17/12 | 0.017 ± 0.002 | LT 0.02 | 07/16/12 | 0.022 ± 0.002 | LT 0.02 |
| 01/23/12 | 0.016 ± 0.002 | LT 0.03 | 07/23/12 | 0.020 ± 0.002 | LT 0.03 |
| 01/30/12 | 0.015 ± 0.002 | LT 0.03 | 07/30/12 | 0.014 ± 0.002 | LT 0.02 |
| 02/06/12 | 0.017 ± 0.002 | LT 0.02 | 08/06/12 | 0.019 ± 0.002 | LT 0.03 |
| 02/13/12 | 0.016 ± 0.002 | LT 0.03 | 08/13/12 | 0.012 ± 0.002 | LT 0.03 |
| 02/21/12 | 0.019 ± 0.002 | LT 0.02 | 08/20/12 | 0.020 ± 0.002 | LT 0.03 |
| 02/27/12 | 0.015 ± 0.002 | LT 0.03 | 08/27/12 | 0.027 ± 0.002 | LT 0.03 |
| 03/05/12 | 0.012 ± 0.002 | LT 0.03 | 09/04/12 | 0.022 ± 0.002 | LT 0.03 |
| 03/12/12 | 0.018 ± 0.002 | LT 0.03 | 09/10/12 | 0.018 ± 0.002 | LT 0.03 |
| 03/19/12 | 0.018 ± 0.002 | LT 0.03 | 09/17/12 | 0.022 ± 0.002 | LT 0.03 |
| 03/26/12 | 0.015 ± 0.002 | LT 0.03 | 09/24/12 | 0.012 ± 0.002 | LT 0.03 |
| 04/02/12 | 0.013 ± 0.002 | LT 0.02 | 10/01/12 | 0.020 ± 0.002 | LT 0.02 |
| 04/09/12 | 0.011 ± 0.002 | LT 0.02 | 10/08/12 | 0.017 ± 0.002 | LT 0.03 |
| 04/16/12 | 0.016 ± 0.002 | LT 0.02 | 10/15/12 | 0.015 ± 0.002 | LT 0.02 |
| 04/23/12 | 0.013 ± 0.002 | LT 0.03 | 10/22/12 | 0.016 ± 0.002 | LT 0.03 |
| 04/30/12 | 0.021 ± 0.002 | LT 0.02 | 10/29/12 | 0.019 ± 0.002 | LT 0.03 |
| 05/07/12 | 0.013 ± 0.002 | LT 0.03 | 11/05/12 | 0.011 ± 0.002 | LT 0.03 |
| 05/14/12 | 0.017 ± 0.002 | LT 0.03 | 11/13/12 | 0.022 ± 0.002 | LT 0.02 |
| 05/21/12 | 0.017 ± 0.002 | LT 0.03 | 11/19/12 | 0.032 ± 0.003 | LT 0.03 |
| 05/29/12 | 0.015 ± 0.002 | LT 0.02 | 11/26/12 | 0.037 ± 0.003 | LT 0.03 |
| 06/04/12 | 0.011 ± 0.002 | LT 0.03 | 12/03/12 | 0.034 ± 0.003 | LT 0.03 |
| 06/11/12 | 0.014 ± 0.002 | LT 0.03 | 12/10/12 | 0.018 ± 0.002 | LT 0.03 |
| 06/18/12 | 0.016 ± 0.002 | LT 0.02 | 12/17/12 | 0.020 ± 0.002 | LT 0.03 |
| 06/25/12 | 0.014 ± 0.002 | LT 0.02 | 12/26/12 | 0.019 ± 0.002 | LT 0.02 |

LT – Less Than

Appendix A

Atmospheric Monitoring
Palisades
2013
Reactor Site Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/07/13 | 0.043 ± 0.003 | LT 0.03 | 07/08/13 | 0.015 ± 0.002 | LT 0.05 |
| 01/14/13 | 0.027 ± 0.002 | LT 0.03 | 07/15/13 | 0.015 ± 0.002 | LT 0.05 |
| 01/20/13 | 0.015 ± 0.002 | LT 0.04 | 07/22/13 | 0.015 ± 0.002 | LT 0.03 |
| 01/27/13 | 0.026 ± 0.002 | LT 0.04 | 07/29/13 | 0.008 ± 0.002 | LT 0.03 |
| 02/04/13 | 0.022 ± 0.002 | LT 0.05 | 08/04/13 | 0.014 ± 0.002 | LT 0.04 |
| 02/11/13 | 0.024 ± 0.002 | LT 0.05 | 08/12/13 | 0.014 ± 0.002 | LT 0.03 |
| 02/18/13 | 0.019 ± 0.002 | LT 0.05 | 08/19/13 | 0.035 ± 0.003 | LT 0.03 |
| 02/25/13 | 0.013 ± 0.002 | LT 0.04 | 08/26/13 | 0.019 ± 0.002 | LT 0.03 |
| 03/04/13 | 0.012 ± 0.002 | LT 0.03 | 09/02/13 | 0.020 ± 0.002 | LT 0.03 |
| 03/11/13 | 0.012 ± 0.002 | LT 0.04 | 09/09/13 | 0.019 ± 0.002 | LT 0.03 |
| 03/18/13 | 0.021 ± 0.002 | LT 0.03 | 09/16/13 | 0.022 ± 0.002 | LT 0.03 |
| 03/25/13 | 0.016 ± 0.002 | LT 0.03 | 09/23/13 | 0.012 ± 0.002 | LT 0.03 |
| 04/01/13 | 0.012 ± 0.002 | LT 0.03 | 09/30/13 | 0.014 ± 0.002 | LT 0.03 |
| 04/08/13 | 0.016 ± 0.002 | LT 0.03 | 10/07/13 | 0.016 ± 0.002 | LT 0.03 |
| 04/15/13 | 0.007 ± 0.002 | LT 0.03 | 10/14/13 | 0.020 ± 0.002 | LT 0.04 |
| 04/22/13 | 0.011 ± 0.002 | LT 0.06 | 10/21/13 | 0.013 ± 0.002 | LT 0.03 |
| 04/29/13 | 0.022 ± 0.002 | LT 0.04 | 10/28/13 | 0.009 ± 0.002 | LT 0.03 |
| 05/06/13 | 0.015 ± 0.002 | LT 0.03 | 11/04/13 | 0.015 ± 0.002 | LT 0.03 |
| 05/13/13 | 0.010 ± 0.002 | LT 0.03 | 11/11/13 | ~~~~ | LT 0.06 |
| 05/20/13 | 0.017 ± 0.002 | LT 0.03 | 11/18/13 | 0.016 ± 0.002 | LT 0.03 |
| 05/28/13 | 0.011 ± 0.002 | LT 0.04 | 11/25/13 | 0.018 ± 0.002 | LT 0.03 |
| 06/03/13 | 0.010 ± 0.002 | LT 0.04 | 12/02/13 | 0.025 ± 0.002 | LT 0.02 |
| 06/10/13 | 0.014 ± 0.002 | LT 0.03 | 12/09/13 | 0.027 ± 0.002 | LT 0.03 |
| 06/17/13 | 0.014 ± 0.002 | LT 0.03 | 12/16/13 | 0.028 ± 0.002 | LT 0.04 |
| 06/24/13 | 0.012 ± 0.002 | LT 0.04 | 12/23/13 | 0.017 ± 0.002 | LT 0.05 |
| 07/01/13 | 0.014 ± 0.002 | X | 12/30/13 | 0.028 ± 0.002 | LT 0.03 |

LT - Less Than
 ~~~~ - No Sample  
 X - Data Missing



Appendix A

Atmospheric Monitoring  
Palisades  
2013  
Covert Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/07/13        | 0.035 ± 0.003                    | LT 0.03                                | 07/08/13        | 0.011 ± 0.002                    | LT 0.05                                |
| 01/14/13        | 0.020 ± 0.002                    | LT 0.03                                | 07/15/13        | 0.011 ± 0.002                    | LT 0.05                                |
| 01/20/13        | 0.017 ± 0.002                    | LT 0.04                                | 07/22/13        | 0.011 ± 0.002                    | LT 0.03                                |
| 01/27/13        | 0.021 ± 0.002                    | LT 0.04                                | 07/29/13        | 0.005 ± 0.001                    | LT 0.03                                |
| 02/04/13        | 0.016 ± 0.002                    | LT 0.05                                | 08/04/13        | 0.013 ± 0.002                    | LT 0.04                                |
| 02/11/13        | 0.018 ± 0.002                    | LT 0.05                                | 08/12/13        | 0.010 ± 0.002                    | LT 0.03                                |
| 02/18/13        | 0.015 ± 0.002                    | LT 0.05                                | 08/19/13        | 0.031 ± 0.003                    | LT 0.03                                |
| 02/25/13        | 0.010 ± 0.002                    | LT 0.04                                | 08/26/13        | 0.015 ± 0.002                    | LT 0.03                                |
| 03/04/13        | 0.009 ± 0.002                    | LT 0.03                                | 09/02/13        | 0.017 ± 0.002                    | LT 0.03                                |
| 03/11/13        | 0.010 ± 0.002                    | LT 0.04                                | 09/09/13        | 0.017 ± 0.002                    | LT 0.03                                |
| 03/18/13        | 0.015 ± 0.002                    | LT 0.03                                | 09/16/13        | 0.020 ± 0.002                    | LT 0.03                                |
| 03/25/13        | 0.012 ± 0.002                    | LT 0.03                                | 09/23/13        | 0.010 ± 0.002                    | LT 0.03                                |
| 04/01/13        | 0.008 ± 0.002                    | LT 0.03                                | 09/30/13        | 0.013 ± 0.002                    | LT 0.03                                |
| 04/08/13        | 0.014 ± 0.002                    | LT 0.03                                | 10/07/13        | 0.010 ± 0.002                    | LT 0.03                                |
| 04/15/13        | 0.006 ± 0.001                    | LT 0.03                                | 10/14/13        | 0.015 ± 0.002                    | LT 0.04                                |
| 04/22/13        | 0.008 ± 0.002                    | LT 0.06                                | 10/21/13        | 0.010 ± 0.002                    | LT 0.03                                |
| 04/29/13        | 0.017 ± 0.002                    | LT 0.04                                | 10/28/13        | 0.008 ± 0.002                    | LT 0.03                                |
| 05/06/13        | 0.013 ± 0.002                    | LT 0.03                                | 11/04/13        | 0.008 ± 0.002                    | LT 0.03                                |
| 05/13/13        | 0.008 ± 0.002                    | LT 0.03                                | 11/11/13        | 0.017 ± 0.002                    | ~~~~                                   |
| 05/20/13        | 0.014 ± 0.002                    | LT 0.03                                | 11/18/13        | 0.024 ± 0.004*                   | LT 0.07*                               |
| 05/28/13        | 0.009 ± 0.001                    | LT 0.04                                | 11/25/13        | 0.025 ± 0.004                    | LT 0.06                                |
| 06/03/13        | 0.008 ± 0.002                    | LT 0.04                                | 12/02/13        | 0.019 ± 0.002                    | LT 0.02                                |
| 06/10/13        | 0.012 ± 0.002                    | LT 0.03                                | 12/09/13        | 0.021 ± 0.002                    | LT 0.03                                |
| 06/17/13        | 0.012 ± 0.002                    | LT 0.03                                | 12/16/13        | 0.023 ± 0.002                    | LT 0.04                                |
| 06/24/13        | 0.010 ± 0.002                    | LT 0.04                                | 12/23/13        | 0.015 ± 0.002                    | LT 0.05                                |
| 07/01/13        | 0.012 ± 0.002                    | X                                      | 12/30/13        | 0.021 ± 0.002                    | LT 0.03                                |

LT - Less Than  
 ~~~~ - No Sample  
 * - Based on Sampling Duration
 X - Data Missing

Appendix A

Atmospheric Monitoring
Palisades
2013
South Haven Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/07/13 | 0.050 ± 0.003 | LT 0.03 | 07/08/13 | 0.024 ± 0.002 | LT 0.05 |
| 01/14/13 | 0.032 ± 0.003 | LT 0.03 | 07/15/13 | 0.024 ± 0.002 | LT 0.05 |
| 01/20/13 | 0.026 ± 0.003 | LT 0.04 | 07/22/13 | 0.026 ± 0.002 | LT 0.03 |
| 01/27/13 | 0.028 ± 0.002 | LT 0.04 | 07/29/13 | 0.011 ± 0.002* | LT 0.04* |
| 02/04/13 | 0.025 ± 0.002 | LT 0.05 | 08/04/13 | 0.014 ± 0.002 | LT 0.04 |
| 02/11/13 | 0.031 ± 0.003 | LT 0.05 | 08/12/13 | 0.012 ± 0.002 | LT 0.03 |
| 02/18/13 | 0.022 ± 0.002 | LT 0.05 | 08/19/13 | 0.031 ± 0.003 | LT 0.03 |
| 02/25/13 | 0.014 ± 0.002 | LT 0.04 | 08/26/13 | 0.017 ± 0.002 | LT 0.03 |
| 03/04/13 | 0.015 ± 0.002 | LT 0.03 | 09/02/13 | 0.020 ± 0.002 | LT 0.03 |
| 03/11/13 | 0.017 ± 0.002 | LT 0.04 | 09/09/13 | 0.018 ± 0.002 | LT 0.03 |
| 03/18/13 | 0.024 ± 0.002 | LT 0.03 | 09/16/13 | 0.021 ± 0.002 | LT 0.03 |
| 03/25/13 | 0.020 ± 0.002 | LT 0.03 | 09/23/13 | 0.011 ± 0.002 | LT 0.03 |
| 04/01/13 | 0.011 ± 0.002 | LT 0.03 | 09/30/13 | 0.017 ± 0.002 | LT 0.03 |
| 04/08/13 | 0.024 ± 0.002 | LT 0.03 | 10/07/13 | 0.014 ± 0.002 | LT 0.03 |
| 04/15/13 | 0.012 ± 0.002 | LT 0.03 | 10/14/13 | 0.017 ± 0.002 | LT 0.04 |
| 04/22/13 | 0.014 ± 0.002 | LT 0.06 | 10/21/13 | 0.013 ± 0.002 | LT 0.03 |
| 04/29/13 | 0.024 ± 0.002 | LT 0.04 | 10/28/13 | 0.008 ± 0.002 | LT 0.03 |
| 05/06/13 | 0.019 ± 0.002 | LT 0.03 | 11/04/13 | 0.013 ± 0.002 | LT 0.03 |
| 05/13/13 | 0.012 ± 0.002 | LT 0.03 | 11/11/13 | ~~~~ | LT 0.06 |
| 05/20/13 | 0.021 ± 0.002 | LT 0.03 | 11/18/13 | 0.014 ± 0.002 | LT 0.03 |
| 05/28/13 | 0.014 ± 0.002 | LT 0.04 | 11/25/13 | 0.017 ± 0.002 | LT 0.03 |
| 06/03/13 | 0.015 ± 0.002 | LT 0.04 | 12/02/13 | 0.023 ± 0.002 | LT 0.02 |
| 06/10/13 | 0.020 ± 0.002 | LT 0.03 | 12/09/13 | 0.025 ± 0.002 | LT 0.03 |
| 06/17/13 | 0.020 ± 0.002 | LT 0.03 | 12/16/13 | 0.021 ± 0.002 | LT 0.04 |
| 06/24/13 | 0.018 ± 0.002 | LT 0.04 | 12/23/13 | 0.017 ± 0.002 | LT 0.05 |
| 07/01/13 | 0.025 ± 0.002 | X | 12/30/13 | 0.024 ± 0.002 | LT 0.03 |

LT - Less Than
 ~~~~ - No Sample  
 \* - Based on Sampling Duration  
 X - Data Missing

Appendix A

Atmospheric Monitoring  
 D. C. Cook  
 2013  
 Reactor Site Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/07/13        | 0.025 ± 0.002                    | LT 0.03                                | 07/08/13        | 0.011 ± 0.002                    | LT 0.05                                |
| 01/14/13        | 0.017 ± 0.002                    | LT 0.03                                | 07/15/13        | 0.011 ± 0.002                    | LT 0.03                                |
| 01/20/13        | 0.015 ± 0.002                    | LT 0.04                                | 07/22/13        | 0.011 ± 0.002                    | LT 0.03                                |
| 01/27/13        | 0.012 ± 0.002                    | LT 0.04                                | 07/29/13        | 0.007 ± 0.002                    | LT 0.03                                |
| 02/04/13        | 0.017 ± 0.002                    | LT 0.05                                | 08/04/13        | 0.013 ± 0.002                    | LT 0.04                                |
| 02/11/13        | 0.015 ± 0.002                    | LT 0.05                                | 08/12/13        | 0.010 ± 0.002                    | LT 0.03                                |
| 02/18/13        | 0.011 ± 0.002                    | LT 0.05                                | 08/19/13        | 0.012 ± 0.002                    | LT 0.03                                |
| 02/25/13        | 0.006 ± 0.001                    | LT 0.04                                | 08/26/13        | 0.016 ± 0.002                    | LT 0.03                                |
| 03/04/13        | 0.007 ± 0.002                    | LT 0.03                                | 09/02/13        | 0.018 ± 0.002                    | LT 0.03                                |
| 03/11/13        | 0.007 ± 0.002                    | LT 0.05                                | 09/09/13        | 0.014 ± 0.002                    | LT 0.03                                |
| 03/18/13        | 0.011 ± 0.002                    | LT 0.01                                | 09/16/13        | 0.015 ± 0.002                    | LT 0.03                                |
| 03/25/13        | 0.011 ± 0.002                    | LT 0.03                                | 09/23/13        | 0.010 ± 0.002                    | LT 0.03                                |
| 04/01/13        | 0.007 ± 0.002                    | LT 0.03                                | 09/30/13        | 0.009 ± 0.002                    | LT 0.03                                |
| 04/08/13        | 0.010 ± 0.002                    | LT 0.03                                | 10/07/13        | 0.011 ± 0.002                    | LT 0.03                                |
| 04/15/13        | 0.006 ± 0.001                    | LT 0.03                                | 10/14/13        | 0.013 ± 0.002                    | LT 0.04                                |
| 04/22/13        | 0.008 ± 0.002                    | LT 0.06                                | 10/21/13        | 0.010 ± 0.002                    | LT 0.03                                |
| 04/29/13        | 0.014 ± 0.002                    | LT 0.04                                | 10/28/13        | 0.008 ± 0.002                    | LT 0.03                                |
| 05/06/13        | 0.011 ± 0.002                    | LT 0.05                                | 11/04/13        | 0.011 ± 0.002                    | LT 0.03                                |
| 05/13/13        | 0.006 ± 0.002                    | LT 0.03                                | 11/11/13        | ~~~~                             | LT 0.06                                |
| 05/20/13        | 0.013 ± 0.002                    | LT 0.03                                | 11/18/13        | 0.012 ± 0.002                    | LT 0.03                                |
| 05/28/13        | 0.008 ± 0.001                    | LT 0.04                                | 11/25/13        | 0.012 ± 0.002                    | LT 0.03                                |
| 06/03/13        | 0.008 ± 0.002                    | LT 0.04                                | 12/02/13        | 0.017 ± 0.002                    | LT 0.05                                |
| 06/10/13        | 0.012 ± 0.002                    | LT 0.03                                | 12/09/13        | 0.018 ± 0.002                    | LT 0.03                                |
| 06/17/13        | 0.012 ± 0.002                    | LT 0.03                                | 12/16/13        | 0.017 ± 0.002                    | LT 0.04                                |
| 06/24/13        | 0.007 ± 0.002                    | LT 0.04                                | 12/23/13        | 0.012 ± 0.002                    | LT 0.05                                |
| 07/01/13        | 0.011 ± 0.002                    | X                                      | 12/30/13        | 0.019 ± 0.002                    | LT 0.03                                |

LT - Less Than  
 ~~~~ - No Sample  
 X - Data Missing

Appendix A

Atmospheric Monitoring
 D. C. Cook
 2013
 Bridgman Air Station

| Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) | Collection Date | Gross Beta (pCi/m ³) | ¹³¹ I (pCi/m ³) |
|-----------------|----------------------------------|--|-----------------|----------------------------------|--|
| 01/07/13 | 0.016 ± 0.002 | LT 0.03 | 07/08/13 | 0.006 ± 0.001 | LT 0.05 |
| 01/14/13 | 0.010 ± 0.002 | LT 0.03 | 07/15/13 | 0.007 ± 0.002 | LT 0.03 |
| 01/20/13 | 0.009 ± 0.002 | LT 0.04 | 07/22/13 | 0.007 ± 0.001 | LT 0.03 |
| 01/27/13 | 0.007 ± 0.002 | LT 0.04 | 07/29/13 | 0.006 ± 0.001* | LT 0.03* |
| 02/04/13 | 0.009 ± 0.002 | LT 0.05 | 08/04/13 | ~~~~~ | ~~~~~ |
| 02/11/13 | 0.011 ± 0.002 | LT 0.05 | 08/12/13 | ~~~~~ | ~~~~~ |
| 02/18/13 | 0.007 ± 0.002 | LT 0.05 | 08/19/13 | ~~~~~ | ~~~~~ |
| 02/25/13 | 0.004 ± 0.001 | LT 0.04 | 08/26/13 | 0.022 ± 0.002 | LT 0.03 |
| 03/04/13 | 0.004 ± 0.001 | LT 0.03 | 09/02/13 | LT 0.001 | LT 0.03 |
| 03/11/13 | 0.005 ± 0.001 | LT 0.05 | 09/09/13 | 0.018 ± 0.002 | LT 0.03 |
| 03/18/13 | 0.008 ± 0.002 | LT 0.01 | 09/16/13 | 0.018 ± 0.002 | LT 0.03 |
| 03/25/13 | 0.005 ± 0.001 | LT 0.03 | 09/23/13 | 0.013 ± 0.002 | LT 0.03 |
| 04/01/13 | 0.004 ± 0.001 | LT 0.03 | 09/30/13 | 0.015 ± 0.002 | LT 0.03 |
| 04/08/13 | 0.008 ± 0.002 | LT 0.03 | 10/07/13 | LT 0.001 | LT 0.03 |
| 04/15/13 | 0.002 ± 0.001 | LT 0.03 | 10/14/13 | 0.023 ± 0.002 | LT 0.04 |
| 04/22/13 | 0.003 ± 0.001 | LT 0.06 | 10/21/13 | 0.014 ± 0.002 | LT 0.03 |
| 04/29/13 | 0.007 ± 0.002 | LT 0.04 | 10/28/13 | 0.011 ± 0.002 | LT 0.03 |
| 05/06/13 | 0.005 ± 0.001 | LT 0.05 | 11/04/13 | 0.015 ± 0.002 | LT 0.03 |
| 05/13/13 | 0.004 ± 0.001 | LT 0.03 | 11/11/13 | 0.022 ± 0.002 | ~~~~~ |
| 05/20/13 | 0.006 ± 0.001 | LT 0.03 | 11/18/13 | 0.017 ± 0.002 | LT 0.03 |
| 05/28/13 | 0.005 ± 0.001 | LT 0.04 | 11/25/13 | 0.017 ± 0.002 | LT 0.03 |
| 06/03/13 | 0.004 ± 0.001 | LT 0.04 | 12/02/13 | 0.029 ± 0.002 | LT 0.02 |
| 06/10/13 | 0.005 ± 0.001 | LT 0.03 | 12/09/13 | 0.027 ± 0.002 | LT 0.03 |
| 06/17/13 | 0.005 ± 0.001 | LT 0.03 | 12/16/13 | 0.032 ± 0.003 | LT 0.04 |
| 06/24/13 | 0.004 ± 0.001 | LT 0.04 | 12/23/13 | 0.019 ± 0.002 | LT 0.05 |
| 07/01/13 | 0.004 ± 0.001 | X | 12/30/13 | 0.029 ± 0.002 | LT 0.03 |

LT - Less Than
 ~~~~ - No Sample  
 \* - Based on Sampling Duration  
 X - Data Missing

Appendix A

Atmospheric Monitoring  
 D. C. Cook  
 2013  
 Stevensville Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/07/13        | 0.032 ± 0.003                    | LT 0.03                                | 07/08/13        | 0.015 ± 0.002                    | LT 0.05                                |
| 01/14/13        | 0.029 ± 0.002                    | LT 0.03                                | 07/15/13        | 0.016 ± 0.002                    | LT 0.03                                |
| 01/20/13        | 0.019 ± 0.002                    | LT 0.04                                | 07/22/13        | 0.015 ± 0.002                    | LT 0.03                                |
| 01/27/13        | 0.020 ± 0.002                    | LT 0.04                                | 07/29/13        | 0.008 ± 0.002                    | LT 0.03                                |
| 02/04/13        | 0.026 ± 0.002                    | LT 0.05                                | 08/04/13        | 0.018 ± 0.002                    | LT 0.04                                |
| 02/11/13        | 0.023 ± 0.002                    | LT 0.05                                | 08/12/13        | 0.015 ± 0.002                    | LT 0.03                                |
| 02/18/13        | 0.017 ± 0.002                    | LT 0.05                                | 08/19/13        | 0.023 ± 0.002                    | LT 0.03                                |
| 02/25/13        | 0.014 ± 0.002                    | LT 0.04                                | 08/26/13        | 0.024 ± 0.002                    | LT 0.03                                |
| 03/04/13        | 0.011 ± 0.002                    | LT 0.03                                | 09/02/13        | 0.020 ± 0.002                    | LT 0.03                                |
| 03/11/13        | 0.011 ± 0.002                    | LT 0.05                                | 09/09/13        | 0.021 ± 0.002                    | LT 0.03                                |
| 03/18/13        | 0.016 ± 0.002                    | LT 0.01                                | 09/16/13        | 0.021 ± 0.002                    | LT 0.03                                |
| 03/25/13        | 0.015 ± 0.002                    | LT 0.03                                | 09/23/13        | 0.013 ± 0.002                    | LT 0.04                                |
| 04/01/13        | 0.011 ± 0.002                    | LT 0.03                                | 09/30/13        | 0.016 ± 0.002                    | LT 0.03                                |
| 04/08/13        | 0.018 ± 0.002                    | LT 0.03                                | 10/07/13        | 0.014 ± 0.002                    | LT 0.03                                |
| 04/15/13        | 0.007 ± 0.001                    | LT 0.03                                | 10/14/13        | LT 0.002*                        | LT 0.07*                               |
| 04/22/13        | 0.012 ± 0.002                    | LT 0.06                                | 10/21/13        | 0.013 ± 0.002                    | LT 0.03                                |
| 04/29/13        | 0.020 ± 0.002                    | LT 0.04                                | 10/28/13        | 0.010 ± 0.002                    | LT 0.03                                |
| 05/06/13        | 0.013 ± 0.002                    | LT 0.05                                | 11/04/13        | 0.014 ± 0.002                    | LT 0.03                                |
| 05/13/13        | 0.012 ± 0.002                    | LT 0.03                                | 11/11/13        | 0.016 ± 0.002                    | LT 0.06                                |
| 05/20/13        | 0.018 ± 0.002                    | LT 0.03                                | 11/18/13        | 0.013 ± 0.002                    | LT 0.03                                |
| 05/28/13        | 0.009 ± 0.001                    | LT 0.04                                | 11/25/13        | 0.017 ± 0.002                    | LT 0.03                                |
| 06/03/13        | 0.011 ± 0.002                    | LT 0.04                                | 12/02/13        | 0.025 ± 0.002                    | LT 0.02                                |
| 06/10/13        | 0.015 ± 0.002                    | LT 0.03                                | 12/09/13        | 0.026 ± 0.002                    | LT 0.03                                |
| 06/17/13        | 0.015 ± 0.002                    | LT 0.03                                | 12/16/13        | 0.029 ± 0.002                    | LT 0.04                                |
| 06/24/13        | 0.013 ± 0.002                    | LT 0.04                                | 12/23/13        | 0.016 ± 0.002                    | LT 0.05                                |
| 07/01/13        | 0.013 ± 0.002                    | X                                      | 12/30/13        | 0.029 ± 0.002                    | LT 0.03                                |

LT – Less Than  
 \* – Based on Sampling Duration  
 X – Data Missing

Appendix A

Atmospheric Monitoring  
 D. C. Cook  
 2013  
 Livingston Road Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/07/13        | 0.024 ± 0.002                    | LT 0.03                                | 07/08/13        | 0.010 ± 0.002                    | LT 0.05                                |
| 01/14/13        | 0.014 ± 0.002                    | LT 0.03                                | 07/15/13        | 0.014 ± 0.002                    | LT 0.03                                |
| 01/20/13        | 0.011 ± 0.002                    | LT 0.04                                | 07/22/13        | 0.011 ± 0.002                    | LT 0.03                                |
| 01/27/13        | 0.009 ± 0.002                    | LT 0.04                                | 07/29/13        | 0.003 ± 0.001                    | LT 0.03                                |
| 02/04/13        | 0.013 ± 0.002                    | LT 0.05                                | 08/04/13        | 0.015 ± 0.002                    | LT 0.04                                |
| 02/11/13        | 0.017 ± 0.002                    | LT 0.05                                | 08/12/13        | 0.014 ± 0.002                    | LT 0.03                                |
| 02/18/13        | 0.016 ± 0.002                    | LT 0.05                                | 08/19/13        | 0.015 ± 0.002                    | LT 0.03                                |
| 02/25/13        | 0.014 ± 0.002                    | LT 0.04                                | 08/26/13        | 0.023 ± 0.002                    | LT 0.03                                |
| 03/04/13        | 0.008 ± 0.002                    | LT 0.03                                | 09/02/13        | 0.015 ± 0.002                    | LT 0.03                                |
| 03/11/13        | 0.012 ± 0.002                    | LT 0.05                                | 09/09/13        | 0.018 ± 0.002                    | LT 0.03                                |
| 03/18/13        | 0.015 ± 0.002                    | LT 0.01                                | 09/16/13        | 0.022 ± 0.002                    | LT 0.03                                |
| 03/25/13        | 0.012 ± 0.002                    | LT 0.03                                | 09/23/13        | 0.011 ± 0.002                    | LT 0.03                                |
| 04/01/13        | 0.007 ± 0.002                    | LT 0.03                                | 09/30/13        | 0.014 ± 0.002                    | LT 0.03                                |
| 04/08/13        | 0.017 ± 0.002                    | LT 0.03                                | 10/07/13        | 0.014 ± 0.002                    | LT 0.03                                |
| 04/15/13        | 0.008 ± 0.002                    | LT 0.03                                | 10/14/13        | 0.014 ± 0.002                    | LT 0.04                                |
| 04/22/13        | 0.010 ± 0.002                    | LT 0.06                                | 10/21/13        | 0.013 ± 0.002                    | LT 0.03                                |
| 04/29/13        | 0.020 ± 0.002                    | LT 0.04                                | 10/28/13        | 0.010 ± 0.002                    | LT 0.03                                |
| 05/06/13        | 0.014 ± 0.002                    | LT 0.05                                | 11/04/13        | 0.016 ± 0.002                    | LT 0.03                                |
| 05/13/13        | 0.010 ± 0.002                    | LT 0.03                                | 11/11/13        | 0.023 ± 0.002                    | LT 0.06                                |
| 05/20/13        | 0.019 ± 0.002                    | LT 0.03                                | 11/18/13        | 0.012 ± 0.002                    | LT 0.03                                |
| 05/28/13        | 0.009 ± 0.001                    | LT 0.04                                | 11/25/13        | 0.016 ± 0.002                    | LT 0.03                                |
| 06/03/13        | 0.011 ± 0.002                    | LT 0.04                                | 12/02/13        | 0.023 ± 0.002                    | LT 0.02                                |
| 06/10/13        | 0.014 ± 0.002                    | LT 0.03                                | 12/09/13        | 0.026 ± 0.002                    | LT 0.03                                |
| 06/17/13        | 0.016 ± 0.002                    | LT 0.03                                | 12/16/13        | 0.028 ± 0.002                    | LT 0.04                                |
| 06/24/13        | 0.014 ± 0.002                    | LT 0.04                                | 12/23/13        | 0.013 ± 0.002                    | LT 0.05                                |
| 07/01/13        | 0.008 ± 0.002                    | X                                      | 12/30/13        | 0.023 ± 0.002                    | LT 0.03                                |

LT - Less Than  
 X - Data Missing

Appendix A

Atmospheric Monitoring  
 D. C. Cook  
 2013  
 Peddy Farm Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/07/13        | 0.036 ± 0.003                    | LT 0.03                                | 07/08/13        | 0.012 ± 0.002                    | LT 0.05                                |
| 01/14/13        | LT 0.001*                        | LT 0.03*                               | 07/15/13        | 0.017 ± 0.002                    | LT 0.03                                |
| 01/20/13        | 0.019 ± 0.002                    | LT 0.04                                | 07/22/13        | 0.013 ± 0.002                    | LT 0.03                                |
| 01/27/13        | 0.020 ± 0.002                    | LT 0.04                                | 07/29/13        | 0.006 ± 0.001                    | LT 0.03                                |
| 02/04/13        | 0.022 ± 0.002                    | LT 0.05                                | 08/04/13        | 0.013 ± 0.002                    | LT 0.04                                |
| 02/11/13        | 0.020 ± 0.002                    | LT 0.05                                | 08/12/13        | 0.010 ± 0.002                    | LT 0.03                                |
| 02/18/13        | 0.015 ± 0.002                    | LT 0.05                                | 08/19/13        | 0.019 ± 0.002                    | LT 0.03                                |
| 02/25/13        | 0.011 ± 0.002                    | LT 0.04                                | 08/26/13        | 0.023 ± 0.002                    | LT 0.03                                |
| 03/04/13        | 0.011 ± 0.002                    | LT 0.03                                | 09/02/13        | 0.016 ± 0.002                    | LT 0.03                                |
| 03/11/13        | 0.011 ± 0.002                    | LT 0.05                                | 09/09/13        | 0.018 ± 0.002                    | LT 0.03                                |
| 03/18/13        | 0.016 ± 0.002                    | LT 0.01                                | 09/16/13        | 0.018 ± 0.002                    | LT 0.03                                |
| 03/25/13        | 0.012 ± 0.002                    | LT 0.03                                | 09/23/13        | 0.017 ± 0.002                    | LT 0.04                                |
| 04/01/13        | 0.009 ± 0.002                    | LT 0.03                                | 09/30/13        | 0.014 ± 0.002                    | LT 0.03                                |
| 04/08/13        | 0.017 ± 0.002                    | LT 0.03                                | 10/07/13        | 0.010 ± 0.002                    | LT 0.03                                |
| 04/15/13        | 0.006 ± 0.001                    | LT 0.03                                | 10/14/13        | 0.019 ± 0.002                    | LT 0.04                                |
| 04/22/13        | 0.009 ± 0.002                    | LT 0.06                                | 10/21/13        | 0.011 ± 0.002                    | LT 0.03                                |
| 04/29/13        | 0.017 ± 0.002                    | LT 0.04                                | 10/28/13        | 0.009 ± 0.002                    | LT 0.03                                |
| 05/06/13        | 0.013 ± 0.002                    | LT 0.05                                | 11/04/13        | 0.013 ± 0.002                    | LT 0.03                                |
| 05/13/13        | 0.010 ± 0.002                    | LT 0.03                                | 11/11/13        | 0.018 ± 0.002                    | LT 0.06                                |
| 05/20/13        | 0.016 ± 0.002                    | LT 0.03                                | 11/18/13        | 0.011 ± 0.002                    | LT 0.03                                |
| 05/28/13        | 0.010 ± 0.001                    | LT 0.04                                | 11/25/13        | 0.013 ± 0.002                    | LT 0.03                                |
| 06/03/13        | 0.010 ± 0.002                    | LT 0.04                                | 12/02/13        | 0.021 ± 0.002                    | LT 0.02                                |
| 06/10/13        | 0.013 ± 0.002                    | LT 0.03                                | 12/09/13        | 0.022 ± 0.002                    | LT 0.03                                |
| 06/17/13        | 0.014 ± 0.002                    | LT 0.03                                | 12/16/13        | 0.025 ± 0.002                    | LT 0.04                                |
| 06/24/13        | 0.011 ± 0.002                    | LT 0.04                                | 12/23/13        | 0.015 ± 0.002                    | LT 0.05                                |
| 07/01/13        | 0.010 ± 0.002                    | X                                      | 12/30/13        | 0.017 ± 0.002                    | LT 0.03                                |

LT – Less Than  
 \* – Based on Sampling Duration  
 X – Data Missing

Appendix A

Atmospheric Monitoring  
Fermi 2  
2013  
Reactor Site Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/03/13        | 0.031 ± 0.003                    | LT 0.04                                | 07/04/13        | 0.012 ± 0.002                    | LT 0.04                                |
| 01/10/13        | 0.042 ± 0.003                    | LT 0.04                                | 07/11/13        | 0.019 ± 0.002                    | LT 0.04                                |
| 01/17/13        | 0.022 ± 0.002                    | LT 0.04                                | 07/18/13        | 0.012 ± 0.002                    | LT 0.04                                |
| 01/24/13        | 0.018 ± 0.002                    | LT 0.05                                | 07/25/13        | 0.013 ± 0.002                    | LT 0.04                                |
| 01/31/13        | 0.022 ± 0.002                    | LT 0.07                                | 08/01/13        | 0.012 ± 0.002                    | LT 0.04                                |
| 02/07/13        | 0.030 ± 0.003                    | LT 0.04                                | 08/08/13        | 0.018 ± 0.002                    | LT 0.04                                |
| 02/14/13        | 0.020 ± 0.002                    | LT 0.04                                | 08/15/13        | 0.015 ± 0.002                    | LT 0.04                                |
| 02/21/13        | 0.014 ± 0.002                    | LT 0.04                                | 08/22/13        | 0.027 ± 0.002                    | LT 0.04                                |
| 02/28/13        | 0.009 ± 0.002                    | LT 0.04                                | 08/29/13        | 0.025 ± 0.002                    | LT 0.04                                |
| 03/07/13        | 0.012 ± 0.002                    | LT 0.05                                | 09/05/13        | 0.022 ± 0.002                    | LT 0.04                                |
| 03/14/13        | 0.015 ± 0.002                    | LT 0.04                                | 09/12/13        | 0.027 ± 0.002                    | LT 0.05                                |
| 03/21/13        | 0.023 ± 0.002                    | LT 0.05                                | 09/19/13        | 0.019 ± 0.002                    | LT 0.04                                |
| 03/28/13        | 0.007 ± 0.002                    | LT 0.05                                | 09/26/13        | 0.015 ± 0.002                    | LT 0.04                                |
| 04/03/13        | 0.018 ± 0.002                    | LT 0.05                                | 10/03/13        | 0.021 ± 0.002                    | LT 0.04                                |
| 04/11/13        | 0.016 ± 0.002                    | LT 0.04                                | 10/10/13        | 0.015 ± 0.002                    | LT 0.04                                |
| 04/19/13        | 0.010 ± 0.002                    | LT 0.07                                | 10/17/13        | 0.018 ± 0.002                    | LT 0.04                                |
| 04/25/13        | 0.018 ± 0.002                    | X                                      | 10/24/13        | 0.019 ± 0.002                    | LT 0.04                                |
| 05/02/13        | 0.018 ± 0.002                    | LT 0.04                                | 10/31/13        | 0.017 ± 0.002                    | LT 0.04                                |
| 05/09/13        | 0.013 ± 0.002                    | LT 0.05                                | 11/07/13        | 0.023 ± 0.002                    | LT 0.05                                |
| 05/16/13        | 0.014 ± 0.002                    | LT 0.04                                | 11/13/13        | 0.020 ± 0.002                    | LT 0.05                                |
| 05/23/13        | 0.014 ± 0.002                    | LT 0.05                                | 11/21/13        | 0.022 ± 0.002                    | LT 0.03                                |
| 05/30/13        | 0.016 ± 0.002                    | LT 0.08                                | 11/29/13        | 0.015 ± 0.002                    | LT 0.03                                |
| 06/06/13        | 0.012 ± 0.002                    | LT 0.04                                | 12/05/13        | LT 0.001                         | LT 0.04                                |
| 06/13/13        | 0.015 ± 0.002                    | LT 0.07                                | 12/12/13        | 0.031 ± 0.003                    | LT 0.05                                |
| 06/20/13        | 0.015 ± 0.002                    | LT 0.05                                | 12/20/13        | 0.051 ± 0.004                    | LT 0.08                                |
| 06/27/13        | 0.021 ± 0.002                    | LT 0.06                                | 12/26/13        | 0.017 ± 0.002                    | LT 0.06                                |

LT – Less Than



Appendix A

Atmospheric Monitoring  
Fermi 2  
2013  
Pointe Aux Peaux Road Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/03/13        | 0.030 ± 0.003                    | LT 0.04                                | 07/04/13        | 0.011 ± 0.002                    | LT 0.04                                |
| 01/10/13        | 0.042 ± 0.003                    | LT 0.04                                | 07/11/13        | 0.015 ± 0.002                    | LT 0.04                                |
| 01/17/13        | 0.022 ± 0.002                    | LT 0.04                                | 07/18/13        | 0.011 ± 0.002                    | LT 0.04                                |
| 01/24/13        | 0.022 ± 0.002                    | LT 0.05                                | 07/25/13        | 0.014 ± 0.002                    | LT 0.04                                |
| 01/31/13        | 0.023 ± 0.002                    | LT 0.07                                | 08/01/13        | 0.010 ± 0.002                    | LT 0.04                                |
| 02/07/13        | 0.035 ± 0.003                    | LT 0.04                                | 08/08/13        | 0.016 ± 0.002                    | LT 0.04                                |
| 02/14/13        | 0.018 ± 0.002                    | LT 0.04                                | 08/15/13        | 0.011 ± 0.002                    | LT 0.04                                |
| 02/21/13        | 0.014 ± 0.002                    | LT 0.04                                | 08/22/13        | 0.028 ± 0.002                    | LT 0.04                                |
| 02/28/13        | 0.010 ± 0.002                    | LT 0.04                                | 08/29/13        | 0.025 ± 0.002                    | LT 0.04                                |
| 03/07/13        | 0.013 ± 0.002                    | LT 0.05                                | 09/05/13        | 0.015 ± 0.002                    | LT 0.04                                |
| 03/14/13        | 0.014 ± 0.002                    | LT 0.04                                | 09/12/13        | 0.026 ± 0.002                    | LT 0.05                                |
| 03/21/13        | 0.021 ± 0.002                    | LT 0.05                                | 09/19/13        | 0.018 ± 0.002                    | LT 0.04                                |
| 03/28/13        | 0.008 ± 0.002                    | LT 0.05                                | 09/26/13        | 0.015 ± 0.002                    | LT 0.04                                |
| 04/03/13        | 0.016 ± 0.002                    | LT 0.05                                | 10/03/13        | 0.019 ± 0.002                    | LT 0.04                                |
| 04/11/13        | 0.016 ± 0.002                    | LT 0.04                                | 10/10/13        | 0.016 ± 0.002                    | LT 0.04                                |
| 04/19/13        | 0.009 ± 0.002                    | LT 0.07                                | 10/17/13        | 0.016 ± 0.002                    | LT 0.04                                |
| 04/25/13        | 0.020 ± 0.002                    | X                                      | 10/24/13        | 0.018 ± 0.002                    | LT 0.04                                |
| 05/02/13        | 0.017 ± 0.002                    | LT 0.04                                | 10/31/13        | 0.016 ± 0.002                    | LT 0.04                                |
| 05/09/13        | 0.013 ± 0.002                    | LT 0.05                                | 11/07/13        | 0.022 ± 0.002                    | LT 0.05                                |
| 05/16/13        | 0.014 ± 0.002                    | LT 0.04                                | 11/13/13        | 0.019 ± 0.002                    | LT 0.05                                |
| 05/23/13        | 0.014 ± 0.002                    | LT 0.05                                | 11/21/13        | 0.011 ± 0.002                    | LT 0.03                                |
| 05/30/13        | 0.017 ± 0.002                    | LT 0.08                                | 11/29/13        | 0.018 ± 0.002                    | LT 0.03                                |
| 06/06/13        | 0.012 ± 0.002                    | LT 0.04                                | 12/05/13        | 0.035 ± 0.003                    | LT 0.04                                |
| 06/13/13        | 0.016 ± 0.002                    | LT 0.07                                | 12/12/13        | 0.029 ± 0.002                    | LT 0.05                                |
| 06/20/13        | 0.012 ± 0.002                    | LT 0.05                                | 12/20/13        | 0.062 ± 0.005                    | LT 0.08                                |
| 06/27/13        | 0.020 ± 0.002                    | LT 0.06                                | 12/26/13        | 0.019 ± 0.002                    | LT 0.06                                |

LT – Less Than  
NS – No Sample

Appendix A

Atmospheric Monitoring  
 Fermi 2  
 2013  
 Nadeau Road Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/03/13        | ~~~~                             | ~~~~                                   | 07/04/13        | 0.010 ± 0.002                    | LT 0.04                                |
| 01/10/13        | ~~~~                             | ~~~~                                   | 07/11/13        | 0.014 ± 0.002                    | LT 0.04                                |
| 01/17/13        | ~~~~                             | ~~~~                                   | 07/18/13        | 0.011 ± 0.002                    | LT 0.04                                |
| 01/24/13        | ~~~~                             | ~~~~                                   | 07/25/13        | 0.012 ± 0.002                    | LT 0.04                                |
| 01/31/13        | ~~~~                             | ~~~~                                   | 08/01/13        | 0.010 ± 0.002                    | LT 0.04                                |
| 02/07/13        | ~~~~                             | ~~~~                                   | 08/08/13        | 0.016 ± 0.002                    | LT 0.04                                |
| 02/14/13        | ~~~~                             | ~~~~                                   | 08/15/13        | 0.012 ± 0.002                    | LT 0.04                                |
| 02/21/13        | ~~~~                             | ~~~~                                   | 08/22/13        | LT 0.001                         | LT 0.04                                |
| 02/28/13        | 0.009 ± 0.002                    | LT 0.04                                | 08/29/13        | 0.021 ± 0.002                    | LT 0.04                                |
| 03/07/13        | 0.012 ± 0.002                    | LT 0.05                                | 09/05/13        | 0.018 ± 0.002                    | LT 0.04                                |
| 03/14/13        | 0.017 ± 0.002                    | LT 0.04                                | 09/12/13        | 0.024 ± 0.002                    | LT 0.05                                |
| 03/21/13        | 0.019 ± 0.002                    | LT 0.05                                | 09/19/13        | 0.016 ± 0.002                    | LT 0.04                                |
| 03/28/13        | 0.007 ± 0.002                    | LT 0.05                                | 09/26/13        | 0.015 ± 0.002                    | LT 0.04                                |
| 04/03/13        | 0.016 ± 0.002                    | LT 0.05                                | 10/03/13        | 0.019 ± 0.002                    | LT 0.04                                |
| 04/11/13        | 0.015 ± 0.002                    | LT 0.04                                | 10/10/13        | 0.013 ± 0.002                    | LT 0.04                                |
| 04/19/13        | 0.010 ± 0.002                    | LT 0.07                                | 10/17/13        | 0.015 ± 0.002                    | LT 0.04                                |
| 04/25/13        | 0.018 ± 0.002                    | X                                      | 10/24/13        | 0.016 ± 0.002                    | LT 0.04                                |
| 05/02/13        | 0.018 ± 0.002                    | LT 0.04                                | 10/31/13        | 0.016 ± 0.002                    | LT 0.04                                |
| 05/09/13        | 0.011 ± 0.002                    | LT 0.05                                | 11/07/13        | 0.019 ± 0.002                    | LT 0.05                                |
| 05/16/13        | 0.012 ± 0.002                    | LT 0.04                                | 11/13/13        | 0.016 ± 0.002                    | LT 0.05                                |
| 05/23/13        | 0.012 ± 0.002                    | LT 0.05                                | 11/21/13        | 0.017 ± 0.002                    | LT 0.03                                |
| 05/30/13        | 0.014 ± 0.002                    | LT 0.08                                | 11/29/13        | 0.016 ± 0.002                    | LT 0.03                                |
| 06/06/13        | 0.012 ± 0.002                    | LT 0.04                                | 12/05/13        | 0.037 ± 0.003                    | LT 0.04                                |
| 06/13/13        | 0.009 ± 0.002                    | LT 0.07                                | 12/12/13        | 0.025 ± 0.002                    | LT 0.05                                |
| 06/20/13        | 0.013 ± 0.002                    | LT 0.05                                | 12/20/13        | 0.050 ± 0.004                    | LT 0.08                                |
| 06/27/13        | 0.018 ± 0.002                    | LT 0.06                                | 12/26/13        | 0.017 ± 0.002                    | LT 0.06                                |

LT – Less Than  
 NS – No Sample

Appendix A

Atmospheric Monitoring  
 Fermi 2  
 2013  
 Dixie Highway Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/03/13        | 0.029 ± 0.002                    | LT 0.04                                | 07/04/13        | 0.012 ± 0.002                    | LT 0.04                                |
| 01/10/13        | 0.037 ± 0.003                    | LT 0.04                                | 07/11/13        | 0.016 ± 0.002                    | LT 0.04                                |
| 01/17/13        | 0.023 ± 0.002                    | LT 0.04                                | 07/18/13        | 0.011 ± 0.002                    | LT 0.04                                |
| 01/24/13        | 0.020 ± 0.002                    | LT 0.05                                | 07/25/13        | 0.014 ± 0.002                    | LT 0.04                                |
| 01/31/13        | 0.018 ± 0.002                    | LT 0.07                                | 08/01/13        | 0.011 ± 0.002                    | LT 0.04                                |
| 02/07/13        | 0.030 ± 0.003                    | LT 0.04                                | 08/08/13        | 0.015 ± 0.002                    | LT 0.04                                |
| 02/14/13        | 0.018 ± 0.002                    | LT 0.04                                | 08/15/13        | 0.013 ± 0.002                    | LT 0.04                                |
| 02/21/13        | 0.013 ± 0.002                    | LT 0.04                                | 08/22/13        | LT 0.001                         | LT 0.04                                |
| 02/28/13        | 0.008 ± 0.002                    | LT 0.04                                | 08/29/13        | 0.024 ± 0.002                    | LT 0.04                                |
| 03/07/13        | 0.014 ± 0.002                    | LT 0.05                                | 09/05/13        | 0.019 ± 0.002                    | LT 0.04                                |
| 03/14/13        | 0.016 ± 0.002                    | LT 0.04                                | 09/12/13        | 0.025 ± 0.002                    | LT 0.05                                |
| 03/21/13        | 0.020 ± 0.002                    | LT 0.05                                | 09/19/13        | 0.014 ± 0.002                    | LT 0.04                                |
| 03/28/13        | 0.007 ± 0.002                    | LT 0.05                                | 09/26/13        | 0.014 ± 0.002                    | LT 0.04                                |
| 04/03/13        | 0.016 ± 0.002                    | LT 0.05                                | 10/03/13        | 0.019 ± 0.002                    | LT 0.04                                |
| 04/11/13        | 0.013 ± 0.002                    | LT 0.04                                | 10/10/13        | 0.015 ± 0.002                    | LT 0.04                                |
| 04/19/13        | 0.011 ± 0.002                    | LT 0.07                                | 10/17/13        | 0.016 ± 0.002                    | LT 0.04                                |
| 04/25/13        | 0.017 ± 0.002                    | X                                      | 10/24/13        | 0.016 ± 0.002                    | LT 0.04                                |
| 05/02/13        | 0.017 ± 0.002                    | LT 0.04                                | 10/31/13        | 0.015 ± 0.002                    | LT 0.04                                |
| 05/09/13        | 0.012 ± 0.002                    | LT 0.05                                | 11/07/13        | 0.020 ± 0.002                    | LT 0.05                                |
| 05/16/13        | 0.014 ± 0.002                    | LT 0.04                                | 11/13/13        | 0.017 ± 0.002                    | LT 0.05                                |
| 05/23/13        | 0.015 ± 0.002                    | LT 0.05                                | 11/21/13        | 0.017 ± 0.002                    | LT 0.03                                |
| 05/30/13        | 0.014 ± 0.002                    | LT 0.08                                | 11/29/13        | 0.015 ± 0.002                    | LT 0.03                                |
| 06/06/13        | 0.013 ± 0.002                    | LT 0.04                                | 12/05/13        | 0.032 ± 0.003                    | LT 0.04                                |
| 06/13/13        | 0.014 ± 0.002                    | LT 0.07                                | 12/12/13        | 0.063 ± 0.003                    | LT 0.05                                |
| 06/20/13        | 0.014 ± 0.002                    | LT 0.05                                | 12/20/13        | 0.051 ± 0.004                    | LT 0.08                                |
| 06/27/13        | 0.019 ± 0.002                    | LT 0.06                                | 12/26/13        | 0.016 ± 0.002                    | LT 0.06                                |

LT – Less Than

Appendix A

Atmospheric Monitoring  
Fermi 2  
2013  
Fix Farm Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/03/13        | 0.032 ± 0.003                    | LT 0.04                                | 07/04/13        | 0.012 ± 0.002                    | LT 0.04                                |
| 01/10/13        | 0.039 ± 0.003                    | LT 0.04                                | 07/11/13        | 0.017 ± 0.002                    | LT 0.04                                |
| 01/17/13        | 0.020 ± 0.002                    | LT 0.04                                | 07/18/13        | 0.011 ± 0.002                    | LT 0.04                                |
| 01/24/13        | 0.020 ± 0.002                    | LT 0.05                                | 07/25/13        | 0.013 ± 0.002                    | LT 0.04                                |
| 01/31/13        | 0.021 ± 0.002                    | LT 0.07                                | 08/01/13        | 0.009 ± 0.002                    | LT 0.04                                |
| 02/07/13        | 0.029 ± 0.003                    | LT 0.04                                | 08/08/13        | 0.015 ± 0.002                    | LT 0.04                                |
| 02/14/13        | 0.020 ± 0.002                    | LT 0.04                                | 08/15/13        | 0.011 ± 0.002                    | LT 0.04                                |
| 02/21/13        | 0.014 ± 0.002                    | LT 0.04                                | 08/22/13        | 0.030 ± 0.003                    | LT 0.04                                |
| 02/28/13        | 0.010 ± 0.002                    | LT 0.04                                | 08/29/13        | 0.023 ± 0.002                    | LT 0.04                                |
| 03/07/13        | 0.014 ± 0.002                    | LT 0.05                                | 09/05/13        | 0.017 ± 0.002                    | LT 0.04                                |
| 03/14/13        | 0.013 ± 0.002                    | LT 0.04                                | 09/12/13        | 0.025 ± 0.002                    | LT 0.05                                |
| 03/21/13        | 0.019 ± 0.002                    | LT 0.05                                | 09/19/13        | 0.016 ± 0.002                    | LT 0.04                                |
| 03/28/13        | 0.007 ± 0.001                    | LT 0.05                                | 09/26/13        | 0.015 ± 0.002                    | LT 0.04                                |
| 04/03/13        | 0.015 ± 0.002                    | LT 0.05                                | 10/03/13        | 0.020 ± 0.002                    | LT 0.04                                |
| 04/11/13        | 0.015 ± 0.002                    | LT 0.04                                | 10/10/13        | 0.015 ± 0.002                    | LT 0.04                                |
| 04/19/13        | 0.010 ± 0.002                    | LT 0.07                                | 10/17/13        | 0.018 ± 0.002                    | LT 0.04                                |
| 04/25/13        | 0.018 ± 0.002                    | X                                      | 10/24/13        | 0.019 ± 0.002                    | LT 0.04                                |
| 05/02/13        | 0.017 ± 0.002                    | LT 0.04                                | 10/31/13        | 0.016 ± 0.002                    | LT 0.04                                |
| 05/09/13        | 0.014 ± 0.002                    | LT 0.05                                | 11/07/13        | 0.021 ± 0.002                    | LT 0.05                                |
| 05/16/13        | 0.013 ± 0.002                    | LT 0.04                                | 11/13/13        | 0.016 ± 0.002                    | LT 0.05                                |
| 05/23/13        | 0.014 ± 0.002                    | LT 0.05                                | 11/21/13        | 0.018 ± 0.002                    | LT 0.03                                |
| 05/30/13        | 0.016 ± 0.002                    | LT 0.08                                | 11/29/13        | 0.016 ± 0.002                    | LT 0.03                                |
| 06/06/13        | 0.014 ± 0.002                    | LT 0.04                                | 12/05/13        | 0.033 ± 0.003                    | LT 0.04                                |
| 06/13/13        | 0.014 ± 0.002                    | LT 0.07                                | 12/12/13        | 0.029 ± 0.002                    | LT 0.05                                |
| 06/20/13        | 0.012 ± 0.002                    | LT 0.05                                | 12/20/13        | 0.057 ± 0.005                    | LT 0.08                                |
| 06/27/13        | 0.017 ± 0.002                    | LT 0.07                                | 12/26/13        | 0.017 ± 0.002                    | LT 0.06                                |

LT – Less Than

## Appendix A

### Atmospheric Monitoring 2013 Lansing Background Reference Air Station

| Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) | Collection Date | Gross Beta (pCi/m <sup>3</sup> ) | <sup>131</sup> I (pCi/m <sup>3</sup> ) |
|-----------------|----------------------------------|----------------------------------------|-----------------|----------------------------------|----------------------------------------|
| 01/02/13        | 0.024 ± 0.002                    | LT 0.03                                | 07/08/13        | 0.016 ± 0.002                    | LT 0.03                                |
| 01/07/13        | 0.033 ± 0.003                    | LT 0.03                                | 07/15/13        | 0.015 ± 0.002                    | LT 0.03                                |
| 01/14/13        | 0.026 ± 0.002                    | LT 0.02                                | 07/22/13        | 0.015 ± 0.002                    | LT 0.03                                |
| 01/22/13        | 0.019 ± 0.002                    | LT 0.02                                | 07/29/13        | 0.012 ± 0.002                    | LT 0.03                                |
| 01/28/13        | 0.018 ± 0.002                    | LT 0.03                                | 08/05/13        | 0.015 ± 0.002                    | LT 0.03                                |
| 02/04/13        | 0.017 ± 0.002                    | LT 0.03                                | 08/12/13        | 0.013 ± 0.002                    | LT 0.03                                |
| 02/11/13        | 0.023 ± 0.002                    | LT 0.03                                | 08/19/13        | 0.018 ± 0.002                    | LT 0.03                                |
| 02/19/13        | 0.017 ± 0.002                    | LT 0.02                                | 08/26/13        | 0.025 ± 0.002                    | LT 0.03                                |
| 02/25/13        | 0.008 ± 0.002                    | LT 0.03                                | 09/03/13        | 0.021 ± 0.002                    | LT 0.02                                |
| 03/04/13        | 0.011 ± 0.002                    | LT 0.03                                | 09/09/13        | 0.017 ± 0.002                    | LT 0.03                                |
| 03/11/13        | 0.015 ± 0.002                    | LT 0.03                                | 09/16/13        | 0.021 ± 0.002                    | LT 0.03                                |
| 03/18/13        | 0.018 ± 0.002                    | LT 0.03                                | 09/23/13        | 0.017 ± 0.002                    | LT 0.03                                |
| 03/25/13        | 0.013 ± 0.002                    | LT 0.03                                | 09/30/13        | 0.013 ± 0.002                    | LT 0.03                                |
| 04/01/13        | 0.010 ± 0.002                    | LT 0.03                                | 10/07/13        | 0.013 ± 0.002                    | LT 0.03                                |
| 04/08/13        | 0.020 ± 0.002                    | LT 0.03                                | 10/14/13        | 0.019 ± 0.002                    | LT 0.03                                |
| 04/15/13        | 0.008 ± 0.002                    | LT 0.03                                | 10/21/13        | 0.015 ± 0.002                    | LT 0.03                                |
| 04/22/13        | 0.014 ± 0.002                    | LT 0.06                                | 10/28/13        | 0.009 ± 0.002                    | LT 0.03                                |
| 04/29/13        | 0.019 ± 0.002                    | X                                      | 11/01/13        | 0.009 ± 0.003                    | LT 0.07                                |
| 05/06/13        | 0.017 ± 0.002                    | LT 0.03                                | 11/12/13        | 0.016 ± 0.002                    | LT 0.03                                |
| 05/13/13        | 0.009 ± 0.002                    | LT 0.03                                | 11/18/13        | 0.015 ± 0.002                    | LT 0.04                                |
| 05/20/13        | 0.017 ± 0.002                    | LT 0.03                                | 11/25/13        | 0.013 ± 0.002                    | LT 0.03                                |
| 05/28/13        | 0.011 ± 0.002                    | LT 0.03                                | 12/02/13        | 0.020 ± 0.002                    | LT 0.02                                |
| 06/03/13        | 0.011 ± 0.002                    | LT 0.04                                | 12/09/13        | 0.024 ± 0.003                    | LT 0.03                                |
| 06/10/13        | 0.012 ± 0.002                    | LT 0.03                                | 12/16/13        | 0.023 ± 0.002                    | LT 0.03                                |
| 06/17/13        | 0.016 ± 0.002                    | LT 0.03                                | 12/23/13        | 0.017 ± 0.002                    | LT 0.04                                |
| 06/24/13        | 0.017 ± 0.002                    | LT 0.03                                | 12/30/13        | 0.023 ± 0.002                    | LT 0.03                                |
| 07/01/13        | 0.011 ± 0.002                    | LT 0.03                                |                 |                                  |                                        |

LT - Less Than  
X - Data Missing



## Appendix B

### Terrestrial Monitoring 2008 Detroit Milk Station

| <b>Collection Date</b> | <b><sup>131</sup>I<br/>(pCi/l)</b> | <b><sup>137</sup>Cs<br/>(pCi/l)</b> | <b><sup>40</sup>K<br/>(pCi/l)</b> |
|------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| 01/22/08               | LT 4                               | LT 3                                | 1450 ± 90                         |
| 02/12/08               | LT 3                               | LT 3                                | 1410 ± 90                         |
| 03/18/08               | LT 3                               | LT 3                                | 1520 ± 80                         |
| 04/08/08               | LT 4                               | LT 3                                | 1400 ± 80                         |
| 05/20/08               | LT 3                               | LT 3                                | 1600 ± 90                         |
| 06/17/08               | LT 5                               | LT 3                                | 1480 ± 80                         |
| 07/09/08               | LT 3                               | LT 3                                | 1420 ± 80                         |
| 08/05/08               | LT 3                               | LT 3                                | 1490 ± 80                         |
| 09/23/08               | LT 3                               | LT 3                                | 1490 ± 80                         |
| 10/13/08               | LT 3                               | LT 3                                | 1410 ± 80                         |
| 11/10/08               | LT 4                               | LT 3                                | 1430 ± 80                         |
| 12/16/08               | LT 4                               | LT 3                                | 1340 ± 90                         |

LT – Less Than

## Appendix B

Terrestrial Monitoring  
2008  
Grand Rapids Milk Station

| Collection Date | <sup>131</sup> I (pCi/l) | <sup>137</sup> Cs (pCi/l) | <sup>40</sup> K (pCi/l) |
|-----------------|--------------------------|---------------------------|-------------------------|
| 01/29/08        | LT 3                     | LT 3                      | 1470 ± 80               |
| 02/20/09        | LT 4                     | LT 3                      | 1440 ± 80               |
| 02/26/08        | LT 3                     | LT 3                      | 1450 ± 90               |
| 03/28/08        | LT 4                     | LT 3                      | 1470 ± 80               |
| 04/30/08        | LT 3                     | LT 3                      | 1390 ± 80               |
| 05/29/08        | LT 3                     | LT 3                      | 1390 ± 80               |
| 06/30/08        | LT 4                     | LT 3                      | 1470 ± 90               |
| 07/31/08        | LT 4                     | LT 3                      | 1490 ± 80               |
| 08/28/08        | LT 5                     | LT 3                      | 1470 ± 90               |
| 09/12/08        | LT 4                     | LT 3                      | 1510 ± 80               |
| 10/30/08        | LT 4                     | LT 3                      | 1250 ± 80               |
| 11/24/08        | LT 3                     | LT 3                      | 1520 ± 80               |
| 12/12/08        | LT 4                     | LT 3                      | 1470 ± 80               |

LT – Less Than



## Appendix B

### Terrestrial Monitoring 2008 Lansing Milk Station

| <b>Collection Date</b> | <b><sup>131</sup>I<br/>(pCi/l)</b> | <b><sup>137</sup>Cs<br/>(pCi/l)</b> | <b><sup>40</sup>K<br/>(pCi/l)</b> |
|------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| 01/07/08               | LT 3                               | LT 3                                | 1460 ± 80                         |
| 01/22/08               | LT 3                               | LT 3                                | 1490 ± 80                         |
| 02/04/08               | LT 3                               | LT 3                                | 1520 ± 80                         |
| 02/19/08               | LT 3                               | LT 3                                | 1440 ± 80                         |
| 03/03/08               | LT 3                               | LT 3                                | 1470 ± 80                         |
| 03/17/08               | LT 3                               | LT 3                                | 1550 ± 90                         |
| 03/31/08               | LT 3                               | LT 3                                | 1310 ± 80                         |
| 04/14/08               | LT 3                               | LT 3                                | 1490 ± 80                         |
| 04/28/08               | LT 3                               | LT 3                                | 1480 ± 80                         |
| 05/12/08               | LT 3                               | LT 3                                | 1420 ± 80                         |
| 05/27/08               | LT 3                               | LT 3                                | 1500 ± 80                         |
| 06/09/08               | LT 3                               | LT 3                                | 1490 ± 80                         |
| 06/23/08               | LT 3                               | LT 3                                | 1390 ± 80                         |
| 07/08/08               | LT 3                               | LT 3                                | 1490 ± 80                         |
| 07/21/08               | LT 3                               | LT 3                                | 1500 ± 80                         |
| 08/13/08               | LT 3                               | LT 3                                | 1530 ± 80                         |
| 08/25/08               | LT 3                               | LT 3                                | 1440 ± 80                         |
| 09/08/08               | LT 3                               | LT 3                                | 1450 ± 90                         |
| 09/22/08               | LT 3                               | LT 3                                | 1480 ± 80                         |
| 10/06/08               | LT 3                               | LT 3                                | 1360 ± 80                         |
| 10/20/08               | LT 3                               | LT 3                                | 1410 ± 80                         |
| 11/03/08               | LT 4                               | LT 3                                | 1460 ± 80                         |
| 11/17/08               | LT 3                               | LT 3                                | 1510 ± 80                         |
| 12/01/08               | LT 3                               | LT 3                                | 1450 ± 80                         |
| 12/15/08               | LT 3                               | LT 3                                | 1420 ± 90                         |
| 12/29/07               | LT 3                               | LT 3                                | 1410 ± 80                         |

LT – Less Than

## Appendix B

Terrestrial Monitoring  
2008  
Marquette Milk Station

| <b>Collection Date</b> | <b><sup>131</sup>I<br/>(pCi/l)</b> | <b><sup>137</sup>Cs<br/>(pCi/l)</b> | <b><sup>40</sup>K<br/>(pCi/l)</b> |
|------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| 01/16/08               | LT 3                               | LT 3                                | 1430 ± 80                         |
| 01/23/08               | LT 5                               | LT 3                                | 1370 ± 80                         |
| 02/29/08               | LT 4                               | LT 3                                | 1400 ± 80                         |
| 03/14/08               | LT 4                               | LT 3                                | 1550 ± 90                         |
| 03/31/08               | LT 4                               | LT 3                                | 1490 ± 80                         |
| 04/28/08               | LT 4                               | LT 3                                | 1420 ± 80                         |
| 05/07/08               | LT 3                               | LT 3                                | 1440 ± 80                         |
| 06/03/08               | LT 4                               | LT 3                                | 1430 ± 80                         |
| 06/26/08               | LT 5                               | LT 3                                | 1390 ± 80                         |
| 07/10/08               | LT 4                               | LT 3                                | 1460 ± 80                         |
| 07/23/08               | LT 4                               | LT 3                                | 1460 ± 80                         |
| 08/13/08               | LT 4                               | LT 3                                | 1400 ± 80                         |
| 08/26/08               | LT 5                               | LT 3                                | 1440 ± 80                         |
| 09/10/08               | LT 4                               | LT 3                                | 1390 ± 80                         |
| 09/22/08               | LT 4                               | LT 3                                | 1540 ± 80                         |
| 10/14/08               | LT 4                               | LT 3                                | 1330 ± 80                         |
| 10/29/08               | LT 10                              | LT 7                                | 1500 ± 100                        |
| 11/13/08               | LT 5                               | LT 3                                | 1350 ± 90                         |
| 11/26/08               | LT 5                               | LT 3                                | 1490 ± 80                         |
| 12/11/08               | LT 3                               | LT 3                                | 1450 ± 80                         |
| 12/16/08               | LT 4                               | LT 3                                | 1490 ± 90                         |

LT – Less Than

## Appendix B

### Terrestrial Monitoring 2008 Monroe Milk Station

| Collection Date | <sup>131</sup> I<br>(pCi/l) | <sup>137</sup> Cs<br>(pCi/l) | <sup>40</sup> K<br>(pCi/l) |
|-----------------|-----------------------------|------------------------------|----------------------------|
| 01/10/08        | LT 4                        | LT 3                         | 1340 ± 80                  |
| 01/25/08        | LT 4                        | LT 3                         | 1440 ± 80                  |
| 02/08/08        | LT 4                        | LT 3                         | 1430 ± 80                  |
| 02/23/08        | LT 3                        | LT 3                         | 1190 ± 80                  |
| 03/06/08        | LT 5                        | LT 3                         | 1270 ± 80                  |
| 04/03/08        | LT 5                        | LT 3                         | 1200 ± 80                  |
| 04/18/08        | LT 4                        | LT 3                         | 1310 ± 80                  |
| 05/01/08        | LT 4                        | LT 3                         | 620 ± 60                   |
| 05/15/08        | LT 5                        | LT 3                         | 1130 ± 80                  |
| 05/29/08        | LT 5                        | LT 3                         | 1280 ± 80                  |
| 06/14/08        | LT 4                        | LT 3                         | 1220 ± 80                  |
| 06/30/08        | LT 4                        | LT 3                         | 1120 ± 80                  |
| 07/10/08        | LT 5                        | LT 3                         | 1270 ± 80                  |
| 07/27/08        | LT 3                        | LT 3                         | 1220 ± 80                  |
| 08/07/08        | LT 5                        | LT 3                         | 1210 ± 80                  |
| 08/21/08        | LT 4                        | LT 3                         | 1330 ± 80                  |
| 09/06/08        | LT 4                        | LT 3                         | 1280 ± 80                  |
| 09/18/08        | LT 5                        | LT 3                         | 1050 ± 80                  |
| 10/02/08        | LT 5                        | LT 3                         | 1140 ± 80                  |
| 10/16/08        | LT 4                        | LT 3                         | 1270 ± 80                  |
| 10/30/08        | LT 5                        | LT 3                         | 1090 ± 70                  |
| 11/13/08        | LT 4                        | LT 3                         | 700 ± 70                   |
| 11/29/08        | LT 4                        | LT 3                         | 1120 ± 80                  |
| 12/11/08        | LT 5                        | LT 3                         | 1170 ± 80                  |
| 12/24/07        | LT 6                        | LT 3                         | 1340 ± 80                  |

LT – Less Than

Appendix B  
 Terrestrial Monitoring  
 2008  
 South Haven Milk Station

| Collection Date | <sup>131</sup> I (pCi/l) | <sup>137</sup> Cs (pCi/l) | <sup>40</sup> K (pCi/l) |
|-----------------|--------------------------|---------------------------|-------------------------|
| 01/09/08        | LT 3                     | LT 3                      | 1050 ± 70               |
| 01/23/08        | LT 3                     | LT 3                      | 1120 ± 80               |
| 02/06/08        | LT 3                     | LT 3                      | 1440 ± 80               |
| 02/16/08        | LT 4                     | LT 3                      | 1350 ± 80               |
| 03/05/08        | LT 3                     | LT 3                      | 1270 ± 80               |
| 03/18/08        | LT 3                     | LT 3                      | 1140 ± 80               |
| 04/09/08        | LT 4                     | LT 3                      | 960 ± 70                |
| 04/16/08        | LT 3                     | LT 3                      | 1150 ± 80               |
| 04/30/08        | LT 3                     | LT 3                      | 1460 ± 90               |
| 05/19/08        | LT 4                     | LT 3                      | 1190 ± 80               |
| 05/29/08        | LT 5                     | LT 3                      | 1110 ± 80               |
| 06/18/08        | LT 3                     | LT 3                      | 1110 ± 80               |
| 07/02/08        | LT 3                     | LT 3                      | 1100 ± 70               |
| 07/15/08        | LT 3                     | LT 3                      | 1100 ± 80               |
| 07/30/08        | LT 3                     | LT 3                      | 830 ± 70                |
| 08/13/08        | LT 7                     | LT 7                      | 940 ± 90                |
| 09/03/08        | LT 3                     | LT 3                      | 1200 ± 80               |
| 09/15/08        | LT 3                     | LT 3                      | 1280 ± 80               |
| 10/01/08        | LT 3                     | LT 3                      | 1160 ± 80               |
| 10/14/08        | LT 4                     | LT 3                      | 1330 ± 80               |
| 10/21/08        | LT 3                     | LT 3                      | 1220 ± 80               |
| 11/05/08        | LT 4                     | LT 3                      | 1300 ± 80               |
| 11/19/08        | LT 3                     | LT 3                      | 1310 ± 80               |
| 12/03/08        | LT 3                     | LT 3                      | 1120 ± 70               |
| 12/16/08        | LT 3                     | LT 3                      | 1290 ± 80               |
| 12/29/08        | LT 3                     | LT 3                      | 1210 ± 80               |

LT – Less Than

## Appendix B

### Terrestrial Monitoring 2009 Detroit Milk Station

| <b>Collection Date</b> | <b><sup>131</sup>I<br/>(pCi/l)</b> | <b><sup>137</sup>Cs<br/>(pCi/l)</b> | <b><sup>40</sup>K<br/>(pCi/l)</b> |
|------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| 01/05/09               | LT 4                               | LT 3                                | 1400 ± 80                         |
| 02/04/09               | LT 3                               | LT 3                                | 1400 ± 80                         |
| 03/02/09               | LT 4                               | LT 3                                | 1550 ± 90                         |
| 04/20/09               | LT 4                               | LT 3                                | 1440 ± 80                         |
| 05/18/09               | LT 4                               | LT 3                                | 1530 ± 80                         |
| 06/08/09               | LT 5                               | LT 3                                | 1420 ± 80                         |
| 07/07/09               | LT 3                               | LT 3                                | 1550 ± 80                         |
| 08/03/09               | LT 3                               | LT 3                                | 1520 ± 80                         |
| 09/14/09               | LT 4                               | LT 3                                | 1490 ± 80                         |
| 10/05/09               | LT 3                               | LT 3                                | 1500 ± 80                         |
| 11/17/09               | LT 3                               | LT 3                                | 1280 ± 80                         |
| 12/15/09               | LT 3                               | LT 3                                | 1460 ± 80                         |

LT – Less Than

## Appendix B

### Terrestrial Monitoring 2009 Grand Rapids Milk Station

| <b>Collection Date</b> | <b><sup>131</sup>I<br/>(pCi/l)</b> | <b><sup>137</sup>Cs<br/>(pCi/l)</b> | <b><sup>40</sup>K<br/>(pCi/l)</b> |
|------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| 01/30/09               | LT 4                               | LT 3                                | 1450 ± 80                         |
| 02/04/09               | LT 3                               | LT 3                                | 1400 ± 80                         |
| 02/26/09               | LT 4                               | LT 3                                | 1460 ± 80                         |
| 03/26/09               | LT 3                               | LT 3                                | 1340 ± 80                         |
| 05/29/09               | LT 4                               | LT 3                                | 1460 ± 80                         |
| 06/30/09               | LT 3                               | LT 3                                | 1440 ± 80                         |
| 07/24/09               | LT 4                               | LT 3                                | 1440 ± 90                         |
| 08/31/09               | LT 3                               | LT 3                                | 1450 ± 80                         |
| 09/30/09               | LT 3                               | LT 3                                | 1370 ± 80                         |
| 10/30/09               | LT 4                               | LT 3                                | 1450 ± 80                         |
| 11/30/09               | LT 4                               | LT 3                                | 1480 ± 80                         |
| 12/18/09               | LT 4                               | LT 3                                | 1470 ± 80                         |

LT – Less Than

## Appendix B

### Terrestrial Monitoring 2009 Lansing Milk Station

| Collection Date | <sup>131</sup> I<br>(pCi/l) | <sup>137</sup> Cs<br>(pCi/l) | <sup>40</sup> K<br>(pCi/l) |
|-----------------|-----------------------------|------------------------------|----------------------------|
| 01/12/09        | LT 3                        | LT 3                         | 1500 ± 80                  |
| 01/26/09        | LT 3                        | LT 3                         | 1480 ± 80                  |
| 02/09/09        | LT 3                        | LT 3                         | 1400 ± 80                  |
| 02/23/09        | LT 3                        | LT 3                         | 1480 ± 80                  |
| 03/09/09        | LT 3                        | LT 3                         | 1460 ± 80                  |
| 03/23/09        | LT 3                        | LT 3                         | 1470 ± 80                  |
| 04/06/09        | LT 3                        | LT 3                         | 1540 ± 80                  |
| 04/20/09        | LT 3                        | LT 3                         | 1460 ± 80                  |
| 05/04/09        | LT 3                        | LT 3                         | 1490 ± 80                  |
| 05/18/09        | LT 3                        | LT 3                         | 1470 ± 80                  |
| 06/01/09        | LT 3                        | LT 3                         | 1230 ± 80                  |
| 06/16/09        | LT 3                        | LT 3                         | 1510 ± 80                  |
| 06/29/09        | LT 3                        | LT 3                         | 1400 ± 80                  |
| 07/13/09        | LT 3                        | LT 3                         | 1470 ± 80                  |
| 07/27/09        | LT 3                        | LT 3                         | 1480 ± 80                  |
| 08/11/09        | LT 3                        | LT 3                         | 1430 ± 80                  |
| 08/24/09        | LT 3                        | LT 3                         | 1490 ± 80                  |
| 09/08/09        | LT 3                        | LT 3                         | 1490 ± 80                  |
| 09/21/09        | LT 3                        | LT 3                         | 1460 ± 80                  |
| 10/05/09        | LT 3                        | LT 3                         | 1460 ± 80                  |
| 10/19/09        | LT 3                        | LT 3                         | 1440 ± 80                  |
| 11/02/09        | LT 3                        | LT 3                         | 1420 ± 80                  |
| 11/16/09        | LT 3                        | LT 3                         | 1510 ± 80                  |
| 11/30/09        | LT 3                        | LT 3                         | 1530 ± 90                  |
| 12/15/09        | LT 3                        | LT 3                         | 1430 ± 80                  |
| 12/28/09        | LT 3                        | LT 3                         | 1500 ± 90                  |

LT – Less Than

## Appendix B

Terrestrial Monitoring  
2009  
Marquette Milk Station

| Collection Date | <sup>131</sup> I<br>(pCi/l) | <sup>137</sup> Cs<br>(pCi/l) | <sup>40</sup> K<br>(pCi/l) |
|-----------------|-----------------------------|------------------------------|----------------------------|
| 01/13/09        | LT 4                        | LT 3                         | 1430 ± 80                  |
| 01/27/09        | LT 4                        | LT 3                         | 1530 ± 80                  |
| 02/10/09        | LT 4                        | LT 3                         | 1340 ± 80                  |
| 02/24/09        | LT 4                        | LT 3                         | 1360 ± 80                  |
| 03/17/09        | LT 4                        | LT 3                         | 1410 ± 80                  |
| 03/25/09        | LT 3                        | LT 3                         | 1390 ± 80                  |
| 04/08/09        | LT 4                        | LT 3                         | 1500 ± 80                  |
| 04/29/09        | LT 3                        | LT 3                         | 1480 ± 80                  |
| 06/10/09        | LT 3                        | LT 3                         | 1350 ± 80                  |
| 06/23/09        | LT 3                        | LT 3                         | 1400 ± 80                  |
| 07/07/09        | LT 4                        | LT 3                         | 1540 ± 80                  |
| 07/22/09        | LT 4                        | LT 3                         | 1460 ± 80                  |
| 08/11/09        | LT 3                        | LT 3                         | 1420 ± 80                  |
| 08/18/09        | LT 3                        | LT 3                         | 1400 ± 80                  |
| 09/10/09        | LT 4                        | LT 3                         | 1530 ± 80                  |
| 09/22/09        | LT 5                        | LT 3                         | 1480 ± 80                  |
| 10/06/09        | LT 3                        | LT 3                         | 1480 ± 80                  |
| 10/20/09        | LT 4                        | LT 3                         | 1420 ± 80                  |
| 11/04/09        | LT 3                        | LT 3                         | 1420 ± 80                  |
| 11/17/09        | LT 3                        | LT 3                         | 1150 ± 80                  |
| 12/01/09        | LT 3                        | LT 3                         | 1480 ± 80                  |
| 12/15/09        | LT 4                        | LT 3                         | 1410 ± 80                  |

LT – Less Than



## Appendix B

Terrestrial Monitoring  
2009  
Monroe Milk Station

| Collection Date | <sup>131</sup> I (pCi/l) | <sup>137</sup> Cs (pCi/l) | <sup>40</sup> K (pCi/l) |
|-----------------|--------------------------|---------------------------|-------------------------|
| 01/08/09        | LT 4                     | LT 3                      | 1000 ± 70               |
| 01/22/09        | LT 5                     | LT 3                      | 1340 ± 80               |
| 02/05/09        | LT 5                     | LT 3                      | 1210 ± 80               |
| 02/19/09        | LT 4                     | LT 3                      | 1150 ± 80               |
| 03/05/09        | LT 4                     | LT 3                      | 1120 ± 80               |
| 03/20/09        | LT 4                     | LT 3                      | 1120 ± 80               |
| 04/02/09        | LT 5                     | LT 3                      | 1260 ± 80               |
| 04/16/09        | LT 4                     | LT 3                      | 1110 ± 80               |
| 04/30/09        | LT 5                     | LT 3                      | 1350 ± 80               |
| 05/16/09        | LT 4                     | LT 3                      | 1340 ± 80               |
| 05/28/09        | LT 5                     | LT 3                      | 1240 ± 80               |
| 06/12/09        | LT 4                     | LT 3                      | 1210 ± 80               |
| 06/25/09        | LT 4                     | LT 3                      | 1100 ± 80               |
| 07/09/09        | LT 5                     | LT 3                      | 1170 ± 80               |
| 07/23/09        | LT 4                     | LT 3                      | 1160 ± 80               |
| 08/06/09        | LT 4                     | LT 3                      | 1460 ± 80               |
| 08/21/09        | LT 4                     | LT 3                      | 1270 ± 80               |
| 09/03/09        | LT 5                     | LT 3                      | 1280 ± 80               |
| 09/17/09        | LT 5                     | LT 3                      | 1320 ± 80               |
| 10/08/09        | LT 4                     | LT 3                      | 1340 ± 80               |
| 10/29/09        | LT 4                     | LT 3                      | 1210 ± 80               |
| 11/12/09        | LT 5                     | LT 3                      | 1150 ± 80               |
| 11/25/09        | LT 5                     | LT 3                      | 1430 ± 80               |
| 12/10/09        | LT 4                     | LT 3                      | 1310 ± 80               |
| 12/22/09        | LT 5                     | LT 3                      | 1360 ± 80               |

LT – Less Than

## Appendix B

### Terrestrial Monitoring 2009 South Haven Milk Station

| <b>Collection Date</b> | <b><sup>131</sup>I<br/>(pCi/l)</b> | <b><sup>137</sup>Cs<br/>(pCi/l)</b> | <b><sup>40</sup>K<br/>(pCi/l)</b> |
|------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| 01/13/09               | LT 3                               | LT 3                                | 1260 ± 80                         |
| 01/27/09               | LT 3                               | LT 3                                | 1320 ± 80                         |
| 02/10/09               | LT 3                               | LT 3                                | 1090 ± 80                         |
| 02/24/09               | LT 3                               | LT 3                                | 1110 ± 80                         |
| 03/10/09               | LT 3                               | LT 3                                | 930 ± 70                          |
| 03/25/09               | LT 3                               | LT 3                                | 1150 ± 80                         |
| 04/08/09               | LT 3                               | LT 3                                | 800 ± 70                          |
| 04/21/09               | LT 3                               | LT 3                                | 1080 ± 80                         |
| 04/29/09               | LT 3                               | LT 3                                | 1480 ± 80                         |
| 05/06/09               | LT 3                               | LT 3                                | 1350 ± 80                         |
| 05/20/09               | LT 3                               | LT 3                                | 1160 ± 80                         |
| 06/02/09               | LT 3                               | LT 3                                | 1340 ± 80                         |
| 06/17/09               | LT 3                               | LT 3                                | 1210 ± 80                         |
| 06/29/09               | LT 4                               | LT 3                                | 1190 ± 80                         |
| 07/14/09               | LT 4                               | LT 3                                | 1380 ± 80                         |
| 07/28/09               | LT 3                               | LT 3                                | 1200 ± 80                         |
| 08/11/09               | LT 4                               | LT 3                                | 1240 ± 80                         |
| 08/25/09               | LT 4                               | LT 3                                | 1280 ± 80                         |
| 09/09/09               | LT 3                               | LT 3                                | 1330 ± 80                         |
| 10/06/09               | LT 4                               | LT 3                                | 1340 ± 80                         |
| 10/20/09               | LT 3                               | LT 3                                | 1350 ± 80                         |
| 11/04/09               | LT 3                               | LT 3                                | 1180 ± 80                         |
| 11/17/09               | LT 3                               | LT 3                                | 735 ± 70                          |
| 12/02/09               | LT 3                               | LT 3                                | 1360 ± 80                         |
| 12/16/09               | LT 3                               | 4 ± 3                               | 1420 ± 80                         |
| 12/29/09               | LT 5                               | LT 3                                | 1360 ± 80                         |

LT – Less Than

## Appendix B

### Terrestrial Monitoring 2010 Detroit Milk Station

| <b>Collection Date</b> | <b><sup>131</sup>I<br/>(pCi/l)</b> | <b><sup>137</sup>Cs<br/>(pCi/l)</b> | <b><sup>40</sup>K<br/>(pCi/l)</b> |
|------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| 02/01/10               | LT 3                               | LT 3                                | 1420 ± 80                         |
| 03/09/10               | LT 3                               | LT 3                                | 1500 ± 80                         |
| 05/24/10               | LT 3                               | LT 3                                | 1480 ± 80                         |
| 06/08/10               | LT 3                               | LT 3                                | 1440 ± 80                         |
| 07/06/10               | LT 3                               | LT 3                                | 1570 ± 90                         |
| 08/09/10               | LT 6                               | LT 3                                | 1200 ± 80                         |
| 10/26/10               | LT 3                               | LT 3                                | 1460 ± 80                         |
| 11/16/10               | LT 3                               | LT 3                                | 1380 ± 80                         |
| 12/06/10               | LT 7                               | LT 3                                | 1520 ± 80                         |

LT – Less Than

## Appendix B

Terrestrial Monitoring  
2010  
Grand Rapids Milk Station

| <b>Collection Date</b> | <b><sup>131</sup>I<br/>(pCi/l)</b> | <b><sup>137</sup>Cs<br/>(pCi/l)</b> | <b><sup>40</sup>K<br/>(pCi/l)</b> |
|------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| 01/15/10               | LT 4                               | LT 3                                | 1490 ± 80                         |
| 03/01/10               | LT 3                               | LT 3                                | 1520 ± 80                         |
| 03/29/10               | LT 3                               | LT 3                                | 1470 ± 80                         |
| 04/30/10               | LT 4                               | LT 3                                | 1450 ± 80                         |
| 06/02/10               | LT 3                               | LT 3                                | 1370 ± 80                         |
| 06/29/10               | LT 3                               | LT 3                                | 1470 ± 90                         |
| 07/28/10               | LT 36                              | LT 3                                | 1430 ± 80                         |
| 10/28/10               | LT 4                               | LT 3                                | 1490 ± 90                         |
| 11/22/10               | LT 3                               | LT 3                                | 1410 ± 90                         |

LT – Less Than

## Appendix B

### Terrestrial Monitoring 2010 Lansing Milk Station

| Collection Date | <sup>131</sup> I<br>(pCi/l) | <sup>137</sup> Cs<br>(pCi/l) | <sup>40</sup> K<br>(pCi/l) |
|-----------------|-----------------------------|------------------------------|----------------------------|
| 01/11/10        | LT 3                        | LT 3                         | 1500 ± 80                  |
| 01/25/10        | LT 3                        | LT 3                         | 1490 ± 80                  |
| 02/08/10        | LT 3                        | LT 3                         | 1540 ± 80                  |
| 02/22/10        | LT 3                        | LT 3                         | 1450 ± 80                  |
| 03/08/10        | LT 3                        | LT 3                         | 1500 ± 80                  |
| 03/22/10        | LT 6                        | LT 3                         | 1400 ± 90                  |
| 04/05/10        | LT 3                        | LT 3                         | 1480 ± 80                  |
| 04/19/10        | LT 3                        | LT 3                         | 1490 ± 80                  |
| 04/27/10        | LT 3                        | LT 3                         | 1480 ± 80                  |
| 04/30/10        | LT 4                        | LT 3                         | 1480 ± 90                  |
| 05/17/10        | LT 3                        | LT 3                         | 1570 ± 90                  |
| 06/01/10        | LT 3                        | LT 3                         | 1500 ± 80                  |
| 06/15/10        | LT 3                        | LT 3                         | 1500 ± 80                  |
| 06/28/10        | LT 3                        | LT 3                         | 1490 ± 80                  |
| 07/12/10        | LT 3                        | LT 3                         | 1540 ± 90                  |
| 07/26/10        | LT 61                       | LT 4                         | 3100 ± 10                  |
| 08/09/10        | LT 7                        | LT 3                         | 1500 ± 80                  |
| 08/23/10        | LT 6                        | LT 3                         | 1480 ± 80                  |
| 09/07/10        | LT 3                        | LT 3                         | 1440 ± 80                  |
| 09/20/10        | LT 3                        | LT 3                         | 1440 ± 80                  |
| 10/18/10        | LT 3                        | LT 3                         | 1420 ± 80                  |
| 11/04/10        | LT 4                        | LT 3                         | 1430 ± 90                  |
| 11/15/10        | LT 3                        | LT 3                         | 1420 ± 80                  |
| 11/29/10        | LT 3                        | LT 3                         | 1410 ± 80                  |
| 12/06/10        | LT 3                        | LT 3                         | 1470 ± 80                  |
| 12/17/10        | LT 3                        | LT 3                         | 1350 ± 80                  |

LT – Less Than

## Appendix B

Terrestrial Monitoring  
2010  
Marquette Milk Station

| Collection Date | <sup>131</sup> I<br>(pCi/l) | <sup>137</sup> Cs<br>(pCi/l) | <sup>40</sup> K<br>(pCi/l) |
|-----------------|-----------------------------|------------------------------|----------------------------|
| 01/12/10        | LT 3                        | LT 3                         | 1430 ± 80                  |
| 01/27/10        | LT 3                        | LT 3                         | 1430 ± 80                  |
| 02/09/10        | LT 4                        | LT 3                         | 1310 ± 80                  |
| 02/23/10        | LT 5                        | LT 3                         | 1420 ± 80                  |
| 03/10/10        | LT 3                        | LT 3                         | 1410 ± 80                  |
| 03/25/10        | LT 4                        | LT 3                         | 1380 ± 90                  |
| 04/07/10        | LT 3                        | LT 3                         | 1500 ± 80                  |
| 04/21/10        | LT 3                        | LT 3                         | 1410 ± 80                  |
| 05/11/10        | LT 4                        | LT 3                         | 1400 ± 80                  |
| 05/25/10        | LT 4                        | LT 3                         | 1380 ± 80                  |
| 06/09/10        | LT 4                        | LT 3                         | 1440 ± 80                  |
| 06/22/10        | LT 5                        | LT 3                         | 1450 ± 80                  |
| 07/07/10        | LT 4                        | LT 3                         | 1430 ± 80                  |
| 07/20/10        | LT 59                       | LT 3                         | 1420 ± 80                  |
| 08/10/10        | LT 13                       | LT 3                         | 1380 ± 80                  |
| 08/31/10        | LT 4                        | LT 3                         | 1460 ± 90                  |
| 09/14/10        | LT 3                        | LT 3                         | 1470 ± 80                  |
| 10/26/10        | LT 4                        | LT 3                         | 1450 ± 80                  |
| 11/03/10        | LT 4                        | LT 3                         | 1490 ± 80                  |
| 11/18/10        | LT 4                        | LT 3                         | 1360 ± 82                  |
| 12/02/10        | LT 4                        | LT 3                         | 1460 ± 80                  |
| 12/09/10        | LT 4                        | LT 3                         | 1390 ± 80                  |

LT – Less Than

## Appendix B

### Terrestrial Monitoring 2010 Monroe Milk Station

| Collection Date | <sup>131</sup> I<br>(pCi/l) | <sup>137</sup> Cs<br>(pCi/l) | <sup>40</sup> K<br>(pCi/l) |
|-----------------|-----------------------------|------------------------------|----------------------------|
| 01/07/10        | LT 5                        | LT 3                         | 1490 ± 80                  |
| 01/21/10        | LT 4                        | LT 3                         | 1230 ± 80                  |
| 02/04/10        | LT 5                        | LT 3                         | 1130 ± 80                  |
| 02/19/10        | LT 4                        | LT 3                         | 1540 ± 90                  |
| 03/04/10        | LT 5                        | LT 3                         | 1210 ± 80                  |
| 03/18/10        | LT 7                        | LT 3                         | 1250 ± 80                  |
| 04/01/10        | LT 5                        | LT 3                         | 1040 ± 70                  |
| 04/15/10        | LT 5                        | LT 3                         | 1200 ± 80                  |
| 04/29/10        | LT 5                        | LT 3                         | 1170 ± 80                  |
| 05/13/10        | LT 5                        | LT 3                         | 1020 ± 70                  |
| 05/27/10        | LT 5                        | LT 3                         | 1010 ± 70                  |
| 06/10/10        | LT 5                        | LT 3                         | 1330 ± 80                  |
| 06/26/10        | LT 4                        | LT 3                         | 1040 ± 80                  |
| 07/09/10        | LT 4                        | LT 3                         | 1500 ± 80                  |
| 07/22/10        | LT 57                       | LT 3                         | 1460 ± 80                  |
| 08/05/10        | LT 16                       | LT 3                         | 1240 ± 80                  |
| 08/18/10        | LT 9                        | LT 3                         | 1250 ± 80                  |
| 09/01/10        | LT 5                        | LT 3                         | 1140 ± 80                  |
| 10/14/10        | LT 5                        | LT 3                         | 1070 ± 70                  |
| 10/28/10        | LT 5                        | LT 3                         | 1403 ± 80                  |
| 11/10/10        | LT 5                        | LT 3                         | 1110 ± 80                  |
| 11/24/10        | LT 4                        | LT 3                         | 1350 ± 80                  |
| 12/09/10        | LT 4                        | LT 3                         | 1290 ± 80                  |

LT – Less Than

## Appendix B

### Terrestrial Monitoring 2010 South Haven Milk Station

| Collection Date | <sup>131</sup> I<br>(pCi/l) | <sup>137</sup> Cs<br>(pCi/l) | <sup>40</sup> K<br>(pCi/l) |
|-----------------|-----------------------------|------------------------------|----------------------------|
| 01/13/10        | LT 3                        | LT 3                         | 1310 ± 80                  |
| 01/27/10        | LT 3                        | LT 3                         | 1270 ± 80                  |
| 02/10/10        | LT 3                        | LT 3                         | 1180 ± 80                  |
| 02/20/10        | LT 4                        | LT 3                         | 1320 ± 80                  |
| 03/03/10        | LT 3                        | LT 3                         | 1400 ± 80                  |
| 03/17/10        | LT 8                        | LT 3                         | 1230 ± 80                  |
| 03/30/10        | LT 4                        | LT 3                         | 1090 ± 80                  |
| 04/15/10        | LT 3                        | LT 3                         | 1080 ± 70                  |
| 04/27/10        | LT 3                        | LT 3                         | 1470 ± 80                  |
| 05/11/10        | LT 3                        | LT 3                         | 1230 ± 80                  |
| 05/26/10        | LT 3                        | LT 3                         | 1300 ± 80                  |
| 06/09/10        | LT 3                        | LT 3                         | 1520 ± 80                  |
| 06/22/10        | LT 3                        | LT 3                         | 950 ± 70                   |
| 07/07/10        | LT 3                        | LT 3                         | 1490 ± 80                  |
| 07/21/10        | LT 65                       | LT 3                         | 1380 ± 90                  |
| 08/02/10        | LT 25                       | LT 3                         | 1600 ± 90                  |
| 08/16/10        | LT 11                       | LT 3                         | 1480 ± 80                  |
| 08/31/10        | LT 3                        | LT 3                         | 1260 ± 80                  |
| 10/19/10        | LT 4                        | 4 ± 3                        | 1330 ± 80                  |
| 11/01/10        | LT 4                        | LT 3                         | 1220 ± 80                  |
| 11/17/10        | LT 3                        | LT 3                         | 1330 ± 80                  |
| 11/30/10        | LT 3                        | LT 3                         | 1360 ± 80                  |
| 12/15/10        | LT 3                        | LT 3                         | 1110 ± 80                  |

LT – Less Than



Appendix B

Terrestrial Monitoring  
2011  
Detroit Milk Station

| <b>Collection Date</b> | <b><sup>131</sup>I<br/>(pCi/l)</b> | <b><sup>137</sup>Cs<br/>(pCi/l)</b> | <b><sup>40</sup>K<br/>(pCi/l)</b> |
|------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| 02/28/11               | LT 4                               | LT 3                                | 1530 ± 80                         |
| 03/28/11               | LT 3                               | LT 3                                | 1460 ± 80                         |
| 04/12/11               | LT 3                               | LT 3                                | 1500 ± 80                         |
| 05/16/11               | LT 3                               | LT 3                                | 1460 ± 80                         |
| 06/14/11               | LT 4                               | LT 3                                | 1400 ± 90                         |
| 07/19/11               | LT 3                               | LT 3                                | 1540 ± 90                         |
| 08/01/11               | LT 3                               | LT 3                                | 1550 ± 80                         |
| 09/27/11               | LT 4                               | LT 3                                | 1430 ± 90                         |
| 11/15/11               | LT 3                               | LT 3                                | 1460 ± 80                         |
| 12/14/11               | LT 4                               | LT 3                                | 1480 ± 80                         |

LT – Less Than

## Appendix B

Terrestrial Monitoring  
2011  
Grand Rapids Milk Station

| Collection Date | <sup>131</sup> I (pCi/l) | <sup>137</sup> Cs (pCi/l) | <sup>40</sup> K (pCi/l) |
|-----------------|--------------------------|---------------------------|-------------------------|
| 01/28/11        | LT 4                     | LT 3                      | 1480 ± 80               |
| 02/25/11        | LT 4                     | LT 3                      | 1420 ± 80               |
| 03/08/11        | LT 3                     | LT 3                      | 1490 ± 80               |
| 03/28/11        | LT 3                     | LT 3                      | 1490 ± 80               |
| 04/28/11        | LT 6                     | LT 4                      | 1400 ± 100              |
| 06/01/11        | LT 4                     | LT 3                      | 1440 ± 80               |
| 06/24/11        | LT 4                     | LT 3                      | 1400 ± 80               |
| 07/29/11        | LT 4                     | LT 3                      | 1420 ± 80               |
| 08/31/11        | LT 3                     | LT 3                      | 1440 ± 90               |
| 09/19/11        | LT 3                     | LT 3                      | 1460 ± 80               |
| 10/27/11        | LT 4                     | LT 3                      | 1380 ± 90               |
| 12/23/11        | LT 9                     | LT 3                      | 1400 ± 90               |

LT – Less Than

## Appendix B

### Terrestrial Monitoring 2011 Lansing Milk Station

| Collection Date | <sup>131</sup> I<br>(pCi/l) | <sup>137</sup> Cs<br>(pCi/l) | <sup>40</sup> K<br>(pCi/l) |
|-----------------|-----------------------------|------------------------------|----------------------------|
| 01/10/11        | LT 3                        | LT 3                         | 1410 ± 80                  |
| 01/24/11        | LT 3                        | LT 3                         | 1410 ± 80                  |
| 02/07/11        | LT 3                        | LT 3                         | 1440 ± 80                  |
| 02/22/11        | LT 3                        | LT 3                         | 1440 ± 80                  |
| 03/07/11        | LT 3                        | LT 3                         | 1460 ± 80                  |
| 03/21/11        | LT 4                        | LT 3                         | 1470 ± 80                  |
| 04/05/11        | LT 3                        | LT 3                         | 1450 ± 80                  |
| 04/18/11        | LT 3                        | LT 3                         | 1480 ± 80                  |
| 05/02/11        | LT 3                        | LT 3                         | 1380 ± 80                  |
| 05/16/11        | LT 3                        | LT 3                         | 1440 ± 80                  |
| 05/31/11        | LT 3                        | LT 3                         | 1400 ± 80                  |
| 06/13/11        | LT 3                        | LT 3                         | 1490 ± 80                  |
| 06/27/11        | LT 3                        | LT 3                         | 1510 ± 80                  |
| 07/13/11        | LT 3                        | LT 3                         | 1450 ± 80                  |
| 07/25/11        | LT 3                        | LT 3                         | 1400 ± 80                  |
| 08/09/11        | LT 3                        | LT 3                         | 1470 ± 80                  |
| 08/22/11        | LT 3                        | LT 3                         | 1420 ± 90                  |
| 09/12/11        | LT 6                        | LT 3                         | 1510 ± 90                  |
| 09/26/11        | LT 3                        | LT 3                         | 1480 ± 80                  |
| 10/10/11        | LT 3                        | LT 3                         | 1450 ± 80                  |
| 10/24/11        | LT 3                        | LT 4                         | 1570 ± 90                  |
| 11/14/11        | LT 3                        | LT 3                         | 1470 ± 80                  |
| 11/28/11        | LT 3                        | LT 3                         | 1420 ± 90                  |
| 12/12/11        | LT 3                        | LT 3                         | 1530 ± 80                  |
| 12/27/11        | LT 3                        | LT 3                         | 1480 ± 80                  |

LT – Less Than

## Appendix B

Terrestrial Monitoring  
2011  
Marquette Milk Station

| Collection Date | <sup>131</sup> I<br>(pCi/l) | <sup>137</sup> Cs<br>(pCi/l) | <sup>40</sup> K<br>(pCi/l) |
|-----------------|-----------------------------|------------------------------|----------------------------|
| 01/18/11        | LT 4                        | LT 3                         | 1440 ± 80                  |
| 01/26/11        | LT 3                        | LT 3                         | 1440 ± 80                  |
| 02/08/11        | LT 4                        | LT 3                         | 1450 ± 90                  |
| 02/23/11        | LT 3                        | LT 3                         | 1340 ± 80                  |
| 03/14/11        | LT 6                        | LT 3                         | 1430 ± 80                  |
| 03/23/11        | LT 3                        | LT 3                         | 1430 ± 80                  |
| 04/12/11        | LT 3                        | LT 3                         | 1380 ± 80                  |
| 04/26/11        | LT 5                        | LT 3                         | 1420 ± 80                  |
| 05/11/11        | LT 3                        | LT 3                         | 1370 ± 80                  |
| 05/24/11        | LT 5                        | LT 3                         | 1420 ± 80                  |
| 06/08/11        | LT 3                        | LT 3                         | 1350 ± 80                  |
| 07/13/11        | LT 4                        | LT 3                         | 1490 ± 90                  |
| 07/27/11        | LT 4                        | LT 3                         | 1360 ± 80                  |
| 08/10/11        | LT 4                        | LT 3                         | 1430 ± 80                  |
| 08/24/11        | LT 3                        | LT 3                         | 1340 ± 80                  |
| 09/14/11        | LT 4                        | LT 3                         | 1480 ± 80                  |
| 09/26/11        | LT 4                        | LT 3                         | 1390 ± 80                  |
| 10/13/11        | LT 4                        | LT 3                         | 1330 ± 80                  |
| 10/26/11        | LT 3                        | LT 3                         | 1310 ± 80                  |
| 11/08/11        | LT 5                        | LT 3                         | 1430 ± 80                  |
| 11/15/11        | LT 3                        | LT 3                         | 1310 ± 80                  |
| 12/07/11        | LT 4                        | LT 3                         | 1380 ± 80                  |
| 12/14/11        | LT 4                        | LT 3                         | 1400 ± 80                  |

LT – Less Than

## Appendix B

### Terrestrial Monitoring 2011 Monroe Milk Station

| Collection Date | <sup>131</sup> I<br>(pCi/l) | <sup>137</sup> Cs<br>(pCi/l) | <sup>40</sup> K<br>(pCi/l) |
|-----------------|-----------------------------|------------------------------|----------------------------|
| 1/6/2011        | LT 9                        | LT 3                         | 1080 ± 70                  |
| 01/20/11        | LT 5                        | LT 3                         | 1360 ± 80                  |
| 02/03/11        | LT 5                        | LT 3                         | 1120 ± 80                  |
| 02/17/11        | LT 5                        | LT 3                         | 1160 ± 80                  |
| 03/02/11        | LT 5                        | LT 3                         | 1070 ± 70                  |
| 03/17/11        | LT 5                        | LT 3                         | 1000 ± 80                  |
| 03/31/11        | LT 4                        | LT 3                         | 1200 ± 80                  |
| 04/14/11        | LT 4                        | LT 3                         | 1320 ± 80                  |
| 04/30/11        | LT 4                        | LT 3                         | 1100 ± 80                  |
| 05/12/11        | LT 5                        | LT 3                         | 1150 ± 80                  |
| 05/26/11        | LT 5                        | LT 3                         | 1180 ± 80                  |
| 06/11/11        | LT 4                        | LT 3                         | 1240 ± 80                  |
| 06/23/11        | LT 4                        | LT 3                         | 1190 ± 80                  |
| 07/07/11        | LT 4                        | LT 3                         | 1250 ± 80                  |
| 07/24/11        | LT 4                        | LT 3                         | 1310 ± 80                  |
| 08/04/11        | LT 5                        | LT 3                         | 1330 ± 80                  |
| 08/17/11        | LT 6                        | LT 3                         | 1350 ± 80                  |
| 09/01/11        | LT 5                        | LT 3                         | 1270 ± 80                  |
| 09/16/11        | LT 5                        | LT 3                         | 1100 ± 70                  |
| 09/29/11        | LT 4                        | LT 3                         | 1150 ± 80                  |
| 10/13/11        | LT 4                        | LT 3                         | 870 ± 70                   |
| 10/27/11        | LT 5                        | LT 3                         | 1180 ± 80                  |
| 11/10/11        | LT 4                        | LT 3                         | 1130 ± 80                  |
| 11/24/11        | LT 4                        | LT 3                         | 1240 ± 80                  |
| 12/08/11        | LT 4                        | LT 3                         | 1250 ± 80                  |
| 12/22/11        | LT 9                        | LT 3                         | 1330 ± 80                  |

LT – Less Than

Appendix B  
 Terrestrial Monitoring  
 2011  
 South Haven Milk Station

| Collection Date | <sup>131</sup> I (pCi/l) | <sup>137</sup> Cs (pCi/l) | <sup>40</sup> K (pCi/l) |
|-----------------|--------------------------|---------------------------|-------------------------|
| 1/11/2011       | LT 7                     | LT 3                      | 1030 ± 80               |
| 1/24/2011       | LT 4                     | LT 3                      | 1230 ± 80               |
| 2/8/2011        | LT 3                     | LT 3                      | 1240 ± 80               |
| 2/22/2011       | LT 3                     | LT 3                      | 1340 ± 80               |
| 3/8/2011        | LT 4                     | LT 3                      | 1360 ± 90               |
| 3/22/2011       | LT 4                     | LT 3                      | 1190± 80                |
| 4/5/2011        | LT 3                     | LT 3                      | 1000 ± 80               |
| 4/18/2011       | LT 4                     | LT 3                      | 1380 ± 80               |
| 5/3/2011        | LT 4                     | LT 3                      | 1020 ± 70               |
| 5/17/2011       | LT 3                     | LT 3                      | 1400 ± 80               |
| 5/31/2011       | LT 3                     | LT 3                      | 1390 ± 80               |
| 6/13/2011       | LT 4                     | LT 3                      | 1380 ± 80               |
| 6/27/2011       | LT 3                     | LT 3                      | 1300 ± 80               |
| 7/12/2011       | LT 3                     | LT 3                      | 1400 ± 80               |
| 7/25/2011       | LT 4                     | LT 3                      | 1450 ± 90               |
| 8/8/2011        | LT 3                     | LT 3                      | 1480 ± 90               |
| 8/29/2011       | LT 4                     | LT 3                      | 1300 ± 80               |
| 9/12/2011       | LT 3                     | LT 3                      | 1180 ± 80               |
| 9/26/2011       | LT 4                     | LT 3                      | 1240 ± 80               |
| 10/9/2011       | LT 4                     | LT 3                      | 1360 ± 80               |
| 10/24/2011      | LT 3                     | LT 3                      | 1240 ± 80               |
| 11/8/2011       | LT 3                     | LT 3                      | 1390 ± 80               |
| 11/21/2011      | LT 5                     | LT 3                      | 980 ± 70                |
| 12/6/2011       | LT 3                     | LT 3                      | 1410 ± 80               |
| 12/27/2011      | LT 6                     | LT 3                      | 1350 ± 80               |

LT – Less Than

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Terrestrial Monitoring  
2012  
Detroit Milk Station

| <b>Collection Date</b> | <b><sup>131</sup>I<br/>(pCi/l)</b> | <b><sup>137</sup>Cs<br/>(pCi/l)</b> | <b><sup>40</sup>K<br/>(pCi/l)</b> |
|------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| 01/31/12               | LT 3                               | LT 3                                | 1420 ± 80                         |
| 02/21/12               | LT 3                               | LT 3                                | 1520 ± 80                         |
| 03/26/12               | LT 3                               | LT 3                                | 1440 ± 80                         |
| 05/01/12               | LT 3                               | LT 3                                | 1480 ± 80                         |
| 06/04/12               | LT 3                               | LT 3                                | 1470 ± 80                         |
| 07/17/12               | LT 3                               | LT 3                                | 1460 ± 80                         |
| 08/07/12               | LT 4                               | LT 3                                | 1500 ± 80                         |
| 09/25/12               | LT 3                               | LT 3                                | 1500 ± 80                         |
| 10/29/12               | LT 5                               | LT 3                                | 1460 ± 80                         |
| 12/10/12               | LT 3                               | LT 3                                | 1470 ± 80                         |

LT – Less Than

## Appendix B

Terrestrial Monitoring  
2012  
Grand Rapids Milk Station

| <b>Collection Date</b> | <b><sup>131</sup>I<br/>(pCi/l)</b> | <b><sup>137</sup>Cs<br/>(pCi/l)</b> | <b><sup>40</sup>K<br/>(pCi/l)</b> |
|------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| 02/01/12               | LT 3                               | LT 3                                | 1400 ± 80                         |
| 02/24/12               | LT 4                               | LT 3                                | 1430 ± 80                         |
| 03/30/12               | LT 4                               | LT 3                                | 1440 ± 80                         |
| 04/27/12               | LT 2                               | LT 2                                | 1420 ± 60                         |
| 05/31/12               | LT 4                               | LT 3                                | 1400 ± 80                         |
| 06/29/12               | LT 3                               | LT 3                                | 1410 ± 80                         |
| 07/31/12               | LT 3                               | LT 3                                | 1430 ± 80                         |
| 08/31/12               | LT 4                               | LT 3                                | 1460 ± 80                         |

LT – Less Than



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### Terrestrial Monitoring 2012 Lansing Milk Station

| Collection Date | <sup>131</sup> I<br>(pCi/l) | <sup>137</sup> Cs<br>(pCi/l) | <sup>40</sup> K<br>(pCi/l) |
|-----------------|-----------------------------|------------------------------|----------------------------|
| 01/09/12        | LT 3                        | LT 3                         | 1450 ± 90                  |
| 01/23/12        | LT 3                        | LT 3                         | 1450 ± 80                  |
| 02/13/12        | LT 3                        | LT 3                         | 1420 ± 80                  |
| 02/27/12        | LT 3                        | LT 3                         | 1500 ± 80                  |
| 03/12/12        | LT 3                        | LT 3                         | 1440 ± 80                  |
| 03/26/12        | LT 4                        | LT 4                         | 3000 ± 100                 |
| 04/09/12        | LT 2                        | LT 2                         | 1490 ± 60                  |
| 04/09/12        | LT 3                        | LT 3                         | 1430 ± 80                  |
| 04/23/12        | LT 3                        | LT 3                         | 1420 ± 80                  |
| 05/07/12        | LT 3                        | LT 3                         | 1490 ± 80                  |
| 05/29/12        | LT 3                        | LT 3                         | 1470 ± 90                  |
| 06/11/12        | LT 3                        | LT 3                         | 1510 ± 80                  |
| 06/25/12        | LT 3                        | LT 3                         | 1440 ± 90                  |
| 07/09/12        | LT 3                        | LT 3                         | 1480 ± 80                  |
| 07/30/12        | LT 3                        | LT 3                         | 1480 ± 80                  |
| 08/13/12        | LT 3                        | LT 3                         | 1420 ± 90                  |
| 08/27/12        | LT 3                        | LT 3                         | 1460 ± 80                  |
| 09/10/12        | LT 3                        | LT 3                         | 1310 ± 80                  |
| 09/26/12        | LT 3                        | LT 3                         | 1460 ± 80                  |
| 10/08/12        | LT 4                        | LT 3                         | 1410 ± 80                  |
| 10/22/12        | LT 3                        | LT 3                         | 1400 ± 80                  |
| 11/13/12        | LT 3                        | LT 3                         | 1490 ± 80                  |
| 12/03/12        | LT 4                        | LT 3                         | 1440 ± 90                  |
| 12/17/12        | LT 4                        | LT 4                         | 1430 ± 100                 |

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## Appendix B

Terrestrial Monitoring  
2012  
Marquette Milk Station

| Collection Date | <sup>131</sup> I (pCi/l) | <sup>137</sup> Cs (pCi/l) | <sup>40</sup> K (pCi/l) |
|-----------------|--------------------------|---------------------------|-------------------------|
| 01/12/12        | LT 5                     | LT 3                      | 1480 ± 80               |
| 01/24/12        | LT 4                     | LT 3                      | 1420 ± 80               |
| 02/08/12        | LT 4                     | LT 3                      | 1450 ± 80               |
| 02/24/12        | LT 3                     | LT 3                      | 1450 ± 80               |
| 03/08/12        | LT 4                     | LT 3                      | 1430 ± 80               |
| 03/21/12        | LT 7                     | LT 5                      | 3000 ± 100              |
| 04/10/12        | LT 3                     | LT 3                      | 1390 ± 80               |
| 04/25/12        | LT 4                     | LT 3                      | 1380 ± 80               |
| 05/09/12        | LT 3                     | LT 3                      | 1310 ± 80               |
| 05/23/12        | LT 4                     | LT 3                      | 1370 ± 80               |
| 06/05/12        | LT 4                     | LT 3                      | 1460 ± 80               |
| 06/20/12        | LT 5                     | LT 3                      | 1360 ± 80               |
| 07/10/12        | LT 4                     | LT 3                      | 1420± 80                |
| 07/25/12        | LT 3                     | LT 3                      | 1250 ± 80               |
| 08/08/12        | LT 4                     | LT 3                      | 1480 ± 80               |
| 08/23/12        | LT 4                     | LT 3                      | 1380 ± 80               |
| 09/12/12        | LT 4                     | LT 3                      | 1450 ± 80               |
| 09/19/12        | LT 5                     | LT 3                      | 1510 ± 80               |
| 10/10/12        | LT 4                     | LT 3                      | 1420 ± 80               |
| 10/22/12        | LT 4                     | LT 3                      | 1420 ± 80               |
| 11/07/12        | LT 6                     | LT 3                      | 1410 ± 80               |
| 11/14/12        | LT 16                    | LT 3                      | 1460 ± 80               |
| 12/04/12        | LT 4                     | LT 3                      | 1450 ± 90               |
| 12/18/12        | LT 3                     | LT 3                      | 1410 ± 80               |

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### Terrestrial Monitoring 2012 Monroe Milk Station

| Collection Date | <sup>131</sup> I<br>(pCi/l) | <sup>137</sup> Cs<br>(pCi/l) | <sup>40</sup> K<br>(pCi/l) |
|-----------------|-----------------------------|------------------------------|----------------------------|
| 01/05/12        | LT 5                        | LT 3                         | 1260 ± 80                  |
| 01/19/12        | LT 4                        | LT 3                         | 1300 ± 80                  |
| 02/02/12        | LT 5                        | LT 3                         | 1120 ± 80                  |
| 02/16/12        | LT 4                        | LT 3                         | 1240 ± 80                  |
| 03/01/12        | LT 4                        | LT 3                         | 1290 ± 80                  |
| 03/15/12        | LT 4                        | LT 3                         | 1160 ± 80                  |
| 03/29/12        | LT 4                        | LT 3                         | 1520 ± 80                  |
| 04/12/12        | LT 4                        | LT 3                         | 1180 ± 80                  |
| 04/26/12        | LT 4                        | LT 3                         | 1180 ± 80                  |
| 05/10/12        | LT 4                        | LT 3                         | 1410 ± 80                  |
| 05/24/12        | LT 4                        | LT 3                         | 980 ± 70                   |
| 06/07/12        | LT 4                        | LT 3                         | 1210 ± 80                  |
| 06/20/12        | LT 5                        | LT 3                         | 1180 ± 80                  |
| 07/05/12        | LT 4                        | LT 3                         | 1280 ± 80                  |
| 07/19/12        | LT 4                        | LT 3                         | 1260 ± 80                  |
| 08/03/12        | LT 4                        | LT 3                         | 910 ± 70                   |
| 08/10/12        | LT 6                        | LT 3                         | 1130 ± 80                  |
| 08/30/12        | LT 5                        | LT 3                         | 1130 ± 80                  |
| 09/13/12        | LT 4                        | LT 3                         | 1200 ± 80                  |
| 09/27/12        | LT 5                        | LT 3                         | 1230 ± 80                  |
| 10/11/12        | LT 4                        | LT 3                         | 1250 ± 80                  |
| 10/25/12        | LT 4                        | LT 3                         | 1350 ± 80                  |
| 11/08/12        | LT 18                       | LT 3                         | 880 ± 70                   |
| 11/21/12        | LT 9                        | LT 3                         | 1240 ± 80                  |
| 12/06/12        | LT 6                        | LT 3                         | 1250 ± 80                  |
| 12/20/12        | LT 6                        | LT 3                         | 1080 ± 70                  |

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 Terrestrial Monitoring  
 2012  
 South Haven Milk Station

| Collection Date | <sup>131</sup> I (pCi/l) | <sup>137</sup> Cs (pCi/l) | <sup>40</sup> K (pCi/l) |
|-----------------|--------------------------|---------------------------|-------------------------|
| 01/09/12        | LT 3                     | LT 3                      | 1460 ± 80               |
| 01/24/12        | LT 3                     | LT 3                      | 1440 ± 80               |
| 02/07/12        | LT 3                     | LT 3                      | 1480 ± 80               |
| 02/21/12        | LT 3                     | LT 3                      | 1470 ± 80               |
| 03/12/12        | LT 3                     | LT 3                      | 1400 ± 80               |
| 03/27/12        | LT 3                     | LT 3                      | 1310 ± 80               |
| 04/17/12        | LT 3                     | LT 3                      | 1420 ± 80               |
| 05/01/12        | LT 3                     | LT 3                      | 1450 ± 80               |
| 05/14/12        | LT 3                     | LT 3                      | 1330 ± 90               |
| 05/29/12        | LT 3                     | LT 3                      | 1290 ± 80               |
| 06/18/12        | LT 3                     | LT 3                      | 1360 ± 80               |
| 07/09/12        | LT 4                     | LT 3                      | 1270 ± 80               |
| 07/23/12        | LT 3                     | LT 3                      | 1470 ± 80               |
| 08/07/12        | LT 3                     | LT 3                      | 1470 ± 80               |
| 08/20/12        | LT 3                     | LT 3                      | 1140 ± 80               |
| 09/05/12        | LT 3                     | LT 3                      | 1330 ± 80               |
| 09/18/12        | LT 4                     | LT 3                      | 1260 ± 80               |
| 10/22/12        | LT 12                    | 4 ± 3                     | 1710 ± 90               |
| 10/29/12        | LT 6                     | LT 3                      | 1420 ± 80               |
| 11/12/12        | LT 6                     | LT 3                      | 1160 ± 80               |
| 11/26/12        | LT 6                     | LT 3                      | 1420 ± 80               |
| 12/11/12        | LT 3                     | LT 3                      | 1520 ± 90               |
| 12/26/12        | LT 4                     | LT 3                      | 1420 ± 90               |

LT – Less Than

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Terrestrial Monitoring  
2013  
Detroit Milk Station

| Collection Date     | <sup>131</sup> I<br>(pCi/l) | <sup>137</sup> Cs<br>(pCi/l) | <sup>40</sup> K<br>(pCi/l) |
|---------------------|-----------------------------|------------------------------|----------------------------|
| NO SAMPLES RECEIVED |                             |                              |                            |

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Terrestrial Monitoring  
2013  
Grand Rapids Milk Station

| <b>Collection Date</b> | <b><sup>131</sup>I<br/>(pCi/l)</b> | <b><sup>137</sup>Cs<br/>(pCi/l)</b> | <b><sup>40</sup>K<br/>(pCi/l)</b> |
|------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| 02/28/13               | LT 4                               | LT 3                                | 1390 ± 90                         |
| 05/10/13               | LT 4                               | LT 3                                | 1380 ± 80                         |

LT – Less Than

## Appendix B

### Terrestrial Monitoring 2013 Lansing Milk Station

| Collection Date | <sup>131</sup> I<br>(pCi/l) | <sup>137</sup> Cs<br>(pCi/l) | <sup>40</sup> K<br>(pCi/l) |
|-----------------|-----------------------------|------------------------------|----------------------------|
| 01/14/13        | LT 3                        | LT 3                         | 1510 ± 80                  |
| 01/28/13        | LT 4                        | LT 3                         | 1450 ± 80                  |
| 02/11/13        | LT 3                        | LT 3                         | 1420 ± 80                  |
| 02/25/13        | LT 3                        | LT 3                         | 1500 ± 80                  |
| 03/11/13        | LT 3                        | LT 3                         | 1410 ± 80                  |
| 03/25/13        | LT 3                        | LT 3                         | 1380 ± 80                  |
| 04/08/13        | LT 3                        | LT 3                         | 1410 ± 80                  |
| 04/22/13        | LT 3                        | LT 3                         | 1370 ± 80                  |
| 05/13/13        | LT 3                        | LT 3                         | 1440 ± 90                  |
| 05/28/13        | LT 3                        | LT 3                         | 1460 ± 90                  |
| 06/10/13        | LT 3                        | LT 3                         | 1430 ± 80                  |
| 06/24/13        | LT 3                        | LT 3                         | 1400 ± 80                  |
| 07/08/13        | LT 3                        | LT 3                         | 1380 ± 80                  |
| 07/22/13        | LT 3                        | LT 3                         | 1420 ± 80                  |
| 08/12/13        | LT 3                        | LT 3                         | 1430 ± 80                  |
| 08/26/13        | LT 3                        | LT 10                        | 1430 ± 90                  |
| 09/09/13        | LT 3                        | LT 3                         | 1470 ± 80                  |
| 09/23/13        | LT 3                        | LT 3                         | 1430 ± 80                  |
| 10/14/13        | LT 3                        | LT 3                         | 1390 ± 80                  |
| 10/28/13        | LT 3                        | LT 3                         | 1420 ± 80                  |
| 11/12/13        | LT 3                        | LT 3                         | 1430 ± 80                  |
| 11/25/13        | LT 3                        | LT 3                         | 1410 ± 90                  |
| 12/09/13        | LT 3                        | LT 3                         | 1450 ± 80                  |
| 12/27/13        | LT 3                        | LT 3                         | 1310 ± 80                  |

LT – Less Than

## Appendix B

Terrestrial Monitoring  
2013  
Marquette Milk Station

| Collection Date | <sup>131</sup> I (pCi/l) | <sup>137</sup> Cs (pCi/l) | <sup>40</sup> K (pCi/l) |
|-----------------|--------------------------|---------------------------|-------------------------|
| 01/15/13        | LT 4                     | LT 3                      | 1390 ± 90               |
| 01/23/13        | LT 3                     | LT 3                      | 1420 ± 80               |
| 02/11/13        | LT 3                     | LT 3                      | 1470 ± 80               |
| 02/25/13        | LT 4                     | LT 3                      | 1340 ± 80               |
| 03/19/13        | LT 3                     | LT 3                      | 1380 ± 80               |
| 03/25/13        | LT 5                     | LT 3                      | 1320 ± 80               |
| 04/09/13        | LT 4                     | LT 3                      | 1300 ± 80               |
| 04/29/13        | LT 4                     | LT 3                      | 1460 ± 90               |
| 05/14/13        | LT 3                     | LT 3                      | 1320 ± 80               |
| 05/23/13        | LT 5                     | LT 3                      | 1410 ± 80               |
| 06/11/13        | LT 3                     | LT 3                      | 1370 ± 80               |
| 06/25/13        | LT 5                     | LT 3                      | 1420 ± 80               |
| 07/09/13        | LT 3                     | LT 3                      | 1420 ± 80               |
| 07/23/13        | LT 3                     | LT 3                      | 1510 ± 80               |
| 08/06/13        | LT 5                     | LT 3                      | 1450 ± 80               |
| 08/21/13        | LT 3                     | LT 3                      | 1140 ± 70               |
| 09/11/13        | LT 4                     | LT 3                      | 1360 ± 80               |
| 09/24/13        | LT 4                     | LT 3                      | 1370 ± 80               |
| 10/10/13        | LT 4                     | LT 3                      | 1390 ± 80               |
| 10/23/13        | LT 4                     | LT 3                      | 1260 ± 80               |
| 11/05/13        | LT 3                     | LT 3                      | 1510 ± 80               |
| 11/20/13        | LT 4                     | LT 3                      | 1420 ± 80               |
| 12/03/13        | LT 4                     | LT 3                      | 1490 ± 80               |
| 12/19/13        | LT 5                     | LT 3                      | 1350 ± 80               |

LT – Less Than



## Appendix B

### Terrestrial Monitoring 2013 Monroe Milk Station

| <b>Collection Date</b> | <b><sup>131</sup>I<br/>(pCi/l)</b> | <b><sup>137</sup>Cs<br/>(pCi/l)</b> | <b><sup>40</sup>K<br/>(pCi/l)</b> |
|------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| 01/03/13               | LT 4                               | LT 3                                | 800 ± 70                          |
| 01/17/13               | LT 4                               | LT 3                                | 980 ± 70                          |
| 01/31/13               | LT 5                               | LT 3                                | 1120 ± 70                         |
| 02/14/13               | LT 4                               | LT 3                                | 1110 ± 80                         |
| 02/28/13               | LT 5                               | LT 3                                | 1220 ± 80                         |
| 03/14/13               | LT 4                               | LT 3                                | 1270 ± 80                         |
| 03/28/13               | LT 5                               | LT 3                                | 1260 ± 80                         |
| 04/11/13               | LT 4                               | LT 3                                | 1220 ± 80                         |
| 04/25/13               | LT 5                               | LT 3                                | 1050 ± 70                         |
| 05/09/13               | LT 5                               | LT 3                                | 1170 ± 80                         |
| 05/23/13               | LT 5                               | LT 3                                | 1120 ± 80                         |
| 06/06/13               | LT 5                               | LT 3                                | 1220 ± 80                         |
| 06/20/13               | LT 5                               | LT 3                                | 1420 ± 80                         |
| 07/08/13               | LT 3                               | LT 3                                | 1240 ± 80                         |
| 07/18/13               | LT 5                               | LT 3                                | 1200 ± 80                         |
| 08/01/13               | LT 4                               | LT 3                                | 1180 ± 80                         |
| 08/15/13               | LT 5                               | LT 3                                | 1260 ± 80                         |
| 08/29/13               | LT 5                               | LT 3                                | 1280 ± 80                         |
| 08/29/13               | LT 5                               | LT 3                                | 1280 ± 80                         |
| 09/12/13               | LT 5                               | LT 3                                | 1460 ± 80                         |
| 09/26/13               | LT 4                               | LT 3                                | 1200 ± 80                         |
| 10/10/13               | LT 5                               | LT 3                                | 1220 ± 80                         |
| 10/24/13               | LT 5                               | LT 3                                | 1150 ± 80                         |
| 11/08/13               | LT 4                               | LT 3                                | 1310 ± 80                         |
| 11/21/13               | LT 2                               | LT 3                                | 1360 ± 80                         |
| 12/08/13               | LT 4                               | LT 2                                | 1110 ± 70                         |
| 12/20/13               | LT 4                               | LT 2                                | 890 ± 60                          |

LT – Less Than

## Appendix B

### Terrestrial Monitoring 2013 South Haven Milk Station

| Collection Date | <sup>131</sup> I<br>(pCi/l) | <sup>137</sup> Cs<br>(pCi/l) | <sup>40</sup> K<br>(pCi/l) |
|-----------------|-----------------------------|------------------------------|----------------------------|
| 01/15/13        | LT 4                        | LT 3                         | 1170 ± 80                  |
| 01/29/13        | LT 3                        | LT 3                         | 1190 ± 80                  |
| 02/13/13        | LT 3                        | LT 3                         | 1240 ± 80                  |
| 03/05/13        | LT 4                        | LT 3                         | 1320 ± 80                  |
| 03/25/13        | LT 5                        | LT 3                         | 1500 ± 80                  |
| 04/08/13        | LT 3                        | LT 3                         | 1410 ± 80                  |
| 04/23/13        | LT 6                        | LT 3                         | 1490 ± 80                  |
| 05/06/13        | LT 4                        | LT 3                         | 1540 ± 90                  |
| 05/21/13        | LT 3                        | LT 3                         | 1500 ± 80                  |
| 06/04/13        | LT 3                        | LT 3                         | 1540 ± 80                  |
| 06/11/13        | LT 3                        | LT 3                         | 1390 ± 80                  |
| 07/01/13        | LT 3                        | LT 3                         | 1450 ± 80                  |
| 07/29/13        | LT 3                        | LT 3                         | 1250 ± 80                  |
| 08/12/13        | LT 3                        | LT 3                         | 1450 ± 80                  |
| 08/26/13        | LT 4                        | LT 3                         | 1340 ± 80                  |
| 09/10/13        | LT 3                        | LT 3                         | 1200 ± 80                  |
| 09/23/13        | LT 3                        | LT 3                         | 1390 ± 80                  |
| 10/07/13        | LT 3                        | LT 3                         | 1520 ± 80                  |
| 10/21/13        | LT 2                        | LT 2                         | 1410 ± 60                  |
| 11/05/13        | LT 3                        | LT 3                         | 1300 ± 80                  |
| 11/25/13        | LT 3                        | LT 3                         | 940 ± 70                   |
| 12/10/13        | LT 3                        | LT 3                         | 1300 ± 80                  |
| 12/23/13        | LT 3                        | LT 2                         | 990 ± 60                   |

LT – Less Than

Appendix C  
 Aquatic Monitoring  
 Palisades  
 2008  
 Reactor Site

| <b>Collection Date</b> | <b>Gross Beta (pCi/l)</b> | <b>Tritium (pCi/l)</b> |
|------------------------|---------------------------|------------------------|
| 01/28/08               | 2 ± 1                     | LT 200                 |
| 02/28/08               | 2 ± 1                     | LT 200                 |
| 03/25/08               | 2 ± 1                     | LT 200                 |
| 04/15/08               | 2 ± 1                     | LT 200                 |
| 05/19/08               | 2 ± 1                     | LT 200                 |
| 06/18/08               | LT 1                      | LT 200                 |
| 08/20/08               | 2 ± 1                     | 200 ± 200              |
| 10/06/08               | 2 ± 1                     | LT 200                 |
| 10/13/08               | 2 ± 1                     | LT 200                 |
| 11/10/08               | 2 ± 1                     | LT 200                 |
| 12/10/08               | 3 ± 1                     | 300 ± 200              |

LT – Less Than

Appendix C

Aquatic Monitoring  
D. C. Cook Unit 1  
2008  
Reactor Site

| <b>Collection Date</b> | <b>Gross Beta (pCi/l)</b> | <b>Tritium (pCi/l)</b> |
|------------------------|---------------------------|------------------------|
| 08/14/08               | 2 ± 1                     | LT 200                 |
| 10/14/08               | 2 ± 1                     | LT 200                 |
| 12/01/08               | 2 ± 1                     | LT 200                 |

LT – Less Than

Appendix C

Aquatic Monitoring  
D. C. Cook Unit 2  
2008  
Reactor Site

| <b>Collection Date</b> | <b>Gross Beta (pCi/l)</b> | <b>Tritium (pCi/l)</b> |
|------------------------|---------------------------|------------------------|
| 08/14/08               | 2 ± 1                     | LT 200                 |
| 10/14/08               | 2 ± 1                     | LT 200                 |
| 12/01/08               | 2 ± 1                     | LT 200                 |

LT – Less Than

Appendix C  
 Aquatic Monitoring  
 Fermi 2  
 2008  
 Reactor Site

| <b>Collection Date</b> | <b>Gross Beta (pCi/l)</b> | <b>Tritium (pCi/l)</b> |
|------------------------|---------------------------|------------------------|
| 01/10/08               | 4 ± 1                     | LT 200                 |
| 04/03/08               | 3 ± 2                     | LT 200                 |
| 05/08/08               | 3 ± 1                     | LT 200                 |
| 05/29/08               | 2 ± 1                     | LT 200                 |
| 07/02/08               | 3 ± 1                     | LT 200                 |
| 07/31/08               | 5 ± 1                     | LT 200                 |
| 09/04/08               | 2 ± 1                     | LT 200                 |
| 10/02/08               | 2 ± 1                     | 200 ± 200              |
| 10/30/08               | LT 1                      | 200 ± 200              |
| 11/27/08               | LT 1                      | LT 200                 |

LT – Less Than

Appendix C  
Aquatic Monitoring  
Fermi 2  
2008  
Monroe Intake Site

| <b>Collection Date</b> | <b>Gross Beta (pCi/l)</b> | <b>Tritium (pCi/l)</b> |
|------------------------|---------------------------|------------------------|
| 01/29/08               | 3 ± 1                     | 300 ± 200              |
| 02/27/08               | 3 ± 1                     | LT 200                 |
| 03/26/08               | 2 ± 1                     | LT 200                 |
| 04/30/08               | 2 ± 1                     | LT 200                 |
| 05/28/08               | LT 1                      | LT 200                 |
| 06/25/08               | 2 ± 1                     | LT 200                 |
| 07/30/08               | 2 ± 1                     | LT 200                 |
| 08/27/08               | 2 ± 1                     | LT 200                 |
| 09/23/08               | 2 ± 1                     | LT 200                 |
| 10/29/08               | 2 ± 1                     | 200 ± 200              |
| 12/30/08               | 2 ± 1                     | 200 ± 200              |

LT – Less Than

Appendix C  
Aquatic Monitoring  
Fermi 2  
2008  
Trenton Channel Site

| <b>Collection Date</b> | <b>Gross Beta (pCi/l)</b> | <b>Tritium (pCi/l)</b> |
|------------------------|---------------------------|------------------------|
| 01/29/08               | 2 ± 1                     | LT 200                 |
| 02/27/08               | 2 ± 2                     | LT 200                 |
| 03/26/08               | 3 ± 1                     | LT 200                 |
| 04/30/08               | LT 1                      | LT 200                 |
| 05/28/08               | 2 ± 1                     | LT 200                 |
| 06/25/08               | 2 ± 1                     | LT 200                 |
| 07/30/08               | 3 ± 1                     | LT 200                 |
| 08/27/08               | 2 ± 1                     | LT 200                 |
| 09/23/08               | 2 ± 1                     | LT 200                 |
| 10/29/08               | LT 1                      | LT 200                 |
| 11/26/08               | 2 ± 1                     | LT 200                 |
| 12/30/08               | 2 ± 1                     | LT 200                 |

LT – Less Than



Appendix C  
Aquatic Monitoring  
Fermi 2  
2008  
Allen Park Intake Site

| <b>Collection Date</b> | <b>Gross Beta (pCi/l)</b> | <b>Tritium (pCi/l)</b> |
|------------------------|---------------------------|------------------------|
| 01/29/08               | 2 ± 1                     | LT 200                 |
| 02/27/08               | 2 ± 1                     | LT 200                 |
| 03/26/08               | LT 1                      | LT 200                 |
| 04/30/08               | 2 ± 1                     | LT 200                 |
| 05/28/08               | 2 ± 1                     | LT 200                 |
| 06/25/08               | 2 ± 1                     | LT 200                 |
| 07/30/08               | 2 ± 1                     | LT 200                 |
| 08/27/08               | 2 ± 1                     | LT 200                 |
| 09/23/08               | LT 1                      | LT 200                 |
| 10/29/08               | LT 1                      | LT 200                 |
| 11/26/08               | 2 ± 1                     | LT 200                 |
| 12/30/08               | 5 ± 2                     | LT 200                 |

LT – Less Than

Appendix C  
 Aquatic Monitoring  
 Fermi 2  
 2008  
 Fermi 2 Intake Site

| <b>Collection Date</b> | <b>Gross Beta (pCi/l)</b> | <b>Tritium (pCi/l)</b> |
|------------------------|---------------------------|------------------------|
| 01/29/08               | 2 ± 1                     | LT 200                 |
| 02/27/08               | 2 ± 1                     | LT 200                 |
| 03/26/08               | 1 ± 1                     | 200 ± 200              |
| 04/30/08               | 3 ± 2                     | LT 200                 |
| 05/28/08               | 2 ± 1                     | LT 200                 |
| 06/25/08               | 2 ± 1                     | LT 200                 |
| 07/30/08               | 3 ± 1                     | LT 200                 |
| 08/27/08               | 2 ± 1                     | LT 200                 |
| 09/23/08               | 3 ± 1                     | LT 200                 |
| 10/29/08               | 1 ± 1                     | 200 ± 200              |
| 11/26/08               | LT 1                      | LT 200                 |
| 12/30/08               | LT 1                      | LT 200                 |

LT – Less Than

Appendix C  
 Aquatic Monitoring  
 Palisades  
 2009  
 Reactor Site

| <b>Collection Date</b> | <b>Gross Beta (pCi/l)</b> | <b>Tritium (pCi/l)</b> |
|------------------------|---------------------------|------------------------|
| 01/28/09               | 2 ± 1                     | LT 200                 |
| 02/26/09               | 2 ± 1                     | LT 200                 |
| 03/21/09               | 2 ± 1                     | 300 ± 200              |
| 04/13/09               | LT 1                      | LT 200                 |
| 05/13/09               | 2 ± 1                     | LT 200                 |
| 06/23/09               | 2 ± 1                     | LT 200                 |
| 07/20/09               | 2 ± 1                     | 24000 ± 300            |
| 07/20/09 (repeat)      |                           | 23000 ± 300            |
| 08/12/09               | LT 1                      | LT 200                 |

LT – Less Than

Appendix C

Aquatic Monitoring  
D. C. Cook Unit 1  
2009  
Reactor Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|-----------------|--------------------|-----------------|
| 03/03/09        | 2 ± 1              | LT 200          |
| 05/01/09        | ~~~~~              | ~~~~~           |
| 09/21/09        | LT 1               | LT 200          |
| 11/20/09        | 2 ± 1              | LT 100          |
| 12/31/09        | 2 ± 1              | LT 200          |

LT – Less Than  
~~~~ – No Sample

Appendix C

Aquatic Monitoring
D. C. Cook Unit 2
2009
Reactor Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|------------------------|---------------------------|------------------------|
| 03/03/09 | 3 ± 1 | LT 200 |
| 05/01/09 | LT 1 | LT 200 |
| 09/21/09 | 2 ± 1 | LT 200 |
| 11/20/09 | 2 ± 1 | LT 200 |
| 12/31/09 | 2 ± 1 | LT 200 |

LT – Less Than

Appendix C
Aquatic Monitoring
Fermi 2
2009
Reactor Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|------------------------|---------------------------|------------------------|
| 02/26/09 | 5 ± 2 | LT 200 |
| 04/02/09 | 2 ± 1 | 200 ± 200 |
| 04/30/09 | 2 ± 1 | LT 200 |
| 05/28/09 | 2 ± 1 | LT 200 |
| 07/02/09 | 3 ± 1 | 200 ± 200 |
| 07/30/09 | LT 1 | LT 200 |
| 09/10/09 | 2 ± 1 | LT 200 |
| 10/01/09 | LT 1 | LT 200 |
| 11/05/09 | 3 ± 1 | LT 200 |
| 12/03/09 | 4 ± 1 | LT 200 |

LT – Less Than

Appendix C
 Aquatic Monitoring
 Fermi 2
 2009
 Monroe Intake Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|------------------------|---------------------------|------------------------|
| 01/29/09 | 2 ± 1 | LT 200 |
| 02/25/09 | 3 ± 1 | LT 200 |
| 03/31/09 | 2 ± 1 | LT 200 |
| 04/29/09 | 2 ± 1 | LT 200 |
| 05/27/09 | 1 ± 1 | 200 ± 200 |
| 06/24/09 | 2 ± 1 | LT 200 |
| 07/29/09 | 2 ± 1 | LT 200 |
| 08/26/09 | 2 ± 1 | LT 200 |
| 09/30/09 | 2 ± 1 | LT 200 |
| 10/28/09 | 2 ± 1 | LT 200 |
| 11/25/09 | 3 ± 1 | LT 200 |
| 12/29/09 | 3 ± 1 | LT 200 |

LT – Less Than

Appendix C
Aquatic Monitoring
Fermi 2
2009
Trenton Channel Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|------------------------|---------------------------|------------------------|
| 01/29/09 | 2 ± 1 | LT 200 |
| 02/25/09 | 3 ± 1 | LT 200 |
| 03/31/09 | 2 ± 1 | LT 200 |
| 04/29/09 | 1 ± 1 | LT 200 |
| 05/27/09 | 2 ± 1 | LT 200 |
| 06/24/09 | LT 1 | LT 200 |
| 07/29/09 | 2 ± 1 | LT 200 |
| 08/26/09 | 2 ± 1 | LT 200 |
| 09/30/09 | LT 1 | LT 200 |
| 10/28/09 | 2 ± 1 | LT 200 |
| 11/25/09 | 2 ± 1 | LT 200 |
| 12/29/09 | 2 ± 1 | LT 200 |

LT – Less Than

Appendix C
 Aquatic Monitoring
 Fermi 2
 2009
 Allen Park Intake Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|------------------------|---------------------------|------------------------|
| 01/29/09 | 2 ± 1 | 200 ± 200 |
| 02/25/09 | 2 ± 1 | LT 200 |
| 03/31/09 | 2 ± 1 | LT 200 |
| 04/29/09 | 2 ± 1 | LT 200 |
| 05/27/09 | 2 ± 1 | LT 200 |
| 06/24/09 | 1 ± 1 | LT 200 |
| 07/29/09 | LT 1 | LT 200 |
| 08/26/09 | 2 ± 1 | LT 200 |
| 09/30/09 | 1 ± 1 | LT 200 |
| 10/28/09 | 2 ± 1 | LT 200 |
| 11/25/09 | 1 ± 1 | LT 100 |
| 12/29/09 | LT 1 | LT 100 |

LT – Less Than

Appendix C
 Aquatic Monitoring
 Fermi 2
 2009
 Fermi 2 Intake Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|-----------------|--------------------|-----------------|
| 01/29/09 | 2 ± 1 | LT 100 |
| 02/25/09 | 3 ± 1 | LT 100 |
| 03/31/09 | 2 ± 1 | LT 100 |
| 04/29/09 | LT 3 | 200 ± 100 |
| 05/27/09 | 2 ± 1 | LT 100 |
| 06/24/09 | LT 1 | LT 100 |
| 07/29/09 | 2 ± 2 | LT 100 |
| 08/26/09 | 2 ± 1 | LT 100 |
| 09/30/09 | 1 ± 1 | LT 100 |
| 10/28/09 | ~~~~ | ~~~~ |
| 11/25/09 | 3 ± 1 | LT 100 |
| 12/29/09 | 3 ± 1 | LT 100 |

LT – Less Than
 ~~~~ – No Sample

Appendix C

Aquatic Monitoring  
Palisades  
2010  
Reactor Site

| <b>Collection Date</b> | <b>Gross Beta (pCi/l)</b> | <b>Tritium (pCi/l)</b> |
|------------------------|---------------------------|------------------------|
| NO SAMPLES             | RECEIVED                  | IN 2010                |

LT – Less Than

Appendix C

Aquatic Monitoring  
D. C. Cook Unit 1  
2010  
Reactor Site

| <b>Collection Date</b> | <b>Gross Beta (pCi/l)</b> | <b>Tritium (pCi/l)</b> |
|------------------------|---------------------------|------------------------|
| 01/28/10               | 2 ± 1                     | LT 100                 |
| 02/25/10               | 2 ± 1                     | LT 100                 |
| 03/12/10               | 3 ± 1                     | LT 100                 |
| 04/21/10               | 2 ± 1                     | LT 100                 |
| 05/10/10               | 2 ± 1                     | LT 100                 |
| 06/14/10               | 2 ± 1                     | LT 100                 |
| 07/15/10               | 2 ± 1                     | LT 100                 |

LT – Less Than

## Appendix C

Aquatic Monitoring  
D. C. Cook Unit 2  
2010  
Reactor Site

| <b>Collection Date</b> | <b>Gross Beta (pCi/l)</b> | <b>Tritium (pCi/l)</b> |
|------------------------|---------------------------|------------------------|
| 01/28/10               | 2 ± 1                     | 400 ± 200              |
| 02/25/10               | 2 ± 1                     | LT 100                 |
| 03/12/10               | 2 ± 1                     | LT 100                 |
| 04/21/10               | 3 ± 1                     | LT 100                 |
| 05/10/10               | 2 ± 1                     | LT 100                 |
| 06/14/10               | 1 ± 1                     | LT 100                 |
| 07/15/10               | 2 ± 1                     | LT 100                 |
| 01/28/10               | 2 ± 1                     | 400 ± 200              |

LT – Less Than

Appendix C  
Aquatic Monitoring  
Fermi 2  
2010  
Reactor Site

| <b>Collection Date</b> | <b>Gross Beta (pCi/l)</b> | <b>Tritium (pCi/l)</b> |
|------------------------|---------------------------|------------------------|
| 03/25/10               | 3 ± 1                     | LT 100                 |
| 04/29/10               | 3 ± 1                     | LT 100                 |
| 06/03/10               | 3 ± 1                     | LT 100                 |
| 07/01/10               | 3 ± 1                     | LT 100                 |
| 08/05/10               | 2 ± 1                     | LT 100                 |
| 09/02/10               | 1 ± 1                     | LT 100                 |
| 10/07/10               | 2 ± 1                     | 200 ± 100              |
| 11/04/10               | 2 ± 1                     | 300 ± 100              |
| 12/02/10               | 1 ± 1                     | LT 100                 |

LT – Less Than

Appendix C  
 Aquatic Monitoring  
 Fermi 2  
 2010  
 Monroe Intake Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|-----------------|--------------------|-----------------|
| 01/27/10        | LT 1               | LT 100          |
| 02/24/10        | 2 ± 1              | LT 100          |
| 03/30/10        | 3 ± 1              | LT 100          |
| 04/27/10        | 1 ± 1              | LT 100          |
| 06/01/10        | 2 ± 1              | LT 100          |
| 06/29/10        | 2 ± 1              | LT 100          |
| 07/27/10        | 3 ± 1              | LT 100          |
| 08/31/10        | LT 1               | LT 100          |
| 09/28/10        | 1 ± 1              | LT 100          |
| 10/26/10        | 3 ± 1              | LT 100          |
| 11/30/10        | 2 ± 1              | 200 ± 100       |
| 12/28/10        | 2 ± 1              | LT 100          |

LT – Less Than

Appendix C  
 Aquatic Monitoring  
 Fermi 2  
 2010  
 Trenton Channel Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|-----------------|--------------------|-----------------|
| 01/27/10        | 3 ± 1              | LT 100          |
| 02/24/10        | LT 1               | LT 100          |
| 03/30/10        | 2 ± 1              | LT 100          |
| 04/27/10        | 2 ± 1              | 200 ± 100       |
| 06/01/10        | LT 1               | LT 100          |
| 06/29/10        | 2 ± 1              | LT 100          |
| 07/27/10        | 3 ± 1              | LT 100          |
| 08/31/10        | 1 ± 1              | LT 100          |
| 09/28/10        | 1 ± 1              | LT 100          |
| 10/26/10        | 3 ± 1              | 200 ± 100       |
| 11/30/10        | 2 ± 1              | 200 ± 100       |
| 12/28/10        | 2 ± 1              | LT 100          |

LT – Less Than



Appendix C  
 Aquatic Monitoring  
 Fermi 2  
 2010  
 Allen Park Intake Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|-----------------|--------------------|-----------------|
| 01/27/10        | ~~~~               | ~~~~            |
| 02/24/10        | 2 ± 1              | LT 100          |
| 03/30/10        | 3 ± 1              | LT 100          |
| 04/27/10        | 2 ± 1              | LT 100          |
| 06/01/10        | 3 ± 1              | LT 100          |
| 06/29/10        | 2 ± 1              | LT 100          |
| 07/27/10        | 2 ± 1              | LT 100          |
| 08/31/10        | LT 1               | 200 ± 100       |
| 09/28/10        | 2 ± 1              | 200 ± 100       |
| 10/26/10        | 2 ± 1              | LT 100          |
| 11/30/10        | LT 1               | 200 ± 100       |
| 12/28/10        | 2 ± 1              | LT 100          |

LT – Less Than  
 ~~~~ – No Sample

Appendix C
 Aquatic Monitoring
 Fermi 2
 2010
 Fermi 2 Intake Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|-----------------|--------------------|-----------------|
| 01/27/10 | 3 ± 1 | LT 100 |
| 02/24/10 | 2 ± 1 | LT 100 |
| 03/30/10 | 3 ± 1 | LT 100 |
| 04/27/10 | 3 ± 1 | LT 100 |
| 06/01/10 | 3 ± 1 | LT 100 |
| 06/29/10 | 2 ± 1 | LT 100 |
| 07/27/10 | 2 ± 1 | LT 100 |
| 08/31/10 | 2 ± 1 | LT 100 |
| 09/28/10 | 2 ± 1 | 200 ± 100 |
| 10/26/10 | 2 ± 1 | LT 100 |
| 11/30/10 | 2 ± 1 | LT 100 |
| 12/28/10 | LT 1 | LT 100 |

LT – Less Than

Appendix C
Aquatic Monitoring
Palisades
2011
Reactor Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|------------------------|---------------------------|------------------------|
| NO SAMPLES | RECEIVED | IN 2011 |

LT – Less Than

Appendix C

Aquatic Monitoring
D. C. Cook Unit 1
2011
Reactor Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|------------------------|---------------------------|------------------------|
| 01/12/11 | 1 ± 1 | LT 100 |
| 02/15/11 | 1 ± 1 | LT 100 |
| 03/17/11 | 3 ± 1 | LT 100 |
| 04/13/11 | 2 ± 1 | LT 100 |
| 05/20/11 | 2 ± 1 | LT 100 |
| 06/23/11 | 1 ± 1 | LT 100 |
| 07/19/11 | LT 1 | 200 ± 100 |
| 08/01/11 | 1 ± 1 | 200 ± 100 |
| 09/12/11 | 2 ± 1 | LT 100 |
| 10/12/11 | LT 1 | LT 100 |
| 11/15/11 | 2 ± 1 | LT 100 |
| 12/07/11 | LT 1 | LT 100 |

LT – Less Than

Appendix C

Aquatic Monitoring
D. C. Cook Unit 2
2011
Reactor Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|-----------------|--------------------|-----------------|
| 01/12/11 | 2 ± 1 | LT 100 |
| 02/15/11 | 3 ± 1 | LT 100 |
| 03/17/11 | 2 ± 1 | LT 100 |
| 04/13/11 | 2 ± 1 | LT 100 |
| 05/20/11 | 3 ± 1 | LT 100 |
| 06/23/11 | 2 ± 1 | LT 100 |
| 07/19/11 | LT 1 | LT 100 |
| 08/01/11 | LT 1 | LT 100 |
| 09/12/11 | 2 ± 1 | LT 100 |
| 10/12/11 | 2 ± 1 | LT 100 |
| 11/15/11 | LT 1 | LT 100 |
| 12/07/11 | 2 ± 1 | LT 100 |

LT – Less Than

Appendix C
Aquatic Monitoring
Fermi 2
2011
Reactor Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|------------------------|---------------------------|------------------------|
| 03/17/11 | 2 ± 1 | LT 100 |
| 04/07/11 | 3 ± 1 | LT 100 |
| 05/05/11 | 4 ± 1 | LT 100 |
| 06/02/11 | 2 ± 1 | LT 100 |
| 07/07/11 | 3 ± 1 | 200 ± 100 |
| 08/01/11 | 2 ± 1 | LT 100 |
| 09/08/11 | 2 ± 1 | LT 100 |
| 10/06/11 | 3 ± 1 | LT 100 |
| 11/10/11 | 4 ± 1 | LT 100 |
| 12/01/11 | 3 ± 1 | LT 100 |

LT – Less Than

Appendix C
 Aquatic Monitoring
 Fermi 2
 2011
 Monroe Intake Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|-----------------|--------------------|-----------------|
| 01/25/11 | 2 ± 1 | 200 ± 100 |
| 02/22/11 | 2 ± 1 | 200 ± 100 |
| 03/30/11 | 2 ± 1 | LT 100 |
| 04/26/11 | 1 ± 1 | 200 ± 100 |
| 05/31/11 | 3 ± 1 | LT 100 |
| 06/28/11 | 2 ± 1 | LT 100 |
| 07/25/11 | LT 1 | LT 100 |
| 08/30/11 | 2 ± 1 | LT 100 |
| 09/27/11 | 2 ± 1 | LT 100 |
| 10/25/11 | 2 ± 1 | LT 100 |
| 11/29/11 | 3 ± 1 | LT 100 |
| 12/27/11 | 3 ± 1 | LT 100 |

LT – Less Than

Appendix C
 Aquatic Monitoring
 Fermi 2
 2011
 Trenton Channel Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|-----------------|--------------------|-----------------|
| 01/25/11 | 3 ± 1 | LT 100 |
| 02/22/11 | 2 ± 1 | LT 100 |
| 03/30/11 | 3 ± 1 | LT 100 |
| 04/26/11 | 2 ± 1 | 200 ± 100 |
| 05/31/11 | 1 ± 1 | LT 100 |
| 06/28/11 | 2 ± 1 | LT 100 |
| 07/25/11 | 1 ± 1 | LT 100 |
| 08/30/11 | 1 ± 1 | LT 100 |
| 09/27/11 | 3 ± 1 | LT 100 |
| 10/25/11 | LT 1 | LT 100 |
| 11/29/11 | 1 ± 1 | LT 100 |
| 12/27/11 | 2 ± 1 | LT 100 |

LT – Less Than

Appendix C
Aquatic Monitoring
Fermi 2
2011
Allen Park Intake Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|------------------------|---------------------------|------------------------|
| 01/25/11 | LT 1 | 200 ± 100 |
| 02/22/11 | 2 ± 1 | LT 100 |
| 03/30/11 | 2 ± 1 | LT 100 |
| 04/26/11 | 2 ± 1 | LT 100 |
| 05/31/11 | LT 1 | LT 100 |
| 06/28/11 | 2 ± 1 | LT 100 |
| 07/25/11 | LT 1 | LT 100 |
| 08/30/11 | LT 1 | LT 100 |
| 09/27/11 | 1 ± 1 | LT 100 |
| 10/25/11 | 1 ± 1 | LT 100 |
| 11/29/11 | LT 1 | LT 100 |
| 12/27/11 | 3 ± 1 | LT 100 |

LT – Less Than

Appendix C
 Aquatic Monitoring
 Fermi 2
 2011
 Fermi 2 Intake Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|-----------------|--------------------|-----------------|
| 01/25/11 | 2 ± 1 | LT 100 |
| 02/22/11 | 2 ± 1 | LT 100 |
| 03/30/11 | 3 ± 1 | 200 ± 100 |
| 04/26/11 | 3 ± 2 | LT 100 |
| 05/31/11 | 1 ± 1 | LT 200 |
| 06/28/11 | 4 ± 2 | LT 100 |
| 07/25/11 | LT 1 | LT 100 |
| 08/30/11 | 2 ± 1 | LT 100 |
| 09/27/11 | 2 ± 1 | LT 100 |
| 10/25/11 | 2 ± 1 | LT 100 |
| 11/29/11 | 2 ± 1 | LT 100 |
| 12/27/11 | 4 ± 1 | LT 100 |

LT – Less Than

Appendix C
Aquatic Monitoring
Lansing
2011
Reference Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|------------------------|---------------------------|------------------------|
| 11/14/2011 | LT 3 | LT 100 |
| 11/28/2011 | LT 3 | LT 100 |
| 12/12/2011 | LT 3 | LT 100 |
| 12/27/2011 | 4 ± 3 | LT 100 |

LT – Less Than

Appendix C

Aquatic Monitoring
Palisades
2012
Reactor Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|------------------------|---------------------------|------------------------|
| 03/27/12 | 1 ± 1 | 300 ± 200 |
| 04/11/12 | 2 ± 1 | LT 100 |
| 05/15/12 | 2 ± 1 | LT 100 |

LT – Less Than

Appendix C

Aquatic Monitoring
D. C. Cook Unit 1
2012
Reactor Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|------------------------|---------------------------|------------------------|
| 01/10/12 | LT 3 | LT 100 |
| 02/13/12 | 2 ± 1 | LT 100 |
| 03/08/12 | 1 ± 1 | 300 ± 100 |
| 04/10/12 | 1 ± 1 | 200 ± 100 |
| 06/11/12 | 2 ± 1 | LT 100 |
| 07/05/12 | LT 1 | LT 100 |
| 08/06/12 | LT 1 | LT 100 |
| 09/05/12 | 2 ± 1 | LT 100 |
| 10/08/12 | 3 ± 1 | LT 100 |
| 11/01/12 | 2 ± 1 | LT 100 |
| 12/04/12 | 1 ± 1 | LT 100 |

LT – Less Than

Appendix C

Aquatic Monitoring
D. C. Cook Unit 2
2012
Reactor Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|------------------------|---------------------------|------------------------|
| 01/10/12 | 3 ± 1 | LT 100 |
| 02/13/12 | 2 ± 1 | LT 100 |
| 03/08/12 | LT 1 | 200 ± 100 |
| 04/10/12 | 2 ± 1 | LT 100 |
| 06/11/12 | 2 ± 1 | LT 100 |
| 07/05/12 | LT 1 | 200 ± 100 |
| 08/06/12 | 2 ± 1 | LT 100 |
| 09/05/12 | 2 ± 1 | LT 100 |
| 10/08/12 | 2 ± 1 | LT 100 |
| 11/01/12 | 1 ± 1 | LT 100 |
| 12/04/12 | 2 ± 1 | LT 100 |

LT – Less Than

Appendix C

Aquatic Monitoring
Fermi 2
2012
Reactor Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|------------------------|---------------------------|------------------------|
| 01/05/12 | 4 ± 1 | LT 100 |
| 03/01/12 | 2 ± 1 | LT 100 |
| 04/05/12 | LT 1 | LT 100 |
| 05/04/12 | 2 ± 1 | 200 ± 100 |
| 05/31/12 | 2 ± 1 | LT 100 |
| 07/05/12 | LT 1 | 400 ± 100 |
| 08/02/12 | 2 ± 1 | LT 100 |
| 09/06/12 | LT 1 | LT 100 |
| 10/11/12 | 2 ± 1 | LT 100 |
| 11/08/12 | 1 ± 1 | 200 ± 100 |
| 12/06/12 | LT 1 | LT 100 |

LT – Less Than

Appendix C
 Aquatic Monitoring
 Fermi 2
 2012
 Monroe Intake Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|-----------------|--------------------|-----------------|
| 01/31/12 | 3 ± 1 | LT 100 |
| 02/28/12 | 3 ± 1 | LT 100 |
| 03/27/12 | 2 ± 1 | LT 100 |
| 04/25/12 | LT 1 | LT 100 |
| 05/29/12 | 1 ± 1 | 200 ± 100 |
| 06/26/12 | 2 ± 1 | 300 ± 100 |
| 07/31/12 | LT 1 | 400 ± 100 |
| 08/28/12 | LT 1 | LT 100 |
| 09/25/12 | 2 ± 1 | LT 100 |
| 10/30/12 | LT 1 | LT 100 |
| 11/27/12 | 2 ± 1 | LT 100 |
| 12/26/12 | LT 1 | LT 100 |

LT – Less Than

Appendix C
 Aquatic Monitoring
 Fermi 2
 2012
 Trenton Channel Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|-----------------|--------------------|-----------------|
| 01/31/12 | 3 ± 1 | 200 ± 100 |
| 02/28/12 | 2 ± 1 | LT 100 |
| 03/27/12 | LT 1 | LT 100 |
| 04/25/12 | 3 ± 1 | LT 100 |
| 05/29/12 | 2 ± 1 | LT 100 |
| 06/26/12 | 2 ± 1 | 300 ± 100 |
| 07/31/12 | 2 ± 1 | 200 ± 100 |
| 08/28/12 | 2 ± 1 | LT 100 |
| 09/25/12 | 1 ± 1 | LT 100 |
| 10/30/12 | 2 ± 1 | LT 100 |
| 11/27/12 | 2 ± 1 | LT 100 |
| 12/26/12 | LT 1 | LT 100 |

LT – Less Than

Appendix C
Aquatic Monitoring
Fermi 2
2012
Allen Park Intake Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|------------------------|---------------------------|------------------------|
| 01/31/12 | 2 ± 1 | 200 ± 100 |
| 02/28/12 | 1 ± 1 | LT 100 |
| 03/27/12 | LT 1 | LT 100 |
| 04/25/12 | 2 ± 1 | LT 100 |
| 05/29/12 | 1 ± 1 | LT 100 |
| 06/26/12 | 1 ± 1 | 300 ± 100 |
| 07/31/12 | LT 1 | 200 ± 100 |
| 08/28/12 | LT 1 | LT 100 |
| 09/25/12 | 2 ± 1 | LT 100 |
| 10/30/12 | 2 ± 1 | LT 100 |
| 11/27/12 | 1 ± 1 | LT 100 |
| 12/26/12 | LT 1 | LT 100 |

LT – Less Than

Appendix C
 Aquatic Monitoring
 Fermi 2
 2012
 Fermi 2 Intake Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|-----------------|--------------------|-----------------|
| 01/31/12 | 3 ± 1 | LT 100 |
| 02/28/12 | 2 ± 1 | 200 ± 100 |
| 03/27/12 | 4 ± 1 | LT 100 |
| 04/25/12 | 2 ± 1 | LT 100 |
| 05/29/12 | 2 ± 1 | LT 100 |
| 06/26/12 | 2 ± 1 | 200 ± 100 |
| 07/31/12 | 2 ± 1 | 200 ± 100 |
| 08/28/12 | LT 1 | LT 100 |
| 09/25/12 | 2 ± 1 | 200 ± 100 |
| 10/30/12 | 2 ± 1 | LT 100 |
| 11/27/12 | 1 ± 1 | LT 100 |
| 12/26/12 | 2 ± 1 | LT 100 |

LT – Less Than

Appendix C
 Aquatic Monitoring
 Lansing
 2012
 Reference Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|-----------------|--------------------|-----------------|
| 01/09/12 | LT 3 | LT 100 |
| 01/23/12 | LT 1 | LT 100 |
| 02/13/12 | LT 3 | LT 100 |
| 02/27/12 | LT 3 | LT 100 |
| 03/12/12 | 5 ± 3 | LT 100 |
| 03/26/12 | LT 3 | LT 100 |
| 04/09/12 | LT 3 | LT 100 |
| 04/23/12 | 3 ± 3 | LT 100 |
| 05/07/12 | LT 3 | LT 100 |
| 05/29/12 | 4 ± 3 | LT 100 |
| 06/11/12 | LT 3 | LT 100 |
| 06/25/12 | LT 3 | 200 ± 100 |
| 07/09/12 | LT 4 | 200 ± 100 |
| 07/30/12 | LT 4 | 200 ± 100 |
| 08/13/12 | 3 ± 3 | LT 100 |
| 08/27/12 | LT 3 | LT 100 |
| 09/10/12 | 4 ± 3 | LT 100 |
| 09/24/12 | LT 3 | LT 100 |
| 10/08/12 | 4 ± 3 | LT 100 |
| 10/22/12 | LT 3 | LT 100 |
| 11/13/12 | 3 ± 3 | LT 100 |
| 12/03/12 | LT 3 | LT 100 |
| 12/17/12 | LT 3 | LT 100 |

LT – Less Than

Appendix C
Aquatic Monitoring
Palisades
2013
Reactor Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|------------------------|---------------------------|------------------------|
| 01/16/13 | LT 1 | LT 100 |
| 02/07/13 | 4 ± 1 | LT 100 |
| 03/15/13 | 2 ± 1 | LT 100 |
| 04/11/13 | 3 ± 1 | LT 100 |
| 05/11/13 | 3 ± 1 | LT 100 |
| 06/28/13 | 2 ± 1 | LT 100 |
| 07/31/13 | LT 1 | LT 100 |
| 09/30/13 | LT 1 | LT 100 |
| 10/31/13 | 2 ± 1 | LT 100 |

LT – Less Than

Appendix C

Aquatic Monitoring
D. C. Cook Unit 1
2013
Reactor Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|------------------------|---------------------------|------------------------|
| 01/07/13 | 2 ± 1 | 200 ± 100 |
| 02/06/13 | 2 ± 1 | LT 100 |
| 03/05/13 | 2 ± 1 | LT 100 |
| 04/03/13 | 2 ± 1 | LT 100 |
| 05/08/13 | 1 ± 1 | LT 100 |
| 06/10/13 | 1 ± 1 | LT 100 |
| 07/03/13 | 2 ± 1 | LT 100 |
| 08/05/13 | LT 1 | LT 100 |
| 09/04/13 | LT 1 | 300 ± 100 |
| 10/06/13 | LT 1 | LT 100 |
| 11/12/13 | LT 1 | LT 100 |
| 12/04/13 | LT 1 | LT 100 |

LT – Less Than

Appendix C

Aquatic Monitoring
D. C. Cook Unit 2
2013
Reactor Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|-----------------|--------------------|-----------------|
| 01/07/13 | LT 1 | 200 ± 100 |
| 02/06/13 | 2 ± 1 | LT 100 |
| 03/05/13 | 2 ± 1 | LT 100 |
| 04/03/13 | 3 ± 1 | LT 100 |
| 05/08/13 | 2 ± 1 | LT 100 |
| 06/10/13 | 2 ± 1 | LT 100 |
| 07/03/13 | LT 1 | 200 ± 100 |
| 08/05/13 | LT 1 | LT 100 |
| 09/04/13 | LT 1 | 12462 ± 200 |
| 10/06/13 | LT 1 | LT 100 |
| 11/12/13 | 3 ± 1 | LT 100 |
| 12/04/13 | LT 1 | LT 100 |

LT – Less Than

Appendix C
 Aquatic Monitoring
 Fermi 2
 2013
 Reactor Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|-----------------|--------------------|-----------------|
| 03/14/13 | 2 ± 1 | LT 100 |
| 04/18/13 | LT 3 | 100 ± 100 |
| 05/02/13 | 5 ± 2 | LT 100 |
| 06/06/13 | 3 ± 1 | LT 100 |
| 07/04/13 | 4 ± 1 | LT 100 |
| 08/01/13 | LT 4 | LT 100 |
| 08/27/13 | LT 3 | LT 100 |
| 10/10/13 | LT 4 | LT 100 |
| 11/07/13 | 3 ± 1 | LT 100 |
| 12/05/13 | 2 ± 1 | LT 100 |

LT – Less Than

Appendix C
 Aquatic Monitoring
 Fermi 2
 2013
 Monroe Intake Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|-----------------|--------------------|-----------------|
| 01/28/13 | 2 ± 1 | LT 100 |
| 02/25/13 | 2 ± 1 | LT 100 |
| 03/26/13 | 3 ± 1 | LT 100 |
| 04/30/13 | 2 ± 1 | 200 ± 100 |
| 06/24/13 | 4 ± 3 | 100 ± 100 |
| 07/30/13 | 2 ± 1 | LT 100 |
| 08/27/13 | LT 1 | LT 100 |
| 09/24/13 | LT 1 | LT 100 |
| 10/29/13 | LT 1 | LT 100 |
| 11/26/13 | 3 ± 1 | LT 100 |
| 12/30/13 | LT 1 | LT 100 |

LT – Less Than

Appendix C
 Aquatic Monitoring
 Fermi 2
 2013
 Trenton Channel Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|-----------------|--------------------|-----------------|
| 01/28/13 | 2 ± 1 | LT 100 |
| 02/25/13 | 2 ± 1 | LT 100 |
| 03/26/13 | 3 ± 1 | LT 100 |
| 04/30/13 | 2 ± 1 | LT 100 |
| 06/24/13 | LT 3 | LT 100 |
| 07/30/13 | 1 ± 1 | 100 ± 100 |
| 08/27/13 | LT 1 | LT 100 |
| 09/24/13 | 2 ± 1 | LT 100 |
| 10/29/13 | LT 1 | LT 100 |
| 11/26/13 | 2 ± 1 | LT 100 |
| 12/30/13 | 1 ± 1 | LT 200 |

LT – Less Than

Appendix C
 Aquatic Monitoring
 Fermi 2
 2013
 Allen Park Intake Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|------------------------|---------------------------|------------------------|
| 01/28/13 | 1 ± 1 | 200 ± 100 |
| 02/25/13 | LT 1 | LT 100 |
| 03/26/13 | 1 ± 1 | LT 100 |
| 04/30/13 | 2 ± 1 | LT 100 |
| 06/24/13 | 1 ± 1 | LT 100 |
| 07/30/13 | 1 ± 1 | LT 100 |
| 08/27/13 | LT 1 | LT 100 |
| 09/24/13 | LT 1 | LT 100 |
| 10/29/13 | LT 1 | LT 100 |
| 11/26/13 | 3 ± 1 | LT 100 |
| 12/30/13 | LT 1 | LT 100 |

LT – Less Than

Appendix C

Aquatic Monitoring
Fermi 2
2013
Fermi 2 Intake Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|------------------------|---------------------------|------------------------|
| 01/28/13 | 1 ± 1 | 200 ± 100 |
| 02/25/13 | LT 1 | LT 100 |
| 03/26/13 | 3 ± 1 | 200 ± 100 |
| 04/30/13 | 2 ± 1 | LT 100 |
| 06/24/13 | 3 ± 1 | LT 100 |
| 07/30/13 | 3 ± 1 | LT 100 |
| 08/27/13 | LT 1 | LT 100 |
| 09/24/13 | LT 1 | LT 100 |
| 10/29/13 | 2 ± 1 | LT 100 |
| 11/26/13 | 2 ± 1 | 200 ± 100 |
| 12/30/13 | 2 ± 1 | LT 100 |

LT – Less Than

Appendix C
 Aquatic Monitoring
 Lansing
 2013
 Reference Site

| Collection Date | Gross Beta (pCi/l) | Tritium (pCi/l) |
|-----------------|--------------------|-----------------|
| 01/14/12 | 2 ± 1 | LT 100 |
| 01/28/12 | 1 ± 1 | LT 100 |
| 02/11/12 | 2 ± 1 | LT 100 |
| 02/25/12 | LT 3 | LT 100 |
| 03/11/12 | 4 ± 1 | 200 ± 100 |
| 03/25/12 | LT 1 | LT 100 |
| 04/08/12 | 4 ± 1 | 200 ± 100 |
| 04/22/12 | 2 ± 1 | LT 100 |
| 05/13/12 | LT 3 | LT 100 |
| 05/28/12 | 4 ± 2 | LT 100 |
| 06/10/12 | 2 ± 1 | LT 100 |
| 06/24/12 | LT 3 | LT 100 |
| 07/08/12 | LT 3 | LT 100 |
| 07/22/12 | LT 3 | LT 100 |
| 08/12/12 | LT 4 | LT 100 |
| 08/26/12 | LT 4 | LT 100 |
| 09/09/12 | LT 4 | LT 100 |
| 09/23/12 | LT 4 | LT 100 |
| 10/14/12 | LT 4 | LT 100 |
| 10/28/12 | LT 4 | LT 100 |
| 11/12/12 | LT 4 | LT 100 |
| 11/25/12 | LT 3 | LT 100 |
| 12/10/12 | LT 4 | LT 100 |
| 12/23/12 | 3 ± 2 | LT 100 |

LT – Less Than

Appendix D

Direct Radiation Monitoring
2008
Big Rock Point Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| ISFSI-NW | 9.8 ± 0.6 | 15.0 ± 0.7 | 11.0 ± 0.6 | 14.8 ± 0.8 |
| ISFSI-NE | 11.7 ± 0.6 | 12.3 ± 0.6 | 11.8 ± 0.6 | 12.3 ± 0.7 |
| ISFSI-SW | 13.4 ± 0.6 | 15.2 ± 0.7 | 14.8 ± 0.7 | 16.0 ± 0.8 |
| ISFSI-SE | 14.2 ± 0.7 | 15.8 ± 0.7 | 15.5 ± 0.7 | 17.2 ± 0.8 |

Appendix D

Direct Radiation Monitoring 2008 Palisades Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DP-RS | 14.0 ± 0.7 | 15.3 ± 0.7 | 15.4 ± 0.7 | 17.3 ± 0.9 |
| DP-01 | 16.2 ± 0.8 | DM | 15.5 ± 0.7 | 18.4 ± 0.9 |
| DP-02 | 13.6 ± 0.7 | 15.7 ± 0.7 | 15.5 ± 0.7 | 15.5 ± 0.8 |
| DP-03 | 14.0 ± 0.7 | 13.7 ± 0.7 | 14.5 ± 0.7 | 15.7 ± 0.8 |
| DP-04 | 13.7 ± 0.7 | 13.7 ± 0.7 | 14.1 ± 0.7 | 14.5 ± 0.8 |
| DP-05 | 13.1 ± 0.7 | 11.6 ± 0.7 | 17.8 ± 0.8 | DM |
| DP-06 | 12.6 ± 0.7 | 12.5 ± 0.7 | 13.7 ± 0.7 | 17.6 ± 0.9 |
| DP-07 | 12.2 ± 0.7 | 11.5 ± 0.7 | 13.1 ± 0.7 | 16.7 ± 0.9 |
| DP-08 | 14.3 ± 0.8 | 14.0 ± 0.7 | 15.0 ± 0.7 | 16.9 ± 0.9 |
| DP-09 | 12.3 ± 0.7 | 11.8 ± 0.7 | 14.5 ± 0.7 | 15.4 ± 0.8 |
| DP-10 | 13.0 ± 0.7 | 11.1 ± 0.6 | 14.0 ± 0.7 | 15.6 ± 0.8 |
| DP-11 | 15.5 ± 0.8 | 16.3 ± 0.8 | 16.6 ± 0.8 | 18.2 ± 0.9 |
| DP-12 | 14.9 ± 0.8 | 14.1 ± 0.7 | 16.2 ± 0.7 | 15.8 ± 0.8 |
| DP-13 | 13.5 ± 0.7 | 15.3 ± 0.7 | 15.2 ± 0.7 | 16.5 ± 0.8 |
| DP-14 | 15.2 ± 0.8 | 15.0 ± 0.7 | 16.3 ± 0.7 | 16.7 ± 0.9 |

DM – Dosimeter Missing

Appendix D

Direct Radiation Monitoring
2008
D. C. Cook Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DC-RS | 14.4 ± 0.8 | 16.2 ± 0.8 | 15.3 ± 0.7 | 14.8 ± 0.9 |
| DC-01 | 11.2 ± 0.7 | 12.9 ± 0.7 | 13.3 ± 0.7 | 14.5 ± 0.9 |
| DC-02 | 13.8 ± 0.8 | 13.4 ± 0.7 | 15.0 ± 0.7 | 14.2 ± 0.8 |
| DC-03 | 11.6 ± 0.8 | 13.1 ± 0.7 | 14.7 ± 0.7 | 13.8 ± 0.8 |
| DC-04 | 14.5 ± 0.8 | 16.1 ± 0.8 | 15.5 ± 0.8 | 16.4 ± 0.9 |
| DC-05 | 12.9 ± 0.8 | 13.0 ± 0.7 | 14.2 ± 0.7 | 13.1 ± 0.8 |
| DC-06 | 12.5 ± 0.8 | 15.0 ± 0.8 | 14.6 ± 0.7 | 23 ± 1 |
| DC-07 | 13.6 ± 0.8 | 13.7 ± 0.7 | 15.4 ± 0.7 | 15.0 ± 0.9 |
| DC-08 | 11.5 ± 0.7 | 13.9 ± 0.7 | 12.7 ± 0.7 | 14.5 ± 0.9 |
| DC-09 | 17.2 ± 0.9 | 14.5 ± 0.7 | 19.6 ± 0.9 | 15.9 ± 0.9 |
| DC-10 | 16.8 ± 0.9 | 15.7 ± 0.8 | 19.4 ± 0.9 | 16.8 ± 0.9 |
| DC-11 | 13.9 ± 0.8 | 13.7 ± 0.7 | 16.2 ± 0.8 | 14.7 ± 0.9 |
| DC-12 | 11.5 ± 0.7 | 12.7 ± 0.7 | 13.3 ± 0.8 | 22 ± 1 |
| DC-13 | 11.7 ± 0.8 | 18.4 ± 0.8 | 13.6 ± 0.7 | 19 ± 1 |
| DC-14 | 13.3 ± 0.8 | 13.9 ± 0.7 | 15.2 ± 0.7 | 15.0 ± 0.9 |

Appendix D

Direct Radiation Monitoring 2008 Fermi 2 Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DF-RS | 18.7 ± 0.9 | 17.4 ± 0.8 | 18.3 ± 0.8 | 19.6 ± 0.9 |
| DF-01 | 15.8 ± 0.7 | 14.9 ± 0.8 | 15.7 ± 0.7 | 16.6 ± 0.8 |
| DF-02 | 15.6 ± 0.7 | 15.2 ± 0.8 | 14.5 ± 0.7 | 15.6 ± 0.8 |
| DF-03 | 19.0 ± 0.8 | 13.0 ± 0.7 | 17.1 ± 0.8 | 14.5 ± 0.8 |
| DF-04 | 17.8 ± 0.8 | 15.2 ± 0.8 | 16.3 ± 0.7 | 15.7 ± 0.8 |
| DF-05 | DM | 15.1 ± 0.8 | 17.2 ± 0.8 | 16.7 ± 0.8 |
| DF-06 | 19.1 ± 0.8 | 17.7 ± 0.8 | 18.8 ± 0.8 | 18.8 ± 0.9 |
| DF-07 | 18.9 ± 0.8 | 15.9 ± 0.8 | 18.1 ± 0.8 | 18.2 ± 0.9 |
| DF-08 | 16.8 ± 0.8 | 16.7 ± 0.8 | 17.5 ± 0.8 | 17.1 ± 0.8 |
| DF-09 | 19.3 ± 0.9 | 18.8 ± 0.8 | 20.1 ± 0.8 | 18.9 ± 0.9 |
| DF-10 | 16.0 ± 0.8 | 15.4 ± 0.7 | 15.7 ± 0.7 | 15.5 ± 0.8 |
| DF-11 | 13.4 ± 0.7 | 13.1 ± 0.7 | 14.0 ± 0.7 | 13.4 ± 0.7 |
| DF-12 | 17.0 ± 0.8 | 18.4 ± 0.8 | 16.7 ± 0.7 | 18.2 ± 0.9 |
| DF-13 | 17.0 ± 0.8 | 15.5 ± 0.8 | 15.8 ± 0.7 | 17.6 ± 0.9 |
| DF-14 | 18.9 ± 0.9 | 18.7 ± 0.8 | 19.2 ± 0.8 | 18.4 ± 0.9 |
| DF-15 | 17.1 ± 0.8 | 16.2 ± 0.8 | 16.1 ± 0.7 | 17.2 ± 0.9 |

DM – Dosimeter Missing

Appendix D

Direct Radiation Monitoring
2008
Lansing Background Reference

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DL-1 | 17.6 ± 0.5 | 18.0 ± 0.5 | 17.6 ± 0.5 | 17.3 ± 0.5 |
| DL-1 | 17.6 ± 0.5 | 18.5 ± 0.6 | 18.6 ± 0.6 | 17.3 ± 0.5 |
| DL-1 | 17.6 ± 0.5 | 18.5 ± 0.6 | 18.2 ± 0.5 | 16.8 ± 0.5 |

Appendix D

Direct Radiation Monitoring
2009
Big Rock Point Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| ISFSI-NW | 9.5 ± 0.4 | 13.6 ± 0.6 | 10.6 ± 0.6 | 14.9 ± 0.7 |
| ISFSI-NE | 10.3 ± 0.4 | 11.5 ± 0.6 | 10.9 ± 0.6 | 13.5 ± 0.6 |
| ISFSI-SW | 13.5 ± 0.5 | 14.9 ± 0.6 | 15.0 ± 0.7 | 15.5 ± 0.7 |
| ISFSI-SE | 18.9 ± 0.6 | 16.0 ± 0.7 | 14.7 ± 0.7 | 16.9 ± 0.7 |

Appendix D

Direct Radiation Monitoring 2009 Palisades Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DP-RS | 15.8 ± 0.5 | 16.5 ± 0.7 | 15.9 ± 0.7 | 15.1 ± 0.8 |
| DP-01 | 16.0 ± 0.5 | 15.5 ± 0.7 | 16.2 ± 0.7 | 14.9 ± 0.8 |
| DP-02 | 14.9 ± 0.5 | 13.6 ± 0.6 | 15.2 ± 0.7 | 13.1 ± 0.7 |
| DP-03 | 13.9 ± 0.5 | 14.9 ± 0.7 | 13.9 ± 0.6 | 13.4 ± 0.7 |
| DP-04 | 13.8 ± 0.5 | 14.1 ± 0.6 | 14.3 ± 0.6 | 13.2 ± 0.7 |
| DP-05 | 17.2 ± 0.6 | 15.6 ± 0.7 | 15.4 ± 0.7 | 12.6 ± 0.7 |
| DP-06 | 13.2 ± 0.5 | 13.4 ± 0.6 | 13.0 ± 0.6 | 11.4 ± 0.7 |
| DP-07 | 16.4 ± 0.5 | 12.9 ± 0.6 | 14.1 ± 0.6 | DM |
| DP-08 | 15.8 ± 0.5 | 15.6 ± 0.7 | 15.4 ± 0.7 | 12.8 ± 0.7 |
| DP-09 | 14.6 ± 0.5 | 14.2 ± 0.6 | 14.1 ± 0.6 | 13.9 ± 0.7 |
| DP-10 | 14.4 ± 0.5 | 12.1 ± 0.6 | 14.3 ± 0.6 | 11.0 ± 0.7 |
| DP-11 | 17.4 ± 0.6 | 17.4 ± 0.7 | 17.2 ± 0.7 | 15.5 ± 0.8 |
| DP-12 | 15.9 ± 0.5 | 15.2 ± 0.7 | 17.8 ± 0.7 | 13.4 ± 0.7 |
| DP-13 | 14.2 ± 0.5 | 15.6 ± 0.7 | 15.0 ± 0.7 | 14.9 ± 0.8 |
| DP-14 | 16.2 ± 0.5 | 16.1 ± 0.7 | 18.2 ± 0.8 | 14.3 ± 0.8 |

DM – Dosimeter Missing

Appendix D

Direct Radiation Monitoring
2009
D. C. Cook Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DC-RS | 17.2 ± 0.6 | 15.5 ± 0.7 | 16.8 ± 0.7 | 14.6 ± 0.8 |
| DC-01 | 14.1 ± 0.5 | 13.7 ± 0.7 | 13.5 ± 0.6 | 13.2 ± 0.7 |
| DC-02 | 15.6 ± 0.5 | 13.4 ± 0.7 | 15.3 ± 0.7 | 12.8 ± 0.7 |
| DC-03 | 14.6 ± 0.5 | 13.6 ± 0.7 | 14.3 ± 0.7 | 12.8 ± 0.7 |
| DC-04 | 16.5 ± 0.6 | 15.8 ± 0.7 | 16.7 ± 0.7 | 15.6 ± 0.8 |
| DC-05 | 14.7 ± 0.5 | 12.5 ± 0.7 | 14.6 ± 0.7 | 13.2 ± 0.8 |
| DC-06 | 15.4 ± 0.5 | 15.0 ± 0.7 | 14.8 ± 0.7 | 14.5 ± 0.8 |
| DC-07 | 15.9 ± 0.6 | 14.8 ± 0.7 | 15.9 ± 0.7 | 13.8 ± 0.8 |
| DC-08 | 14.1 ± 0.5 | 13.5 ± 0.7 | 13.0 ± 0.6 | 13.7 ± 0.8 |
| DC-09 | 18.9 ± 0.6 | 14.6 ± 0.7 | 19.4 ± 0.8 | 13.5 ± 0.8 |
| DC-10 | 18.8 ± 0.6 | 15.7 ± 0.7 | 20.0 ± 0.8 | 15.4 ± 0.8 |
| DC-11 | 16.0 ± 0.6 | 15.0 ± 0.7 | 16.3 ± 0.7 | 17.0 ± 0.9 |
| DC-12 | 14.6 ± 0.5 | 12.6 ± 0.7 | 13.4 ± 0.6 | 12.2 ± 0.7 |
| DC-13 | 14.2 ± 0.5 | 17.1 ± 0.8 | 14.0 ± 0.7 | 17.9 ± 0.9 |
| DC-14 | 16.1 ± 0.6 | 14.4 ± 0.7 | 15.7 ± 0.7 | 14.5 ± 0.8 |

Appendix D

Direct Radiation Monitoring 2009 Fermi 2 Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DF-RS | 21.0 ± 0.7 | 15.3 ± 0.7 | 21.4 ± 0.8 | 17.7 ± 0.9 |
| DF-01 | 16.3 ± 0.6 | 15.1 ± 0.7 | 17.8 ± 0.7 | 15.6 ± 0.8 |
| DF-02 | 14.3 ± 0.5 | 15.0 ± 0.7 | 16.5 ± 0.7 | 14.8 ± 0.8 |
| DF-03 | 16.6 ± 0.6 | 14.1 ± 0.7 | 18.4 ± 0.7 | 13.8 ± 0.8 |
| DF-04 | 16.2 ± 0.6 | 15.8 ± 0.7 | 18.2 ± 0.7 | 15.0 ± 0.8 |
| DF-05 | 16.6 ± 0.6 | 16.5 ± 0.8 | 18.5 ± 0.7 | 15.8 ± 0.8 |
| DF-06 | 17.2 ± 0.6 | 16.8 ± 0.8 | 21.1 ± 0.8 | 17.8 ± 0.9 |
| DF-07 | 16.7 ± 0.6 | 17.4 ± 0.8 | 20.6 ± 0.8 | 17.2 ± 0.9 |
| DF-08 | 16.3 ± 0.6 | 17.4 ± 0.8 | 18.7 ± 0.7 | 16.3 ± 0.8 |
| DF-09 | 18.8 ± 0.7 | 17.9 ± 0.8 | 22.0 ± 0.8 | 18.0 ± 0.9 |
| DF-10 | 15.7 ± 0.6 | 15.6 ± 0.7 | 17.2 ± 0.7 | 14.9 ± 0.8 |
| DF-11 | 13.7 ± 0.5 | 13.4 ± 0.7 | 16.0 ± 0.7 | 13.0 ± 0.7 |
| DF-12 | 15.3 ± 0.6 | 18.2 ± 0.8 | 19.5 ± 0.8 | 17.4 ± 0.9 |
| DF-13 | 15.7 ± 0.6 | 17.3 ± 0.8 | 17.7 ± 0.7 | 16.8 ± 0.9 |
| DF-14 | 27.0 ± 0.9 | DM | 22.2 ± 0.8 | 18.2 ± 0.9 |
| DF-15 | 17.2 ± 0.6 | 16.5 ± 0.8 | 17.2 ± 0.7 | 16.5 ± 0.9 |

DM – Dosimeter Missing

Appendix D

Direct Radiation Monitoring
2009
Lansing Background Reference

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third and Fourth Quarters
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---|
| DL-1 | 18.0 ± 0.5 | 18.4 ± 0.6 | 19.0 ± 0.6 |
| DL-1 | 18.5 ± 0.6 | 18.5 ± 0.6 | 18.3 ± 0.5 |
| DL-1 | 17.8 ± 0.5 | 18.6 ± 0.6 | 18.1 ± 0.5 |

Appendix D

Direct Radiation Monitoring
2010
Big Rock Point Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| ISFSI-NW | 5.5 ± 0.9 | 13.1 ± 0.5 | 10.8 ± 0.6 | 14.4 ± 0.9 |
| ISFSI-NE | 5.8 ± 0.9 | 11.9 ± 0.5 | 10.8 ± 0.6 | 12.7 ± 0.8 |
| ISFSI-SW | 8 ± 1 | 15.5 ± 0.6 | 14.9 ± 0.7 | 17.3 ± 0.9 |
| ISFSI-SE | 9 ± 1 | 16.3 ± 0.6 | 15.5 ± 0.7 | 17.3 ± 0.9 |

Appendix D

Direct Radiation Monitoring 2010 Palisades Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DP-RS | 16 ± 1 | 16.2 ± 0.6 | 15.3 ± 0.7 | 16.2 ± 0.9 |
| DP-01 | 15.1 ± 0.9 | 13.5 ± 0.6 | 15.5 ± 0.7 | 14.4 ± 0.9 |
| DP-02 | 13.9 ± 0.9 | 13.7 ± 0.6 | 14.4 ± 0.7 | 14.5 ± 0.9 |
| DP-03 | 13.7 ± 0.9 | 17.4 ± 0.6 | 13.8 ± 0.7 | 15.5 ± 0.9 |
| DP-04 | 15.1 ± 0.9 | 13.7 ± 0.6 | 14.4 ± 0.7 | 13.3 ± 0.9 |
| DP-05 | 18 ± 1 | 13.9 ± 0.6 | 17.2 ± 0.8 | 14.1 ± 0.9 |
| DP-06 | 12.8 ± 0.9 | 12.0 ± 0.5 | 12.4 ± 0.6 | 13.4 ± 0.9 |
| DP-07 | 17 ± 1 | 11.8 ± 0.5 | 13.5 ± 0.7 | 13.1 ± 0.9 |
| DP-08 | 13.0 ± 0.9 | 13.7 ± 0.6 | 14.0 ± 0.7 | 38 ± 2 |
| DP-09 | 15.2 ± 0.9 | 15.0 ± 0.6 | 15.1 ± 0.7 | 14.9 ± 0.9 |
| DP-10 | 14.5 ± 0.9 | 12.4 ± 0.5 | 14.0 ± 0.7 | 14.4 ± 0.9 |
| DP-11 | 16 ± 1 | 17.5 ± 0.7 | 17.0 ± 0.8 | 18 ± 1 |
| DP-12 | 14.9 ± 0.9 | 15.0 ± 0.6 | 15.7 ± 0.7 | 14.9 ± 0.9 |
| DP-13 | 13.7 ± 0.9 | 15.1 ± 0.6 | 14.4 ± 0.7 | 15.9 ± 0.9 |
| DP-14 | 16 ± 1 | 15.8 ± 0.6 | 16.9 ± 0.7 | 16.4 ± 0.9 |

Appendix D

Direct Radiation Monitoring 2010 D. C. Cook Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DC-RS | 16 ± 1 | 15.6 ± 0.7 | 15.5 ± 0.7 | 14 ± 1 |
| DC-01 | 12 ± 1 | 12.8 ± 0.6 | 12.5 ± 0.7 | 13.1 ± 0.9 |
| DC-02 | 14 ± 1 | 13.0 ± 0.6 | 15.4 ± 0.7 | 13.0 ± 0.9 |
| DC-03 | 13 ± 1 | 12.9 ± 0.6 | 13.1 ± 0.7 | 12.7 ± 0.9 |
| DC-04 | 15 ± 1 | 16.3 ± 0.7 | 16.1 ± 0.8 | 16 ± 1 |
| DC-05 | 13 ± 1 | 12.5 ± 0.6 | 14.1 ± 0.7 | 12.0 ± 0.9 |
| DC-06 | 13 ± 1 | 16.1 ± 0.7 | 14.0 ± 0.7 | 17 ± 1 |
| DC-07 | 14 ± 1 | 13.7 ± 0.6 | 15.2 ± 0.7 | 13.2 ± 0.9 |
| DC-08 | 21 ± 1 | 14.0 ± 0.6 | 13.3 ± 0.7 | 14 ± 1 |
| DC-09 | 18 ± 1 | 14.9 ± 0.6 | 19.5 ± 0.9 | 13.6 ± 0.9 |
| DC-10 | 16 ± 1 | 15.6 ± 0.7 | 19.4 ± 0.9 | 15 ± 1 |
| DC-11 | 14 ± 1 | 15.2 ± 0.6 | 15.4 ± 0.7 | 13.1 ± 0.9 |
| DC-12 | 12 ± 1 | 12.1 ± 0.6 | 13.7 ± 0.7 | 12.3 ± 0.9 |
| DC-13 | 12 ± 1 | 18.2 ± 0.7 | 13.7 ± 0.7 | 18 ± 1 |
| DC-14 | 14 ± 1 | 14.5 ± 0.6 | 14.3 ± 0.7 | 13.1 ± 0.9 |

Appendix D

Direct Radiation Monitoring 2010 Fermi 2 Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DF-RS | 19 ± 1 | 16.5 ± 0.7 | 22.4 ± 0.9 | 16 ± 1 |
| DF-01 | 17 ± 1 | 15.1 ± 0.7 | 17.9 ± 0.8 | 16 ± 1 |
| DF-02 | 15 ± 1 | 14.6 ± 0.7 | 16.9 ± 0.7 | DM |
| DF-03 | 17 ± 1 | 12.7 ± 0.7 | 18.8 ± 0.8 | 15.4 ± 0.9 |
| DF-04 | 17 ± 1 | 15.0 ± 0.7 | 18.1 ± 0.8 | 15.8 ± 0.9 |
| DF-05 | 17 ± 1 | 16.7 ± 0.7 | 18.8 ± 0.8 | 17 ± 1 |
| DF-06 | 19 ± 1 | 16.7 ± 0.7 | 21.4 ± 0.9 | 20 ± 1 |
| DF-07 | 18 ± 1 | 16.8 ± 0.7 | 20.9 ± 0.8 | 18 ± 1 |
| DF-08 | 17 ± 1 | 15.1 ± 0.7 | 19.0 ± 0.8 | 17 ± 1 |
| DF-09 | 21 ± 1 | 14.8 ± 0.7 | 22.9 ± 0.9 | 19 ± 1 |
| DF-10 | 16 ± 1 | 14.5 ± 0.7 | 18.3 ± 0.8 | 16.0 ± 0.9 |
| DF-11 | 14.2 ± 0.9 | 13.4 ± 0.7 | 15.4 ± 0.7 | 13.7 ± 0.9 |
| DF-12 | 18 ± 1 | 18.3 ± 0.8 | 19.9 ± 0.8 | 19 ± 1 |
| DF-13 | 16 ± 1 | 18.1 ± 0.8 | 18.4 ± 0.8 | 18 ± 1 |
| DF-14 | 19 ± 1 | 19.8 ± 0.8 | 21.7 ± 0.9 | 20 ± 1 |
| DF-15 | 15 ± 1 | 16.7 ± 0.7 | 17.2 ± 0.7 | 16 ± 1 |

DM – Dosimeter Missing

Appendix D

Direct Radiation Monitoring
2010
Lansing Background Reference

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DL-1 | DL-01 | 17.3 ± 0.5 | 19.1 ± 0.6 | 18.7 ± 0.6 |
| DL-1 | DL-01 | 17.9 ± 0.5 | 19.7 ± 0.6 | 19.6 ± 0.6 |
| DL-1 | DL-01 | 17.2 ± 0.5 | 17.9 ± 0.5 | 19.0 ± 0.6 |

Appendix D

Direct Radiation Monitoring
2011
Big Rock Point Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| ISFSI-NW | 9.7 ± 0.7 | 12.6 ± 0.6 | 11.6 ± 0.6 | 13.9 ± 0.8 |
| ISFSI-NE | 10.7 ± 0.8 | 11.8 ± 0.6 | 12.5 ± 0.6 | 13.0 ± 0.7 |
| ISFSI-SW | 13.1 ± 0.8 | 14.4 ± 0.7 | 15.2 ± 0.7 | 15.6 ± 0.8 |
| ISFSI-SE | 14.4 ± 0.8 | 15.4 ± 0.7 | 16.7 ± 0.7 | 17.0 ± 0.8 |

Appendix D

Direct Radiation Monitoring 2011 Palisades Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DP-RS | 15.8 ± 0.9 | 17.0 ± 0.8 | 15.9 ± 0.8 | 16.3 ± 0.9 |
| DP-01 | 21 ± 1 | 14.2 ± 0.7 | 15.8 ± 0.8 | 14.2 ± 0.8 |
| DP-02 | 14.0 ± 0.9 | 15.0 ± 0.7 | 14.6 ± 0.7 | 14.6 ± 0.8 |
| DP-03 | 13.6 ± 0.9 | 14.1 ± 0.7 | 13.5 ± 0.7 | 14.9 ± 0.8 |
| DP-04 | 13.7 ± 0.9 | 13.5 ± 0.7 | 15.0 ± 0.7 | 15.1 ± 0.9 |
| DP-05 | 13.9 ± 0.9 | 13.7 ± 0.7 | 14.7 ± 0.7 | 13.8 ± 0.8 |
| DP-06 | 12.5 ± 0.9 | 12.7 ± 0.7 | 13.8 ± 0.7 | DM |
| DP-07 | 14.1 ± 0.9 | 13.0 ± 0.7 | 15.0 ± 0.7 | 12.7 ± 0.8 |
| DP-08 | 13.9 ± 0.9 | 14.9 ± 0.7 | 14.9 ± 0.7 | 16.2 ± 0.9 |
| DP-09 | 13.6 ± 0.9 | 14.3 ± 0.7 | 15.1 ± 0.7 | 13.4 ± 0.8 |
| DP-10 | 13.7 ± 0.9 | 12.5 ± 0.7 | 14.4 ± 0.7 | 13.6 ± 0.8 |
| DP-11 | 16 ± 1 | 16.2 ± 0.8 | 18.5 ± 0.8 | 17.5 ± 0.9 |
| DP-12 | 15.3 ± 0.9 | 13.9 ± 0.7 | 16.2 ± 0.8 | 15.3 ± 0.9 |
| DP-13 | 13.8 ± 0.9 | 15.8 ± 0.7 | 14.4 ± 0.7 | 15.8 ± 0.9 |
| DP-14 | 18 ± 1 | 15.7 ± 0.7 | 17.5 ± 0.8 | 16.2 ± 0.9 |

DM – Dosimeter Missing

Appendix D

Direct Radiation Monitoring
2011
D. C. Cook Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DC-RS | 15 ± 1 | 15.5 ± 0.8 | 16.1 ± 0.8 | 16.5 ± 0.9 |
| DC-01 | 11.9 ± 0.9 | 11.8 ± 0.8 | 13.2 ± 0.7 | 14.4 ± 0.9 |
| DC-02 | 14 ± 1 | 10.8 ± 0.7 | 15.8 ± 0.8 | 14.5 ± 0.9 |
| DC-03 | 13.5 ± 0.9 | 11.4 ± 0.8 | 13.6 ± 0.7 | 14.1 ± 0.9 |
| DC-04 | 15 ± 1 | 14.6 ± 0.8 | 16.2 ± 0.8 | 17 ± 1 |
| DC-05 | 13.3 ± 0.9 | 10.6 ± 0.7 | 13.9 ± 0.8 | 14.1 ± 0.9 |
| DC-06 | 12.9 ± 0.9 | 13.4 ± 0.8 | 14.5 ± 0.8 | 18 ± 1 |
| DC-07 | 14 ± 1 | 12.1 ± 0.8 | 15.5 ± 0.8 | 15.2 ± 0.9 |
| DC-08 | 12.3 ± 0.9 | 13.0 ± 0.8 | 12.8 ± 0.7 | 15.5 ± 0.9 |
| DC-09 | 18 ± 1 | 12.4 ± 0.8 | 20.3 ± 0.9 | 15.6 ± 0.9 |
| DC-10 | 18 ± 1 | 13.1 ± 0.8 | 18.8 ± 0.9 | 16.8 ± 0.9 |
| DC-11 | 14 ± 1 | 12.5 ± 0.8 | 15.8 ± 0.8 | 15.2 ± 0.9 |
| DC-12 | 11.1 ± 0.9 | 10.6 ± 0.7 | 12.9 ± 0.7 | 13.5 ± 0.8 |
| DC-13 | 17 ± 1 | 18.2 ± 0.9 | 14.1 ± 0.8 | 20 ± 1 |
| DC-14 | 13.7 ± 0.9 | 13.3 ± 0.8 | 14.9 ± 0.8 | 16.2 ± 0.9 |

Appendix D

Direct Radiation Monitoring 2011 Fermi 2 Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DF-RS | 18 ± 1 | 16.0 ± 0.8 | 18.5 ± 0.8 | 16.5 ± 0.9 |
| DF-01 | 16.1 ± 0.9 | 15.3 ± 0.8 | 17.8 ± 0.8 | 17.0 ± 0.9 |
| DF-02 | 15.3 ± 0.9 | 15.1 ± 0.7 | 16.7 ± 0.8 | 16.9 ± 0.9 |
| DF-03 | 18 ± 1 | 14.3 ± 0.7 | 18.0 ± 0.8 | 15.3 ± 0.8 |
| DF-04 | 17 ± 1 | 15.1 ± 0.8 | 17.8 ± 0.8 | 17.0 ± 0.9 |
| DF-05 | 16.2 ± 0.9 | 16.1 ± 0.8 | 18.6 ± 0.8 | 17.9 ± 0.9 |
| DF-06 | 18 ± 1 | 17.6 ± 0.8 | 20.8 ± 0.9 | 18.7 ± 0.9 |
| DF-07 | 19 ± 1 | 17.6 ± 0.8 | 19.7 ± 0.8 | 18.1 ± 0.9 |
| DF-08 | 18 ± 1 | 16.1 ± 0.8 | 18.9 ± 0.8 | 17.7 ± 0.9 |
| DF-09 | 21 ± 1 | 17.6 ± 0.8 | 22.1 ± 0.9 | 18.6 ± 0.9 |
| DF-10 | 15.9 ± 0.9 | 14.2 ± 0.7 | 17.7 ± 0.8 | 16.1 ± 0.9 |
| DF-11 | 13.8 ± 0.9 | 13.4 ± 0.7 | 14.8 ± 0.7 | 14.1 ± 0.8 |
| DF-12 | 17 ± 1 | 18.3 ± 0.8 | 18.4 ± 0.8 | 19 ± 1 |
| DF-13 | 17 ± 1 | 17.8 ± 0.8 | 17.7 ± 0.8 | 17.8 ± 0.9 |
| DF-14 | 19 ± 1 | 17.5 ± 0.8 | 21.0 ± 0.9 | 18.7 ± 0.9 |
| DF-15 | 14.6 ± 0.9 | 14.8 ± 0.7 | 16.4 ± 0.8 | 16.3 ± 0.9 |

Appendix D

Direct Radiation Monitoring
2011
Lansing Background Reference

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DL-01 | 19.7 ± 0.6 | 19.6 ± 0.6 | 19.2 ± 0.6 | 20.5 ± 0.6 |
| DL-01 | 19.5 ± 0.6 | 19.9 ± 0.6 | 20.2 ± 0.6 | 20.5 ± 0.6 |
| DL-01 | 20.0 ± 0.6 | 19.9 ± 0.6 | 20.5 ± 0.6 | 20.6 ± 0.6 |

Appendix D

Direct Radiation Monitoring
2012
Big Rock Point Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| ISFSI-NW | 9.9 ± 0.6 | 12.5 ± 0.7 | 10.5 ± 0.5 | 13.2 ± 0.6 |
| ISFSI-NE | 10.4 ± 0.6 | 11.5 ± 0.6 | 11.0 ± 0.5 | 12.7 ± 0.6 |
| ISFSI-SW | 13.3 ± 0.7 | 14.4 ± 0.7 | 13.9 ± 0.6 | 15.7 ± 0.7 |
| ISFSI-SE | 14.8 ± 0.7 | 15.9 ± 0.7 | 14.9 ± 0.6 | 16.9 ± 0.7 |

Appendix D

Direct Radiation Monitoring 2012 Palisades Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DP-RS | 14.8 ± 0.7 | 16.1 ± 0.8 | 18 ± 1 | 16.2 ± 0.7 |
| DP-01 | 15.7 ± 0.8 | 14.5 ± 0.7 | 19 ± 1 | 15.7 ± 0.7 |
| DP-02 | 14.4 ± 0.7 | 13.9 ± 0.7 | 27 ± 2 | 23.6 ± 0.9 |
| DP-03 | 14.2 ± 0.7 | 14.2 ± 0.7 | 16 ± 1 | 15.3 ± 0.7 |
| DP-04 | 14.6 ± 0.7 | 14.8 ± 0.8 | 17 ± 1 | 15.7 ± 0.7 |
| DP-05 | 14.8 ± 0.7 | 14.6 ± 0.7 | 16 ± 1 | 20.7 ± 0.8 |
| DP-06 | 12.6 ± 0.7 | 15.0 ± 0.8 | 15 ± 1 | 16.0 ± 0.7 |
| DP-07 | 13.4 ± 0.7 | 12.8 ± 0.7 | 17 ± 1 | 12.5 ± 0.6 |
| DP-08 | 15.1 ± 0.7 | 15.2 ± 0.8 | 17 ± 1 | 17.2 ± 0.7 |
| DP-09 | 14.2 ± 0.7 | 13.9 ± 0.7 | 17 ± 1 | 14.4 ± 0.7 |
| DP-10 | 14.2 ± 0.7 | 13.2 ± 0.7 | 16 ± 1 | 14.8 ± 0.7 |
| DP-11 | 18.6 ± 0.8 | 17.7 ± 0.8 | 21 ± 1 | 19.0 ± 0.8 |
| DP-12 | 15.7 ± 0.8 | 15.0 ± 0.8 | 17 ± 1 | 15.4 ± 0.7 |
| DP-13 | 15.3 ± 0.8 | 15.8 ± 0.8 | 15 ± 1 | 16.3 ± 0.7 |
| DP-14 | 17.5 ± 0.8 | 16.6 ± 0.8 | 19 ± 1 | 17.5 ± 0.7 |

Appendix D

Direct Radiation Monitoring 2012 D. C. Cook Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DC-RS | 16.2 ± 0.8 | 14.1 ± 0.8 | 14 ± 1 | 15.4 ± 0.8 |
| DC-01 | 12.9 ± 0.7 | 13.1 ± 0.8 | 13 ± 1 | 14.3 ± 0.7 |
| DC-02 | 14.0 ± 0.8 | 13.1 ± 0.8 | 14 ± 1 | 13.2 ± 0.7 |
| DC-03 | 13.2 ± 0.7 | 13.3 ± 0.8 | 13 ± 1 | 13.6 ± 0.7 |
| DC-04 | 15.9 ± 0.8 | 16.4 ± 0.9 | 22 ± 2 | 17.5 ± 0.8 |
| DC-05 | 14.1 ± 0.8 | 12.7 ± 0.8 | 15 ± 1 | 13.4 ± 0.7 |
| DC-06 | 13.9 ± 0.8 | 15.2 ± 0.8 | 14 ± 1 | 15.8 ± 0.8 |
| DC-07 | 15.7 ± 0.8 | 13.5 ± 0.8 | 16 ± 1 | 14.9 ± 0.7 |
| DC-08 | 13.2 ± 0.7 | 13.8 ± 0.8 | 13 ± 1 | 13.9 ± 0.7 |
| DC-09 | 18.7 ± 0.9 | 15.5 ± 0.9 | 20 ± 2 | 15.6 ± 0.8 |
| DC-10 | 18.1 ± 0.9 | 15.8 ± 0.9 | 19 ± 1 | 16.6 ± 0.8 |
| DC-11 | 14.7 ± 0.8 | 14.0 ± 0.8 | 15 ± 1 | 15.3 ± 0.8 |
| DC-12 | 12.8 ± 0.7 | 12.1 ± 0.8 | 13 ± 1 | 13.6 ± 0.7 |
| DC-13 | 13.2 ± 0.7 | 28 ± 1 | 12 ± 1 | 19.5 ± 0.9 |
| DC-14 | 14.2 ± 0.8 | 14.7 ± 0.8 | 15 ± 1 | 15.5 ± 0.8 |

Appendix D

Direct Radiation Monitoring 2012 Fermi 2 Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DF-RS | 17.8 ± 0.8 | 16.6 ± 0.8 | 19 ± 1 | 15.8 ± 0.8 |
| DF-01 | 15.5 ± 0.8 | 15.7 ± 0.8 | 18 ± 1 | 15.7 ± 0.8 |
| DF-02 | 15.0 ± 0.8 | 15.7 ± 0.8 | 18 ± 1 | 15.6 ± 0.8 |
| DF-03 | 16.5 ± 0.8 | 14.2 ± 0.8 | 20 ± 1 | 14.5 ± 0.7 |
| DF-04 | 16.0 ± 0.8 | 15.9 ± 0.8 | 20 ± 1 | 15.8 ± 0.8 |
| DF-05 | 16.1 ± 0.8 | 17.0 ± 0.8 | 19 ± 1 | 16.9 ± 0.8 |
| DF-06 | 17.7 ± 0.8 | 18.2 ± 0.9 | 23 ± 1 | 18.3 ± 0.8 |
| DF-07 | 18.0 ± 0.8 | 17.8 ± 0.8 | 22 ± 1 | 19.0 ± 0.8 |
| DF-08 | 17.9 ± 0.8 | 17.0 ± 0.8 | 20 ± 1 | 16.5 ± 0.8 |
| DF-09 | 20.2 ± 0.9 | 19.0 ± 0.9 | 24 ± 1 | 19.0 ± 0.8 |
| DF-10 | 16.3 ± 0.8 | 15.3 ± 0.8 | 18 ± 1 | 15.1 ± 0.7 |
| DF-11 | 13.1 ± 0.7 | 13.4 ± 0.7 | 17 ± 1 | 12.7 ± 0.7 |
| DF-12 | 17.2 ± 0.8 | 19.2 ± 0.9 | 20 ± 1 | 18.9 ± 0.8 |
| DF-13 | 16.2 ± 0.8 | 17.8 ± 0.8 | 18 ± 1 | 17.1 ± 0.8 |
| DF-14 | 19.5 ± 0.9 | 19.4 ± 0.9 | 22 ± 1 | 19.0 ± 0.8 |
| DF-15 | 15.3 ± 0.8 | 16.5 ± 0.8 | 18 ± 1 | 17.0 ± 0.8 |

Appendix D

Direct Radiation Monitoring
2012
Lansing Background Reference

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DL-01 | 19.7 ± 0.6 | 23.1 ± 0.7 | 20.5 ± 0.6 | 19.2 ± 0.6 |
| DL-01 | 21.9 ± 0.7 | 19.8 ± 0.6 | 21.5 ± 0.6 | 20.4 ± 0.6 |
| DL-01 | 20.8 ± 0.6 | 20.8 ± 0.6 | 20.2 ± 0.6 | 20.4 ± 0.6 |

Appendix D

Direct Radiation Monitoring
2013
Big Rock Point Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| ISFSI-NW | 9 ± 1 | 12.4 ± 0.6 | 11.1 ± 0.7 | 12.6 ± 0.7 |
| ISFSI-NE | 10 ± 1 | 11.1 ± 0.6 | 12.0 ± 0.7 | 12.4 ± 0.7 |
| ISFSI-SW | 12 ± 1 | 14.7 ± 0.7 | 14.9 ± 0.8 | 15.0 ± 0.8 |
| ISFSI-SE | 14 ± 1 | 15.4 ± 0.7 | 15.8 ± 0.8 | 16.3 ± 0.8 |

Appendix D

Direct Radiation Monitoring 2013 Palisades Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DP-RS | 14 ± 1 | 15.4 ± 0.7 | 16.6 ± 0.8 | DM |
| DP-01 | 16 ± 1 | 13.4 ± 0.7 | 15.7 ± 0.8 | 14.9 ± 0.9 |
| DP-02 | 15 ± 1 | 13.3 ± 0.7 | 14.3 ± 0.7 | 13.4 ± 0.8 |
| DP-03 | 13 ± 1 | 13.7 ± 0.7 | 14.2 ± 0.7 | 14.1 ± 0.9 |
| DP-04 | 15 ± 1 | 14.0 ± 0.7 | 15.0 ± 0.7 | 13.7 ± 0.8 |
| DP-05 | 14 ± 1 | 14.2 ± 0.7 | 14.6 ± 0.7 | 13.7 ± 0.8 |
| DP-06 | 13 ± 1 | 12.6 ± 0.7 | 13.0 ± 0.7 | 13.9 ± 0.8 |
| DP-07 | 14 ± 1 | 12.1 ± 0.7 | 14.6 ± 0.7 | DM |
| DP-08 | 16 ± 1 | 15.0 ± 0.7 | 15.4 ± 0.7 | DM |
| DP-09 | 14 ± 1 | 13.0 ± 0.7 | 14.6 ± 0.7 | 13.5 ± 0.8 |
| DP-10 | 14 ± 1 | 12.1 ± 0.7 | DM | 13.0 ± 0.8 |
| DP-11 | 17 ± 1 | 16.6 ± 0.8 | 17.4 ± 0.8 | 16.3 ± 0.9 |
| DP-12 | 16 ± 1 | 15.4 ± 0.7 | 16.6 ± 0.8 | 14.6 ± 0.9 |
| DP-13 | 15 ± 1 | 14.9 ± 0.7 | 15.5 ± 0.7 | 15.0 ± 0.9 |
| DP-14 | 17 ± 1 | 16.5 ± 0.8 | 17.7 ± 0.8 | 14.9 ± 0.9 |

DM – Dosimeter Missing

Appendix D

Direct Radiation Monitoring
2013
D. C. Cook Plant

| DEQ Station Number | First Quarter (mR/90 days) | Second Quarter (mR/90 Days) | Third Quarter (mR/90 Days) | Fourth Quarter (mR/90 Days) |
|--------------------|----------------------------|-----------------------------|----------------------------|-----------------------------|
| DC-RS | 15 ± 1 | 14.7 ± 0.8 | 15.3 ± 0.8 | 15.2 ± 0.9 |
| DC-01 | 13 ± 1 | 12.6 ± 0.7 | 13.5 ± 0.7 | 13.8 ± 0.9 |
| DC-02 | 14 ± 1 | 12.8 ± 0.7 | 15.0 ± 0.8 | 14.0 ± 0.9 |
| DC-03 | 14 ± 1 | 12.6 ± 0.7 | 14.3 ± 0.8 | 13.9 ± 0.9 |
| DC-04 | 16 ± 1 | 14.7 ± 0.8 | 17.2 ± 0.8 | 14.1 ± 0.9 |
| DC-05 | 15 ± 1 | 12.0 ± 0.7 | 15.5 ± 0.8 | 14.0 ± 0.9 |
| DC-06 | 14 ± 1 | 16.3 ± 0.8 | 14.6 ± 0.8 | 14.9 ± 0.9 |
| DC-07 | 16 ± 1 | 12.0 ± 0.7 | 15.6 ± 0.8 | 13.8 ± 0.9 |
| DC-08 | 14 ± 1 | 12.5 ± 0.7 | 13.5 ± 0.7 | 14.3 ± 0.9 |
| DC-09 | 19 ± 1 | 13.5 ± 0.7 | 20.3 ± 0.9 | DM |
| DC-10 | 19 ± 1 | 14.4 ± 0.8 | 20.0 ± 0.9 | 16.6 ± 0.9 |
| DC-11 | 15 ± 1 | 12.8 ± 0.7 | 16.1 ± 0.8 | 14.0 ± 0.9 |
| DC-12 | 13 ± 1 | 11.7 ± 0.7 | 13.4 ± 0.7 | 13.0 ± 0.8 |
| DC-13 | 14 ± 1 | 17.9 ± 0.8 | 14.5 ± 0.8 | 18 ± 1 |
| DC-14 | 15 ± 1 | 14.1 ± 0.8 | 15.4 ± 0.8 | 14.4 ± 0.9 |

DM – Dosimeter Missing

Appendix D

Direct Radiation Monitoring
2013
Fermi 2 Plant

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DF-RS | 20 ± 1 | 16.4 ± 0.7 | 13.2 ± 0.9 | 17.9 ± 0.9 |
| DF-01 | 17 ± 1 | 15.7 ± 0.7 | 12.8 ± 0.9 | 16.7 ± 0.8 |
| DF-02 | 16 ± 1 | 15.4 ± 0.7 | 11.7 ± 0.8 | 15.9 ± 0.8 |
| DF-03 | 19 ± 1 | 14.3 ± 0.7 | 12.7 ± 0.8 | 14.8 ± 0.8 |
| DF-04 | 22 ± 1 | 14.6 ± 0.7 | 13.4 ± 0.9 | 15.8 ± 0.8 |
| DF-05 | 19 ± 1 | 16.8 ± 0.8 | 13.1 ± 0.9 | 16.9 ± 0.8 |
| DF-06 | 20 ± 1 | 18.6 ± 0.8 | 14.6 ± 0.9 | 19.5 ± 0.9 |
| DF-07 | 19 ± 1 | 17.4 ± 0.8 | 13.8 ± 0.9 | 18.6 ± 0.9 |
| DF-08 | 18 ± 1 | 17.2 ± 0.8 | 13.1 ± 0.9 | 17.5 ± 0.9 |
| DF-09 | 22 ± 1 | 19.0 ± 0.8 | 15 ± 1 | 19.4 ± 0.9 |
| DF-10 | 18 ± 1 | 16.0 ± 0.7 | 12.9 ± 0.9 | 15.8 ± 0.8 |
| DF-11 | 15 ± 1 | DM | 11.3 ± 0.8 | 19.1 ± 0.9 |
| DF-12 | 19 ± 1 | 19.0 ± 0.8 | 13.2 ± 0.9 | 19.0 ± 0.9 |
| DF-13 | 17 ± 1 | 18.1 ± 0.8 | 12.7 ± 0.8 | 19.3 ± 0.9 |
| DF-14 | 21 ± 1 | 19.1 ± 0.8 | 15.7 ± 1.0 | 19.5 ± 0.9 |
| DF-15 | 17 ± 1 | 17.0 ± 0.8 | 11.9 ± 0.8 | 17.0 ± 0.8 |

DM – Dosimeter Missing

Appendix D

Direct Radiation Monitoring
2013
Lansing Background Reference

| DEQ
Station Number | First Quarter
(mR/90 days) | Second Quarter
(mR/90 Days) | Third Quarter
(mR/90 Days) | Fourth Quarter
(mR/90 Days) |
|-------------------------------|---------------------------------------|--|---------------------------------------|--|
| DL-01 | 20.6 ± 0.6 | 20.5 ± 0.6 | 19.2 ± 0.6 | 18.6 ± 0.6 |
| DL-01 | 20.5 ± 0.6 | 21.5 ± 0.6 | 19.8 ± 0.6 | 18.9 ± 0.6 |
| DL-01 | 20.8 ± 0.6 | 19.9 ± 0.6 | 19.0 ± 0.6 | 18.4 ± 0.6 |