 Environmental, Inc.
Midwest Laboratory
an Allegheny Technologies Co.

700 Landwehr Road • Northbrook, IL 60062-2310
(847) 564-0700 fax (847) 564-4517

FINAL MONTHLY
PROGRESS REPORT

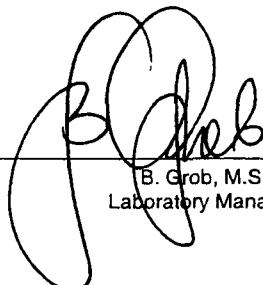
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM (REMP)
FOR THE
DAVIS-BESSE NUCLEAR POWER STATION
OAK HARBOR, OHIO

Reporting Period: January - December, 2006

PREPARED AND SUBMITTED
BY
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Approved



B. Grob, M.S.
Laboratory Manager

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1.0 INTRODUCTION

The following constitutes the final 2006 Monthly Progress Report for the Radiological Environmental Monitoring Program conducted at the Davis-Besse Nuclear Power Station in Oak Harbor, Ohio. Results of completed analyses are presented in the attached tables. Missing entries indicate analyses that are not yet completed.

All activities, except gross alpha and gross beta, are decay corrected to the time of collection.

All samples were collected within the scheduled period unless noted otherwise in the Listing of Missed Samples.

2.0 LISTING OF MISSED SAMPLES

Sample Type	Location	Expected Collection Date	Reason
TLD	T-92	1st Qtr.	TLD lost in the field.
TLD	T-155	3rd Qtr.	TLD lost in the field.
TLD	T-155	Annual '06	TLD lost in the field.
TLD	T-205	Annual '06	TLD lost in the field.

3.0 DATA TABULATIONS

Table 1. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-1

Units: pCi/m³

Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta
<u>Required LLD</u>		<u>0.010</u>			<u>0.010</u>
01-10-06	276	0.018 ± 0.004	07-05-06	320	0.028 ± 0.004
01-17-06	273	0.019 ± 0.004	07-11-06	240	0.021 ± 0.004
01-24-06	276	0.025 ± 0.004	07-18-06	278	0.030 ± 0.004
01-31-06	273	0.027 ± 0.004	07-25-06	279	0.022 ± 0.004
			08-01-06	278	0.031 ± 0.004
02-07-06	276	0.019 ± 0.004			
02-14-06	275	0.020 ± 0.004	08-08-06	281	0.026 ± 0.004
02-21-06	276	0.024 ± 0.004	08-15-06	285	0.022 ± 0.004
02-28-06	279	0.029 ± 0.004	08-22-06	286	0.027 ± 0.004
			08-29-06	288	0.038 ± 0.004
03-07-06	279	0.014 ± 0.003			
03-14-06	279	0.020 ± 0.004	09-05-06	284	0.019 ± 0.004
03-21-06	278	0.024 ± 0.004	09-12-06	286	0.033 ± 0.004
03-28-06	272	0.016 ± 0.003	09-19-06	285	0.023 ± 0.004
			09-26-06	287	0.019 ± 0.004
			10-03-06	286	0.021 ± 0.004
1st Quarter Mean ± s.d.		0.021 ± 0.005	3rd Quarter Mean ± s.d.		0.026 ± 0.006
04-04-06	277	0.018 ± 0.004	10-10-06	286	0.027 ± 0.004
04-11-06	278	0.021 ± 0.004	10-17-06	285	0.021 ± 0.004
04-18-06	279	0.020 ± 0.004	10-24-06	286	0.018 ± 0.004
04-25-06	273	0.012 ± 0.004	10-31-06	286	0.018 ± 0.004
05-02-06	278	0.017 ± 0.004			
			11-07-06	286	0.034 ± 0.004
05-09-06	281	0.020 ± 0.004	11-14-06	286	0.021 ± 0.004
05-16-06	278	0.015 ± 0.003	11-21-06	285	0.024 ± 0.004
05-23-06	279	0.009 ± 0.003	11-28-06	289	0.029 ± 0.004
05-30-06	279	0.020 ± 0.004			
			12-05-06	285	0.029 ± 0.004
06-06-06	278	0.025 ± 0.004	12-12-06	287	0.035 ± 0.004
06-13-06	281	0.017 ± 0.004	12-19-06	279	0.042 ± 0.005
06-20-06	284	0.024 ± 0.004	12-26-06	281	0.027 ± 0.004
06-27-06	278	0.018 ± 0.003	01-02-07	280	0.053 ± 0.005
2nd Quarter Mean ± s.d.		0.018 ± 0.004	4th Quarter Mean ± s.d.		0.029 ± 0.010
				Cumulative Average	0.024
				Previous Annual Average	0.025

^a Iodine-131 concentrations are < 0.07 pCi/m³ unless noted otherwise in Appendix C.

Table 2. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-2

Units: pCi/m³

Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta
<u>Required LLD</u>			<u>0.010</u>		
01-10-06	282	0.019 ± 0.004	07-05-06	322	0.025 ± 0.004
01-17-06	278	0.020 ± 0.004	07-11-06	228	0.023 ± 0.005
01-24-06	282	0.022 ± 0.004	07-18-06	277	0.030 ± 0.004
01-31-06	282	0.027 ± 0.004	07-25-06	275	0.024 ± 0.004
			08-01-06	278	0.030 ± 0.004
02-07-06	283	0.018 ± 0.004			
02-14-06	282	0.017 ± 0.004	08-08-06	280	0.022 ± 0.004
02-21-06	274	0.026 ± 0.004	08-15-06	279	0.023 ± 0.004
02-28-06	275	0.028 ± 0.004	08-22-06	279	0.027 ± 0.004
			08-29-06	281	0.040 ± 0.005
03-07-06	275	0.016 ± 0.003			
03-14-06	275	0.024 ± 0.004	09-05-06	277	0.017 ± 0.004
03-21-06	274	0.023 ± 0.004	09-12-06	279	0.030 ± 0.004
03-28-06	270	0.007 ± 0.003	09-19-06	278	0.028 ± 0.004
			09-26-06	280	0.017 ± 0.004
			10-03-06	279	0.021 ± 0.004
1st Quarter Mean ± s.d.		0.021 ± 0.006	3rd Quarter Mean ± s.d.		
04-04-06	273	0.019 ± 0.004	10-10-06	279	0.021 ± 0.004
04-11-06	274	0.022 ± 0.004	10-17-06	278	0.020 ± 0.004
04-18-06	275	0.023 ± 0.004	10-24-06	279	0.021 ± 0.004
04-25-06	275	0.014 ± 0.004	10-31-06	279	0.018 ± 0.004
05-02-06	291	0.018 ± 0.004			
			11-07-06	279	0.033 ± 0.004
05-09-06	343	0.020 ± 0.003	11-14-06	279	0.018 ± 0.003
05-16-06	273	0.019 ± 0.004	11-21-06	278	0.026 ± 0.004
05-23-06	277	0.008 ± 0.003	11-28-06	279	0.027 ± 0.004
05-30-06	266	0.025 ± 0.004			
			12-05-06	280	0.032 ± 0.004
06-06-06	274	0.022 ± 0.004	12-12-06	282	0.036 ± 0.005
06-13-06	281	0.014 ± 0.003	12-19-06	280	0.042 ± 0.005
06-20-06	273	0.026 ± 0.004	12-26-06	281	0.030 ± 0.004
06-27-06	270	0.020 ± 0.004	01-02-07	280	0.032 ± 0.004
2nd Quarter Mean ± s.d.		0.019 ± 0.005	4th Quarter Mean ± s.d.		
			Cumulative Average		
			0.023		
			Previous Annual Average		
			0.024		

^a Iodine-131 concentrations are < 0.07 pCi/m³ unless noted otherwise in Appendix C.

Table 3. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-3

Units: pCi/m³

Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta
<u>Required LLD</u>		<u>0.010</u>			<u>0.010</u>
01-10-06	286	0.018 ± 0.004	07-05-06	320	0.026 ± 0.004
01-17-06	266	0.021 ± 0.004	07-11-06	240	0.018 ± 0.004
01-24-06	224	0.021 ± 0.004	07-18-06	277	0.029 ± 0.004
01-31-06	278	0.025 ± 0.004	07-25-06	280	0.019 ± 0.004
			08-01-06	285	0.033 ± 0.004
02-07-06	281	0.019 ± 0.004			
02-14-06	280	0.016 ± 0.003	08-08-06	270	0.023 ± 0.004
02-21-06	280	0.027 ± 0.004	08-15-06	279	0.022 ± 0.004
02-28-06	281	0.031 ± 0.004	08-22-06	279	0.028 ± 0.004
			08-29-06	281	0.039 ± 0.005
03-07-06	280	0.018 ± 0.004			
03-14-06	281	0.019 ± 0.004	09-05-06	277	0.019 ± 0.004
03-21-06	280	0.020 ± 0.004	09-12-06	279	0.030 ± 0.004
03-28-06	275	0.010 ± 0.003	09-19-06	278	0.027 ± 0.004
			09-26-06	280	0.020 ± 0.004
			10-03-06	279	0.020 ± 0.004
1st Quarter Mean ± s.d.		0.020 ± 0.005	3rd Quarter Mean ± s.d.		0.025 ± 0.006
04-04-06	279	0.021 ± 0.004	10-10-06	279	0.019 ± 0.004
04-11-06	280	0.021 ± 0.004	10-17-06	278	0.018 ± 0.004
04-18-06	281	0.019 ± 0.004	10-24-06	279	0.017 ± 0.004
04-25-06	281	0.013 ± 0.003	10-31-06	279	0.019 ± 0.004
05-02-06	280	0.018 ± 0.004			
			11-07-06	279	0.032 ± 0.004
05-09-06	283	0.017 ± 0.004	11-14-06	281	0.021 ± 0.004
05-16-06	279	0.015 ± 0.003	11-21-06	280	0.022 ± 0.004
05-23-06	278	0.007 ± 0.003	11-28-06	281	0.029 ± 0.004
05-30-06	281	0.023 ± 0.004			
			12-05-06	280	0.031 ± 0.004
06-06-06	280	0.024 ± 0.004	12-12-06	282	0.038 ± 0.005
06-13-06	276	0.015 ± 0.004	12-19-06	286	0.037 ± 0.004
06-20-06	278	0.020 ± 0.004	12-26-06	287	0.025 ± 0.004
06-27-06	278	0.017 ± 0.003	01-02-07	287	0.027 ± 0.004
2nd Quarter Mean ± s.d.		0.018 ± 0.005	4th Quarter Mean ± s.d.		0.026 ± 0.007
				Cumulative Average	0.022
				Previous Annual Average	0.025

^a Iodine-131 concentrations are < 0.07 pCi/m³ unless noted otherwise in Appendix C.

Table 4. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-4

Units: pCi/m³

Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta
<u>Required LLD</u>			<u>0.010</u>		
01-10-06	284	0.023 ± 0.004	07-05-06	323	0.025 ± 0.004
01-17-06	281	0.020 ± 0.004	07-11-06	243	0.021 ± 0.004
01-24-06	284	0.022 ± 0.004	07-18-06	280	0.027 ± 0.004
01-31-06	284	0.027 ± 0.004	07-25-06	283	0.024 ± 0.004
			08-01-06	281	0.036 ± 0.004
02-07-06	285	0.019 ± 0.004			
02-14-06	284	0.019 ± 0.004	08-08-06	287	0.024 ± 0.004
02-21-06	283	0.031 ± 0.004	08-15-06	281	0.021 ± 0.004
02-28-06	285	0.029 ± 0.004	08-22-06	281	0.027 ± 0.004
			08-29-06	239	0.051 ± 0.006
03-07-06	284	0.018 ± 0.003			
03-14-06	284	0.020 ± 0.004	09-05-06	280	0.015 ± 0.003
03-21-06	283	0.026 ± 0.004	09-12-06	282	0.029 ± 0.004
03-28-06	285	0.009 ± 0.003	09-19-06	281	0.025 ± 0.004
			09-26-06	277	0.021 ± 0.004
			10-03-06	282	0.024 ± 0.004
1st Quarter Mean ± s.d.	0.022 ± 0.006		3rd Quarter Mean ± s.d.	0.026 ± 0.009	
—					
04-04-06	283	0.021 ± 0.004	10-10-06	281	0.024 ± 0.004
04-11-06	283	0.025 ± 0.004	10-17-06	280	0.021 ± 0.004
04-18-06	284	0.018 ± 0.004	10-24-06	282	0.020 ± 0.004
04-25-06	282	0.012 ± 0.003	10-31-06	281	0.017 ± 0.004
05-02-06	283	0.018 ± 0.004			
			11-07-06	282	0.035 ± 0.005
05-09-06	287	0.016 ± 0.004	11-14-06	281	0.021 ± 0.004
05-16-06	282	0.015 ± 0.003	11-21-06	279	0.022 ± 0.004
05-23-06	288	0.009 ± 0.003	11-28-06	281	0.024 ± 0.004
05-30-06	278	0.026 ± 0.004			
			12-05-06	280	0.028 ± 0.004
06-06-06	281	0.022 ± 0.004	12-12-06	282	0.033 ± 0.004
06-13-06	284	0.013 ± 0.003	12-19-06	279	0.043 ± 0.005
06-20-06	281	0.016 ± 0.004	12-26-06	281	0.026 ± 0.004
06-27-06	281	0.023 ± 0.004	01-02-07	280	0.029 ± 0.004
2nd Quarter Mean ± s.d.	0.018 ± 0.005		4th Quarter Mean ± s.d.	0.026 ± 0.007	
			Cumulative Average	0.023	
			Previous Annual Average	0.025	

^a Iodine-131 concentrations are < 0.07 pCi/m³ unless noted otherwise in Appendix C.

Table 5. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-7

Units: pCi/m³

Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta
<u>Required LLD</u>			<u>0.010</u>		
01-10-06	279	0.020 ± 0.004	07-05-06	320	0.024 ± 0.004
01-17-06	282	0.018 ± 0.004	07-11-06	238	0.018 ± 0.004
01-24-06	281	0.022 ± 0.004	07-18-06	282	0.030 ± 0.004
01-31-06	278	0.025 ± 0.004	07-25-06	283	0.022 ± 0.004
			08-01-06	282	0.034 ± 0.004
02-07-06	285	0.018 ± 0.004			
02-14-06	277	0.017 ± 0.004	08-08-06	283	0.023 ± 0.004
02-21-06	280	0.029 ± 0.004	08-15-06	282	0.021 ± 0.004
02-28-06	281	0.029 ± 0.004	08-22-06	282	0.025 ± 0.004
			08-29-06	283	0.042 ± 0.005
03-07-06	281	0.015 ± 0.003			
03-14-06	279	0.019 ± 0.004	09-05-06	282	0.017 ± 0.004
03-21-06	280	0.024 ± 0.004	09-12-06	282	0.033 ± 0.004
03-28-06	281	0.011 ± 0.003	09-19-06	282	0.024 ± 0.004
			09-26-06	283	0.021 ± 0.004
			10-03-06	282	0.023 ± 0.004
1st Quarter Mean ± s.d.	0.021 ± 0.005		3rd Quarter Mean ± s.d.	0.026 ± 0.007	
04-04-06	279	0.019 ± 0.004	10-10-06	282	0.021 ± 0.004
04-11-06	280	0.023 ± 0.004	10-17-06	281	0.022 ± 0.004
04-18-06	281	0.019 ± 0.004	10-24-06	286	0.018 ± 0.004
04-25-06	281	0.009 ± 0.003	10-31-06	279	0.018 ± 0.004
05-02-06	281	0.016 ± 0.004			
			11-07-06	282	0.035 ± 0.005
05-09-06	308	0.019 ± 0.004	11-14-06	284	0.020 ± 0.004
05-16-06	275	0.013 ± 0.003	11-21-06	283	0.025 ± 0.004
05-23-06	288	0.009 ± 0.003	11-28-06	284	0.026 ± 0.004
05-30-06	281	0.026 ± 0.004			
			12-05-06	282	0.029 ± 0.004
06-06-06	290	0.029 ± 0.004	12-12-06	287	0.037 ± 0.004
06-13-06	281	0.015 ± 0.004	12-19-06	284	0.040 ± 0.005
06-20-06	280	0.022 ± 0.004	12-26-06	287	0.023 ± 0.004
06-27-06	281	0.017 ± 0.003	01-02-07	281	0.029 ± 0.004
2nd Quarter Mean ± s.d.	0.018 ± 0.006		4th Quarter Mean ± s.d.	0.026 ± 0.007	
			Cumulative Average	0.023	
			Previous Annual Average	0.024	

^a Iodine-131 concentrations are < 0.07 pCi/m³ unless noted otherwise in Appendix C.

Table 6. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-8

Units: pCi/m³

Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta
<u>Required LLD</u>			<u>0.010</u>		
01-10-06	299	0.022 ± 0.004	07-05-06	325	0.024 ± 0.004
01-17-06	295	0.020 ± 0.004	07-11-06	243	0.018 ± 0.004
01-24-06	285	0.021 ± 0.004	07-18-06	352	0.026 ± 0.003
01-31-06	293	0.025 ± 0.004	07-25-06	287	0.022 ± 0.004
			08-01-06	282	0.031 ± 0.004
02-07-06	286	0.022 ± 0.004			
02-14-06	283	0.025 ± 0.004	08-08-06	286	0.020 ± 0.004
02-21-06	284	0.026 ± 0.004	08-15-06	281	0.020 ± 0.004
02-28-06	281	0.029 ± 0.004	08-22-06	283	0.026 ± 0.004
			08-29-06	289	0.035 ± 0.004
03-07-06	284	0.015 ± 0.003			
03-14-06	279	0.019 ± 0.004	09-05-06	280	0.019 ± 0.004
03-21-06	283	0.024 ± 0.004	09-12-06	285	0.027 ± 0.004
03-28-06	285	0.009 ± 0.003	09-19-06	281	0.025 ± 0.004
			09-26-06	285	0.020 ± 0.004
			10-03-06	284	0.019 ± 0.004
1st Quarter Mean ± s.d.	0.021 ± 0.005		3rd Quarter Mean ± s.d.	0.024 ± 0.005	
04-04-06	281	0.021 ± 0.004	10-10-06	282	0.021 ± 0.004
04-11-06	281	0.025 ± 0.004	10-17-06	281	0.022 ± 0.004
04-18-06	283	0.019 ± 0.004	10-24-06	284	0.017 ± 0.003
04-25-06	284	0.013 ± 0.003	10-31-06	283	0.017 ± 0.003
05-02-06	282	0.019 ± 0.004			
05-09-06	287	0.028 ± 0.004	11-07-06	283	0.032 ± 0.004
05-16-06	279	0.012 ± 0.003	11-14-06	261	0.020 ± 0.004
05-23-06	283	0.010 ± 0.003	11-21-06	262	0.024 ± 0.004
05-30-06	275	0.023 ± 0.004	11-28-06	260	0.032 ± 0.005
			12-05-06	262	0.032 ± 0.004
06-06-06	282	0.022 ± 0.004	12-12-06	263	0.041 ± 0.005
06-13-06	286	0.017 ± 0.004	12-19-06	260	0.047 ± 0.005
06-20-06	281	0.020 ± 0.004	12-26-06	262	0.032 ± 0.004
06-27-06	283	0.015 ± 0.003	01-02-07	263	0.027 ± 0.004
2nd Quarter Mean ± s.d.	0.019 ± 0.005		4th Quarter Mean ± s.d.	0.028 ± 0.009	
			Cumulative Average	0.023	
			Previous Annual Average	0.025	

^a Iodine-131 concentrations are < 0.07 pCi/m³ unless noted otherwise in Appendix C.

Table 7. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-9 (C)

Units: pCi/m³

Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta	
<u>Required LLD</u>		<u>0.010</u>				
01-10-06	275	0.020 ± 0.004	07-05-06	323	0.031 ± 0.004	
01-17-06	273	0.022 ± 0.004	07-11-06	242	0.028 ± 0.005	
01-24-06	284	0.022 ± 0.004	07-18-06	280	0.029 ± 0.004	
01-31-06	283	0.029 ± 0.004	07-25-06	282	0.021 ± 0.004	
			08-01-06	279	0.035 ± 0.004	
02-07-06	286	0.019 ± 0.004				
02-14-06	282	0.020 ± 0.004	08-08-06	282	0.025 ± 0.004	
02-21-06	283	0.028 ± 0.004	08-15-06	279	0.020 ± 0.004	
02-28-06	279	0.030 ± 0.004	08-22-06	280	0.026 ± 0.004	
			08-29-06	284	0.037 ± 0.005	
03-07-06	283	0.018 ± 0.003				
03-14-06	281	0.019 ± 0.004	09-05-06	277	0.021 ± 0.004	
03-21-06	281	0.020 ± 0.004	09-12-06	282	0.029 ± 0.004	
03-28-06	283	0.008 ± 0.003	09-19-06	279	0.025 ± 0.004	
			09-26-06	283	0.019 ± 0.004	
			10-03-06	281	0.021 ± 0.004	
1st Quarter Mean ± s.d.	0.021 ± 0.006		3rd Quarter Mean ± s.d.	0.026 ± 0.006		
04-04-06	280	0.019 ± 0.004	10-10-06	280	0.022 ± 0.004	
04-11-06	282	0.023 ± 0.004	10-17-06	278	0.024 ± 0.004	
04-18-06	279	0.020 ± 0.004	10-24-06	282	0.020 ± 0.004	
04-25-06	282	0.014 ± 0.004	10-31-06	280	0.018 ± 0.004	
05-02-06	280	0.016 ± 0.004				
05-09-06	285	0.018 ± 0.004	11-07-06	281	0.033 ± 0.004	
05-16-06	280	0.014 ± 0.003	11-14-06	280	0.019 ± 0.004	
05-23-06	281	0.011 ± 0.003	11-21-06	281	0.020 ± 0.004	
05-30-06	282	0.023 ± 0.004	11-28-06	274	0.027 ± 0.004	
			12-05-06	277	0.027 ± 0.004	
06-06-06	281	0.023 ± 0.004	12-12-06	278	0.037 ± 0.005	
06-13-06	285	0.017 ± 0.004	12-19-06	275	0.045 ± 0.005	
06-20-06	279	0.023 ± 0.004	12-26-06	277	0.031 ± 0.004	
06-27-06	281	0.023 ± 0.004	01-02-07	278	0.037 ± 0.005	
2nd Quarter Mean ± s.d.	0.019 ± 0.004		4th Quarter Mean ± s.d.	0.028 ± 0.008		
			Cumulative Average	0.024		
			Previous Annual Average	0.025		

^a Iodine-131 concentrations are < 0.07 pCi/m³ unless noted otherwise in Appendix C.

Table 8. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.
 Location: T-11 (C)
 Units: pCi/m³
 Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta
<u>Required LLD</u>			<u>0.010</u>		
01-10-06	283	0.021 ± 0.004	07-05-06	329	0.026 ± 0.004
01-17-06	281	0.024 ± 0.004	07-11-06	247	0.021 ± 0.004
01-24-06	284	0.022 ± 0.004	07-18-06	287	0.029 ± 0.004
01-31-06	283	0.022 ± 0.004	07-25-06	288	0.023 ± 0.004
			08-01-06	287	0.036 ± 0.004
02-07-06	284	0.025 ± 0.004			
02-14-06	283	0.018 ± 0.004	08-08-06	287	0.024 ± 0.004
02-21-06	283	0.031 ± 0.004	08-15-06	287	0.021 ± 0.004
02-28-06	283	0.028 ± 0.004	08-22-06	287	0.031 ± 0.004
			08-29-06	280	0.039 ± 0.005
03-07-06	283	0.015 ± 0.003			
03-14-06	283	0.021 ± 0.004	09-05-06	287	0.018 ± 0.004
03-21-06	283	0.024 ± 0.004	09-12-06	287	0.030 ± 0.004
03-28-06	280	0.012 ± 0.003	09-19-06	287	0.025 ± 0.004
			09-26-06	288	0.018 ± 0.004
			10-03-06	287	0.021 ± 0.004
1st Quarter Mean ± s.d.	0.022 ± 0.005		3rd Quarter Mean ± s.d.	0.026 ± 0.006	
04-04-06	281	0.020 ± 0.004	10-10-06	288	0.022 ± 0.004
04-11-06	283	0.023 ± 0.004	10-17-06	287	0.019 ± 0.004
04-18-06	281	0.022 ± 0.004	10-24-06	288	0.019 ± 0.004
04-25-06	284	0.013 ± 0.003	10-31-06	287	0.018 ± 0.004
05-02-06	283	0.019 ± 0.004			
05-09-06	284	0.018 ± 0.004	11-07-06	287	0.031 ± 0.004
05-16-06	282	0.013 ± 0.003	11-14-06	287	0.021 ± 0.004
05-23-06	292	0.009 ± 0.003	11-21-06	287	0.023 ± 0.004
05-30-06	288	0.025 ± 0.004	11-28-06	285	0.029 ± 0.004
06-06-06	287	0.024 ± 0.004	12-05-06	287	0.033 ± 0.004
06-13-06	287	0.017 ± 0.004	12-12-06	288	0.033 ± 0.004
06-20-06	288	0.021 ± 0.004	12-19-06	287	0.041 ± 0.005
06-27-06	287	0.018 ± 0.003	12-26-06	288	0.028 ± 0.004
			01-02-07	287	0.034 ± 0.004
2nd Quarter Mean ± s.d.	0.019 ± 0.005		4th Quarter Mean ± s.d.	0.027 ± 0.007	
			Cumulative Average	0.023	
			Previous Annual Average	0.024	

^a Iodine-131 concentrations are < 0.07 pCi/m³ unless noted otherwise in Appendix C.

Table 9. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-12 (C)

Units: pCi/m³

Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta
<u>Required LLD</u>		<u>0.010</u>			<u>0.010</u>
01-10-06	284	0.017 ± 0.004	07-05-06	327	0.027 ± 0.004
01-17-06	330	0.023 ± 0.003	07-11-06	244	0.022 ± 0.004
01-24-06	266	0.018 ± 0.004	07-18-06	282	0.027 ± 0.004
01-31-06	293	0.024 ± 0.004	07-25-06	286	0.021 ± 0.004
			08-01-06	283	0.039 ± 0.005
02-07-06	262	0.019 ± 0.004	08-08-06	285	0.023 ± 0.004
02-14-06	329	0.020 ± 0.003	08-15-06	275	0.017 ± 0.004
02-21-06	277	0.026 ± 0.004	08-22-06	281	0.029 ± 0.004
02-28-06	299	0.035 ± 0.004	08-29-06	284	0.038 ± 0.005
03-07-06	284	0.011 ± 0.003	09-05-06	279	0.021 ± 0.004
03-14-06	284	0.019 ± 0.004	09-12-06	282	0.032 ± 0.004
03-21-06	283	0.023 ± 0.004	09-19-06	280	0.023 ± 0.004
03-28-06	278	0.011 ± 0.003	09-26-06	283	0.019 ± 0.004
			10-03-06	282	0.023 ± 0.004
1st Quarter Mean ± s.d.		0.021 ± 0.007	3rd Quarter Mean ± s.d.		0.026 ± 0.007
04-04-06	283	0.018 ± 0.004	10-10-06	281	0.021 ± 0.004
04-11-06	283	0.023 ± 0.004	10-17-06	280	0.021 ± 0.004
04-18-06	284	0.023 ± 0.004	10-24-06	283	0.019 ± 0.004
04-25-06	285	0.012 ± 0.003	10-31-06	281	0.019 ± 0.004
05-02-06	282	0.015 ± 0.004	11-07-06	281	0.032 ± 0.004
05-09-06	287	0.019 ± 0.004	11-14-06	281	0.015 ± 0.003
05-16-06	282	0.014 ± 0.003	11-21-06	280	0.024 ± 0.004
05-23-06	283	0.009 ± 0.003	11-28-06	280	0.025 ± 0.004
05-30-06	285	0.026 ± 0.004	12-05-06	281	0.027 ± 0.004
06-06-06	282	0.022 ± 0.004	12-12-06	282	0.034 ± 0.004
06-13-06	287	0.015 ± 0.003	12-19-06	279	0.041 ± 0.005
06-20-06	282	0.025 ± 0.004	12-26-06	281	0.028 ± 0.004
06-27-06	283	0.020 ± 0.004	01-02-07	281	0.029 ± 0.004
2nd Quarter Mean ± s.d.		0.019 ± 0.005	4th Quarter Mean ± s.d.		0.026 ± 0.007
				Cumulative Average	0.023
				Previous Annual Average	0.025

^a Iodine-131 concentrations are < 0.07 pCi/m³ unless noted otherwise.

Table 10. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-27 (C)

Units: pCi/m³

Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta
<u>Required LLD</u>			<u>0.010</u>		
01-10-06	285	0.022 ± 0.004	07-05-06	325	0.027 ± 0.004
01-17-06	290	0.023 ± 0.004	07-11-06	243	0.021 ± 0.004
01-24-06	286	0.016 ± 0.003	07-18-06	281	0.028 ± 0.004
01-31-06	286	0.025 ± 0.004	07-25-06	284	0.019 ± 0.003
			08-01-06	282	0.035 ± 0.003
02-07-06	287	0.023 ± 0.004	08-08-06	284	0.023 ± 0.004
02-14-06	285	0.021 ± 0.004	08-15-06	282	0.022 ± 0.004
02-21-06	285	0.027 ± 0.004	08-22-06	283	0.025 ± 0.004
02-28-06	286	0.027 ± 0.004	08-29-06	285	0.043 ± 0.005
03-07-06	286	0.017 ± 0.003	09-05-06	281	0.015 ± 0.004
03-14-06	286	0.024 ± 0.004	09-12-06	285	0.031 ± 0.004
03-21-06	285	0.020 ± 0.004	09-19-06	283	0.022 ± 0.004
03-28-06	286	0.010 ± 0.003	09-26-06	286	0.020 ± 0.004
			10-03-06	284	0.019 ± 0.004
1st Quarter Mean ± s.d.			3rd Quarter Mean ± s.d.		
04-04-06	284	0.018 ± 0.004	10-10-06	284	0.023 ± 0.004
04-11-06	285	0.022 ± 0.004	10-17-06	287	0.024 ± 0.004
04-18-06	283	0.017 ± 0.004	10-24-06	281	0.021 ± 0.004
04-25-06	284	0.014 ± 0.003	10-31-06	283	0.021 ± 0.004
05-02-06	282	0.014 ± 0.004	11-07-06	284	0.037 ± 0.005
05-09-06	286	0.015 ± 0.004	11-14-06	284	0.019 ± 0.003
05-16-06	281	0.012 ± 0.003	11-21-06	283	0.023 ± 0.004
05-23-06	282	0.009 ± 0.003	11-28-06	284	0.026 ± 0.004
05-30-06	284	0.024 ± 0.004	12-05-06	284	0.029 ± 0.004
06-06-06	282	0.026 ± 0.004	12-12-06	286	0.036 ± 0.004
06-13-06	286	0.016 ± 0.004	12-19-06	283	0.046 ± 0.005
06-20-06	281	0.024 ± 0.004	12-26-06	285	0.027 ± 0.004
06-27-06	282	0.020 ± 0.004	01-02-07	284	0.030 ± 0.004
2nd Quarter Mean ± s.d.			4th Quarter Mean ± s.d.		
0.018 ± 0.005			0.028 ± 0.008		
Cumulative Average					0.023
Previous Annual Average					0.026

^a Iodine-131 concentrations are < 0.07 pCi/m³ unless noted otherwise in Appendix C.

Table 11-1. Airborne particulate data,gross beta analyses, monthly averages, minima and maxima.

January				April			
Location	Average	Minima	Maxima	Location	Average	Minima	Maxima
T-9	0.023	0.020	0.029	T-9	0.018	0.014	0.023
T-11	0.022	0.021	0.024	T-11	0.019	0.013	0.023
T-12	0.021	0.017	0.024	T-12	0.018	0.012	0.023
T-27	0.022	0.016	0.025	T-27	0.017	0.014	0.022
Controls	0.022	0.016	0.029	Controls	0.018	0.012	0.023
T-1	0.022	0.018	0.027	T-1	0.018	0.012	0.021
T-2	0.022	0.019	0.027	T-2	0.019	0.014	0.023
T-3	0.021	0.018	0.025	T-3	0.018	0.013	0.021
T-4	0.023	0.020	0.027	T-4	0.019	0.012	0.025
T-7	0.021	0.018	0.025	T-7	0.017	0.009	0.023
T-8	0.022	0.020	0.025	T-8	0.019	0.013	0.025
Indicators	0.022	0.018	0.027	Indicators	0.018	0.009	0.025
February				May			
Location	Average	Minima	Maxima	Location	Average	Minima	Maxima
T-9	0.024	0.019	0.030	T-9	0.017	0.011	0.023
T-11	0.026	0.018	0.031	T-11	0.016	0.009	0.025
T-12	0.025	0.019	0.035	T-12	0.017	0.009	0.026
T-27	0.025	0.021	0.027	T-27	0.015	0.009	0.024
Controls	0.025	0.018	0.035	Controls	0.016	0.009	0.026
T-1	0.023	0.019	0.029	T-1	0.016	0.009	0.020
T-2	0.022	0.017	0.028	T-2	0.018	0.008	0.025
T-3	0.023	0.016	0.031	T-3	0.016	0.007	0.023
T-4	0.025	0.019	0.031	T-4	0.017	0.009	0.026
T-7	0.023	0.017	0.029	T-7	0.017	0.009	0.026
T-8	0.026	0.022	0.029	T-8	0.018	0.010	0.028
Indicators	0.024	0.016	0.031	Indicators	0.017	0.007	0.028
March				June			
Location	Average	Minima	Maxima	Location	Average	Minima	Maxima
T-9	0.016	0.008	0.020	T-9	0.022	0.017	0.023
T-11	0.018	0.012	0.024	T-11	0.020	0.017	0.024
T-12	0.016	0.011	0.023	T-12	0.021	0.015	0.025
T-27	0.018	0.010	0.024	T-27	0.022	0.016	0.026
Controls	0.017	0.008	0.024	Controls	0.021	0.015	0.026
T-1	0.019	0.014	0.024	T-1	0.021	0.017	0.025
T-2	0.018	0.007	0.024	T-2	0.021	0.014	0.026
T-3	0.017	0.010	0.020	T-3	0.019	0.015	0.024
T-4	0.018	0.009	0.026	T-4	0.019	0.013	0.023
T-7	0.017	0.011	0.024	T-7	0.021	0.015	0.029
T-8	0.017	0.009	0.024	T-8	0.019	0.015	0.022
Indicators	0.018	0.007	0.026	Indicators	0.020	0.013	0.029

Note: Unless otherwise specified, samples collected on the first, second or third day of the month are grouped with data of the previous month.

Table 11-1. Airborne particulate data, gross beta analyses, monthly averages, minima and maxima.

July			
Location	Average	Minima	Maxima
T-9	0.029	0.021	0.035
T-11	0.027	0.021	0.036
T-12	0.027	0.021	0.039
T-27	0.026	0.019	0.035
Controls	0.027	0.019	0.039
T-1	0.026	0.021	0.031
T-2	0.026	0.023	0.030
T-3	0.025	0.018	0.033
T-4	0.027	0.021	0.036
T-7	0.026	0.018	0.034
T-8	0.024	0.018	0.031
Indicators	0.026	0.018	0.036

October			
Location	Average	Minima	Maxima
T-9	0.021	0.018	0.024
T-11	0.020	0.018	0.022
T-12	0.020	0.019	0.021
T-27	0.022	0.021	0.024
Controls	0.021	0.018	0.024
T-1	0.021	0.018	0.027
T-2	0.020	0.018	0.021
T-3	0.018	0.017	0.019
T-4	0.021	0.017	0.024
T-7	0.020	0.018	0.022
T-8	0.019	0.017	0.022
Indicators	0.020	0.017	0.027

August			
Location	Average	Minima	Maxima
T-9	0.027	0.020	0.037
T-11	0.029	0.021	0.039
T-12	0.027	0.017	0.038
T-27	0.028	0.022	0.043
Controls	0.028	0.017	0.043
T-1	0.028	0.022	0.038
T-2	0.028	0.022	0.040
T-3	0.028	0.022	0.039
T-4	0.031	0.021	0.051
T-7	0.028	0.021	0.042
T-8	0.025	0.020	0.035
Indicators	0.028	0.020	0.051

November			
Location	Average	Minima	Maxima
T-9	0.025	0.019	0.033
T-11	0.026	0.021	0.031
T-12	0.024	0.015	0.032
T-27	0.026	0.019	0.037
Controls	0.025	0.015	0.037
T-1	0.027	0.021	0.034
T-2	0.026	0.018	0.033
T-3	0.026	0.021	0.032
T-4	0.026	0.021	0.035
T-7	0.027	0.020	0.035
T-8	0.027	0.020	0.032
Indicators	0.026	0.018	0.035

September			
Location	Average	Minima	Maxima
T-9	0.023	0.019	0.029
T-11	0.022	0.018	0.030
T-12	0.024	0.019	0.032
T-27	0.021	0.015	0.031
Controls	0.023	0.015	0.032
T-1	0.023	0.019	0.033
T-2	0.023	0.017	0.030
T-3	0.023	0.019	0.030
T-4	0.023	0.015	0.029
T-7	0.024	0.017	0.033
T-8	0.022	0.019	0.027
Indicators	0.023	0.015	0.033

December			
Location	Average	Minima	Maxima
T-9	0.035	0.027	0.045
T-11	0.034	0.028	0.041
T-12	0.032	0.027	0.041
T-27	0.034	0.027	0.046
Controls	0.034	0.027	0.046
T-1	0.037	0.027	0.053
T-2	0.034	0.030	0.042
T-3	0.032	0.025	0.038
T-4	0.032	0.026	0.043
T-7	0.032	0.023	0.040
T-8	0.036	0.027	0.047
Indicators	0.034	0.023	0.053

Note: Unless otherwise specified, samples collected on the first, second or third day of the month are grouped with data of the previous month.

TOLEDO

Table 12. Airborne particulates, analyses for strontium-89, strontium-90 and gamma-emitting isotopes.
 Collection: Quarterly Composite
 Units: pCi/m³

Location		T-1			
Quarter		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Lab Code	TAP-2524		TAP-4893	TAP-7537	TAP-9653
Volume (m ³)	3312		3623	3963	3701
Sr-89	< 0.0008		< 0.0010	< 0.0006	< 0.0005
Sr-90	< 0.0005		< 0.0006	< 0.0004	< 0.0004
Be-7	0.073 ± 0.015		0.095 ± 0.023	0.077 ± 0.013	0.063 ± 0.016
K-40	< 0.033		< 0.019	< 0.020	< 0.023
Nb-95	< 0.0008		< 0.0020	< 0.0008	< 0.0007
Zr-95	< 0.0016		< 0.0024	< 0.0010	< 0.0011
Ru-103	< 0.0012		< 0.0010	< 0.0008	< 0.0008
Ru-106	< 0.0078		< 0.0063	< 0.0078	< 0.0057
Cs-134	< 0.0011		< 0.0008	< 0.0007	< 0.0007
Cs-137	< 0.0003		< 0.0010	< 0.0007	< 0.0005
Ce-141	< 0.0008		< 0.0013	< 0.0014	< 0.0010
Ce-144	< 0.0043		< 0.0057	< 0.0049	< 0.0039

Location		T-2			
Quarter		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Lab Code	TAP-2525		TAP-4894	TAP-7538	TAP-9654
Volume (m ³)	3332		3645	3892	3633
Sr-89	< 0.0009		< 0.0010	< 0.0007	< 0.0006
Sr-90	< 0.0005		< 0.0005	< 0.0004	< 0.0004
Be-7	0.066 ± 0.014		0.10 ± 0.020	0.093 ± 0.015	0.066 ± 0.015
K-40	< 0.016		< 0.028	< 0.024	< 0.024
Nb-95	< 0.0019		< 0.0006	< 0.0008	< 0.0009
Zr-95	< 0.0012		< 0.0013	< 0.0011	< 0.0012
Ru-103	< 0.0007		< 0.0017	< 0.0007	< 0.0012
Ru-106	< 0.0072		< 0.0057	< 0.0065	< 0.0053
Cs-134	< 0.0006		< 0.0010	< 0.0009	< 0.0004
Cs-137	< 0.0007		< 0.0005	< 0.0006	< 0.0006
Ce-141	< 0.0011		< 0.0024	< 0.0011	< 0.0020
Ce-144	< 0.0048		< 0.0039	< 0.0036	< 0.0035

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Table 12. Airborne particulates, analyses for strontium-89, strontium-90 and gamma-emitting isotopes.
 Collection: Quarterly Composite
 Units: pCi/m³

Location		T-3			
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
Lab Code	TAP-2526		TAP-4895		TAP-7539
Volume (m ³)	3292		3634		3658
Sr-89	< 0.0008	< 0.0009	< 0.0006	< 0.0006	< 0.0006
Sr-90	< 0.0006	< 0.0006	< 0.0004	< 0.0004	< 0.0004
Be-7	0.061 ± 0.013	0.095 ± 0.019	0.076 ± 0.012	0.066 ± 0.018	
K-40	< 0.015	< 0.028	< 0.022	< 0.023	
Nb-95	< 0.0010	< 0.0011	< 0.0008	< 0.0009	
Zr-95	< 0.0018	< 0.0020	< 0.0011	< 0.0015	
Ru-103	< 0.0009	< 0.0010	< 0.0007	< 0.0010	
Ru-106	< 0.0064	< 0.0061	< 0.0058	< 0.0067	
Cs-134	< 0.0008	< 0.0007	< 0.0004	< 0.0007	
Cs-137	< 0.0007	< 0.0006	< 0.0004	< 0.0007	
Ce-141	< 0.0010	< 0.0018	< 0.0009	< 0.0019	
Ce-144	< 0.0038	< 0.0043	< 0.0039	< 0.0047	
Location		T-4			
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
Lab Code	TAP-2527		TAP-4896		TAP-7540
Volume (m ³)	3406		3677		3900
Sr-89	< 0.0004	< 0.0009	< 0.0006	< 0.0005	
Sr-90	< 0.0003	< 0.0005	< 0.0003	< 0.0003	
Be-7	0.071 ± 0.014	0.104 ± 0.020	0.085 ± 0.015	0.072 ± 0.016	
K-40	< 0.032	< 0.026	< 0.022	< 0.019	
Nb-95	< 0.0008	< 0.0011	< 0.0009	< 0.0011	
Zr-95	< 0.0016	< 0.0014	< 0.0013	< 0.0019	
Ru-103	< 0.0011	< 0.0010	< 0.0009	< 0.0008	
Ru-106	< 0.0093	< 0.0050	< 0.0051	< 0.0050	
Cs-134	< 0.0011	< 0.0008	< 0.0007	< 0.0009	
Cs-137	< 0.0003	< 0.0005	< 0.0009	< 0.0009	
Ce-141	< 0.0008	< 0.0017	< 0.0016	< 0.0019	
Ce-144	< 0.0042	< 0.0037	< 0.0029	< 0.0043	

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Table 12. Airborne particulates, analyses for strontium-89, strontium-90 and gamma-emitting isotopes.
 Collection: Quarterly Composite
 Units: pCi/m³

Location		T-7			
Quarter		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Lab Code	TAP-2528		TAP-4897		TAP-7541
Volume (m ³)	3364		3686		3946
Sr-89	< 0.0008		< 0.0009		< 0.0007
Sr-90	< 0.0005		< 0.0004		< 0.0004
Be-7	0.055 ± 0.018		0.100 ± 0.019		0.074 ± 0.013
K-40	< 0.020		< 0.028		< 0.022
Nb-95	< 0.0017		< 0.0009		< 0.0009
Zr-95	< 0.0016		< 0.0012		< 0.0013
Ru-103	< 0.0014		< 0.0009		< 0.0007
Ru-106	< 0.0090		< 0.0060		< 0.0058
Cs-134	< 0.0009		< 0.0008		< 0.0007
Cs-137	< 0.0012		< 0.0007		< 0.0005
Ce-141	< 0.0026		< 0.0024		< 0.0021
Ce-144	< 0.0066		< 0.0051		< 0.0036

Location		T-8			
Quarter		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Lab Code	TAP-2529		TAP-4898		TAP-7542
Volume (m ³)	3437		3667		4043
3506					
Sr-89	< 0.0008		< 0.0009		< 0.0006
Sr-90	< 0.0006		< 0.0005		< 0.0004
Be-7	0.065 ± 0.014		0.084 ± 0.017		0.083 ± 0.014
K-40	< 0.019		< 0.026		< 0.027
Nb-95	< 0.0008		< 0.0009		< 0.0009
Zr-95	< 0.0012		< 0.0014		< 0.0013
Ru-103	< 0.0011		< 0.0011		< 0.0008
Ru-106	< 0.0063		< 0.0074		< 0.0047
Cs-134	< 0.0007		< 0.0007		< 0.0006
Cs-137	< 0.0006		< 0.0005		< 0.0005
Ce-141	< 0.0018		< 0.0019		< 0.0015
Ce-144	< 0.0039		< 0.0042		< 0.0040

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Table 12. Airborne particulates, analyses for strontium-89, strontium-90 and gamma-emitting isotopes.
 Collection: Quarterly Composite
 Units: pCi/m³

Location	T-9 (C)			
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Lab Code	TAP-2530	TAP-4899	TAP-7543	TAP-9659
Volume (m ³)	3373	3657	3933	3621
Sr-89	< 0.0008	< 0.0011	< 0.0007	< 0.0005
Sr-90	< 0.0005	< 0.0006	< 0.0004	< 0.0004
Be-7	0.036 ± 0.011	0.110 ± 0.023	0.069 ± 0.015	0.073 ± 0.019
K-40	< 0.020	< 0.028	< 0.022	< 0.024
Nb-95	< 0.0022	< 0.0007	< 0.0008	< 0.0009
Zr-95	< 0.0023	< 0.0014	< 0.0012	< 0.0018
Ru-103	< 0.0009	< 0.0015	< 0.0005	< 0.0011
Ru-106	< 0.0085	< 0.0066	< 0.0047	< 0.0048
Cs-134	< 0.0006	< 0.0008	< 0.0007	< 0.0006
Cs-137	< 0.0008	< 0.0006	< 0.0005	< 0.0005
Ce-141	< 0.0025	< 0.0021	< 0.0009	< 0.0020
Ce-144	< 0.0030	< 0.0039	< 0.0022	< 0.0047

Location	T-11 (C)			
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Lab Code	TAP-2531	TAP-4900	TAP-7544	TAP-9660
Volume (m ³)	3393	3707	4015	3733
Sr-89	< 0.0008	< 0.0009	< 0.0006	< 0.0005
Sr-90	< 0.0006	< 0.0005	< 0.0004	< 0.0004
Be-7	0.089 ± 0.020	0.076 ± 0.020	0.069 ± 0.016	0.051 ± 0.012
K-40	< 0.033	< 0.028	< 0.021	< 0.026
Nb-95	< 0.0012	< 0.0014	< 0.0008	< 0.0008
Zr-95	< 0.0021	< 0.0013	< 0.0016	< 0.0012
Ru-103	< 0.0016	< 0.0010	< 0.0006	< 0.0007
Ru-106	< 0.0055	< 0.0061	< 0.0069	< 0.0066
Cs-134	< 0.0010	< 0.0008	< 0.0008	< 0.0004
Cs-137	< 0.0011	< 0.0008	< 0.0005	< 0.0006
Ce-141	< 0.0015	< 0.0010	< 0.0007	< 0.0009
Ce-144	< 0.0041	< 0.0034	< 0.0044	< 0.0026

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Table 12. Airborne particulates, analyses for strontium-89, strontium-90 and gamma-emitting isotopes.
 Collection: Quarterly Composite
 Units: pCi/m³

Location		T-12 (C)		
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Lab Code	TAP-2532	TAP-4901	TAP-7545	TAP-9661
Volume (m ³)	3469	3688	3953	3651
Sr-89	< 0.0007	< 0.0009	< 0.0006	< 0.0005
Sr-90	< 0.0004	< 0.0005	< 0.0003	< 0.0003
Be-7	0.079 ± 0.026	0.089 ± 0.019	0.085 ± 0.015	0.057 ± 0.014
K-40	< 0.043	< 0.028	< 0.031	< 0.023
Nb-95	< 0.0044	< 0.0008	< 0.0009	< 0.0012
Zr-95	< 0.0048	< 0.0016	< 0.0013	< 0.0016
Ru-103	< 0.0028	< 0.0010	< 0.0009	< 0.0007
Ru-106	< 0.0083	< 0.0036	< 0.0048	< 0.0088
Cs-134	< 0.0015	< 0.0007	< 0.0006	< 0.0007
Cs-137	< 0.0014	< 0.0006	< 0.0005	< 0.0006
Ce-141	< 0.0033	< 0.0025	< 0.0015	< 0.0022
Ce-144	< 0.0069	< 0.0035	< 0.0021	< 0.0051

Location		T-27 (C)		
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Lab Code	TAP-2533	TAP-4902	TAP-7546	TAP-9662
Volume (m ³)	3433	3682	3968	3692
Sr-89	< 0.0007	< 0.0009	< 0.0006	< 0.0005
Sr-90	< 0.0005	< 0.0005	< 0.0003	< 0.0003
Be-7	0.051 ± 0.018	0.069 ± 0.020	0.083 ± 0.013	0.071 ± 0.014
K-40	< 0.024	< 0.027	< 0.022	< 0.024
Nb-95	< 0.0021	< 0.0007	< 0.0009	< 0.0008
Zr-95	< 0.0021	< 0.0011	< 0.0012	< 0.0020
Ru-103	< 0.0017	< 0.0010	< 0.0008	< 0.0011
Ru-106	< 0.0096	< 0.0062	< 0.0056	< 0.0053
Cs-134	< 0.0009	< 0.0008	< 0.0005	< 0.0007
Cs-137	< 0.0008	< 0.0006	< 0.0003	< 0.0005
Ce-141	< 0.0028	< 0.0021	< 0.0018	< 0.0009
Ce-144	< 0.0069	< 0.0025	< 0.0037	< 0.0040

TOLEDO

Table 13. Area monitors (TLD), Quarterly.

Units: mR/91 days

<u>Indicator</u>	<u>1st Qtr.</u>	<u>2nd Qtr.</u>	<u>3rd Qtr.</u>	<u>4th Qtr.</u>
T-1	10.5 ± 0.8	11.0 ± 1.0	11.0 ± 0.6	11.5 ± 0.6
T-2	12.5 ± 0.7	12.3 ± 0.5	13.3 ± 0.4	14.3 ± 1.0
T-3	12.8 ± 0.9	12.0 ± 0.7	13.4 ± 0.7	13.7 ± 0.7
T-4	11.7 ± 0.7	11.0 ± 0.5	12.6 ± 0.5	13.0 ± 1.2
T-5	13.9 ± 1.0	13.1 ± 0.4	15.2 ± 0.7	15.8 ± 0.5
T-6	11.5 ± 0.9	10.8 ± 0.5	12.1 ± 0.7	12.2 ± 0.4
T-7	16.8 ± 0.7	16.7 ± 0.6	17.7 ± 0.6	18.6 ± 0.6
T-8	22.6 ± 1.3	20.9 ± 0.6	23.7 ± 1.8	23.3 ± 0.5
T-10	15.4 ± 0.9	14.5 ± 0.5	15.6 ± 0.6	16.0 ± 0.6
T-38	10.9 ± 0.7	11.7 ± 0.9	12.9 ± 0.9	13.0 ± 1.0
T-39	11.6 ± 0.9	11.7 ± 0.5	11.4 ± 0.5	12.7 ± 0.4
T-40	14.4 ± 0.7	14.7 ± 0.5	15.2 ± 0.5	15.8 ± 0.5
T-41	9.3 ± 0.8	11.9 ± 0.6	10.6 ± 0.6	13.1 ± 0.4
T-42	12.2 ± 1.0	11.8 ± 0.7	12.8 ± 1.0	13.0 ± 0.7
T-43	16.5 ± 0.9	15.5 ± 0.8	17.1 ± 0.9	16.7 ± 0.6
T-44	18.3 ± 1.1	18.3 ± 0.7	19.1 ± 1.0	19.3 ± 0.7
T-45	20.0 ± 0.8	21.1 ± 0.8	21.9 ± 0.7	22.2 ± 0.5
T-46	12.4 ± 1.0	12.4 ± 0.7	13.6 ± 0.9	13.8 ± 0.9
T-47	10.4 ± 1.0	8.7 ± 0.5	11.2 ± 0.8	9.6 ± 0.4
T-48	11.5 ± 0.7	11.4 ± 0.5	12.4 ± 0.4	12.0 ± 0.4
T-49	12.4 ± 0.8	11.6 ± 0.5	13.4 ± 0.6	12.6 ± 0.4
T-50	13.2 ± 0.9	15.8 ± 1.1	13.9 ± 0.5	17.1 ± 1.1
T-51	16.0 ± 1.6	17.6 ± 0.9	18.5 ± 1.6	20.2 ± 1.6
T-52	17.6 ± 1.1	17.4 ± 0.6	19.0 ± 1.1	18.6 ± 0.5
T-53	15.7 ± 0.7	18.1 ± 1.4	17.1 ± 0.5	18.5 ± 0.5
T-54	17.2 ± 0.7	18.2 ± 0.8	18.6 ± 0.5	18.9 ± 0.9
T-55	13.6 ± 1.0	14.6 ± 0.6	14.6 ± 1.1	15.4 ± 0.6
T-60	10.9 ± 0.6	10.9 ± 0.9	11.9 ± 0.8	12.3 ± 1.0
T-62	10.8 ± 0.4	11.0 ± 0.5	12.0 ± 0.4	12.4 ± 0.6
T-65	16.6 ± 0.5	16.9 ± 0.4	19.3 ± 1.0	19.2 ± 0.5
T-66	19.3 ± 0.5	19.6 ± 1.2	20.4 ± 0.5	22.0 ± 0.7
T-67	19.3 ± 0.6	19.0 ± 0.6	21.9 ± 0.9	20.7 ± 0.7
T-68	16.8 ± 0.6	16.9 ± 0.8	19.2 ± 0.8	19.1 ± 0.9
T-69	17.1 ± 0.5	17.2 ± 0.5	19.0 ± 0.5	19.0 ± 0.5
T-71	15.3 ± 0.4	15.7 ± 0.7	17.3 ± 0.4	19.0 ± 1.1
T-73	14.2 ± 1.1	13.5 ± 0.5	15.2 ± 1.1	15.2 ± 0.6
T-74	15.0 ± 0.4	15.3 ± 0.6	17.1 ± 0.5	17.8 ± 1.0
T-75	14.8 ± 0.4	14.1 ± 0.3	16.8 ± 0.4	16.6 ± 0.4
T-76	11.8 ± 0.3	10.8 ± 0.4	12.6 ± 0.3	13.0 ± 0.5
T-91	18.3 ± 1.0	17.3 ± 0.8	20.8 ± 1.0	19.9 ± 0.9
T-92	ND ^a	13.5 ± 0.4	12.1 ± 0.4	15.7 ± 0.5

^a ND = No Data, TLD lost in the field.

TOLEDO

Table 13. Area monitors (TLD), Quarterly.

Units: mR/91 days

<u>Indicator</u>	<u>1st Qtr.</u>	<u>2nd Qtr.</u>	<u>3rd Qtr.</u>	<u>4th Qtr.</u>
T-93	14.6 ± 0.6	13.9 ± 0.6	16.3 ± 0.5	16.0 ± 0.7
T-94	17.1 ± 1.0	15.5 ± 0.9	18.4 ± 0.8	17.6 ± 1.0
T-112	13.9 ± 0.4	12.9 ± 0.5	15.6 ± 0.4	15.0 ± 0.7
T-121	17.3 ± 1.1	17.4 ± 0.8	20.1 ± 1.5	19.9 ± 0.8
T-122	14.7 ± 1.1	14.0 ± 0.6	16.5 ± 1.4	16.3 ± 0.6
T-123	16.3 ± 0.8	16.4 ± 0.4	18.4 ± 1.1	18.0 ± 0.6
T-125	15.3 ± 0.9	15.3 ± 0.4	17.5 ± 1.1	16.8 ± 0.5
T-126	15.5 ± 0.5	14.7 ± 0.7	17.6 ± 0.6	16.0 ± 0.6
T-127	18.0 ± 0.5	17.8 ± 0.8	20.5 ± 0.4	19.5 ± 0.9
T-128	17.7 ± 1.4	17.4 ± 0.4	20.4 ± 1.8	18.6 ± 0.4
T-142	11.0 ± 0.4	10.6 ± 0.4	12.5 ± 0.3	12.0 ± 0.4
T-150	12.4 ± 0.8	12.4 ± 0.7	13.8 ± 0.9	13.7 ± 0.7
T-151	16.8 ± 0.6	17.0 ± 0.4	18.8 ± 0.8	18.6 ± 0.6
T-153	16.8 ± 0.4	15.2 ± 0.4	19.2 ± 0.4	16.4 ± 0.5
T-154	14.0 ± 0.8	13.7 ± 0.5	15.5 ± 0.7	15.1 ± 0.8
T-201	13.0 ± 0.7	12.3 ± 0.4	13.5 ± 0.9	12.7 ± 0.3
T-202	13.3 ± 0.9	13.6 ± 0.7	14.2 ± 1.0	14.0 ± 0.8
T-203	13.2 ± 0.7	14.2 ± 0.8	13.9 ± 0.9	14.8 ± 0.8
T-204	12.2 ± 0.7	14.0 ± 1.1	12.8 ± 0.9	12.5 ± 0.7
T-205	10.3 ± 0.7	10.2 ± 0.4	10.5 ± 1.0	10.9 ± 0.3
T-206	9.4 ± 0.9	10.1 ± 0.3	10.3 ± 0.9	10.8 ± 0.4
T-207	9.0 ± 0.8	7.5 ± 0.5	9.4 ± 1.0	8.2 ± 0.7
T-208	9.8 ± 1.3	10.2 ± 0.4	10.7 ± 1.6	10.6 ± 0.3
T-211	10.6 ± 1.0	9.1 ± 0.4	11.8 ± 0.6	9.9 ± 0.3
T-212	9.8 ± 0.9	10.3 ± 0.5	11.1 ± 0.4	11.4 ± 0.6
T-213	17.1 ± 1.0	15.7 ± 0.4	18.3 ± 0.6	16.7 ± 0.5
T-214	17.0 ± 0.9	15.9 ± 0.5	18.1 ± 0.6	16.9 ± 0.5
T-215	18.2 ± 1.2	15.9 ± 0.7	19.6 ± 0.7	16.8 ± 0.6
T-216	16.7 ± 1.2	16.0 ± 1.0	18.3 ± 0.6	16.4 ± 0.9
T-217	18.6 ± 1.2	17.6 ± 1.3	20.1 ± 0.8	18.5 ± 1.4
T-218	19.2 ± 1.2	18.7 ± 0.8	20.6 ± 0.9	19.1 ± 0.8
T-219	15.0 ± 1.1	15.9 ± 0.5	16.0 ± 0.9	16.0 ± 1.2
T-220	18.3 ± 1.4	18.4 ± 1.4	19.8 ± 0.9	19.8 ± 1.5
T-222	11.6 ± 0.9	11.0 ± 0.5	12.4 ± 0.7	12.3 ± 0.6
T-223	12.2 ± 1.0	13.2 ± 0.5	13.3 ± 0.5	14.6 ± 0.5
T-224	16.1 ± 0.9	14.1 ± 0.6	16.9 ± 0.5	14.5 ± 0.5
Mean ± s.d.	14.5 ± 3.1	14.3 ± 3.0	15.8 ± 3.4	15.7 ± 3.3

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Table 13. Area monitors (TLD), Quarterly.

Units: mR/91 days

	<u>1st Qtr.</u>	<u>2nd Qtr.</u>	<u>3rd Qtr.</u>	<u>4th Qtr.</u>
<u>Control</u>				
T-9	12.8 ± 0.7	12.4 ± 0.7	13.4 ± 0.5	13.9 ± 0.6
T-11	12.7 ± 0.7	12.0 ± 0.5	13.1 ± 0.5	13.4 ± 0.5
T-12	18.7 ± 0.8	18.5 ± 0.6	19.8 ± 0.7	20.0 ± 0.6
T-24	17.2 ± 0.9	17.2 ± 0.5	18.4 ± 0.8	18.5 ± 0.3
T-27	18.3 ± 1.0	18.8 ± 0.6	18.9 ± 0.9	19.9 ± 0.5
Mean ± s.d.	15.9 ± 3.0	15.8 ± 3.3	16.7 ± 3.2	17.1 ± 3.2
T-95	16.6 ± 0.6	15.1 ± 0.3	18.5 ± 0.7	17.4 ± 0.4
T-100	15.4 ± 1.2	15.5 ± 0.8	17.6 ± 1.6	17.4 ± 0.8
T-111	16.3 ± 1.5	16.5 ± 0.5	18.8 ± 1.9	19.0 ± 0.6
T-124	15.0 ± 0.7	13.6 ± 1.2	17.0 ± 0.8	15.5 ± 1.3
T-155	12.7 ± 0.6	12.4 ± 0.6	ND ^a	13.8 ± 0.7
T-221	14.9 ± 1.2	16.2 ± 1.0	16.3 ± 0.8	17.3 ± 1.1
Mean ± s.d.	15.2 ± 1.4	14.9 ± 1.6	17.6 ± 1.0	16.7 ± 1.8
<u>QC</u>				
T-80	9.6 ± 0.5	9.0 ± 0.3	10.6 ± 0.8	10.6 ± 0.4
T-81	16.7 ± 0.7	16.2 ± 0.5	18.4 ± 0.7	18.4 ± 0.5
T-82	9.7 ± 0.4	9.3 ± 0.5	10.7 ± 0.3	11.1 ± 0.5
T-83	9.7 ± 0.4	10.0 ± 0.8	10.6 ± 0.5	12.6 ± 0.8
T-84	10.7 ± 0.7	10.3 ± 0.4	11.7 ± 0.8	12.0 ± 0.6
T-85	13.1 ± 0.7	13.6 ± 0.7	14.2 ± 0.5	15.3 ± 0.8
T-86	19.0 ± 0.8	19.3 ± 0.8	22.2 ± 1.1	21.9 ± 0.9
T-88	13.5 ± 0.6	15.8 ± 0.6	15.6 ± 0.8	18.6 ± 0.6
T-89	15.8 ± 0.4	17.1 ± 0.8	18.3 ± 0.5	19.8 ± 0.7
T-113	14.4 ± 0.4	13.8 ± 0.4	16.5 ± 0.3	16.0 ± 0.5
T-114	13.5 ± 0.5	12.3 ± 0.5	14.9 ± 0.6	14.1 ± 0.6
T-115	12.5 ± 0.7	13.9 ± 0.4	13.8 ± 0.9	14.9 ± 0.4
T-116	15.0 ± 0.4	15.9 ± 0.5	16.9 ± 0.5	18.2 ± 0.7
T-117	12.8 ± 0.6	12.3 ± 1.0	14.4 ± 0.7	13.8 ± 1.0
T-118	15.3 ± 0.6	14.0 ± 0.7	16.6 ± 0.5	15.7 ± 0.6
T-119	13.3 ± 0.6	12.1 ± 0.4	14.8 ± 0.6	13.9 ± 0.5
T-120	11.5 ± 0.7	10.0 ± 0.5	12.2 ± 0.6	11.8 ± 0.5
T-200	11.4 ± 0.7	12.3 ± 0.7	12.5 ± 0.9	12.7 ± 0.7
Mean ± s.d.	13.2 ± 2.6	13.2 ± 2.9	14.7 ± 3.1	15.1 ± 3.2
<u>Shield</u>				
T-87	6.9 ± 0.5	6.8 ± 0.5	7.3 ± 0.5	8.6 ± 0.6

^a ND = No Data, TLD lost in the field.

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Table 14. Area monitors (TLD), Annual.

Units: mR/365 days

<u>Indicator</u>	<u>2006</u>
T-1	39.5 ± 2.0
T-2	44.1 ± 1.5
T-3	47.8 ± 2.9
T-4	44.4 ± 1.5
T-5	53.8 ± 1.6
T-6	42.1 ± 1.5
T-7	71.0 ± 3.1
T-8	90.1 ± 6.5
T-10	59.4 ± 1.5
T-38	47.5 ± 1.4
T-39	49.0 ± 1.3
T-40	61.7 ± 2.6
T-41	49.4 ± 1.7
T-42	50.1 ± 1.7
T-43	62.6 ± 2.3
T-44	75.2 ± 2.5
T-45	78.4 ± 2.3
T-46	46.9 ± 2.0
T-47	40.6 ± 1.5
T-48	49.7 ± 1.8
T-49	53.9 ± 2.1
T-50	54.3 ± 2.2
T-51	68.4 ± 2.7
T-52	68.9 ± 2.1
T-53	64.1 ± 3.1
T-54	71.1 ± 2.2
T-55	57.3 ± 2.3
T-60	40.7 ± 1.6
T-62	38.7 ± 1.2
T-65	66.3 ± 4.4
T-66	72.5 ± 4.2
T-67	70.4 ± 2.1
T-68	63.0 ± 1.3
T-69	63.6 ± 1.5
T-71	58.2 ± 1.6
T-73	49.8 ± 1.4
T-74	54.9 ± 2.3
T-75	55.2 ± 1.6
T-76	42.5 ± 1.5
T-91	67.5 ± 5.4
T-92	38.6 ± 2.3

^a "ND" = No data; TLD missing in field.

TOLEDO

Table 14. Area monitors (TLD), Annual.
Units: mR/365 days

<u>Indicator</u>	<u>2006</u>
T-93	50.0 ± 1.1
T-94	60.1 ± 1.3
T-112	53.6 ± 4.5
T-121	66.6 ± 2.8
T-122	51.9 ± 1.5
T-123	66.9 ± 2.4
T-125	69.6 ± 2.9
T-126	57.1 ± 3.0
T-127	79.7 ± 3.4
T-128	74.7 ± 2.3
T-142	43.9 ± 1.2
T-150	52.1 ± 1.6
T-151	74.3 ± 4.4
T-153	74.9 ± 3.3
T-154	58.9 ± 2.5
T-201	49.8 ± 4.0
T-202	52.0 ± 3.1
T-203	53.7 ± 4.4
T-204	49.3 ± 3.9
T-205	ND ^a
T-206	39.5 ± 3.5
T-207	35.7 ± 3.2
T-208	43.0 ± 3.6
T-211	42.6 ± 2.9
T-212	40.7 ± 1.1
T-213	70.0 ± 4.1
T-214	66.1 ± 4.5
T-215	70.7 ± 1.9
T-216	65.0 ± 2.4
T-217	73.4 ± 1.3
T-218	70.9 ± 2.2
T-219	61.7 ± 2.7
T-220	70.6 ± 2.8
T-222	51.2 ± 1.5
T-223	49.5 ± 2.0
T-224	68.1 ± 2.3
Mean ± s.d.	57.6 ± 12.2

^a "ND" = No data; TLD missing in field.

TOLEDO

Table 14. Area monitors (TLD), Annual.

Units: mR/365 days

Control

	<u>2006</u>
T-9	49.2 ± 1.8
T-11	52.0 ± 4.0
T-12	75.9 ± 1.9
T-24	76.2 ± 1.7
T-27	81.2 ± 1.9
Mean ± s.d.	66.9 ± 15.1
T-95	60.5 ± 1.6
T-100	58.8 ± 4.1
T-111	64.6 ± 2.0
T-124	54.7 ± 1.8
T-155	ND ^a
T-221	63.0 ± 2.7
Mean ± s.d.	60.3 ± 3.9

QC

T-80	39.0 ± 2.1
T-81	65.9 ± 2.1
T-82	37.9 ± 2.9
T-83	38.5 ± 1.8
T-84	40.1 ± 2.4
T-85	48.6 ± 1.1
T-86	75.8 ± 2.9
T-88	51.6 ± 1.6
T-89	58.8 ± 1.6
T-113	55.8 ± 1.1
T-114	49.6 ± 1.4
T-115	54.6 ± 3.2
T-116	59.5 ± 1.8
T-117	46.7 ± 1.3
T-118	56.3 ± 1.9
T-119	49.7 ± 2.5
T-120	39.8 ± 1.5
T-200	49.0 ± 4.0
Mean ± s.d.	51.0 ± 10.2

Shield

T-87	25.4 ± 1.4
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^a "ND" = No data; TLD missing in field.

Table 15. Milk, analyses for strontium-89, strontium-90, iodine-131, gamma emitting isotopes, calcium and stable potassium.

Monthly collections, location T-24

Units: pCi/L

Date Collected	02-01-06	03-01-06	03-29-06	04-26-06
Lab Code	TMI-517	TMI-1078, 9	TMI-1760, 1	TMI-2852
I-131	< 0.2	< 0.4	< 0.4	< 0.3
Sr-89	< 0.6	< 0.4	< 0.5	< 0.5
Sr-90	1.0 ± 0.4	1.4 ± 0.4	0.8 ± 0.4	1.0 ± 0.3
K-40	1257 ± 117	1265 ± 166	1325 ± 72	1321 ± 44
Cs-134	< 3.8	< 5.2	< 2.6	< 1.6
Cs-137	< 2.5	< 6.5	< 2.1	< 2.1
Ba-La-140	< 1.4	< 3.5	< 2.9	< 1.1
Ca (g/L)	1.09	0.75	1.15	1.14
Sr-90/g Ca	0.92	1.87	0.70	0.88
K (g/L)	1.45 ± 0.14	1.46 ± 0.19	1.53 ± 0.08	1.53 ± 0.05
Cs-137/g K	< 1.72	< 4.45	< 1.37	< 1.38
<hr/>				
Date Collected	05-31-06	06-28-06	07-26-06	08-30-06
Lab Code	TMI-3584	TMI-4307	TMI-5123	TMI-5963
I-131	< 0.3	< 0.2	< 0.3	< 0.4
Sr-89	< 0.6	< 0.7	< 0.7	< 0.5
Sr-90	0.8 ± 0.3	< 0.6	0.8 ± 0.3	1.0 ± 0.3
K-40	1328 ± 118	1405 ± 107	1301 ± 117	1304 ± 132
Cs-134	< 4.2	< 2.7	< 3.6	< 3.6
Cs-137	< 2.6	< 2.3	< 4.9	< 5.9
Ba-La-140	< 1.8	< 2.8	< 1.5	< 2.7
Ca (g/L)	1.16	1.16	1.09	1.31
Sr-90/g Ca	0.69	< 0.52	0.73	0.76
K (g/L)	1.54 ± 0.14	1.62 ± 0.12	1.50 ± 0.14	1.51 ± 0.15
Cs-137/g K	< 1.69	< 1.42	< 3.26	< 3.91
<hr/>				
Date Collected	09-27-06	11-01-06	11-29-06	12-27-06
Lab Code	TMI-6617	TMI-8070	TMI-8572	TMI-9397
I-131	< 0.4	< 0.4	< 0.2	< 0.4
Sr-89	< 0.6	< 0.8	< 0.8	< 0.6
Sr-90	0.6 ± 0.3	< 0.5	0.9 ± 0.4	0.6 ± 0.3
K-40	1398 ± 117	1251 ± 168	1229 ± 146	1414 ± 108
Cs-134	< 3.5	< 3.1	< 4.1	< 3.3
Cs-137	< 4.8	< 4.0	< 4.9	< 3.6
Ba-La-140	< 2.0	< 7.8	< 2.5	< 3.2
Ca (g/L)	1.26	1.22	0.85	1.51
Sr-90/g Ca	0.48	< 0.41	1.06	0.40
K (g/L)	1.62 ± 0.14	1.45 ± 0.19	1.42 ± 0.17	1.63 ± 0.12
Cs-137/g K	< 2.97	< 2.77	< 3.45	< 2.20

Table 16. Ground water samples, analyses for gross beta, tritium, strontium-89, strontium-90 and gamma-emitting isotopes.

Collection: Quarterly

Units: pCi/L

Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	
Location	T-27 (C)				
Lab Code	TWW-600	TWW-3453	TWW-5245	TWW-8186	Req. LLD
Date Collected	01-30-06	05-24-06	07-12-06	10-05-06	
Gross beta	< 2.2	< 2.2	2.0 ± 1.2	4.1 ± 1.4	4.0
H-3	< 330	< 330	< 330	< 330	330
Sr-89	< 0.6	< 0.7	< 0.7	< 0.9	
Sr-90	< 0.5	< 0.5	< 0.5	< 0.5	
Mn-54	< 3.1	< 3.9	< 3.7	< 2.2	15
Fe-59	< 7.4	< 2.4	< 7.9	< 6.2	30
Co-58	< 2.7	< 3.1	< 5.4	< 2.3	15
Co-60	< 2.2	< 2.3	< 3.3	< 2.5	15
Zn-65	< 3.9	< 4.6	< 10.4	< 4.1	30
Zr-Nb-95	< 3.4	< 3.2	< 7.9	< 4.1	15
Cs-134	< 3.7	< 2.8	< 5.5	< 2.0	15
Cs-137	< 2.7	< 3.4	< 3.7	< 2.7	18
Ba-La-140	< 6.4	< 1.8	< 11.6	< 11.1	15
Location	T-226 (I)				
Lab Code	TWW-602	TWW-3455	TWW-5247	TWW-8188	Req. LLD
Date Collected	01-30-06	05-24-06	07-14-06	10-05-06	
Gross beta	2.5 ± 1.1	< 1.9	< 1.6	2.5 ± 1.2	4.0
H-3	< 330	< 330	< 330	< 330	330
Sr-89	< 0.5	< 0.7	< 0.7	< 0.8	
Sr-90	< 0.5	< 0.5	< 0.4	< 0.5	
Mn-54	< 2.4	< 4.8	< 2.0	< 2.3	15
Fe-59	< 3.5	< 4.6	< 3.9	< 6.8	30
Co-58	< 3.1	< 4.1	< 8.1	< 2.4	15
Co-60	< 3.1	< 4.7	< 1.2	< 2.1	15
Zn-65	< 5.0	< 6.2	< 4.5	< 3.5	30
Zr-Nb-95	< 3.7	< 5.3	< 4.4	< 4.2	15
Cs-134	< 3.3	< 4.4	< 2.3	< 2.1	15
Cs-137	< 3.8	< 7.0	< 2.6	< 2.3	18
Ba-La-140	< 1.6	< 3.1	< 6.9	< 14.5	15

Table 16. Ground water samples, analyses for gross beta, tritium, strontium-89, strontium-90 and gamma-emitting isotopes.

Collection: Quarterly

Units: pCi/L

Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	
Location	T-141 (QC)				
Lab Code	TWW-601	TWW-3454	TWW-5246	TWW-8187	Req. LLD
Date Collected	01-30-06	05-24-06	07-14-06	10-05-06	
Gross beta	2.1 ± 1.0	< 2.0	2.8 ± 1.1	3.7 ± 1.3	4.0
H-3	< 330	< 330	< 330	< 330	330
Sr-89	< 0.7	< 0.8	< 0.7	< 1.0	
Sr-90	< 0.5	< 0.4	< 0.5	< 0.5	
Mn-54	< 3.3	< 3.5	< 2.6	< 2.3	15
Fe-59	< 6.8	< 3.4	< 4.2	< 5.5	30
Co-58	< 2.1	< 2.5	< 4.2	< 1.6	15
Co-60	< 2.5	< 2.7	< 3.5	< 2.0	15
Zn-65	< 2.9	< 3.7	< 3.6	< 4.5	30
Zr-Nb-95	< 3.2	< 2.8	< 5.3	< 5.0	15
Cs-134	< 3.3	< 3.3	< 4.0	< 2.5	15
Cs-137	< 3.4	< 3.2	< 4.8	< 2.2	18
Ba-La-140	< 2.9	< 2.4	< 12.4	< 15.0	15

Table 18. Wild meat, analyses for gamma-emitting isotopes.

Collection: Annually

Units: pCi/g wet

Location	T-31(I)	T-210 (C)
Lab Code	TWL-9398	TWL-9399
Date Collected	12/11/2006	12/13/2007
Sample Type	Muskrat	Muskrat
Be-7	< 0.052	< 0.11
K-40	2.28 ± 0.16	2.69 ± 0.17
Nb-95	< 0.013	< 0.016
Zr-95	< 0.014	< 0.018
Ru-103	< 0.007	< 0.015
Ru-106	< 0.054	< 0.061
Cs-134	< 0.005	< 0.006
Cs-137	< 0.004	< 0.005
Ce-141	< 0.026	< 0.019
Ce-144	< 0.046	< 0.069

Table 19. Green leafy vegetables, analyses for strontium-89, strontium-90, iodine-131 and other gamma-emitting isotopes.

Collection: Monthly, in season

Units: pCi/g wet

Location	T-227 (I)		
Lab Code	TVE-5966	TVE-6622	
Date Collected	8/28/2006	9/27/2006	
Sample Type	Cabbage	Cabbage	
Sr-89	< 0.003	< 0.003	
Sr-90	< 0.001	< 0.002	
I-131	< 0.023	< 0.008	
K-40	2.17 ± 0.34	2.06 ± 0.18	
Nb-95	< 0.021	< 0.007	
Zr-95	< 0.036	< 0.009	
Cs-134	< 0.011	< 0.004	
Cs-137	< 0.012	< 0.006	
Ce-141	< 0.024	< 0.010	
Ce-144	< 0.14	< 0.05	

Location	T-19 (I)			
Lab Code	TVE-5121	TVE-5964	TVE-6620	TVE-8072
Date Collected	7/26/2006	8/29/2006	9/27/2006	10/31/2006
Sample Type	Cabbage	Cabbage	Cabbage	Cabbage
Sr-89	< 0.003	< 0.004	< 0.002	< 0.003
Sr-90	< 0.001	< 0.002	0.002 ± 0.001	< 0.001
I-131	< 0.009	< 0.025	< 0.013	< 0.015
K-40	2.00 ± 0.24	1.91 ± 0.29	1.96 ± 0.25	2.12 ± 0.19
Nb-95	< 0.009	< 0.008	< 0.010	< 0.005
Zr-95	< 0.019	< 0.023	< 0.017	< 0.016
Cs-134	< 0.006	< 0.008	< 0.007	< 0.008
Cs-137	< 0.011	< 0.008	< 0.007	< 0.007
Ce-141	< 0.015	< 0.024	< 0.018	< 0.017
Ce-144	< 0.067	< 0.076	< 0.076	< 0.067

Location	T-37 (C)		
Lab Code	TVE-5122	TVE-5965	TVE-6621
Date Collected	7/26/2006	8/29/2006	9/26/2006
Sample Type	Cabbage	Cabbage	Cabbage
Sr-89	< 0.003	< 0.002	< 0.002
Sr-90	< 0.001	0.001 ± 0.001	< 0.001
I-131	< 0.016	< 0.016	< 0.016
K-40	1.71 ± 0.27	1.85 ± 0.31	1.75 ± 0.25
Nb-95	< 0.009	< 0.013	< 0.007
Zr-95	< 0.017	< 0.023	< 0.023
Cs-134	< 0.009	< 0.009	< 0.008
Cs-137	< 0.008	< 0.011	< 0.008
Ce-141	< 0.021	< 0.018	< 0.024
Ce-144	< 0.059	< 0.074	< 0.081

Table 20. Fruit, analyses for strontium-89, strontium-90, iodine-131 and other gamma-emitting isotopes.
 Collection: Monthly, in season
 Units: pCi/g wet

Location	T-8 (I)	T-25 (I)
Lab Code	TVE-6441	TVE-6368
Date Collected	9/13/2006	9/13/2006
Sample Type	Apples	Apples
Sr-89	< 0.004	< 0.002
Sr-90	< 0.002	< 0.001
I-131	< 0.017	< 0.009
K-40	1.31 ± 0.14	1.37 ± 0.12
Nb-95	< 0.009	< 0.006
Zr-95	< 0.014	< 0.011
Cs-134	< 0.004	< 0.005
Cs-137	< 0.006	< 0.004
Ce-141	< 0.017	< 0.009
Ce-144	< 0.058	< 0.037

Location	T-209 (C)
Lab Code	TVE-6442
Date Collected	9/13/2006
Sample Type	Apples
Sr-89	< 0.002
Sr-90	0.003 ± 0.001
I-131	< 0.033
K-40	0.95 ± 0.21
Nb-95	< 0.011
Zr-95	< 0.016
Cs-134	< 0.007
Cs-137	< 0.009
Ce-141	< 0.029
Ce-144	< 0.091

Table 21. Animal - wildlife feed, analyses for gamma-emitting isotopes.

Collection: Monthly, in season

Units: pCi/g wet

Indicators		
Location	T-31	T-198
Lab Code	TCF-6366	TCF-6440
Date Collected	9/14/2006	9/13/2006
Sample Type	Cattails	Cattails
Be-7	0.30 ± 0.17	< 0.27
K-40	2.74 ± 0.27	1.55 ± 0.26
Nb-95	< 0.017	< 0.014
Zr-95	< 0.029	< 0.038
Ru-103	< 0.024	< 0.030
Ru-106	< 0.088	< 0.13
Cs-134	< 0.007	< 0.011
Cs-137	< 0.007	< 0.015
Ce-141	< 0.047	< 0.078
Ce-144	< 0.072	< 0.13
Control		
Location	T-32	
Lab Code	TCF-6367	
Date Collected	9/14/2006	
Sample Type	Cattails	
Be-7	< 0.25	
K-40	1.48 ± 0.27	
Nb-95	< 0.033	
Zr-95	< 0.033	
Ru-103	< 0.024	
Ru-106	< 0.12	
Cs-134	< 0.017	
Cs-137	< 0.013	
Ce-141	< 0.056	
Ce-144	< 0.094	

Table 22. Soil samples, analyses for gamma-emitting isotopes.

Collection: Annual

Units: pCi/g dry

Location	T-1	T-2	T-3	T-4
Lab Code	TSO-3108	TSO-3109	TSO-3110	TSO-3111
Date Collected	4/5/2006	4/5/2006	4/5/2006	4/5/2006
Be-7	< 0.38	< 0.55	< 0.48	1.09 ± 0.58
K-40	11.20 ± 0.88	6.17 ± 0.76	9.20 ± 0.92	17.34 ± 1.28
Mn-54	< 0.029	< 0.030	< 0.045	< 0.057
Nb-95	< 0.040	< 0.079	< 0.090	< 0.11
Zr-95	< 0.056	< 0.073	< 0.080	< 0.13
Ru-103	< 0.044	< 0.042	< 0.059	< 0.086
Ru-106	< 0.27	< 0.30	< 0.33	< 0.23
Cs-134	< 0.042	< 0.038	< 0.045	< 0.063
Cs-137	0.13 ± 0.039	0.076 ± 0.035	< 0.031	0.13 ± 0.051
Ce-141	< 0.12	< 0.099	< 0.11	< 0.14
Ce-144	< 0.20	< 0.17	< 0.21	< 0.32

Location	T-7	T-8
Lab Code	TSO-3112	TSO-3113
Date Collected	4/5/2006	4/5/2006
Be-7	< 0.34	< 0.53
K-40	10.91 ± 0.95	25.26 ± 1.40
Mn-54	< 0.034	< 0.062
Nb-95	< 0.059	< 0.092
Zr-95	< 0.068	< 0.13
Ru-103	< 0.024	< 0.10
Ru-106	< 0.25	< 0.30
Cs-134	< 0.027	< 0.071
Cs-137	< 0.014	0.19 ± 0.068
Ce-141	< 0.078	< 0.17
Ce-144	< 0.17	< 0.23

Location	T-9	T-11	T-12	T-27
Lab Code	TSO-3114	TSO-3115	TSO-3116	TSO-3117
Date Collected	4/5/2006	4/5/2006	4/5/2006	4/5/2006
Be-7	< 0.46	< 0.44	< 0.39	< 0.67
K-40	14.64 ± 1.18	10.53 ± 0.90	19.32 ± 0.85	22.45 ± 1.48
Mn-54	< 0.024	< 0.035	< 0.027	< 0.054
Nb-95	< 0.096	< 0.053	< 0.073	< 0.077
Zr-95	< 0.060	< 0.098	< 0.048	< 0.12
Ru-103	< 0.041	< 0.039	< 0.043	< 0.089
Ru-106	< 0.37	< 0.29	< 0.24	< 0.41
Cs-134	< 0.046	< 0.045	< 0.041	< 0.072
Cs-137	< 0.096	< 0.031	0.22 ± 0.038	0.21 ± 0.051
Ce-141	< 0.094	< 0.11	< 0.10	< 0.15
Ce-144	< 0.14	< 0.20	< 0.11	< 0.29

Table 23. Treated surface water samples, analyses for gross beta.
 Collection: Monthly composites of weekly grab samples
 Units: pCi/L

Location	T-11 (C)			Mean± s.d.
Lab Code	TSWT-573	TSWT-1091	TSWT-2000	1st Quarter
Date Collected	01-31-06	02-28-06	03-28-06	
Gross beta	2.2 ± 0.6	2.6 ± 0.4	1.4 ± 0.4	2.1 ± 0.6
Lab Code	TSWT-2853	TSWT-3612	TSWT-4475	2nd Quarter
Date Collected	04-25-06	05-30-06	06-27-06	
Gross beta	2.3 ± 0.6	1.5 ± 0.4	1.9 ± 0.4	1.9 ± 0.4
Lab Code	TSWT-5289	TSWT-6140	TSWT-6712	3rd Quarter
Date Collected	07-25-06	08-29-06	09-26-06	
Gross beta	2.5 ± 0.6	1.7 ± 0.4	1.1 ± 0.3	1.8 ± 0.7
Lab Code	TSWT-8177	TSWT-8637	TSWT-9433	4th Quarter
Date Collected	10-31-06	11-28-06	12-26-06	
Gross beta	1.4 ± 0.6	1.3 ± 0.3	2.4 ± 0.6	1.7 ± 0.6
Location	T-12 (C)			Mean± s.d.
Lab Code	TSWT-574	TSWT-1092	TSWT-2001	1st Quarter
Date Collected	01-31-06	02-28-06	03-28-06	
Gross beta	2.8 ± 0.6	0.8 ± 0.3	1.3 ± 0.3	1.6 ± 1.0
Lab Code	TSWT-2854	TSWT-3613	TSWT-4476	2nd Quarter
Date Collected	04-25-06	05-30-06	06-27-06	
Gross beta	2.3 ± 0.5	1.4 ± 0.3	1.3 ± 0.3	1.7 ± 0.6
Lab Code	TSWT-5290	TSWT-6141	TSWT-6713	3rd Quarter
Date Collected	07-25-06	08-29-06	09-26-06	
Gross beta	2.7 ± 0.6	1.3 ± 0.3	1.7 ± 0.4	1.9 ± 0.7
Lab Code	TSWT-8178	TSWT-8638	TSWT-9434	4th Quarter
Date Collected	10-31-06	11-28-06	12-26-06	
Gross beta	2.2 ± 0.5	1.4 ± 0.3	3.1 ± 0.6	2.2 ± 0.9

Table 23. Treated surface water samples, analyses for gross beta.

Collection: Monthly composites of weekly grab samples
 Units: pCi/L

Location	T-22			Mean± s.d.
Lab Code	TSWT-575	TSWT-1093	TSWT-2002	1st Quarter
Date Collected	01-31-06	02-28-06	03-28-06	
Gross beta	2.7 ± 0.6	1.3 ± 0.3	2.1 ± 0.4	2.0 ± 0.7
Lab Code	TSWT-2855	TSWT-3614	TSWT-4477	2nd Quarter
Date Collected	04-25-06	05-30-06	06-27-06	
Gross beta	2.7 ± 0.6	1.7 ± 0.4	1.2 ± 0.3	1.9 ± 0.8
Lab Code	TSWT-5291	TSWT-6142	TSWT-6714	3rd Quarter
Date Collected	07-25-06	08-29-06	09-26-06	
Gross beta	2.4 ± 0.6	1.4 ± 0.3	1.1 ± 0.3	1.6 ± 0.7
Lab Code	TSWT-8179	TSWT-8639	TSWT-9435	4th Quarter
Date Collected	10-31-06	11-28-06	12-26-06	
Gross beta	1.7 ± 0.6	2.7 ± 0.4	4.3 ± 0.7	2.9 ± 1.3

Location	T-50			Mean± s.d.
Lab Code	TSWT-576	TSWT-1094	TSWT-2003	1st Quarter
Date Collected	01-31-06	02-28-06	03-28-06	
Gross beta	2.7 ± 0.6	1.2 ± 0.3	1.4 ± 0.4	1.8 ± 0.8
Lab Code	TSWT-2856	TSWT-3615	TSWT-4478	2nd Quarter
Date Collected	04-25-06	05-30-06	06-27-06	
Gross beta	2.2 ± 0.6	1.5 ± 0.4	1.3 ± 0.3	1.7 ± 0.5
Lab Code	TSWT-5292	TSWT-6143	TSWT-6715	3rd Quarter
Date Collected	07-25-06	08-29-06	09-26-06	
Gross beta	1.7 ± 0.6	1.6 ± 0.4	1.3 ± 0.3	1.5 ± 0.2
Lab Code	TSWT-8180	TSWT-8640	TSWT-9436, 7	4th Quarter
Date Collected	10-31-06	11-28-06	12-26-06	
Gross beta	1.8 ± 0.6	1.4 ± 0.4	2.3 ± 0.4	1.8 ± 0.5

Table 23. Treated surface water samples, analyses for gross beta.

Collection: Monthly composites of weekly grab samples

Units: pCi/L

Location	T-143 (QC)			Mean ± s.d.
Lab Code	T SWT-577, 8	T SWT-1095	T SWT-2004	1st Quarter
Date Collected	01-31-06	02-28-06	03-28-06	
Gross beta	3.4 ± 0.5	1.1 ± 0.3	1.8 ± 0.4	2.1 ± 1.2
Lab Code	T SWT-2857	T SWT-3616	T SWT-4479	2nd Quarter
Date Collected	04-25-06	05-30-06	06-27-06	
Gross beta	2.0 ± 0.6	1.6 ± 0.4	1.8 ± 0.6	1.8 ± 0.2
Lab Code	T SWT-5293	T SWT-6144	T SWT-6716	3rd Quarter
Date Collected	07-25-06	08-29-06	09-26-06	
Gross beta	1.1 ± 0.3	1.3 ± 0.3	1.5 ± 0.4	1.3 ± 0.2
Lab Code	T SWT-8181	T SWT-8641, 2	T SWT-9438	4th Quarter
Date Collected	10-31-06	11-28-06	12-26-06	
Gross beta	2.1 ± 0.6	2.9 ± 0.3	3.0 ± 0.6	2.7 ± 0.5

Table 24. Treated surface water samples, analyses for tritium, strontium-89, strontium-90 and gamma-emitting isotopes.
 Collection: Quarterly composites of weekly grab samples
 Units: pCi/L

Location	T-11 (C)				
Period Lab Code	1st Qtr. TSWT-2005	2nd Qtr. TSWT-4975	3rd Qtr. TSWT-7625	4th Qtr. TSWT-9504	<u>Req. LLD</u>
H-3	< 330	< 330	< 330	< 330	330
Sr-89	< 0.7	< 1.4	< 0.9	< 0.7	
Sr-90	< 0.5	< 0.5	< 0.5	< 0.5	
Mn-54	< 2.7	< 3.4	< 2.1	< 3.3	15
Fe-59	< 5.7	< 6.9	< 8.8	< 7.0	30
Co-58	< 3.2	< 5.4	< 2.4	< 4.5	15
Co-60	< 5.1	< 2.9	< 3.8	< 4.9	15
Zn-65	< 3.4	< 3.8	< 5.1	< 3.4	30
Zr-Nb-95	< 4.3	< 7.4	< 4.5	< 3.6	15
Cs-134	< 5.1	< 3.4	< 2.4	< 4.4	15
Cs-137	< 4.6	< 4.9	< 3.0	< 5.3	18
Ba-La-140	< 4.4	< 15.0	< 8.8	< 4.9	15

Location	T-12 (C)				
Period Lab Code	1st Qtr. TSWT-2006	2nd Qtr. TSWT-4976	3rd Qtr. TSWT-7626	4th Qtr. TSWT-9505	<u>Req. LLD</u>
H-3	< 330	< 330	< 330	< 330	330
Sr-89	< 0.8	< 1.0	< 0.8	< 0.8	
Sr-90	< 0.5	< 0.6	< 0.5	< 0.5	
Mn-54	< 6.3	< 6.1	< 1.9	< 2.6	15
Fe-59	< 18.1	< 12.7	< 5.7	< 9.8	30
Co-58	< 11.0	< 4.6	< 3.6	< 4.8	15
Co-60	< 6.8	< 3.0	< 2.6	< 5.1	15
Zn-65	< 16.6	< 6.6	< 8.1	< 5.1	30
Zr-Nb-95	< 12.1	< 7.2	< 3.6	< 6.1	15
Cs-134	< 6.3	< 5.4	< 3.0	< 5.0	15
Cs-137	< 7.8	< 2.8	< 3.2	< 5.2	18
Ba-La-140	< 13.6	< 13.7	< 6.6	< 9.3	15

Table 24. Treated surface water samples, analyses for tritium, strontium-89, strontium-90 and gamma-emitting isotopes.
 Collection: Quarterly composites of weekly grab samples.
 Units: pCi/L

Location	T-22				
Period Lab Code	TSWT-2007	2nd Qtr. TSWT-4977	3rd Qtr. TSWT-7627	4th Qtr. TSWT-9506	<u>Req. LLD</u>
H-3	< 330	< 330	< 330	< 330	330
Sr-89	< 0.6	< 1.0	< 1.0	< 0.7	
Sr-90	< 0.4	< 0.6	< 0.6	< 0.5	
Mn-54	< 2.2	< 4.2	< 1.9	< 3.1	15
Fe-59	< 5.7	< 7.5	< 6.2	< 8.7	30
Co-58	< 2.5	< 3.7	< 3.0	< 4.4	15
Co-60	< 1.7	< 2.8	< 2.2	< 5.7	15
Zn-65	< 4.0	< 2.3	< 3.1	< 4.0	30
Zr-Nb-95	< 3.5	< 8.0	< 3.6	< 6.6	15
Cs-134	< 1.4	< 2.8	< 2.1	< 3.5	15
Cs-137	< 2.1	< 3.7	< 1.8	< 6.2	18
Ba-La-140	< 8.2	< 12.7	< 6.6	< 5.6	15

Location	T-50				
Period Lab Code	1st Qtr. TSWT-2008	2nd Qtr. TSWT-4978	3rd Qtr. TSWT-7628	4th Qtr. TSWT-9507	<u>Req. LLD</u>
H-3	< 330	< 330	< 330	< 330	330
Sr-89	< 0.7	< 1.0	< 0.8	< 0.7	
Sr-90	< 0.4	< 0.6	< 0.5	< 0.4	
Mn-54	< 4.2	< 4.6	< 3.0	< 2.6	15
Fe-59	< 4.6	< 18.6	< 10.4	< 7.6	30
Co-58	< 2.8	< 2.0	< 4.8	< 4.3	15
Co-60	< 4.2	< 5.0	< 3.9	< 3.0	15
Zn-65	< 3.6	< 11.3	< 5.7	< 5.8	30
Zr-Nb-95	< 5.4	< 6.7	< 6.5	< 6.4	15
Cs-134	< 4.4	< 4.7	< 2.8	< 3.4	15
Cs-137	< 4.2	< 3.4	< 3.4	< 3.8	18
Ba-La-140	< 5.3	< 10.7	< 12.3	< 7.8	15

Table 25. Untreated surface water, analyses for gross beta, tritium and gamma emitting isotopes.

Location: T-3

Collection: Monthly composites of weekly grab samples

Units: pCi/L

Lab Code	TSWU-591	TSWU-1096	TSWU-2009	TSWU-2859	
Date Collected	1/31/2006	2/28/2006	3/28/2006	4/25/2006	Req. LLD
Gross beta	5.5 ± 0.8	3.1 ± 0.5	2.9 ± 0.5	2.5 ± 0.4	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 4.2	< 2.3	< 4.0	< 2.5	15
Fe-59	< 12.4	< 3.7	< 7.8	< 2.0	30
Co-58	< 4.4	< 1.4	< 4.0	< 2.3	15
Co-60	< 2.2	< 1.9	< 4.1	< 2.3	15
Zn-65	< 6.3	< 2.2	< 6.0	< 3.3	30
Zr-Nb-95	< 5.6	< 4.2	< 2.2	< 1.9	15
Cs-134	< 5.1	< 3.1	< 3.6	< 1.6	15
Cs-137	< 6.4	< 3.0	< 2.4	< 1.7	18
Ba-La-140	< 6.5	< 2.0	< 3.1	< 3.6	15
Lab Code	TSWU-3776	TSWU-4483	TSWU-5294	TSWU-6145	
Date Collected	5/30/2006	6/27/2006	7/25/2006	8/29/2006	
Gross beta	3.1 ± 0.5	2.3 ± 0.4	2.6 ± 0.4	2.3 ± 0.3	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 2.8	< 1.8	< 4.8	< 6.3	15
Fe-59	< 6.4	< 2.8	< 6.6	< 13.5	30
Co-58	< 3.1	< 2.2	< 3.4	< 5.0	15
Co-60	< 5.9	< 2.2	< 4.8	< 5.5	15
Zn-65	< 8.1	< 3.6	< 5.9	< 10.3	30
Zr-Nb-95	< 5.0	< 3.2	< 3.9	< 7.6	15
Cs-134	< 4.8	< 2.3	< 4.5	< 5.1	15
Cs-137	< 4.7	< 2.8	< 3.7	< 7.5	18
Ba-La-140	< 6.1	< 3.1	< 3.8	< 7.3	15
Lab Code	TSWU-6717	TSWU-8189	TSWU-8643	TSWU-9439	
Date Collected	9/26/2006	10/31/2006	11/28/2006	12/26/2006	
Gross beta	2.2 ± 0.4	2.2 ± 0.3	2.6 ± 0.4	3.4 ± 0.7	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 2.1	< 4.1	< 4.8	< 3.7	15
Fe-59	< 4.6	< 8.8	< 4.3	< 9.0	30
Co-58	< 3.2	< 4.8	< 3.4	< 4.1	15
Co-60	< 1.8	< 4.1	< 3.9	< 4.2	15
Zn-65	< 4.0	< 6.8	< 8.4	< 7.9	30
Zr-Nb-95	< 4.3	< 5.3	< 3.9	< 5.0	15
Cs-134	< 3.0	< 3.8	< 4.4	< 4.3	15
Cs-137	< 3.2	< 6.1	< 3.7	< 5.9	18
Ba-La-140	< 3.8	< 8.8	< 4.2	< 11.7	15

Table 25. Untreated surface water, analyses for gross beta, tritium and gamma emitting isotopes.

Location: T-11 (C)

Collection: Monthly composites of weekly grab samples

Units: pCi/L

Lab Code	TSWU-593	TSWU-1098	TSWU-2011	TSWU-2861	
Date Collected	1/31/2006	2/28/2006	3/28/2006	4/25/2006	Req. LLD
Gross beta	2.1 ± 0.4	2.2 ± 0.4	2.0 ± 0.4	2.5 ± 0.4	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 4.1	< 4.1	< 2.8	< 1.1	15
Fe-59	< 6.6	< 3.9	< 5.4	< 2.0	30
Co-58	< 4.8	< 4.3	< 2.8	< 1.0	15
Co-60	< 2.3	< 3.1	< 2.8	< 0.8	15
Zn-65	< 5.6	< 8.0	< 4.1	< 1.6	30
Zr-Nb-95	< 4.0	< 3.9	< 3.2	< 1.3	15
Cs-134	< 4.2	< 2.0	< 1.6	< 0.9	15
Cs-137	< 3.7	< 3.7	< 2.6	< 1.0	18
Ba-La-140	< 4.5	< 7.0	< 7.9	< 2.1	15
Lab Code	TSWU-3778	TSWU-4485	TSWU-5296	TSWU-6147	
Date Collected	5/30/2006	6/27/2006	7/25/2006	8/29/2006	
Gross beta	2.5 ± 0.4	2.3 ± 0.4	1.6 ± 0.4	1.9 ± 0.3	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 5.1	< 4.7	< 3.1	< 1.7	15
Fe-59	< 7.9	< 6.5	< 8.2	< 2.0	30
Co-58	< 4.0	< 3.3	< 2.7	< 2.2	15
Co-60	< 4.2	< 2.5	< 3.6	< 1.6	15
Zn-65	< 7.2	< 7.8	< 6.1	< 5.3	30
Zr-Nb-95	< 9.2	< 5.8	< 5.0	< 3.6	15
Cs-134	< 2.4	< 3.4	< 3.9	< 2.4	15
Cs-137	< 5.9	< 4.5	< 3.0	< 1.7	18
Ba-La-140	< 5.2	< 9.3	< 3.9	< 5.0	15
Lab Code	TSWU-6720	TSWU-8191	TSWU-8645	TSWU-9441	
Date Collected	9/26/2006	10/31/2006	11/28/2006	12/26/2006	
Gross beta	1.3 ± 0.3	1.4 ± 0.3	2.1 ± 0.4	3.3 ± 0.7	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 2.0	< 6.7	< 2.7	< 2.5	15
Fe-59	< 2.0	< 5.1	< 5.7	< 6.7	30
Co-58	< 1.7	< 3.8	< 3.2	< 3.6	15
Co-60	< 1.6	< 5.3	< 2.8	< 5.2	15
Zn-65	< 4.2	< 4.0	< 3.7	< 10.0	30
Zr-Nb-95	< 3.7	< 5.6	< 2.7	< 10.4	15
Cs-134	< 2.3	< 5.9	< 3.2	< 2.6	15
Cs-137	< 2.4	< 5.5	< 3.9	< 4.1	18
Ba-La-140	< 2.8	< 11.5	< 1.8	< 7.7	15

Table 25. Untreated surface water, analyses for gross beta, tritium and gamma emitting isotopes.

Location: T-12 (C)

Collection: Monthly composites of weekly grab samples

Units: pCi/L

Lab Code	TSWU-594	TSWU-1099	TSWU-2012	TSWU-2862	
Date Collected	1/31/2006	2/28/2006	3/28/2006	4/25/2006	Req. LLD
Gross beta	4.3 ± 0.5	1.5 ± 0.4	1.7 ± 0.4	1.7 ± 0.4	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 2.7	< 4.3	< 5.5	< 2.6	15
Fe-59	< 10.4	< 13.7	< 5.9	< 5.5	30
Co-58	< 2.9	< 7.7	< 5.4	< 1.7	15
Co-60	< 3.5	< 5.1	< 3.5	< 1.7	15
Zn-65	< 4.7	< 8.7	< 4.7	< 1.6	30
Zr-Nb-95	< 7.0	< 4.0	< 4.4	< 2.2	15
Cs-134	< 3.8	< 5.7	< 5.8	< 2.4	15
Cs-137	< 5.2	< 4.3	< 5.3	< 3.2	18
Ba-La-140	< 6.9	< 5.7	< 4.7	< 2.5	15
Lab Code	TSWU-3779	TSWU-4486	TSWU-5297	TSWU-6148	
Date Collected	5/30/2006	6/27/2006	7/25/2006	8/29/2006	
Gross beta	2.4 ± 0.4	1.9 ± 0.4	2.9 ± 0.6	1.9 ± 0.3	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 4.0	< 2.3	< 1.2	< 2.9	15
Fe-59	< 8.0	< 4.0	< 4.1	< 5.2	30
Co-58	< 3.0	< 2.2	< 2.0	< 2.4	15
Co-60	< 2.8	< 1.7	< 1.4	< 2.5	15
Zn-65	< 6.1	< 1.7	< 4.7	< 3.4	30
Zr-Nb-95	< 4.3	< 1.6	< 2.4	< 4.0	15
Cs-134	< 2.8	< 1.9	< 3.3	< 3.0	15
Cs-137	< 3.8	< 2.7	< 4.0	< 2.8	18
Ba-La-140	< 3.2	< 2.8	< 5.7	< 5.6	15
Lab Code	TSWU-6721	TSWU-8192	TSWU-8646	TSWU-9442	
Date Collected	9/26/2006	10/31/2006	11/28/2006	12/26/2006	
Gross beta	1.5 ± 0.4	1.7 ± 0.3	1.8 ± 0.4	3.7 ± 0.7	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 2.4	< 4.1	< 3.4	< 1.7	15
Fe-59	< 3.4	< 10.9	< 3.1	< 8.4	30
Co-58	< 5.8	< 4.3	< 2.2	< 3.1	15
Co-60	< 1.9	< 5.9	< 2.0	< 2.7	15
Zn-65	< 3.4	< 10.8	< 3.3	< 3.1	30
Zr-Nb-95	< 5.2	< 6.8	< 3.7	< 4.0	15
Cs-134	< 3.9	< 4.1	< 3.0	< 2.9	15
Cs-137	< 4.6	< 4.9	< 3.4	< 3.9	18
Ba-La-140	< 7.0	< 8.4	< 4.4	< 3.4	15

Table 25. Untreated surface water, analyses for gross beta, tritium and gamma emitting isotopes.

Location: T-22

Collection: Monthly composites of weekly grab samples

Units: pCi/L

Lab Code Date Collected	TSWU-596 1/31/2006	TSWU-1101 2/28/2006	TSWU-2014 3/28/2006	TSWU-2865 4/25/2006	Req. LLD
Gross beta	2.6 ± 0.4	3.1 ± 0.5	2.3 ± 0.4	1.9 ± 0.4	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 4.3	< 5.1	< 5.7	< 1.5	15
Fe-59	< 8.6	< 6.4	< 10.9	< 4.8	30
Co-58	< 2.9	< 4.0	< 3.5	< 2.3	15
Co-60	< 2.7	< 4.6	< 4.5	< 1.8	15
Zn-65	< 7.8	< 5.4	< 8.5	< 4.6	30
Zr-Nb-95	< 5.8	< 4.4	< 4.0	< 3.0	15
Cs-134	< 4.1	< 6.8	< 4.6	< 3.2	15
Cs-137	< 3.1	< 5.2	< 5.8	< 2.2	18
Ba-La-140	< 5.0	< 3.5	< 5.5	< 4.4	15
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Lab Code Date Collected	TSWU-3781 5/30/2006	TSWU-4488 6/27/2006	TSWU-5299 7/25/2006	TSWU-6150, 1 8/29/2006	
Gross beta	2.1 ± 0.4	1.8 ± 0.4	2.8 ± 0.6	1.8 ± 0.3	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 2.8	< 2.1	< 2.5	< 2.5	15
Fe-59	< 7.1	< 5.6	< 6.2	< 3.2	30
Co-58	< 2.6	< 2.5	< 2.5	< 2.0	15
Co-60	< 1.9	< 2.1	< 2.1	< 1.1	15
Zn-65	< 2.3	< 2.8	< 2.8	< 3.8	30
Zr-Nb-95	< 3.8	< 4.6	< 4.6	< 3.2	15
Cs-134	< 2.6	< 2.3	< 3.9	< 2.3	15
Cs-137	< 2.3	< 2.1	< 3.7	< 2.1	18
Ba-La-140	< 2.9	< 4.5	< 5.1	< 3.0	15
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Lab Code Date Collected	TSWU-6723 9/26/2006	TSWU-8194, 5 10/31/2006	TSWU-8648 11/28/2006	TSWU-9444 12/26/2006	
Gross beta	1.1 ± 0.3	1.6 ± 0.2	3.6 ± 0.5	5.1 ± 0.7	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 2.8	< 1.6	< 3.1	< 2.7	15
Fe-59	< 2.7	< 4.5	< 4.7	< 8.4	30
Co-58	< 2.0	< 2.0	< 1.7	< 5.8	15
Co-60	< 2.1	< 2.5	< 2.3	< 4.4	15
Zn-65	< 4.6	< 4.0	< 3.0	< 10.9	30
Zr-Nb-95	< 3.6	< 2.2	< 3.1	< 6.3	15
Cs-134	< 2.4	< 2.6	< 3.0	< 4.8	15
Cs-137	< 3.0	< 2.0	< 2.7	< 3.9	18
Ba-La-140	< 3.3	< 2.7	< 3.9	< 10.7	15

Table 25. Untreated surface water, analyses for gross beta, tritium and gamma emitting isotopes.

Location: T-50

Collection: Monthly composites of weekly grab samples

Units: pCi/L

Lab Code	TSWU-597	TSWU-1102, 3	TSWU-2015	TSWU-2866	
Date Collected	1/31/2006	2/28/2006	3/28/2006	4/25/2006	Req. LLD
Gross beta	2.4 ± 0.4	1.6 ± 0.3	1.6 ± 0.4	1.8 ± 0.4	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 3.2	< 3.4	< 2.6	< 3.3	15
Fe-59	< 4.7	< 5.0	< 4.6	< 4.5	30
Co-58	< 2.5	< 2.4	< 2.7	< 1.5	15
Co-60	< 2.8	< 2.4	< 2.6	< 1.9	15
Zn-65	< 6.0	< 2.4	< 2.9	< 5.2	30
Zr-Nb-95	< 4.7	< 2.4	< 4.1	< 4.3	15
Cs-134	< 4.6	< 2.4	< 3.9	< 2.8	15
Cs-137	< 4.3	< 2.7	< 4.4	< 3.2	18
Ba-La-140	< 3.9	< 2.1	< 2.4	< 3.6	15
Lab Code	TSWU-3782	TSWU-4489, 90	TSWU-5300	TSWU-6152	
Date Collected	5/30/2006	6/27/2006	7/25/2006	8/29/2006	
Gross beta	1.7 ± 0.4	1.8 ± 0.3	2.4 ± 0.6	2.0 ± 0.3	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 4.3	< 1.6	< 3.7	< 4.3	15
Fe-59	< 6.0	< 2.1	< 4.8	< 9.6	30
Co-58	< 4.6	< 1.4	< 3.3	< 3.4	15
Co-60	< 3.2	< 1.4	< 3.6	< 4.8	15
Zn-65	< 6.6	< 2.8	< 5.8	< 4.2	30
Zr-Nb-95	< 5.8	< 1.5	< 4.7	< 4.9	15
Cs-134	< 5.2	< 1.4	< 3.4	< 4.3	15
Cs-137	< 4.8	< 1.4	< 3.9	< 6.0	18
Ba-La-140	< 5.3	< 1.1	< 2.2	< 3.8	15
Lab Code	TSWU-6724	TSWU-8196	TSWU-8649	TSWU-9445	
Date Collected	9/26/2006	10/31/2006	11/28/2006	12/26/2006	
Gross beta	1.5 ± 0.4	1.6 ± 0.3	2.2 ± 0.4	1.9 ± 0.4	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 3.2	< 4.1	< 4.5	< 3.0	15
Fe-59	< 4.4	< 3.8	< 8.2	< 9.5	30
Co-58	< 3.4	< 7.6	< 4.5	< 3.8	15
Co-60	< 2.5	< 6.1	< 4.9	< 5.7	15
Zn-65	< 2.8	< 5.2	< 8.7	< 6.1	30
Zr-Nb-95	< 3.5	< 4.7	< 4.8	< 6.2	15
Cs-134	< 3.8	< 4.3	< 4.7	< 2.8	15
Cs-137	< 2.3	< 5.7	< 3.6	< 3.5	18
Ba-La-140	< 2.0	< 13.1	< 2.5	< 6.4	15

Table 25. Untreated surface water, analyses for gross beta, tritium and gamma emitting isotopes.

Location: T-145 (QC)

Collection: Monthly composites of weekly grab samples

Units: pCi/L

Lab Code	TSWU-598, 9	TSWU-1104	TSWU-2016	TSWU-2867	
Date Collected	1/31/2006	2/28/2006	3/28/2006	4/25/2006	Req. LLD
Gross beta	2.0 ± 0.3	4.7 ± 0.8 ^a	2.3 ± 0.4	2.8 ± 0.6	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 1.8	< 3.9	< 4.7	< 2.7	15
Fe-59	< 4.9	< 3.4	< 10.2	< 5.3	30
Co-58	< 2.3	< 3.1	< 3.3	< 1.6	15
Co-60	< 2.8	< 2.7	< 4.5	< 0.9	15
Zn-65	< 3.2	< 3.5	< 10.6	< 3.5	30
Zr-Nb-95	< 3.8	< 3.8	< 5.9	< 3.6	15
Cs-134	< 3.5	< 4.4	< 4.9	< 1.9	15
Cs-137	< 2.7	< 3.9	< 6.3	< 2.6	18
Ba-La-140	< 4.2	< 3.7	< 5.6	< 2.8	15
Lab Code	TSWU-3783	TSWU-4491	TSWU-5301	TSWU-6153	
Date Collected	5/30/2006	6/27/2006	7/25/2006	8/29/2006	
Gross beta	3.4 ± 0.5	1.9 ± 0.4	1.8 ± 0.4	2.4 ± 0.4	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 4.5	< 2.9	< 5.4	< 5.5	15
Fe-59	< 9.7	< 5.3	< 10.0	< 4.3	30
Co-58	< 4.3	< 1.2	< 4.1	< 2.8	15
Co-60	< 5.4	< 2.1	< 5.5	< 4.7	15
Zn-65	< 3.8	< 4.0	< 3.6	< 4.8	30
Zr-Nb-95	< 7.0	< 4.3	< 7.3	< 3.9	15
Cs-134	< 5.3	< 2.4	< 5.2	< 3.4	15
Cs-137	< 2.4	< 3.3	< 3.4	< 5.2	18
Ba-La-140	< 9.4	< 2.7	< 6.6	< 4.7	15
Lab Code	TSWU-6725	TSWU-8197	TSWU-8650	TSWU-9446	
Date Collected	9/26/2006	10/31/2006	11/28/2006	12/26/2006	
Gross beta	2.1 ± 0.4	1.5 ± 0.3	3.2 ± 0.7	2.8 ± 0.4	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 4.4	< 4.6	< 2.3	< 5.8	15
Fe-59	< 6.5	< 9.7	< 9.7	< 6.6	30
Co-58	< 2.4	< 4.4	< 2.5	< 6.6	15
Co-60	< 2.1	< 7.2	< 4.5	< 4.3	15
Zn-65	< 3.4	< 8.4	< 7.2	< 5.4	30
Zr-Nb-95	< 3.4	< 6.3	< 5.2	< 9.6	15
Cs-134	< 2.9	< 5.8	< 4.0	< 2.2	15
Cs-137	< 3.8	< 5.5	< 3.4	< 2.8	18
Ba-La-140	< 2.2	< 6.2	< 3.5	< 7.2	15

^a Result of reanalysis.

Table 26. Untreated surface water samples, analyses for strontium-89 and strontium-90.

Collection: Quarterly composites of weekly grab samples

Units: pCi/L

Location		T-3			
Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	
Lab Code	TSWU-2220	TSWU-4681	TSWU-7429	TSWU-9592	
Sr-89	< 0.6	< 0.8	< 0.7	< 0.7	
Sr-90	< 0.5	< 0.5	< 0.5	< 0.4	

Location		T-11 (C)			
Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	
Lab Code	TSWU-2221	TSWU-4979	TSWU-7430	TSWU-9593	
Sr-89	< 0.7	< 0.8	< 0.8	< 0.7	
Sr-90	< 0.5	< 0.5	< 0.5	< 0.6	

Location		T-12 (C)			
Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	
Lab Code	TSWU-2222	TSWU-4682	TSWU-7431	TSWU-9594	
Sr-89	< 0.7	< 0.7	< 0.7	< 0.9	
Sr-90	< 0.5	< 0.5	< 0.4	< 0.6	

Location		T-22			
Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	
Lab Code	TSWU-2223	TSWU-4683	TSWU-7432	TSWU-9595	
Sr-89	< 0.5	< 1.0	< 1.1	< 0.6	
Sr-90	< 0.5	< 0.4	< 0.7	< 0.5	

Location		T-50			
Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	
Lab Code	TSWU-2224	TSWU-4684	TSWU-7433	TSWU-9596	
Sr-89	< 0.6	< 0.8	< 1.0	< 0.7	
Sr-90	< 0.4	0.5 ± 0.3	< 0.6	< 0.4	

Table 28. Fish samples, analyses for gross beta and gamma-emitting isotopes.

Collection: Annually

Units: pCi/g wet

Location	T-33 (Lake Erie, 1.5 mi. NE of Station)		
Lab Code	TF-3307	TF-3308	TF-3309
Date Collected	5/4/2006	5/4/2006	4/26/2006
Sample Type	Carp	White Bass / Perch	Walleye
Gross Beta	3.61 ± 0.08	4.10 ± 0.19	3.99 ± 0.12
K-40	3.28 ± 0.49	2.74 ± 0.40	3.75 ± 0.53
Mn-54	< 0.024	< 0.011	< 0.017
Fe-59	< 0.061	< 0.019	< 0.041
Co-58	< 0.024	< 0.016	< 0.021
Co-60	< 0.027	< 0.013	< 0.027
Zn-65	< 0.044	< 0.022	< 0.031
Cs-134	< 0.022	< 0.019	< 0.050
Cs-137	< 0.020	< 0.017	< 0.012

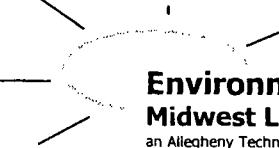
Location	T-35		
Lab Code	TF-3310	TF-3311, 12	TF-3313
Date Collected	5/11/2006	2/9/2006	2/9/2006
Sample Type	Carp	White Bass / Perch	Walleye
Gross Beta	3.39 ± 0.08	3.97 ± 0.10	2.16 ± 0.07
K-40	2.99 ± 0.38	2.72 ± 0.27	2.97 ± 0.47
Mn-54	< 0.016	< 0.023	< 0.029
Fe-59	< 0.027	< 0.11	< 0.23
Co-58	< 0.012	< 0.027	< 0.050
Co-60	< 0.016	< 0.015	< 0.017
Zn-65	< 0.018	< 0.032	< 0.034
Cs-134	< 0.013	< 0.018	< 0.021
Cs-137	< 0.013	< 0.014	< 0.020

Table 29. Shoreline sediment samples, analyses for gamma-emitting isotopes.

Collection: Semiannually

Units: pCi/g dry

Location	T-3	T-4	T-4P	T-27B	T-132
Lab Code	TSS-4024	TSS-4025	TSS-4026	TSS-4027	TSS-4028
Date Collected	6/13/2006	6/13/2006	6/13/2006	6/13/2006	6/13/2006
K-40	8.95 ± 0.66	10.57 ± 0.89	14.44 ± 0.97	9.31 ± 0.69	12.93 ± 0.84
Mn-54	< 0.009	< 0.013	< 0.021	< 0.026	< 0.013
Co-58	< 0.010	< 0.010	< 0.008	< 0.015	< 0.022
Co-60	< 0.009	< 0.015	< 0.018	< 0.014	< 0.019
Cs-134	< 0.010	< 0.026	< 0.029	< 0.020	< 0.020
Cs-137	< 0.012	< 0.019	< 0.019	< 0.023	< 0.020
Lab Code	TSS-8667	TSS-8668	TSS-8669	TSS-8670	TSS-8671
Date Collected	11/22/2006	11/22/2006	11/22/2006	11/22/2006	11/22/2006
K-40	11.89 ± 0.59	12.56 ± 0.81	22.02 ± 1.07	10.13 ± 0.54	6.73 ± 0.59
Mn-54	< 0.012	< 0.021	< 0.037	< 0.018	< 0.020
Co-58	< 0.013	< 0.023	< 0.023	< 0.016	< 0.022
Co-60	< 0.014	< 0.019	< 0.016	< 0.011	< 0.013
Cs-134	< 0.011	< 0.034	< 0.020	< 0.018	< 0.027
Cs-137	< 0.012	< 0.019	< 0.032	< 0.013	< 0.019



Environmental, Inc.
Midwest Laboratory
an Allegheny Technologies Co.

700 Landwehr Road • Northbrook, IL 60062-2310
ph. (847) 564-0700 • fax (847) 564-4517

APPENDIX A

INTERLABORATORY COMPARISON PROGRAM RESULTS

NOTE: Environmental Inc., Midwest Laboratory participates in intercomparison studies administered by Environmental Resources Associates, and serves as a replacement for studies conducted previously by the U.S. EPA Environmental Monitoring Systems Laboratory, Las Vegas, Nevada. Results are reported in Appendix A. TLD Intercomparison results, in-house spikes, blanks, duplicates and mixed analyte performance evaluation program results are also reported. Appendix A is updated four times a year; the complete Appendix is included in March, June, September and December monthly progress reports only.

January, 2006 through December, 2006

Appendix A
Interlaboratory Comparison Program Results

Environmental, Inc., Midwest Laboratory has participated in interlaboratory comparison (crosscheck) programs since the formulation of its quality control program in December 1971. These programs are operated by agencies which supply environmental type samples containing concentrations of radionuclides known to the issuing agency but not to participant laboratories. The purpose of such a program is to provide an independent check on a laboratory's analytical procedures and to alert it of any possible problems.

Participant laboratories measure the concentration of specified radionuclides and report them to the issuing agency. Several months later, the agency reports the known values to the participant laboratories and specifies control limits. Results consistently higher or lower than the known values or outside the control limits indicate a need to check the instruments or procedures used.

Results in Table A-1 were obtained through participation in the environmental sample crosscheck program administered by Environmental Resources Associates, serving as a replacement for studies conducted previously by the U.S. EPA Environmental Monitoring Systems Laboratory, Las Vegas, Nevada.

The results in Table A-2 list results for thermoluminescent dosimeters (TLDs), via International Intercomparison of Environmental Dosimeters, when available, and internal laboratory testing.

Table A-3 lists results of the analyses on in-house "spiked" samples for the past twelve months. All samples are prepared using NIST traceable sources. Data for previous years available upon request.

Table A-4 lists results of the analyses on in-house "blank" samples for the past twelve months. Data for previous years available upon request.

Table A-5 list results of the in-house "duplicate" program for the past twelve months. Acceptance is based on the difference of the results being less than the sum of the errors. Data for previous years available upon request.

The results in Table A-6 were obtained through participation in the Mixed Analyte Performance Evaluation Program.

Attachment A lists acceptance criteria for "spiked" samples.

Out-of-limit results are explained directly below the result.

Attachment A

ACCEPTANCE CRITERIA FOR "SPIKED" SAMPLES

LABORATORY PRECISION: ONE STANDARD DEVIATION VALUES FOR VARIOUS ANALYSES^a

Analysis	Level	One standard deviation for single determination
Gamma Emitters	5 to 100 pCi/liter or kg > 100 pCi/liter or kg	5.0 pCi/liter 5% of known value
Strontium-89 ^b	5 to 50 pCi/liter or kg > 50 pCi/liter or kg	5.0 pCi/liter 10% of known value
Strontium-90 ^b	2 to 30 pCi/liter or kg > 30 pCi/liter or kg	5.0 pCi/liter 10% of known value
Potassium-40	≥ 0.1 g/liter or kg	5% of known value
Gross alpha	≤ 20 pCi/liter > 20 pCi/liter	5.0 pCi/liter 25% of known value
Gross beta	≤ 100 pCi/liter > 100 pCi/liter	5.0 pCi/liter 5% of known value
Tritium	≤ 4,000 pCi/liter > 4,000 pCi/liter	± 1σ = (pCi/liter) = 169.85 x (known) ^{0.0933} 10% of known value
Radium-226,-228	≥ 0.1 pCi/liter	15% of known value
Plutonium	≥ 0.1 pCi/liter, gram, or sample	10% of known value
Iodine-131, Iodine-129 ^b	≤ 55 pCi/liter > 55 pCi/liter	6.0 pCi/liter 10% of known value
Uranium-238, Nickel-63 ^b	≤ 35 pCi/liter > 35 pCi/liter	6.0 pCi/liter 15% of known value
Technetium-99 ^b		
Iron-55 ^b	50 to 100 pCi/liter > 100 pCi/liter	10 pCi/liter 10% of known value
Others ^b	--	20% of known value

^a From EPA publication, "Environmental Radioactivity Laboratory Intercomparison Studies Program, Fiscal Year, 1981-1982, EPA-600/4-81-004.

^b Laboratory limit.

TABLE A-1. Interlaboratory Comparison Crosscheck program, Environmental Resource Associates (ERA)^a.

Lab Code	Date	Analysis	Concentration (pCi/L)			
			Laboratory Result ^b	ERA Result ^c	Control Limits	Acceptance
STW-1078	01/16/06	Sr-89	49.9 ± 3.5	50.2	41.5 - 58.9	Pass
STW-1078	01/16/06	Sr-90	31.5 ± 1.5	30.7	22.0 - 39.4	Pass
STW-1079	01/16/06	Ba-133	86.5 ± 4.1	95.0	78.6 - 111.0	Pass
STW-1079	01/16/06	Co-60	96.3 ± 4.1	95.3	86.6 - 104.0	Pass
STW-1079	01/16/06	Cs-134	22.6 ± 3.0	23.1	14.4 - 31.8	Pass
STW-1079	01/16/06	Cs-137	109.0 ± 5.9	111.0	101.0 - 121.0	Pass
STW-1079	01/16/06	Zn-65	198.0 ± 11.2	192.0	159.0 - 225.0	Pass
STW-1080	01/16/06	Gr. Alpha	10.8 ± 1.4	9.6	1.0 - 18.3	Pass
STW-1080	01/16/06	Gr. Beta	56.9 ± 1.9	61.9	44.6 - 79.2	Pass
STW-1081	01/16/06	Ra-226	4.3 ± 0.4	4.6	3.4 - 5.8	Pass
STW-1081	01/16/06	Ra-228	7.1 ± 1.8	6.6	3.7 - 9.5	Pass
STW-1081	01/16/06	Uranium	20.7 ± 0.5	22.1	16.9 - 27.3	Pass
STW-1088	04/10/06	Sr-89	29.0 ± 1.8	32.4	23.7 - 41.1	Pass
STW-1088	04/10/06	Sr-90	8.7 ± 1.0	9.0	0.3 - 17.7	Pass
STW-1089	04/10/06	Ba-133	10.3 ± 0.4	10.0	1.3 - 18.7	Pass
STW-1089	04/10/06	Co-60	114.0 ± 2.8	113.0	103.0 - 123.0	Pass
STW-1089	04/10/06	Cs-134	41.9 ± 1.4	43.4	34.7 - 52.1	Pass
STW-1089	04/10/06	Cs-137	208.0 ± 1.1	214.0	195.0 - 233.0	Pass
STW-1089	04/10/06	Zn-65	154.0 ± 0.8	152.0	126.0 - 178.0	Pass
STW-1090	04/10/06	Gr. Alpha	13.4 ± 1.1	21.3	12.1 - 30.5	Pass
STW-1090	04/10/06	Gr. Beta	27.7 ± 2.1	23.0	14.3 - 31.7	Pass
STW-1091	04/10/06	I-131	22.0 ± 0.3	19.1	13.9 - 24.3	Pass
STW-1092	04/10/06	H-3	7960.0 ± 57.0	8130.0	6720.0 - 9540.0	Pass
STW-1092	04/10/06	Ra-226	2.9 ± 0.4	3.0	2.2 - 3.8	Pass
STW-1092	04/10/06	Ra-228	20.9 ± 1.2	19.1	10.8 - 27.4	Pass
STW-1092	04/10/06	Uranium	68.6 ± 3.4	69.1	57.1 - 81.1	Pass
STW-1094	07/10/06	Sr-89	15.9 ± 0.7	19.7	11.0 - 28.4	Pass
STW-1094	07/10/06	Sr-90	24.3 ± 0.4	25.9	17.2 - 34.6	Pass
STW-1095	07/10/06	Ba-133	94.9 ± 8.9	88.1	72.9 - 103.0	Pass
STW-1095	07/10/06	Co-60	104.0 ± 1.8	99.7	91.0 - 108.0	Pass
STW-1095	07/10/06	Cs-134	48.7 ± 1.3	54.1	45.4 - 62.8	Pass
STW-1095	07/10/06	Cs-137	236.0 ± 3.0	238.0	217.0 - 259.0	Pass
STW-1095	07/10/06	Zn-65	126.0 ± 8.0	121.0	100.0 - 142.0	Pass
STW-1096	07/10/06	Gr. Alpha	10.9 ± 1.0	10.0	1.3 - 18.6	Pass
STW-1096	07/10/06	Gr. Beta	9.7 ± 0.4	8.9	0.2 - 17.5	Pass
STW-1097	07/10/06	Ra-226	11.0 ± 0.5	10.7	7.9 - 13.5	Pass
STW-1097	07/10/06	Ra-228	12.2 ± 0.8	10.7	6.1 - 15.3	Pass
STW-1097	07/10/06	Uranium	43.4 ± 0.1	40.3	33.3 - 47.3	Pass

TABLE A-1. Interlaboratory Comparison Crosscheck program, Environmental Resource Associates (ERA)^a.

Lab Code	Date	Analysis	Concentration (pCi/L)			
			Laboratory Result ^b	ERA Result ^c	Control Limits	Acceptance
STW-1104	10/06/06	Sr-89	38.4 ± 1.3	39.9	31.2 - 45.7	Pass
STW-1104	10/06/06	Sr-90	15.5 ± 0.5	16.0	7.3 - 24.7	Pass
STW-1105	10/06/06	Ba-133	64.9 ± 2.8	70.2	58.1 - 82.3	Pass
STW-1105	10/06/06	Co-60	61.6 ± 1.0	62.3	53.6 - 71.0	Pass
STW-1105	10/06/06	Cs-134	29.0 ± 0.9	29.9	21.2 - 38.6	Pass
STW-1105	10/06/06	Cs-137	77.8 ± 2.4	78.2	69.5 - 86.9	Pass
STW-1105	10/06/06	Zn-65	293.0 ± 2.4	277.0	229.0 - 325.0	Pass
STW-1106	10/06/06	Gr. Alpha	23.9 ± 2.5	28.7	16.3 - 41.1	Pass
STW-1106	10/06/06	Gr. Beta	23.7 ± 1.4	20.9	12.2 - 29.6	Pass
STW-1107 ^d	10/06/06	I-131	28.4 ± 1.2	22.1	16.9 - 27.3	Fail
STW-1108	10/06/06	Ra-226	14.5 ± 0.5	14.4	10.7 - 18.1	Pass
STW-1108	10/06/06	Ra-228	6.6 ± 0.4	5.9	3.3 - 8.4	Pass
STW-1108	10/06/06	Uranium	2.9 ± 0.1	3.2	0.0 - 8.4	Pass
STW-1109	10/06/06	H-3	3000.0 ± 142.0	3050.0	2430.0 - 3670.0	Pass

^a Results obtained by Environmental, Inc., Midwest Laboratory as a participant in the crosscheck program for proficiency testing in drinking water conducted by Environmental Resources Associates (ERA).

^b Unless otherwise indicated, the laboratory result is given as the mean ± standard deviation for three determinations.

^c Results are presented as the known values, expected laboratory precision (1 sigma, 1 determination) and control limits as provided by ERA.

^d The reported result was an average of three analyses, results ranged from 25.36 to 29.23 pCi/L.

A fourth analysis was performed, result of analysis, 24.89 pCi/L.

TABLE A-2. Crosscheck program results; Thermoluminescent Dosimetry, (TLD, CaSO₄: Dy Cards).

Lab Code	Date	Description	Known Value	mR	Control Limits	Acceptance
				Lab Result ± 2 sigma		
<u>Environmental, Inc.</u>						
2006-1	6/5/2006	30 cm	54.81	70.73 ± 0.69	38.37 - 71.25	Pass
2006-1	6/5/2006	60 cm	13.70	16.71 ± 1.89	9.59 - 17.81	Pass
2006-1	6/5/2006	60 cm	13.70	16.69 ± 0.94	9.59 - 17.81	Pass
2006-1	6/5/2006	90 cm	6.09	6.57 ± 0.82	4.26 - 7.92	Pass
2006-1	6/5/2006	120 cm	3.43	3.65 ± 0.22	2.40 - 4.46	Pass
2006-1	6/5/2006	120 cm	3.43	3.09 ± 0.33	2.40 - 4.46	Pass
2006-1	6/5/2006	150 cm	2.19	2.35 ± 0.38	1.53 - 2.85	Pass
2006-1	6/5/2006	150 cm	2.19	1.98 ± 0.10	1.53 - 2.85	Pass
2006-1	6/5/2006	180 cm	1.52	1.56 ± 0.26	1.06 - 1.98	Pass
<u>Environmental, Inc.</u>						
2006-2	11/6/2006	30 cm.	55.61	60.79 ± 1.32	38.93 - 72.29	Pass
2006-2	11/6/2006	40 cm.	31.28	35.93 ± 3.70	21.90 - 40.66	Pass
2006-2	11/6/2006	50 cm.	20.02	21.55 ± 1.20	14.01 - 26.03	Pass
2006-2	11/6/2006	60 cm.	13.90	14.90 ± 1.42	9.73 - 18.07	Pass
2006-2	11/6/2006	75 cm.	8.90	8.03 ± 0.51	6.23 - 11.57	Pass
2006-2	11/6/2006	90 cm.	6.18	6.88 ± 0.68	4.33 - 8.03	Pass
2006-2	11/6/2006	120 cm.	3.48	2.90 ± 0.20	2.44 - 4.52	Pass
2006-2	11/6/2006	150 cm.	2.22	1.99 ± 0.07	1.55 - 2.89	Pass
2006-2	11/6/2006	180 cm.	1.54	1.79 ± 0.94	1.08 - 2.00	Pass

TABLE A-3. In-House "Spike" Samples

Lab Code ^b	Date	Analysis	Concentration (pCi/L) ^a			Acceptance
			Laboratory results 2s, n=1 ^c	Known Activity	Control Limits ^d	
SPW-301	1/20/2006	Fe-55	2700.10 ± 70.00	2502.50	2002.00 - 3003.00	Pass
SPAP-1224	3/7/2006	Cs-134	37.13 ± 3.70	39.52	29.52 - 49.52	Pass
SPAP-1224	3/7/2006	Cs-137	118.25 ± 8.97	119.30	107.37 - 131.23	Pass
SPAP-1224	3/7/2006	Gr. Beta	520.32 ± 7.42	455.00	364.00 - 637.00	Pass
SPW-1228	3/7/2006	H-3	70891.00 ± 719.00	75394.00	60315.20 - 90472.80	Pass
SPW-1230	3/7/2006	Cs-134	38.58 ± 2.10	39.51	29.51 - 49.51	Pass
SPW-1230	3/7/2006	Cs-137	59.44 ± 4.51	59.65	49.65 - 69.65	Pass
SPMI-1232	3/7/2006	Cs-134	41.20 ± 1.33	39.51	29.51 - 49.51	Pass
SPMI-1232	3/7/2006	Cs-137	57.82 ± 3.96	59.65	49.65 - 69.65	Pass
W-30906	3/9/2006	Gr. Alpha	24.24 ± 0.47	20.08	10.04 - 30.12	Pass
W-30906	3/9/2006	Gr. Beta	63.79 ± 0.48	65.73	55.73 - 75.73	Pass
SPW-2750	4/27/2006	Ni-63	116.00 ± 2.49	100.00	60.00 - 140.00	Pass
SPW-2869	5/1/2006	Fe-55	19473.00 ± 188.00	23332.00	18665.60 - 27998.40	Pass
SPAP-2871	5/1/2006	Cs-134	33.97 ± 1.10	37.50	27.50 - 47.50	Pass
SPAP-2871	5/1/2006	Cs-137	114.44 ± 2.81	118.90	107.01 - 130.79	Pass
SPW-2875	5/1/2006	H-3	71057.00 ± 730.20	75394.00	60315.20 - 90472.80	Pass
STSO-3155	5/1/2006	Co-60	7950.80 ± 67.29	7750.00	6975.00 - 8525.00	Pass
STSO-3155	5/1/2006	Cs-134	12.49 ± 0.13	11.59	1.59 - 21.59	Pass
STSO-3155	5/1/2006	Cs-137	14.10 ± 0.12	11.63	1.63 - 21.63	Pass
SPAP-2873	5/2/2006	Gr. Beta	1724.80 ± 4.51	1744.00	1395.20 - 2441.60	Pass
SPF-3183	5/10/2006	Cs-137	2.47 ± 0.03	2.38	1.43 - 3.33	Pass
SPF-3183	5/10/2006	Cs-134	0.73 ± 0.01	0.74	0.44 - 1.04	Pass
SPW-3460	5/26/2006	C-14	4009.60 ± 14.43	4741.00	2844.60 - 6637.40	Pass
W-60606	6/6/2006	Gr. Alpha	21.94 ± 0.46	20.08	10.04 - 30.12	Pass
W-60606	6/6/2006	Gr. Beta	58.17 ± 0.49	65.73	55.73 - 75.73	Pass
SPW-3988	6/16/2006	Cs-134	35.56 ± 1.40	36.00	26.00 - 46.00	Pass
SPW-3988	6/16/2006	Cs-137	60.23 ± 2.72	59.27	49.27 - 69.27	Pass
SPW-3988	6/16/2006	I-131(G)	94.01 ± 4.38	99.30	89.30 - 109.30	Pass
SPW-3988	6/16/2006	Sr-89	52.40 ± 4.23	58.16	46.53 - 69.79	Pass
SPW-3988	6/16/2006	Sr-90	45.35 ± 1.95	41.21	32.97 - 49.45	Pass
SPMI-3990	6/16/2006	Cs-134	35.52 ± 5.05	36.00	26.00 - 46.00	Pass
SPMI-3990	6/16/2006	Cs-137	56.78 ± 3.86	59.27	49.27 - 69.27	Pass
SPMI-3990	6/16/2006	I-131(G)	95.04 ± 5.05	99.30	89.30 - 109.30	Pass
SPMI-3991	6/16/2006	I-131	96.55 ± 0.87	99.30	79.44 - 119.16	Pass
SPW-4356	7/5/2006	I-131	80.88 ± 1.09	77.23	61.78 - 92.68	Pass
W-90506	9/5/2006	Gr. Alpha	23.11 ± 0.45	20.08	10.04 - 30.12	Pass
W-90506	9/5/2006	Gr. Beta	65.01 ± 0.51	65.73	55.73 - 75.73	Pass
SPAP-6950	9/30/2006	Cs-134	28.93 ± 1.56	32.65	22.65 - 42.65	Pass
SPAP-6950	9/30/2006	Cs-137	116.62 ± 2.97	117.75	105.98 - 129.53	Pass
SPAP-6952	9/30/2006	Gr. Beta	52.96 ± 0.14	53.50	42.80 - 74.90	Pass

TABLE A-3. In-House "Spike" Samples

Lab Code	Date	Analysis	Concentration (pCi/L)			
			Laboratory results 2s, n=1 ^b	Known Activity	Control Limits ^c	Acceptance
SPW-6954	9/30/2006	Cs-134	63.29 ± 8.24	65.30	55.30 - 75.30	Pass
SPW-6954	9/30/2006	Cs-137	60.41 ± 7.53	58.87	48.87 - 68.87	Pass
SPMI-6956	9/30/2006	Cs-134	69.26 ± 4.85	65.31	55.31 - 75.31	Pass
SPMI-6956	9/30/2006	Cs-137	61.35 ± 7.62	58.87	48.87 - 68.87	Pass
W-120106	12/1/2006	Gr. Alpha	22.40 ± 1.03	20.08	10.04 - 30.12	Pass
W-120106	12/1/2006	Gr. Beta	63.70 ± 1.14	65.73	55.73 - 75.73	Pass
SPAP-9476	12/29/2006	Gr. Beta	57.51 ± 0.14	53.16	42.53 - 74.42	Pass
SPAP-9478	12/29/2006	Cs-134	26.84 ± 1.23	30.06	20.06 - 40.06	Pass
SPAP-9478	12/29/2006	Cs-137	110.54 ± 3.12	117.10	105.39 - 128.81	Pass
SPW-9480	12/29/2006	H-3	68972.20 ± 748.00	72051.60	57641.28 - 86461.92	Pass
SPW-9483	12/29/2006	Tc-99	29.43 ± 0.84	32.98	20.98 - 44.98	Pass
SPW-9488	12/29/2006	Cs-134	61.35 ± 1.65	60.10	50.10 - 70.10	Pass
SPW-9488	12/29/2006	Cs-137	60.30 ± 2.76	56.80	46.80 - 66.80	Pass
SPMI-9490	12/29/2006	Cs-134	58.99 ± 5.43	60.10	50.10 - 70.10	Pass
SPMI-9490	12/29/2006	Cs-137	54.16 ± 7.85	56.80	46.80 - 66.80	Pass
SPF-9492	12/29/2006	Cs-134	0.64 ± 0.01	0.60	0.36 - 0.84	Pass
SPF-9492	12/29/2006	Cs-137	2.61 ± 0.03	2.34	1.40 - 3.28	Pass

^a Liquid sample results are reported in pCi/Liter, air filters(pCi/filter), charcoal (pCi/m³), and solid samples (pCi/g).^b Laboratory codes as follows: W (water), MI (milk), AP (air filter), SO (soil), VE (vegetation),

CH (charcoal canister), F (fish).

^c Results are based on single determinations.^d Control limits are based on Attachment A, Page A2 of this report.

NOTE: For fish, Jello is used for the Spike matrix. For Vegetation, cabbage is used for the Spike matrix.

TABLE A-4. In-House "Blank" Samples

Lab Code	Sample Type	Date	Analysis ^b	Concentration (pCi/L) ^a		
				LLD	Activity ^c	Acceptance Criteria (4.66 σ)
SPW-302	water	1/20/2006	Fe-55	1061	-91 ± 637	1000
SPAP-1225	Air Filter	3/7/2006	Gr. Beta	1.16	-0.512 ± 51.20	3.2
SPW-1231	water	3/7/2006	Cs-134	2.71		10
SPW-1231	water	3/7/2006	Cs-137	2.05		10
W-30906	water	3/9/2006	Gr. Alpha	0.037	0.005 ± 0.026	1
W-30906	water	3/9/2006	Gr. Beta	0.076	-0.016 ± 0.052	3.2
SPW-2751	water	4/27/2006	Ni-63	1.48	0.37 ± 0.91	20
SPW-2868	water	5/1/2006	Fe-55	18.07	4.33 ± 11.27	1000
SPW-2874	water	5/1/2006	H-3	166.00	-8.3 ± 86.9	200
SPAP-2872	Air Filter	5/2/2006	Gr. Beta	1.18	-3.65 ± 0.64	3.2
SPF-3154	Fish	5/10/2006	Cs-134	16.4		100
SPF-3154	Fish	5/10/2006	Cs-137	13.7		100
SPW-3461	water	5/26/2006	C-14	10.20	-7.9 ± 5.20	200
W-60606	water	6/6/2006	Gr. Alpha	0.05	0.013 ± 0.037	1
W-60606	water	6/6/2006	Gr. Beta	0.16	-0.044 ± 0.11	3.2
SPW-3989	water	6/16/2006	Cs-134	3.00		10
SPW-3989	water	6/16/2006	Cs-137	3.65		10
SPW-3989	water	6/16/2006	I-131	0.21	0.045 ± 0.14	0.5
SPW-3989	water	6/16/2006	I-131(G)	8.34		20
SPW-3989	water	6/16/2006	Sr-89	0.54	0.005 ± 0.45	5
SPW-3989	water	6/16/2006	Sr-90	0.58	-0.079 ± 0.26	1
SPMI-3991	Milk	6/16/2006	Cs-134	4.42		10
SPMI-3991	Milk	6/16/2006	Cs-137	3.88		10
SPMI-3991	Milk	6/16/2006	I-131	0.28	-0.22 ± 0.19	0.5
SPMI-3991	Milk	6/16/2006	I-131(G)	3.76		20
SPMI-3991	Milk	6/16/2006	Sr-89	0.61	-0.25 ± 0.76	5
SPMI-3991 ^d	Milk	6/16/2006	Sr-90	0.52	0.88 ± 0.34	1
W-90506	water	9/5/2006	Gr. Alpha	0.06	0.00 ± 0.04	1
W-90506	water	9/5/2006	Gr. Beta	0.16	0.05 ± 0.11	3.2
SPMI-6383	Milk	9/14/2006	Sr-89	0.97	-0.18 ± 0.92	5
SPMI-6383 ^d	Milk	9/14/2006	Sr-90	0.57	0.65 ± 0.33	1
SPAP-6949	Air Filter	9/30/2006	Cs-134	0.89		100
SPAP-6949	Air Filter	9/30/2006	Cs-137	0.91		100
SPAP-6951	Air Filter	9/30/2006	Gr. Beta	1.12	-0.54 ± 0.64	3.2
SPW-6953	water	9/30/2006	Cs-134	3.91		10
SPW-6953	water	9/30/2006	Cs-137	5.61		10
SPW-6953	water	9/30/2006	Sr-89	0.79	-0.14 ± 0.64	5
SPW-6953	water	9/30/2006	Sr-90	0.60	0.11 ± 0.29	1

TABLE A-4. In-House "Blank" Samples

Lab Code	Sample Type	Date	Analysis ^b	Concentration (pCi/L) ^a		Acceptance Criteria (4.66 σ)
				LLD	Activity ^c	
SPMI-6955	Milk	9/30/2006	Cs-134	2.86		10
SPMI-6955	Milk	9/30/2006	Cs-137	2.39		10
SPMI-6955	Milk	9/30/2006	I-131(G)	9.98		0.5
W-120106	water	12/1/2006	Gr. Alpha	0.11	0.066 ± 0.072	1
W-120106	water	12/1/2006	Gr. Beta	0.30	0.093 ± 0.16	3.2
SPAP-9477	Air Filter	12/29/2006	Gr. Beta	1.13	-0.37 ± 0.66	3.2
SPAP-9479	Air Filter	12/29/2006	Cs-137	0.87		100
SPW-9481	water	12/29/2006	H-3	146.2	63.2 ± 80.1	200
SPW-9483	water	12/29/2006	Tc-99	0.95	-1.20 ± 0.56	10
SPW-9489	water	12/29/2006	Cs-134	2.30		10
SPMI-9491	Milk	12/29/2006	Cs-134	3.10		10
SPMI-9491	Milk	12/29/2006	Cs-137	2.90		10
SPMI-9491	Milk	12/29/2006	I-131(G)	8.00		20
SPF-9493	Fish	12/29/2006	Cs-134	7.6		100
SPF-9493	Fish	12/29/2006	Cs-137	7.9		100

^a Liquid sample results are reported in pCi/Liter, air filters(pCi/filter), charcoal (pCi/charcoal canister), and solid samples (pCi/kg).^b I-131(G); iodine-131 as analyzed by gamma spectroscopy.^c Activity reported is a net activity result. For gamma spectroscopic analysis, activity detected below the LLD value is not reported^d Low levels of Sr-90 are still detected in the environment. A concentration of (1-5 pCi/L) in milk is not unusual.

TABLE A-5. In-House "Duplicate" Samples

Lab Code	Date	Analysis	Concentration (pCi/L) ^a			Averaged	Acceptance
			First Result	Second Result	Result		
AP-7466, 7467	1/3/2006	Be-7	0.053 ± 0.015	0.057 ± 0.011	0.055 ± 0.009	Pass	
AP-7513, 7514	1/3/2006	Be-7	0.033 ± 0.008	0.036 ± 0.008	0.035 ± 0.006	Pass	
AP-7555, 7556	1/3/2006	Be-7	0.053 ± 0.007	0.054 ± 0.008	0.053 ± 0.005	Pass	
MI-154, 155	1/10/2006	K-40	1254.20 ± 87.75	1369.60 ± 102.80	1311.90 ± 67.58	Pass	
MI-217, 218	1/11/2006	K-40	1258.00 ± 118.00	1313.00 ± 98.00	1285.50 ± 76.69	Pass	
MI-217, 218	1/11/2006	Sr-90	1.27 ± 0.37	0.92 ± 0.33	1.10 ± 0.25	Pass	
MI-287, 288	1/17/2006	K-40	1383.10 ± 110.90	1457.80 ± 119.10	1420.45 ± 81.37	Pass	
MI-287, 288	1/17/2006	Sr-90	0.74 ± 0.38	0.94 ± 0.37	0.84 ± 0.27	Pass	
WW-314, 315	1/19/2006	Gr. Beta	9.21 ± 1.72	11.52 ± 1.93	10.37 ± 1.29	Pass	
WW-314, 315	1/19/2006	H-3	168.64 ± 94.94	210.12 ± 96.51	189.38 ± 67.69	Pass	
SWT-577, 578	1/31/2006	Gr. Beta	3.06 ± 0.66	3.68 ± 0.64	3.37 ± 0.46	Pass	
SWU-598, 599	1/31/2006	Gr. Beta	2.03 ± 0.39	1.97 ± 0.40	2.00 ± 0.28	Pass	
SWU-598, 599	1/31/2006	H-3	260.10 ± 98.20	134.10 ± 93.50	197.10 ± 67.80	Pass	
F-3311, 3312 ^b	2/9/2006	Gr. Beta	4.12 ± 0.14	3.82 ± 0.13	3.97 ± 0.10	Fail	
F-3311, 3312	2/9/2006	K-40	2.68 ± 0.37	2.76 ± 0.39	2.72 ± 0.27	Pass	
SW-780, 781	2/14/2006	Gr. Alpha	4.09 ± 1.52	3.22 ± 1.37	3.66 ± 1.03	Pass	
SW-780, 781	2/14/2006	Gr. Beta	5.91 ± 0.90	5.89 ± 0.92	5.90 ± 0.64	Pass	
DW-934, 935	2/17/2006	I-131	0.35 ± 0.22	0.31 ± 0.25	0.33 ± 0.16	Pass	
DW-1024, 1025	2/24/2006	I-131	0.24 ± 0.26	0.53 ± 0.24	0.39 ± 0.18	Pass	
MI-1078, 1079	3/1/2006	Sr-90	1.42 ± 0.39	1.30 ± 0.62	1.36 ± 0.37	Pass	
F-1357, 1358	3/10/2006	Gr. Beta	3.77 ± 0.07	3.71 ± 0.07	3.74 ± 0.05	Pass	
F-1357, 1358	3/10/2006	K-40	2.46 ± 0.32	2.32 ± 0.44	2.39 ± 0.27	Pass	
MI-1469, 1470	3/14/2006	K-40	1396.30 ± 120.80	1335.60 ± 113.80	1365.95 ± 82.98	Pass	
CF-1538, 1539	3/21/2006	K-40	13.66 ± 0.81	13.97 ± 0.68	13.81 ± 0.53	Pass	
WW-1583, 1584	3/22/2006	Gr. Beta	7.66 ± 0.73	8.87 ± 0.75	8.26 ± 0.52	Pass	
DW-1955, 1956	3/27/2006	Gr. Beta	2.25 ± 0.60	3.15 ± 0.59	2.70 ± 0.42	Pass	
MI-1760, 1761	3/29/2006	K-40	1271.00 ± 89.00	1378.00 ± 113.00	1324.50 ± 71.92	Pass	
AP-2603, 2604	3/29/2006	Be-7	0.067 ± 0.015	0.056 ± 0.010	0.062 ± 0.009	Pass	
E-1997, 1998	4/3/2006	Gr. Beta	1.82 ± 0.07	1.87 ± 0.07	1.85 ± 0.05	Pass	
E-1997, 1998	4/3/2006	K-40	1.28 ± 0.15	1.24 ± 0.21	1.26 ± 0.13	Pass	
AP-2818, 2819	4/3/2006	Be-7	0.06 ± 0.01	0.06 ± 0.01	0.06 ± 0.01	Pass	
SWU-2863, 2864	4/3/2006	Gr. Beta	3.20 ± 1.26	4.77 ± 1.30	3.99 ± 0.91	Pass	
SS-2389, 2390	4/11/2006	Gr. Beta	10.53 ± 0.96	9.38 ± 0.84	9.96 ± 0.64	Pass	
SS-2389, 2390	4/11/2006	K-40	5.51 ± 0.42	5.79 ± 0.40	5.65 ± 0.29	Pass	
DW-2773, 2774	4/21/2006	I-131	0.74 ± 0.23	0.53 ± 0.40	0.63 ± 0.23	Pass	
SL-2932, 2933	5/1/2006	Be-7	1.28 ± 0.19	1.27 ± 0.17	1.28 ± 0.13	Pass	
SL-2932, 2933	5/1/2006	Gr. Beta	6.09 ± 0.33	5.65 ± 0.31	5.87 ± 0.23	Pass	
SL-2932, 2933	5/1/2006	K-40	3.13 ± 0.41	3.09 ± 0.36	3.11 ± 0.27	Pass	
BS-3103, 3104	5/1/2006	Gr. Beta	8.27 ± 1.46	9.03 ± 1.59	8.65 ± 1.08	Pass	
BS-3103, 3104	5/1/2006	K-40	6288.20 ± 585.20	5643.70 ± 599.80	5965.95 ± 418.99	Pass	
MI-3037, 3038	5/2/2006	K-40	1238.90 ± 98.59	1301.00 ± 103.90	1269.95 ± 71.62	Pass	
MI-3037, 3038	5/2/2006	Sr-90	1.76 ± 0.42	1.48 ± 0.42	1.62 ± 0.29	Pass	

TABLE A-5. In-House "Duplicate" Samples

Lab Code	Date	Analysis	Concentration (pCi/L) ^a			Acceptance
			First Result	Second Result	Averaged Result	
MI-3124, 3125	5/9/2006	K-40	1032.30 ± 91.12	1103.60 ± 120.50	1067.95 ± 75.54	Pass
SW-3145, 3146	5/9/2006	Gr. Alpha	4.85 ± 1.68	4.12 ± 1.62	4.48 ± 1.17	Pass
SW-3145, 3146	5/9/2006	Gr. Beta	8.94 ± 1.46	9.14 ± 1.36	9.04 ± 1.00	Pass
MI-3236, 3237	5/10/2006	K-40	1412.40 ± 119.10	1427.90 ± 127.70	1420.15 ± 87.31	Pass
F-3422, 3423	5/19/2006	H-3	8175.00 ± 252.00	8268.00 ± 253.00	8221.50 ± 178.54	Pass
G-3491, 3492	5/24/2006	Gr. Beta	8.89 ± 0.18	9.03 ± 0.19	8.96 ± 0.13	Pass
G-3491, 3492	5/24/2006	K-40	5.60 ± 0.71	6.30 ± 0.78	5.95 ± 0.53	Pass
SO-3539, 3540	5/24/2006	Gr. Beta	19.57 ± 1.99	18.98 ± 1.91	19.27 ± 1.38	Pass
SO-3539, 3540	5/24/2006	K-40	12.55 ± 0.89	11.49 ± 0.59	12.02 ± 0.53	Pass
WW-3751, 3752	5/25/2006	Gr. Beta	9.85 ± 0.79	8.96 ± 0.74	9.41 ± 0.54	Pass
F-3617, 3618	5/30/2006	K-40	2.42 ± 0.38	2.53 ± 0.37	2.47 ± 0.27	Pass
SL-3641, 3642	6/1/2006	Be-7	1.41 ± 0.19	1.31 ± 0.27	1.36 ± 0.17	Pass
SL-3641, 3642	6/1/2006	Gr. Beta	5.03 ± 0.18	5.30 ± 0.19	5.17 ± 0.13	Pass
SL-3641, 3642	6/1/2006	K-40	2.21 ± 0.26	2.14 ± 0.37	2.18 ± 0.23	Pass
MI-3886, 3887	6/12/2006	K-40	1424.20 ± 118.20	1318.80 ± 110.50	1371.50 ± 80.90	Pass
VE-3949, 3950	6/13/2006	Gr. Alpha	0.13 ± 0.06	0.16 ± 0.07	0.15 ± 0.05	Pass
VE-3949, 3950	6/13/2006	Gr. Beta	4.53 ± 0.19	4.47 ± 0.18	4.50 ± 0.13	Pass
VE-3949, 3950	6/13/2006	K-40	6.02 ± 0.66	5.33 ± 0.66	5.67 ± 0.47	Pass
BS-4016, 4017	6/13/2006	Co-60	0.18 ± 0.03	0.15 ± 0.03	0.16 ± 0.02	Pass
BS-4016, 4017	6/13/2006	Cs-137	1.97 ± 0.09	2.01 ± 0.09	1.99 ± 0.06	Pass
BS-4016, 4017	6/13/2006	K-40	11.03 ± 0.76	10.45 ± 0.78	10.74 ± 0.54	Pass
MI-3992, 3993	6/14/2006	K-40	1358.50 ± 166.40	1395.80 ± 122.70	1377.15 ± 103.37	Pass
LW-4175, 4176	6/16/2006	H-3	482.11 ± 90.25	397.50 ± 86.88	439.81 ± 62.63	Pass
W-4130, 4131	6/21/2006	H-3	401.50 ± 87.85	236.28 ± 80.89	318.89 ± 59.71	Pass
AV-4330, 4331	6/26/2006	K-40	1717.10 ± 244.30	1893.10 ± 223.30	1805.10 ± 165.49	Pass
SWU-4489, 4490	6/27/2006	Gr. Beta	1.70 ± 0.38	1.93 ± 0.38	1.82 ± 0.27	Pass
AP-4909, 4910	6/29/2006	Be-7	0.11 ± 0.01	0.11 ± 0.02	0.11 ± 0.01	Pass
AP-4952, 4953	6/29/2006	Be-7	0.08 ± 0.02	0.10 ± 0.02	0.09 ± 0.01	Pass
AP-4930, 4931	7/3/2006	Be-7	0.08 ± 0.02	0.07 ± 0.01	0.08 ± 0.01	Pass
E-4399, 4400	7/5/2006	Gr. Beta	1.85 ± 0.05	1.85 ± 0.05	1.85 ± 0.04	Pass
E-4399, 4400	7/5/2006	K-40	1.25 ± 0.19	1.24 ± 0.18	1.25 ± 0.13	Pass
G-4420, 4421	7/5/2006	Be-7	0.82 ± 0.20	0.61 ± 0.14	0.72 ± 0.12	Pass
G-4420, 4421	7/5/2006	Gr. Beta	13.20 ± 0.40	14.00 ± 0.40	13.60 ± 0.28	Pass
G-4420, 4421	7/5/2006	K-40	9.96 ± 0.44	10.06 ± 0.82	10.01 ± 0.47	Pass
DW-60432, 60433	7/6/2006	Gr. Alpha	3.24 ± 1.35	2.49 ± 1.33	2.87 ± 0.95	Pass
DW-60514, 60515	7/10/2006	Gr. Alpha	3.70 ± 1.12	3.09 ± 1.16	3.40 ± 0.81	Pass
DW-60449, 60450	7/11/2006	Gr. Alpha	6.87 ± 1.26	4.77 ± 1.09	5.82 ± 0.83	Pass
MI-4599, 4600	7/12/2006	K-40	1403.50 ± 118.80	1330.40 ± 116.50	1366.95 ± 83.20	Pass
MI-4599, 4600	7/12/2006	Sr-90	0.59 ± 0.34	0.70 ± 0.35	0.65 ± 0.24	Pass
MI-4667, 4668	7/12/2006	K-40	1286.60 ± 92.62	1358.60 ± 158.40	1322.60 ± 91.75	Pass
LW-4823, 4824	7/14/2006	Gr. Beta	1.75 ± 0.60	2.51 ± 0.59	2.13 ± 0.42	Pass

TABLE A-5. In-House "Duplicate" Samples

Lab Code	Date	Analysis	Concentration (pCi/L) ^a			Averaged Result	Acceptance
			First Result	Second Result			
DW-60502, 60503	7/19/2006	Gr. Alpha	16.27 ± 2.49	21.41 ± 3.21	18.84 ± 2.03	Pass	
DW-60526, 60527	7/21/2006	Gr. Alpha	14.06 ± 1.82	15.57 ± 1.77	14.82 ± 1.27	Pass	
DW-60539, 60540	7/21/2006	Gr. Alpha	5.09 ± 0.95	6.23 ± 1.05	5.66 ± 0.71	Pass	
MI-5125, 5126	7/25/2006	K-40	1480.60 ± 118.30	1402.60 ± 120.80	1441.60 ± 84.54	Pass	
DW-60609, 60610	7/26/2006	Gr. Alpha	1.00 ± 1.10	2.70 ± 1.30	1.85 ± 0.85	Pass	
DW-60621, 60622	7/31/2006	Gr. Alpha	3.70 ± 1.00	1.90 ± 0.80	2.80 ± 0.64	Pass	
SL-5265, 5266	8/1/2006	Be-7	1.10 ± 0.46	1.38 ± 0.52	1.24 ± 0.35	Pass	
SL-5265, 5266	8/1/2006	Sr-90	0.10 ± 0.03	0.16 ± 0.03	0.13 ± 0.02	Pass	
SL-5265, 5266	8/1/2006	Gr. Beta	4.41 ± 0.41	3.46 ± 0.57	3.94 ± 0.35	Pass	
SL-5265, 5266	8/1/2006	K-40	1.19 ± 0.52	0.87 ± 0.52	1.03 ± 0.37	Pass	
VE-5286, 5287	8/1/2006	Be-7	1.21 ± 0.30	1.32 ± 0.20	1.27 ± 0.18	Pass	
VE-5286, 5287	8/1/2006	Gr. Beta	9.67 ± 0.35	9.37 ± 0.35	9.52 ± 0.25	Pass	
VE-5286, 5287	8/1/2006	K-40	6.25 ± 0.81	6.50 ± 0.48	6.38 ± 0.47	Pass	
SW-5383, 5384	8/8/2006	Gr. Alpha	3.24 ± 1.35	2.94 ± 1.35	3.09 ± 0.96	Pass	
SW-5383, 5384	8/8/2006	Gr. Beta	4.86 ± 0.86	5.46 ± 0.87	5.16 ± 0.61	Pass	
SW-5971, 5972	8/8/2006	H-3	119.90 ± 78.14	144.41 ± 79.23	132.15 ± 55.64	Pass	
VE-5404, 5405	8/10/2006	Be-7	0.77 ± 0.24	1.01 ± 0.26	0.89 ± 0.18	Pass	
VE-5404, 5405	8/10/2006	K-40	4.71 ± 0.63	4.01 ± 0.58	4.36 ± 0.43	Pass	
DW-5480, 5481	8/11/2006	H-3	169.08 ± 85.52	133.65 ± 83.96	151.36 ± 59.92	Pass	
DW-60645, 60646	8/15/2006	Gr. Alpha	10.41 ± 1.78	10.97 ± 1.85	10.69 ± 1.28	Pass	
W-5602, 5603	8/16/2006	H-3	2118.79 ± 151.55	2181.82 ± 153.09	2150.30 ± 107.71	Pass	
DW-60634, 60635	8/18/2006	Gr. Alpha	12.99 ± 1.84	9.67 ± 1.61	11.33 ± 1.22	Pass	
DW-60634, 60635	8/18/2006	Gr. Beta	10.51 ± 1.33	8.61 ± 1.18	9.56 ± 0.89	Pass	
MI-5793, 5794	8/22/2006	K-40	1264.00 ± 115.00	1377.00 ± 121.00	1320.50 ± 83.47	Pass	
SWU-6150, 6151	8/29/2006	Gr. Beta	1.84 ± 0.28	1.81 ± 0.28	1.82 ± 0.20	Pass	
DW-60657, 60658	8/29/2006	Gr. Alpha	2.33 ± 0.80	2.90 ± 0.78	2.62 ± 0.56	Pass	
CF-7450, 7451	9/5/2006	Be-7	0.78 ± 0.45	0.78 ± 0.27	0.78 ± 0.26	Pass	
SL-6085, 6086	9/5/2006	Co-60	0.22 ± 0.03	0.21 ± 0.02	0.22 ± 0.02	Pass	
SL-6085, 6086	9/5/2006	Gr. Beta	5.47 ± 0.69	4.63 ± 0.58	5.05 ± 0.45	Pass	
SL-6085, 6086	9/5/2006	K-40	1.91 ± 0.28	2.06 ± 0.41	1.99 ± 0.25	Pass	
DW-60695, 60696	9/11/2006	Gr. Alpha	3.93 ± 1.17	4.62 ± 1.12	4.28 ± 0.81	Pass	
LW-6266, 6267	9/13/2006	Gr. Beta	3.09 ± 0.48	2.98 ± 0.48	3.03 ± 0.34	Pass	
MI-6424, 6425	9/19/2006	Sr-90	0.78 ± 0.38	1.11 ± 0.37	0.95 ± 0.27	Pass	
DW-60715, 60716	9/19/2006	Gr. Alpha	1.30 ± 1.00	2.23 ± 1.01	1.77 ± 0.71	Pass	
SO-6597, 6598	9/22/2006	Cs-137	0.18 ± 0.04	0.18 ± 0.04	0.18 ± 0.03	Pass	
SO-6597, 6598	9/22/2006	K-40	10.25 ± 0.66	10.11 ± 0.64	10.18 ± 0.46	Pass	
SWU-6718, 6719	9/26/2006	Gr. Beta	3.45 ± 1.21	2.78 ± 1.19	3.12 ± 0.85	Pass	
SO-6668, 6669	9/27/2006	Cs-137	0.13 ± 0.04	0.13 ± 0.02	0.13 ± 0.02	Pass	
SO-6668, 6669	9/27/2006	K-40	13.04 ± 0.90	12.41 ± 0.54	12.72 ± 0.53	Pass	

TABLE A-5. In-House "Duplicate" Samples

Lab Code	Date	Analysis	Concentration (pCi/L) ^a			Averaged Result	Acceptance
			First Result	Second Result	Averaged Result		
MI-6760, 6761	10/2/2006	K-40	1413.10 ± 113.20	1187.30 ± 155.20	1300.20 ± 96.05	Pass	
G-6797, 6798	10/2/2006	Be-7	4.70 ± 0.31	4.56 ± 0.41	4.63 ± 0.26	Pass	
G-6797, 6798	10/2/2006	Gr. Beta	6.89 ± 0.26	7.04 ± 0.24	6.97 ± 0.18	Pass	
G-6797, 6798 ^b	10/2/2006	K-40	5.39 ± 0.35	4.36 ± 0.47	4.88 ± 0.29	Fail	
AP-7531, 7532	10/3/2006	Be-7	0.07 ± 0.01	0.08 ± 0.01	0.08 ± 0.01	Pass	
AP-7552, 7553	10/3/2006	Be-7	0.08 ± 0.02	0.08 ± 0.01	0.08 ± 0.01	Pass	
AP-7573, 7574	10/3/2006	Be-7	0.08 ± 0.02	0.08 ± 0.01	0.08 ± 0.01	Pass	
SO-7103, 7104	10/4/2006	Cs-137	0.25 ± 0.05	0.27 ± 0.06	0.26 ± 0.04	Pass	
SO-7103, 7104	10/4/2006	K-40	12.95 ± 1.12	12.22 ± 1.07	12.58 ± 0.77	Pass	
DW-60759, 60760	10/5/2006	Gr. Alpha	4.93 ± 0.97	5.04 ± 1.03	4.99 ± 0.71	Pass	
MI-7037, 7038	10/10/2006	K-40	1326.10 ± 115.20	1251.40 ± 115.70	1288.75 ± 81.64	Pass	
VE-7058, 7059	10/10/2006	Gr. Alpha	0.18 ± 0.11	0.32 ± 0.14	0.25 ± 0.09	Pass	
VE-7058, 7059	10/10/2006	Gr. Beta	9.21 ± 0.34	8.83 ± 0.36	9.02 ± 0.25	Pass	
VE-7058, 7059	10/10/2006	K-40	10.90 ± 0.65	10.42 ± 0.80	10.66 ± 0.52	Pass	
SS-7079, 7080	10/10/2006	Cs-137	0.04 ± 0.01	0.04 ± 0.02	0.04 ± 0.01	Pass	
SS-7079, 7080	10/10/2006	Gr. Beta	12.23 ± 2.46	11.76 ± 2.23	11.99 ± 1.66	Pass	
SS-7079, 7080	10/10/2006	K-40	7.23 ± 0.36	7.37 ± 0.40	7.30 ± 0.27	Pass	
MI-7208, 7209	10/11/2006	K-40	1295.20 ± 116.90	1386.90 ± 119.10	1341.05 ± 83.44	Pass	
CF-7450, 7451	10/18/2006	K-40	20.40 ± 0.84	19.54 ± 0.99	19.97 ± 0.65	Pass	
LW-7945, 7946	10/26/2006	Gr. Beta	1.30 ± 0.37	1.44 ± 0.36	1.37 ± 0.26	Pass	
F-7971, 7972	10/29/2006	K-40	3.63 ± 0.54	3.33 ± 0.43	3.48 ± 0.34	Pass	
SWU-8194, 8195	10/31/2006	Gr. Beta	1.84 ± 0.28	1.43 ± 0.28	1.64 ± 0.20	Pass	
BS-8017, 8018	11/1/2006	Gr. Beta	10.54 ± 1.72	10.17 ± 1.73	10.36 ± 1.22	Pass	
BS-8017, 8018	11/1/2006	K-40	10.00 ± 0.53	9.60 ± 0.69	9.80 ± 0.44	Pass	
LW-8215, 8216	11/1/2006	Gr. Beta	2.23 ± 0.61	1.64 ± 0.37	1.93 ± 0.35	Pass	
F-8345, 8346	11/2/2006	K-40	2.84 ± 0.42	2.89 ± 0.40	2.86 ± 0.29	Pass	
BS-8366, 8367	11/2/2006	K-40	13.69 ± 0.66	13.61 ± 0.78	13.65 ± 0.51	Pass	
MI-8083, 8084	11/6/2006	K-40	1295.00 ± 121.20	1374.80 ± 162.80	1334.90 ± 101.48	Pass	
WW-8259, 8260	11/7/2006	H-3	337.00 ± 95.00	295.00 ± 93.00	316.00 ± 66.47	Pass	
MI-8484, 8485	11/22/2006	K-40	1405.80 ± 87.06	1390.70 ± 103.60	1398.25 ± 67.66	Pass	
SO-8619, 8620	11/27/2006	Cs-137	0.74 ± 0.08	0.69 ± 0.06	0.71 ± 0.05	Pass	
SO-8619, 8620	11/27/2006	Gr. Alpha	16.54 ± 5.65	12.24 ± 4.90	14.39 ± 3.74	Pass	
SO-8619, 8620	11/27/2006	Gr. Beta	24.99 ± 3.88	28.66 ± 3.95	26.82 ± 2.77	Pass	
SO-8619, 8620	11/27/2006	K-40	12.21 ± 1.11	12.92 ± 0.83	12.57 ± 0.69	Pass	
SWT-8641, 8642	11/29/2006	Gr. Beta	2.83 ± 0.47	2.89 ± 0.45	2.86 ± 0.33	Pass	
SWT-9436, 9437	12/26/2006	Gr. Beta	2.39 ± 0.64	2.25 ± 0.60	2.32 ± 0.44	Pass	

Note: Duplicate analyses are performed on every twentieth sample received in-house. Results are not listed for those analyses with activities that measure below the LLD.

^a Results are reported in units of pCi/L, except for air filters (pCi/Filter), food products, vegetation, soil, sediment (pCi/g).

^b 200 minute count time or longer, resulting in lower error.

TABLE A-6. Department of Energy's Mixed Analyte Performance Evaluation Program (MAPEP)^a.

Lab Code ^c	Date	Analysis	Concentration ^b		Control Limits ^d	Acceptance
			Laboratory result	Known Activity		
STVE-1082	01/01/06	Am-241	0.16 ± 0.06	0.16	0.11 - 0.20	Pass
STVE-1082	01/01/06	Co-57	10.40 ± 0.20	8.58	6.00 - 11.15	Pass
STVE-1082	01/01/06	Co-60	5.00 ± 0.20	4.52	3.16 - 5.88	Pass
STVE-1082 ^e	01/01/06	Cs-134	< 0.20	0.00		Pass
STVE-1082	01/01/06	Cs-137	3.40 ± 0.20	3.07	2.15 - 4.00	Pass
STVE-1082	01/01/06	Mn-54	6.90 ± 0.20	6.25	4.37 - 8.12	Pass
STVE-1082 ^f	01/01/06	Pu-238	0.08 ± 0.03	0.14	0.10 - 0.18	Fail
STVE-1082	01/01/06	Pu-239/40	0.17 ± 0.03	0.16	0.11 - 0.21	Pass
STVE-1082	01/01/06	Sr-90	1.40 ± 0.20	1.56	1.09 - 2.03	Pass
STVE-1082	01/01/06	U-233/4	0.24 ± 0.05	0.21	0.15 - 0.27	Pass
STVE-1082	01/01/06	U-238	0.19 ± 0.04	0.22	0.15 - 0.28	Pass
STVE-1082	01/01/06	Zn-65	11.10 ± 0.50	9.80	6.86 - 12.74	Pass
STSO-1083	01/01/06	Am-241	54.60 ± 5.50	57.08	39.96 - 74.20	Pass
STSO-1083	01/01/06	Co-57	762.90 ± 12.70	656.29	459.40 - 853.18	Pass
STSO-1083	01/01/06	Co-60	504.90 ± 3.10	447.10	312.97 - 581.23	Pass
STSO-1083 ^e	01/01/06	Cs-134	< 1.70	0.00		Pass
STSO-1083	01/01/06	Cs-137	406.50 ± 3.70	339.69	237.78 - 441.60	Pass
STSO-1083	01/01/06	K-40	719.20 ± 18.40	604.00	422.80 - 785.20	Pass
STSO-1083	01/01/06	Mn-54	415.60 ± 4.80	346.77	242.74 - 450.80	Pass
STSO-1083	01/01/06	Ni-63	261.40 ± 14.70	323.51	226.46 - 420.56	Pass
STSO-1083	01/01/06	Pu-238	14.60 ± 2.90	61.15	42.81 - 79.50	Fail
STSO-1083	01/01/06	Pu-239/40	14.60 ± 2.40	45.85	32.09 - 59.61	Fail
STSO-1083	01/01/06	U-233/4	13.50 ± 1.70	37.00	25.90 - 48.10	Fail
STSO-1083	01/01/06	U-238	15.40 ± 1.80	38.85	27.20 - 50.50	Fail
STSO-1083	01/01/06	Zn-65	783.40 ± 7.00	657.36	460.15 - 854.57	Pass
STAP-1084	01/01/06	Gr. Alpha	0.26 ± 0.02	0.36	0.00 - 0.72	Pass
STAP-1084	01/01/06	Gr. Beta	0.51 ± 0.03	0.48	0.24 - 0.72	Pass
STAP-1085	01/01/06	Am-241	0.12 ± 0.02	0.09	0.07 - 0.12	Pass
STAP-1085	01/01/06	Co-57	4.32 ± 0.10	4.10	2.87 - 5.32	Pass
STAP-1085	01/01/06	Co-60	2.24 ± 0.16	2.19	1.53 - 2.84	Pass
STAP-1085	01/01/06	Cs-134	2.96 ± 0.19	2.93	2.05 - 3.81	Pass
STAP-1085	01/01/06	Cs-137	2.64 ± 0.20	2.53	1.77 - 3.29	Pass
STAP-1085 ^f	01/01/06	Pu-238	0.03 ± 0.01	0.07	0.05 - 0.09	Fail
STAP-1085 ^e	01/01/06	Pu-239/40	< 0.01	0.00		Pass
STAP-1085	01/01/06	Sr-90	0.77 ± 0.21	0.79	0.55 - 1.03	Pass
STAP-1085	01/01/06	U-233/4	0.03 ± 0.01	0.02	0.01 - 0.03	Pass
STAP-1085	01/01/06	U-238	0.02 ± 0.01	0.02	0.01 - 0.03	Pass
STAP-1085	01/01/06	Zn-65	3.94 ± 0.44	3.42	2.40 - 4.45	Pass

TABLE A-6. Department of Energy's Mixed Analyte Performance Evaluation Program (MAPEP)^a.

Lab Code ^c	Date	Analysis	Concentration ^b			Acceptance
			Laboratory result	Known Activity	Control Limits ^d	
STW-1086	01/01/06	Am-241	1.29 ± 0.05	1.30	0.91 - 1.69	Pass
STW-1086	01/01/06	Co-57	177.10 ± 1.00	166.12	116.28 - 215.96	Pass
STW-1086	01/01/06	Co-60	158.30 ± 1.00	153.50	107.45 - 199.55	Pass
STW-1086	01/01/06	Cs-134	96.40 ± 1.50	95.10	66.57 - 123.63	Pass
STW-1086 ^e	01/01/06	Cs-137	< 0.80	0.00		Pass
STW-1086	01/01/06	Fe-55	102.50 ± 18.10	129.60	90.72 - 168.48	Pass
STW-1086	01/01/06	H-3	956.60 ± 16.50	952.01	666.41 - 1238.00	Pass
STW-1086	01/01/06	Mn-54	335.30 ± 2.20	315.00	220.50 - 409.50	Pass
STW-1086	01/01/06	Ni-63	62.90 ± 3.60	60.34	42.24 - 78.44	Pass
STW-1086	01/01/06	Pu-238	0.96 ± 0.07	0.91	0.70 - 1.30	Pass
STW-1086 ^e	01/01/06	Pu-239/40	< 0.20	0.00		Pass
STW-1086	01/01/06	Sr-90	12.80 ± 1.60	13.16	9.21 - 17.11	Pass
STW-1086	01/01/06	Tc-99	22.30 ± 1.20	23.38	16.37 - 30.39	Pass
STW-1086	01/01/06	U-233/4	2.02 ± 0.12	2.09	1.46 - 2.72	Pass
STW-1086	01/01/06	U-238	2.03 ± 0.12	2.17	1.52 - 2.82	Pass
STW-1086	01/01/06	Zn-65	249.50 ± 3.40	228.16	159.71 - 296.61	Pass
STW-1087	01/01/06	Gr. Alpha	0.59 ± 0.10	0.58	0.00 - 1.16	Pass
STW-1087	01/01/06	Gr. Beta	1.69 ± 0.07	1.13	0.56 - 1.70	Pass
STVE-1098 ^e	07/01/06	Co-57	< 0.14	0.00		Pass
STVE-1098 ^g	07/01/06	Co-60	6.89 ± 0.17	5.81	4.06 - 7.55	Pass
STVE-1098	07/01/06	Cs-134	8.46 ± 0.16	7.49	5.24 - 9.73	Pass
STVE-1098	07/01/06	Cs-137	6.87 ± 0.29	5.50	3.85 - 7.14	Pass
STVE-1098	07/01/06	Mn-54	10.36 ± 0.29	8.35	5.85 - 10.86	Pass
STVE-1098	07/01/06	Zn-65	7.46 ± 0.50	5.98	4.19 - 7.78	Pass
STSO-1099	07/01/06	Am-241	130.00 ± 11.60	105.47	73.83 - 137.11	Pass
STSO-1099	07/01/06	Co-57	784.90 ± 3.80	676.33	473.43 - 879.23	Pass
STSO-1099	07/01/06	Co-60	2.10 ± 0.90	1.98	0.00 - 5.00	Pass
STSO-1099	07/01/06	Cs-134	500.70 ± 7.40	452.13	316.49 - 587.77	Pass
STSO-1099	07/01/06	Cs-137	624.20 ± 4.90	525.73	368.01 - 683.45	Pass
STSO-1099	07/01/06	K-40	701.30 ± 3.40	604.00	423.00 - 785.00	Pass
STSO-1099	07/01/06	Mn-54	699.20 ± 5.20	594.25	415.98 - 772.52	Pass
STSO-1099	07/01/06	Ni-63	614.40 ± 17.10	672.30	470.60 - 874.00	Pass
STSO-1099	07/01/06	Pu-238	79.90 ± 5.80	82.00	57.00 - 107.00	Pass
STSO-1099 ^e	07/01/06	Pu-239/40	< 0.70	0.00		Pass
STSO-1099	07/01/06	U-233/4	150.50 ± 5.90	152.44	106.71 - 198.17	Pass
STSO-1099	07/01/06	U-238	151.60 ± 6.00	158.73	111.11 - 206.35	Pass
STSO-1099	07/01/06	Zn-65	1021.90 ± 9.20	903.61	632.53 - 1175.00	Pass
STAP-1100	07/01/06	Am-241	0.16 ± 0.03	0.14	0.10 - 0.19	Pass
STAP-1100	07/01/06	Co-57	2.17 ± 0.06	2.58	1.81 - 3.36	Pass
STAP-1100	07/01/06	Co-60	1.38 ± 0.07	1.58	1.10 - 2.05	Pass
STAP-1100	07/01/06	Cs-134	2.52 ± 0.13	3.15	2.20 - 4.09	Pass

TABLE A-6. Department of Energy's Mixed Analyte Performance Evaluation Program (MAPEP)^a.

Lab Code ^c	Date	Analysis	Concentration ^b		Control Limits ^d	Acceptance
			Laboratory result	Known Activity		
STAP-1100	07/01/06	Cs-137	1.64 ± 0.08	1.81	1.26 - 2.35	Pass
STAP-1100	07/01/06	Mn-54	1.76 ± 0.18	1.92	1.34 - 2.50	Pass
STAP-1100	07/01/06	Pu-238	0.09 ± 0.02	0.12	0.08 - 0.15	Pass
STAP-1100	07/01/06	Sr-90	0.66 ± 0.21	0.62	0.43 - 0.81	Pass
STAP-1100	07/01/06	U-233/4	0.15 ± 0.02	0.13	0.09 - 0.17	Pass
STAP-1100	07/01/06	U-238	0.13 ± 0.02	0.14	0.10 - 0.18	Pass
STAP-1100 ^e	07/01/06	Zn-65	< 0.07	0.00		Pass
STAP-1101	07/01/06	Gr. Alpha	0.08 ± 0.03	0.29	0.00 - 0.58	Pass
STAP-1101	07/01/06	Gr. Beta	0.41 ± 0.05	0.36	0.18 - 0.54	Pass
STW-1102	07/01/06	Gr. Alpha	0.76 ± 0.07	1.03	0.00 - 2.07	Pass
STW-1102	07/01/06	Gr. Beta	1.23 ± 0.06	1.03	0.52 - 1.54	Pass
STW-1103	07/01/06	Am-241	1.86 ± 0.09	2.31	1.62 - 3.00	Pass
STW-1103	07/01/06	Co-57	224.10 ± 1.20	213.08	149.16 - 277.00	Pass
STW-1103	07/01/06	Co-60	49.40 ± 0.50	47.50	33.20 - 61.80	Pass
STW-1103	07/01/06	Cs-134	112.70 ± 0.90	112.82	78.97 - 146.66	Pass
STW-1103	07/01/06	Cs-137	206.60 ± 1.40	196.14	137.30 - 254.98	Pass
STW-1103	07/01/06	Fe-55	138.40 ± 5.40	165.40	115.80 - 215.00	Pass
STW-1103	07/01/06	H-3	446.50 ± 11.80	428.85	300.20 - 557.50	Pass
STW-1103 ^e	07/01/06	Mn-54	< 0.30	0.00		Pass
STW-1103	07/01/06	Ni-63	116.70 ± 3.60	118.62	83.03 - 154.21	Pass
STW-1103	07/01/06	Pu-238	1.27 ± 0.07	1.39	0.97 - 1.81	Pass
STW-1103	07/01/06	Pu-239/40	1.67 ± 0.08	1.94	1.36 - 2.52	Pass
STW-1103	07/01/06	Sr-90	16.40 ± 1.90	15.69	10.98 - 20.40	Pass
STW-1103	07/01/06	Tc-99	29.40 ± 1.10	27.15	19.00 - 35.29	Pass
STW-1103	07/01/06	U-233/4	1.97 ± 0.08	2.15	1.50 - 2.80	Pass
STW-1103	07/01/06	U-238	1.97 ± 0.08	2.22	1.55 - 2.89	Pass
STW-1103	07/01/06	Zn-65	192.50 ± 2.40	176.37	123.46 - 229.28	Pass

^a Results obtained by Environmental, Inc., Midwest Laboratory as a participant in the Department of Energy's Mixed Analyte Performance Evaluation Program, Idaho Operations office, Idaho Falls, Idaho

^b Results are reported in units of Bq/kg (soil), Bq/L (water) or Bq/total sample (filters, vegetation).

^c Laboratory codes as follows: STW (water), STAP (air filter), STSO (soil), STVE (vegetation).

^d MAPEP results are presented as the known values and expected laboratory precision (1 sigma, 1 determination) and control limits as defined by the MAPEP.

^e Included in the MAPEP as a false positive.

^f Difficulties with the analyses for transuranics isotopes in solid samples (Filters, Soil and vegetation), were attributed to incomplete dissolution of the samples. Soil samples were repeated, results of reanalyses: Pu-238, 53.1 ± 5.3 bq/kg. Pu-239/240, 42.4 ± 4.7 bq/kg. U-233/4, 33.3 ± 3.5 bq/kg. U-238, 35.5 ± 3.6 bq/kg.

^g The July vegetation sample was provided in two separate geometries, (100 ml. and 500 ml.). Results reported here used the 500 ml. standard size geometry. Results for the 100 ml. geometry showed approximately a 15% higher bias.

APPENDIX B

DATA REPORTING CONVENTIONS

APPENDIX B

DATA REPORTING CONVENTIONS

Data Reporting Conventions

1.0. All activities, except gross alpha and gross beta, are decay corrected to collection time or the end of the collection period.

2.0. Single Measurements

Each single measurement is reported as follows: $x \pm s$

where: x = value of the measurement;

$s = 2\sigma$ counting uncertainty (corresponding to the 95% confidence level).

In cases where the activity is less than the lower limit of detection L , it is reported as: $< L$,
where L = the lower limit of detection based on 4.66σ uncertainty for a background sample.

3.0. Duplicate analyses

3.1 Individual results: For two analysis results; $x_1 \pm s_1$ and $x_2 \pm s_2$

Reported result: $x \pm s$; where $x = (1/2)(x_1 + x_2)$ and $s = (1/2)\sqrt{s_1^2 + s_2^2}$

3.2. Individual results: $< L_1$, $< L_2$ Reported result: $< L$, where L = lower of L_1 and L_2

3.3. Individual results: $x \pm s$, $< L$ Reported result: $x \pm s$ if $x \geq L$; $< L$ otherwise.

4.0. Computation of Averages and Standard Deviations

4.1 Averages and standard deviations listed in the tables are computed from all of the individual measurements over the period averaged; for example, an annual standard deviation would not be the average of quarterly standard deviations. The average \bar{x} and standard deviation s of a set of n numbers $x_1, x_2 \dots x_n$ are defined as follows:

$$\bar{x} = \frac{1}{n} \sum x \quad s = \sqrt{\frac{\sum (x - \bar{x})^2}{n-1}}$$

4.2 Values below the highest lower limit of detection are not included in the average.

4.3 If all values in the averaging group are less than the highest LLD, the highest LLD is reported.

4.4 If all but one of the values are less than the highest LLD, the single value x and associated two sigma error is reported.

4.5 In rounding off, the following rules are followed:

4.5.1. If the number following those to be retained is less than 5, the number is dropped, and the retained number s are kept unchanged. As an example, 11.443 is rounded off to 11.44.

4.5.2. If the number following those to be retained is equal to or greater than 5, the number is dropped and the last retained number is raised by 1. As an example, 11.445 is rounded off to 11.45.

Table 4.5 Radiological Environmental Monitoring Program Summary

Name of Facility Davis-Besse Nuclear Power Station	Docket No. 50-346
Location of Facility Ottawa, Ohio (County, State)	Reporting Period January-December, 2006

Sample Type (Units)	Type and Number of Analyses ^a	LLD ^b	Indicator Locations Mean (F) ^c Range ^c	Location with Highest Annual Mean		Control Locations Mean (F) ^c Range ^c	Number Non-Routine Results ^e
				Location ^d	Mean (F) ^c Range ^c		
Airborne Particulates (pCi/m ³)	GB 520	0.005	0.023 (312/312) (0.007-0.053)	Site Boundary 0.6 mi. ENE	0.024 (52/52) (0.009-0.053)	0.023 (208/208) (0.008-0.046)	0
	Sr-89	0.0011	< LLD	-	-	< LLD	0
	Sr-90	0.0006	< LLD	-	-	< LLD	0
	GS 40	0.015	0.077 (24/24) (0.050-0.104)	T-4, Site Boundary 0.8 mi. S	0.083 (4/4) (0.071-0.104)	0.072 (16/16) (0.036-0.110)	0
Airborne Iodine (pCi/m ³)	I-131 520	0.07	< LLD	-	-	< LLD	0
TLD (Quarterly) (mR/91 days)	Gamma 350	1.0	15.1 (307/307) (7.5-23.7)	T-8, Farm 2.7 mi. WSW	22.6 (4/4) (20.9-23.7)	16.2 (43/43) (12.0-20.0)	0
TLD (Quarterly) (mR/91 days) (Shield)	Gamma 4	1.0	7.4 (4/4) (6.8-8.6)	-	-	None	0
TLD (Annual) (mR/365 days)	Gamma 86	1.0	57.6 (76/76) (35.7-90.1)	T-8, Farm 2.7 mi. WSW	90.1 (1/1)	63.6 (10/10) (49.2-81.2)	0
TLD (Annual) (mR/365 days) (Shield)	Gamma 1	1.0	25.4 (1/1)	-	-	None	0

Table 4.5 Radiological Environmental Monitoring Program Summary

Name of Facility Location of Facility	Davis-Besse Nuclear Power Station Ottawa, Ohio (County, State)			Docket No. Reporting Period	50-346 January-December, 2006
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Sample Type (Units)	Type and Number of Analyses ^a	LLD ^b	Indicator Locations Mean (F) ^c Range ^c	Location with Highest Annual Mean		Control Locations Mean (F) ^c Range ^c	Number Non-Routine Results ^e
				Location ^d	Mean (F) ^c Range ^c		
Treated Surface Water (pCi/L)	GB (TR) 48	1.0	2.0 (24/24) (1.1-4.3)	T-22, Carroll Twp. WTP, 3.0 mi. NW	2.1 (12/12) (1.1-4.3)	1.9 (24/24) (0.8-3.1)	0
	H-3 16	330	< LLD	-	-	< LLD	0
	Sr-89 16	1.4	< LLD	-	-	< LLD	0
	Sr-90 16	0.6	< LLD	-	-	< LLD	0
	GS 16						
	Mn-54 15		< LLD	-	-	< LLD	0
	Fe-59 30		< LLD	-	-	< LLD	0
	Co-58 15		< LLD	-	-	< LLD	0
	Co-60 15		< LLD	-	-	< LLD	0
	Zn-65 30		< LLD	-	-	< LLD	0
	Zr-Nb-95 15		< LLD	-	-	< LLD	0
	Cs-134 10		< LLD	-	-	< LLD	0
	Cs-137 10		< LLD	-	-	< LLD	0
	Ba-La-140 15		< LLD	-	-	< LLD	0
Untreated Surface Water (pCi/L)	GB (TR) 60	1.0	2.4 (36/36) (1.1-5.5)	T-3, Site Boundary 1.4 mi. ESE	2.9 (12/12) (2.2-5.5)	2.2 (24/24) (1.3-4.3)	0
	H-3 60	330	< LLD	-	-	< LLD	0
	Sr-89 20	1.1	< LLD	-	-	< LLD	0
	Sr-90 20	0.7	< LLD	-	-	< LLD	0
	GS 60						
	Mn-54 15		< LLD	-	-	< LLD	0
	Fe-59 30		< LLD	-	-	< LLD	0
	Co-58 15		< LLD	-	-	< LLD	0
	Co-60 15		< LLD	-	-	< LLD	0
	Zn-65 30		< LLD	-	-	< LLD	0
	Zr-Nb-95 15		< LLD	-	-	< LLD	0
	Cs-134 10		< LLD	-	-	< LLD	0
	Cs-137 10		< LLD	-	-	< LLD	0
	Ba-La-140 15		< LLD	-	-	< LLD	0

Table 4.5 Radiological Environmental Monitoring Program Summary

Name of Facility Location of Facility	Davis-Besse Nuclear Power Station Ottawa, Ohio (County, State)				Docket No. Reporting Period	50-346 January-December, 2006	
Sample Type (Units)	Type and Number of Analyses ^a	LLD ^b	Indicator Locations Mean (F) ^c Range ^c	Location with Highest Annual Mean		Control Locations Mean (F) ^c Range ^c	Number Non-Routine Results ^e
				Location ^d	Mean (F) ^c Range ^c		
Airborne Particulates (pCi/m ³)	GB 520	0.005	0.023 (312/312) (0.007-0.053)	Site Boundary 0.6 mi. ENE	0.024 (52/52) (0.009-0.053)	0.023 (208/208) (0.008-0.046)	0
	Sr-89	0.0011	< LLD	-	-	< LLD	0
	Sr-90	0.0006	< LLD	-	-	< LLD	0
	GS 40	0.015	0.077 (24/24) (0.050-0.104)	T-4, Site Boundary 0.8 mi. S	0.083 (4/4) (0.071-0.104)	0.072 (16/16) (0.036-0.110)	0
Airborne Iodine (pCi/m ³)	I-131 520	0.07	< LLD	-	-	< LLD	0
TLD (Quarterly) (mR/91 days)	Gamma 350	1.0	15.1 (307/307) (7.5-23.7)	T-8, Farm 2.7 mi. WSW	22.6 (4/4) (20.9-23.7)	16.2 (43/43) (12.0-20.0)	0
TLD (Quarterly) (mR/91 days) (Shield)	Gamma 4	1.0	7.4 (4/4) (6.8-8.6)	-	-	None	0
TLD (Annual) (mR/365 days)	Gamma 86	1.0	57.6 (76/76) (35.7-90.1)	T-8, Farm 2.7 mi. WSW	90.1 (1/1)	63.6 (10/10) (49.2-81.2)	0
TLD (Annual) (mR/365 days) (Shield)	Gamma 1	1.0	25.4 (1/1)	-	-	None	0

Table 4.5 Radiological Environmental Monitoring Program Summary

Name of Facility Location of Facility		Davis-Besse Nuclear Power Station Ottawa, Ohio (County, State)			Docket No. Reporting Period	50-346 January-December, 2006			
Sample Type (Units)	Type and Number of Analyses ^a	LLD ^b	Indicator Locations Mean (F) ^c Range ^c	Location with Highest Annual Mean		Control Locations Mean (F) ^c Range ^c	Number Non- Routine Results ^e		
				Location ^d	Mean (F) ^c Range ^c				
Milk (pCi/L)	I-131	12	0.4	none	-	-	< LLD	0	
	Sr-89	12	0.8	none	-	-	< LLD	0	
	Sr-90	12	0.5	none	T-24, Sandusky 21.0 mi. SE	1.0 (8/12) (0.8-1.4)	1.0 (8/12) (0.8-1.4)	0	
	GS	12		K-40	T-24, Sandusky 21.0 mi. SE	1316 (12/12) (1229-1414)	1316 (12/12) (1229-1414)	0	
				Cs-134	5.2				
				Cs-137	6.5	none	< LLD	0	
				Ba-La-140	7.8	none	< LLD	0	
	(g/L)	Ca	12	0.50	none	T-24, Sandusky 21.0 mi. SE	1.14 (12/12) (0.75-1.51)	1.14 (12/12) (0.75-1.51)	0
	(g/L)	K (stable)	12		none	T-24, Sandusky 21.0 mi. SE	1.52 (12/12) (1.42-1.63)	1.52 (12/12) (1.42-1.63)	0
	(pCi/g)	Sr-90/Ca	12		none	T-24, Sandusky 21.0 mi. SE	0.85 (10/12) (0.40-1.87)	0.85 (10/12) (0.40-1.87)	0
	(pCi/g)	Cs-137/K	12		none	-	-	< LLD	0
Ground Water (pCi/L)	GB (TR)	8	2.2	2.5 (2/4) (2.5-2.5)	T-27, Crane Creek S.P., 5.8 mi. WNW	4.1 (1/4)	4.1 (1/4)		
	H-3	8	330	< LLD	-	-	< LLD	0	
	Sr-89	8	0.9	< LLD	-	-	< LLD	0	
	Sr-90	8	0.5	< LLD	-	-	< LLD	0	
	GS			Mn-54	15	< LLD	< LLD	0	
				Fe-59	30	< LLD	< LLD	0	
				Co-58	15	< LLD	< LLD	0	
				Co-60	15	< LLD	< LLD	0	
				Zn-65	30	< LLD	< LLD	0	
				Zr-95	15	< LLD	< LLD	0	
				Cs-134	10	< LLD	< LLD	0	
				Cs-137	10	< LLD	< LLD	0	
				Ba-La-140	15	< LLD	< LLD	0	

Table 4.5 Radiological Environmental Monitoring Program Summary

Name of Facility Location of Facility	Davis-Besse Nuclear Power Station Ottawa, Ohio (County, State)				Docket No. Reporting Period	50-346 January-December, 2006	
Sample Type (Units)	Type and Number of Analyses ^a	LLD ^b	Indicator Locations Mean (F) ^c Range ^c	Location with Highest Annual Mean		Control Locations Mean (F) ^c Range ^c	Number Non-Routine Results ^e
				Location ^d	Mean (F) ^c Range ^c		
Meat (Wild) (pCi/g wet)	GS K-40 2	0.10	2.28 (1/1)	T-210, roving offsite location	2.69 (1/1)	2.69 (1/1)	0
	Nb-95	0.016	< LLD		-	-	< LLD 0
	Zr-95	0.018	< LLD		-	-	< LLD 0
	Ru-103	0.015	< LLD		-	-	< LLD 0
	Ru-106	0.061	< LLD		-	-	< LLD 0
	Cs-134	0.006	< LLD		-	-	< LLD 0
	Cs-137	0.005	< LLD		-	-	< LLD 0
	Ce-141	0.026	< LLD		-	-	< LLD 0
	Ce-144	0.069	< LLD		-	-	< LLD 0
Fruits and Vegetables (pCi/g wet)	Sr-89 3	0.004	< LLD	T-209, Roving Off-site location	-	-	< LLD 0
	Sr-90 3	0.002	< LLD		0.003 (1/2)	0.003 (1/2)	0
	I-131 3	0.033	< LLD		-	-	< LLD 0
	GS K-40 3	0.50	1.34 (2/2) (1.31 - 1.37)		T-25, Residence 1.6 mi. S	1.37 (1/1)	0.95 (1/1) 0
	Nb-95	0.011	< LLD		-	-	< LLD 0
	Zr-95	0.016	< LLD		-	-	< LLD 0
	Cs-134	0.007	< LLD		-	-	< LLD 0
	Cs-137	0.009	< LLD		-	-	< LLD 0
	Ce-141	0.029	< LLD		-	-	< LLD 0
	Ce-144	0.091	< LLD		-	-	< LLD 0
Broad Leaf Vegetation (pCi/g wet)	Sr-89 9	0.004	< LLD	T-19, Farm 0.68 mi. W	-	-	< LLD 0
	Sr-90 9	0.002	0.002 (1/6)		0.002 (1/4)	< LLD	0
	I-131 9	0.025	< LLD		-	-	< LLD 0
	GS K-40 9	0.50	2.04 (6/6) (1.91-2.17)		T-227, Roving Off-site location	2.12 (2/2) (2.06-2.17)	1.77 (3/3) (1.71-1.85) 0
	Nb-95	0.021	< LLD		-	-	< LLD 0
	Zr-95	0.036	< LLD		-	-	< LLD 0
	Cs-134	0.011	< LLD		-	-	< LLD 0
	Cs-137	0.012	< LLD		-	-	< LLD 0
	Ce-141	0.024	< LLD		-	-	< LLD 0
	Ce-144	0.14	< LLD		-	-	< LLD 0

Table 4.5 Radiological Environmental Monitoring Program Summary

Name of Facility	Davis-Besse Nuclear Power Station			Docket No.	50-346
Location of Facility	Ottawa, Ohio (County, State)			Reporting Period	January-December, 2006

Sample Type (Units)	Type and Number of Analyses ^a	LLD ^b	Indicator Locations Mean (F) ^c Range ^c	Location with Highest Annual Mean		Control Locations Mean (F) ^c Range ^c	Number Non-Routine Results ^e
				Location ^d	Mean (F) ^c Range ^c		
Animal / Wildlife Feed (pCi/g wet)	GS Be-7 3	0.27	0.30 (1/2)	T-31, Roving On-site location	0.30 (1/1)	< LLD	0
	K-40	0.10	2.15 (2/2) (1.55-2.74)	T-31, Roving On-site location	2.74 (1/1)	1.48 (1/1)	0
	Nb-95	0.033	< LLD	-	-	< LLD	0
	Zr-95	0.038	< LLD	-	-	< LLD	0
	Ru-103	0.030	< LLD	-	-	< LLD	0
	Ru-106	0.13	< LLD	-	-	< LLD	0
	Cs-134	0.017	< LLD	-	-	< LLD	0
	Cs-137	0.015	< LLD	-	-	< LLD	0
	Ce-141	0.078	< LLD	-	-	< LLD	0
	Ce-144	0.13	< LLD	-	-	< LLD	0
Soil (pCi/g dry)	GS Be-7 10	0.67	1.09 (1/6)	T-4, Site Boundary 0.8 mi. S	1.09 (1/1)	< LLD	0
	K-40	0.10	13.35 (6/6) (6.17-25.26)	T-8, Farm 2.7 mi. WSW	25.26 (1/1)	16.74 (4/4) (10.53-22.45)	0
	Nb-95	0.11	< LLD	-	-	< LLD	0
	Zr-95	0.13	< LLD	-	-	< LLD	0
	Ru-103	0.10	< LLD	-	-	< LLD	0
	Ru-106	0.41	< LLD	-	-	< LLD	0
	Cs-134	0.072	< LLD	-	-	< LLD	0
	Cs-137	0.096	0.15 (3/6) (0.13-0.19)	T-12, Water Treatment Plant, 23.5 mi. WNW	0.22 (1/1)	0.22 (2/4) (0.21-0.22)	0
	Ce-141	0.17	< LLD	-	-	< LLD	0
	Ce-144	0.32	< LLD	-	-	< LLD	0

Table 4.5 Radiological Environmental Monitoring Program Summary

Name of Facility Location of Facility	Davis-Besse Nuclear Power Station Ottawa, Ohio (County, State)			Docket No.	50-346
				Reporting Period	January-December, 2006

Sample Type (Units)	Type and Number of Analyses ^a	LLD ^b	Indicator Locations Mean (F) ^c Range ^c	Location with Highest Annual Mean		Control Locations Mean (F) ^c Range ^c	Number Non-Routine Results ^e		
				Location ^d	Mean (F) ^c Range ^c				
Milk (pCi/L)	I-131	12	0.4	none	-	-	< LLD	0	
	Sr-89	12	0.8	none	-	-	< LLD	0	
	Sr-90	12	0.5	none	T-24, Sandusky 21.0 mi. SE	1.0 (8/12) (0.8-1.4)	1.0 (8/12) (0.8-1.4)	0	
	GS	12		none	T-24, Sandusky 21.0 mi. SE	1316 (12/12) (1229-1414)	1316 (12/12) (1229-1414)	0	
	K-40		100	none					
	Cs-134		5.2						
	Cs-137		6.5	none	-	-	< LLD	0	
	Ba-La-140		7.8	none	-	-	< LLD	0	
	(g/L)	Ca	12	0.50	none	T-24, Sandusky 21.0 mi. SE	1.14 (12/12) (0.75-1.51)	1.14 (12/12) (0.75-1.51)	0
	(g/L)	K (stable)	12		none	T-24, Sandusky 21.0 mi. SE	1.52 (12/12) (1.42-1.63)	1.52 (12/12) (1.42-1.63)	0
(pCi/g)	Sr-90/Ca	12		none	T-24, Sandusky 21.0 mi. SE	0.85 (10/12) (0.40-1.87)	0.85 (10/12) (0.40-1.87)	0	
(pCi/g)	Cs-137/K	12		none	-	-	< LLD	0	
Ground Water (pCi/L)	GB (TR)	8	2.2	2.5 (2/4) (2.5-2.5)	T-27, Crane Creek S.P., 5.8 mi. WNW	4.1 (1/4)	4.1 (1/4)		
	H-3	8	330	< LLD	-	-	< LLD	0	
	Sr-89	8	0.9	< LLD	-	-	< LLD	0	
	Sr-90	8	0.5	< LLD	-	-	< LLD	0	
	GS								
	Mn-54	15	< LLD		-	-	< LLD	0	
	Fe-59	30	< LLD		-	-	< LLD	0	
	Co-58	15	< LLD		-	-	< LLD	0	
	Co-60	15	< LLD		-	-	< LLD	0	
	Zn-65	30	< LLD		-	-	< LLD	0	
	Zr-95	15	< LLD		-	-	< LLD	0	
	Cs-134	10	< LLD		-	-	< LLD	0	
	Cs-137	10	< LLD		-	-	< LLD	0	
	Ba-La-140	15	< LLD		-	-	< LLD	0	

Table 4.5 Radiological Environmental Monitoring Program Summary

Name of Facility Location of Facility	Davis-Besse Nuclear Power Station Ottawa, Ohio (County, State)	Docket No. Reporting Period	50-346 January-December, 2006
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Sample Type (Units)	Type and Number of Analyses ^a	LLD ^b	Indicator Locations Mean (F) ^c Range ^c	Location with Highest Annual Mean		Control Locations Mean (F) ^c Range ^c	Number Non-Routine Results ^d
				Location ^d	Mean (F) ^c Range ^c		
Meat (Wild) (pCi/g wet)	GS K-40	2	0.10 2.28 (1/1)	T-210, roving offsite location	2.69 (1/1)	2.69 (1/1)	0
	Nb-95	0.016	< LLD	-	-	< LLD	0
	Zr-95	0.018	< LLD	-	-	< LLD	0
	Ru-103	0.015	< LLD	-	-	< LLD	0
	Ru-106	0.061	< LLD	-	-	< LLD	0
	Cs-134	0.006	< LLD	-	-	< LLD	0
	Cs-137	0.005	< LLD	-	-	< LLD	0
	Ce-141	0.026	< LLD	-	-	< LLD	0
	Ce-144	0.069	< LLD	-	-	< LLD	0
Fruits and Vegetables (pCi/g wet)	Sr-89	3	0.004 < LLD	-	-	< LLD	0
	Sr-90	3	0.002 < LLD	T-209, Roving Off-site location	0.003 (1/2)	0.003 (1/2)	0
	I-131	3	0.033 < LLD	-	-	< LLD	0
	GS K-40	3	0.50 1.34 (2/2) (1.31 - 1.37)	T-25, Residence 1.6 mi. S	1.37 (1/1)	0.95 (1/1)	0
	Nb-95	0.011	< LLD	-	-	< LLD	0
	Zr-95	0.016	< LLD	-	-	< LLD	0
	Cs-134	0.007	< LLD	-	-	< LLD	0
	Cs-137	0.009	< LLD	-	-	< LLD	0
	Ce-141	0.029	< LLD	-	-	< LLD	0
	Ce-144	0.091	< LLD	-	-	< LLD	0
	Sr-89	9	0.004 < LLD	-	-	< LLD	0
	Sr-90	9	0.002 0.002 (1/6)	T-19, Farm 0.68 mi. W	0.002 (1/4)	< LLD	0
Broad Leaf Vegetation (pCi/g wet)	I-131	9	0.025 < LLD	-	-	< LLD	0
	GS K-40	9	0.50 2.04 (6/6) (1.91-2.17)	T-227, Roving Off-site location	2.12 (2/2) (2.06-2.17)	1.77 (3/3) (1.71-1.85)	0
	Nb-95	0.021	< LLD	-	-	< LLD	0
	Zr-95	0.036	< LLD	-	-	< LLD	0
	Cs-134	0.011	< LLD	-	-	< LLD	0
	Cs-137	0.012	< LLD	-	-	< LLD	0
	Ce-141	0.024	< LLD	-	-	< LLD	0
	Ce-144	0.14	< LLD	-	-	< LLD	0

Table 4.5 Radiological Environmental Monitoring Program Summary

Name of Facility	<u>Davis-Besse Nuclear Power Station</u>			Docket No.	<u>50-346</u>
Location of Facility	<u>Ottawa, Ohio</u>			Reporting Period	<u>January-December, 2006</u>
(County, State)					

Sample Type (Units)	Type and Number of Analyses ^a	LLD ^b	Indicator Locations Mean (F) ^c Range ^c	Location with Highest Annual Mean		Control Locations Mean (F) ^c Range ^c	Number Non-Routine Results ^e	
				Location ^d	Mean (F) ^c Range ^c			
Animal / Wildlife Feed (pCi/g wet)	GS Be-7	3	0.27	0.30 (1/2)	T-31, Roving On-site location	0.30 (1/1)	< LLD	0
	K-40	0.10	2.15 (2/2) (1.55-2.74)	T-31, Roving On-site location	2.74 (1/1)	1.48 (1/1)	0	
	Nb-95	0.033	< LLD	-	-	< LLD	0	
	Zr-95	0.038	< LLD	-	-	< LLD	0	
	Ru-103	0.030	< LLD	-	-	< LLD	0	
	Ru-106	0.13	< LLD	-	-	< LLD	0	
	Cs-134	0.017	< LLD	-	-	< LLD	0	
	Cs-137	0.015	< LLD	-	-	< LLD	0	
	Ce-141	0.078	< LLD	-	-	< LLD	0	
Soil (pCi/g dry)	GS Be-7	10	0.67	1.09 (1/6)	T-4, Site Boundary 0.8 mi. S	1.09 (1/1)	< LLD	0
	K-40	0.10	13.35 (6/6) (6.17-25.26)	T-8, Farm 2.7 mi. WSW	25.26 (1/1)	16.74 (4/4) (10.53-22.45)	0	
	Nb-95	0.11	< LLD	-	-	< LLD	0	
	Zr-95	0.13	< LLD	-	-	< LLD	0	
	Ru-103	0.10	< LLD	-	-	< LLD	0	
	Ru-106	0.41	< LLD	-	-	< LLD	0	
	Cs-134	0.072	< LLD	-	-	< LLD	0	
	Cs-137	0.096	0.15 (3/6) (0.13-0.19)	T-12, Water Treatment Plant, 23.5 mi. WNW	0.22 (1/1)	0.22 (2/4) (0.21-0.22)	0	
	Ce-141	0.17	< LLD	-	-	< LLD	0	
	Ce-144	0.32	< LLD	-	-	< LLD	0	

Table 4.5 Radiological Environmental Monitoring Program Summary

Name of Facility	Davis-Besse Nuclear Power Station			Docket No.	50-346
Location of Facility	Ottawa, Ohio			Reporting Period	January-December, 2006
(County, State)					

Sample Type (Units)	Type and Number of Analyses ^a	LLD ^b	Indicator Locations Mean (F) ^c Range ^c	Location with Highest Annual Mean		Control Locations Mean (F) ^c Range ^c	Number Non-Routine Results ^d
				Location ^d	Mean (F) ^c Range ^c		
Treated Surface Water (pCi/L)	GB (TR) 48	1.0	2.0 (24/24) (1.1-4.3)	T-22, Carroll Twp. WTP, 3.0 mi. NW	2.1 (12/12) (1.1-4.3)	1.9 (24/24) (0.8-3.1)	0
	H-3 16	330	< LLD	-	-	< LLD	0
	Sr-89 16	1.4	< LLD	-	-	< LLD	0
	Sr-90 16	0.6	< LLD	-	-	< LLD	0
	GS 16						
	Mn-54 15		< LLD	-	-	< LLD	0
	Fe-59 30		< LLD	-	-	< LLD	0
	Co-58 15		< LLD	-	-	< LLD	0
	Co-60 15		< LLD	-	-	< LLD	0
	Zn-65 30		< LLD	-	-	< LLD	0
	Zr-Nb-95 15		< LLD	-	-	< LLD	0
	Cs-134 10		< LLD	-	-	< LLD	0
	Cs-137 10		< LLD	-	-	< LLD	0
	Ba-La-140 15		< LLD	-	-	< LLD	0
Untreated Surface Water (pCi/L)	GB (TR) 60	1.0	2.4 (36/36) (1.1-5.5)	T-3, Site Boundary 1.4 mi. ESE	2.9 (12/12) (2.2-5.5)	2.2 (24/24) (1.3-4.3)	0
	H-3 60	330	< LLD	-	-	< LLD	0
	Sr-89 20	1.1	< LLD	-	-	< LLD	0
	Sr-90 20	0.7	< LLD	-	-	< LLD	0
	GS 60						
	Mn-54 15		< LLD	-	-	< LLD	0
	Fe-59 30		< LLD	-	-	< LLD	0
	Co-58 15		< LLD	-	-	< LLD	0
	Co-60 15		< LLD	-	-	< LLD	0
	Zn-65 30		< LLD	-	-	< LLD	0
	Zr-Nb-95 15		< LLD	-	-	< LLD	0
	Cs-134 10		< LLD	-	-	< LLD	0
	Cs-137 10		< LLD	-	-	< LLD	0
	Ba-La-140 15		< LLD	-	-	< LLD	0

Table 4.5 Radiological Environmental Monitoring Program Summary

Name of Facility	<u>Davis-Besse Nuclear Power Station</u>			Docket No.	<u>50-346</u>
Location of Facility	<u>Ottawa, Ohio</u>			Reporting Period	<u>January-December, 2006</u>
(County, State)					

Sample Type (Units)	Type and Number of Analyses ^a	LLD ^b	Indicator Locations Mean (F) ^c Range ^c	Location with Highest Annual Mean		Control Locations Mean (F) ^c Range ^c	Number Non-Routine Results ^d
				Location ^d	Mean (F) ^c Range ^c		
Fish (pCi/g wet)	GB 6	0.10	3.90 (3/3) (3.61-4.10)	T-33, Lake Erie 1.5 mi. NE	3.90 (3/3) (3.61-4.10)	3.17 (3/3) (2.16-3.97)	0
	GS 6	0.10	3.26 (3/3) (2.74-3.75)	T-33, Lake Erie 1.5 mi. NE	3.26 (3/3) (2.74-3.75)	2.89 (3/3) (2.72-2.99)	0
	Mn-54	0.029	< LLD	-	-	< LLD	0
	Fe-59	0.23	< LLD	-	-	< LLD	0
	Co-58	0.050	< LLD	-	-	< LLD	0
	Co-60	0.027	< LLD	-	-	< LLD	0
	Zn-65	0.044	< LLD	-	-	< LLD	0
	Cs-134	0.050	< LLD	-	-	< LLD	0
Shoreline Sediments (pCi/g dry)	GS 10? 8	~5 locations	10.61 (6/6) (6.73-12.93)	T-4, Site Boundary 0.8 mi. S	11.57 (2/2) (10.57-12.56)	9.72 (2/2) (9.31-10.13)	0
	K-40	0.10	< LLD	-	-	< LLD	0
	Mn-54	0.026	< LLD	-	-	< LLD	0
	Co-58	0.037	< LLD	-	-	< LLD	0
	Co-60	0.023	< LLD	-	-	< LLD	0
	Cs-134	0.029	< LLD	-	-	< LLD	0
	Cs-137	0.034	< LLD	-	-	< LLD	0

^a GB = gross beta, GS = gamma scan.^b LLD = nominal lower limit of detection based on a 4.66 sigma counting error for background sample.^c Mean and range are based on detectable measurements only (i.e., >LLD) Fraction of detectable measurements at specified locations is indicated in parentheses (F).^d Locations are specified by station code (Table 4.1) and distance (miles) and direction relative to reactor site..^e Non-routine results are those which exceed ten times the control station value.

Table 4.5 Radiological Environmental Monitoring Program Summary

Name of Facility Location of Facility	Davis-Besse Nuclear Power Station Ottawa, Ohio (County, State)	Docket No. Reporting Period	50-346 January-December, 2006
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Sample Type (Units)	Type and Number of Analyses ^a	LLD ^b	Indicator Locations Mean (F) ^c Range ^c	Location with Highest Annual Mean		Control Locations Mean (F) ^c Range ^c	Number Non-Routine Results ^e
				Location ^d	Mean (F) ^c Range ^c		
Fish (pCi/g wet)	GB 6	0.10	3.90 (3/3) (3.61-4.10)	T-33, Lake Erie 1.5 mi. NE	3.90 (3/3) (3.61-4.10)	3.17 (3/3) (2.16-3.97)	0
	GS 6	0.10	3.26 (3/3) (2.74-3.75)	T-33, Lake Erie 1.5 mi. NE	3.26 (3/3) (2.74-3.75)	2.89 (3/3) (2.72-2.99)	0
	Mn-54	0.029	< LLD	-	-	< LLD	0
	Fe-59	0.23	< LLD	-	-	< LLD	0
	Co-58	0.050	< LLD	-	-	< LLD	0
	Co-60	0.027	< LLD	-	-	< LLD	0
	Zn-65	0.044	< LLD	-	-	< LLD	0
	Cs-134	0.050	< LLD	-	-	< LLD	0
Shoreline Sediments (pCi/g dry)	GS K-40 8	0.10	10.61 (6/6) (6.73-12.93)	T-4, Site Boundary 0.8 mi. S	11.57 (2/2) (10.57-12.56)	9.72 (2/2) (9.31-10.13)	0
	Mn-54	0.026	< LLD	-	-	< LLD	0
	Co-58	0.037	< LLD	-	-	< LLD	0
	Co-60	0.023	< LLD	-	-	< LLD	0
	Cs-134	0.029	< LLD	-	-	< LLD	0
	Cs-137	0.034	< LLD	-	-	< LLD	0

^a GB = gross beta, GS = gamma scan.^b LLD = nominal lower limit of detection based on a 4.66 sigma counting error for background sample.^c Mean and range are based on detectable measurements only (i.e., >LLD) Fraction of detectable measurements at specified locations is indicated in parentheses (F).^d Locations are specified by station code (Table 4.1) and distance (miles) and direction relative to reactor site..^e Non-routine results are those which exceed ten times the control station value.