WOLF CREEK
NUCLEAR OPERATING CORPORATION

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Manager Regulatory Affairs

April 28, 2008

RA 08-0037

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

Subject: Docket No. 50-482: 2007 Annual Radiological Environmental Operating Report

Gentlemen:

Enclosed is the Annual Radiological Environmental Operating Report, which is being submitted pursuant to Wolf Creek Generating Station (WCGS) Technical Specification 5.6.2. This report covers radiological environmental monitoring around WCGS for the period of January 1, 2007, through December 31, 2007.

No commitments are identified in this correspondence. If you have any questions concerning this matter, please contact me at (620) 364-4117, or Ms. Diane Hooper at (620) 364-4041.

Sincerely,

Diane M. Hooper for

Richard D. Flannigan

RDF/rlt

Enclosure: 2007 Annual Radiological Environmental Operating Report

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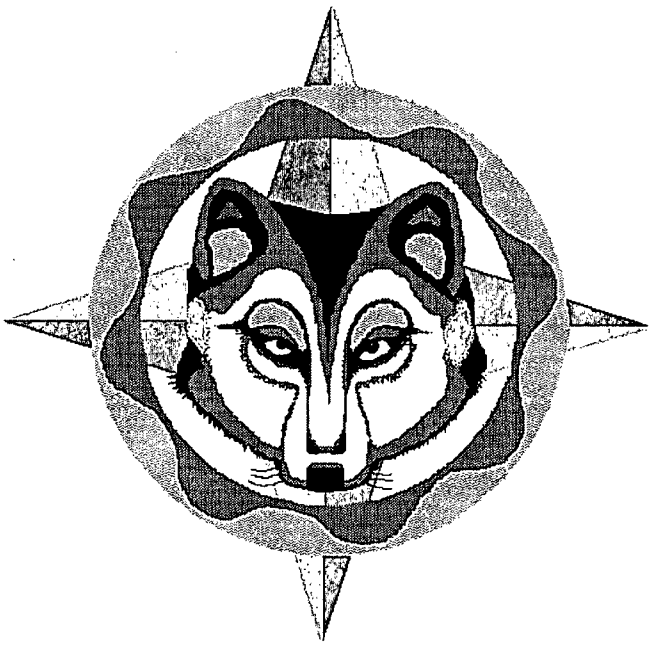
WOLF CREEK NUCLEAR OPERATING CORPORATION

WOLF CREEK GENERATING STATION

2007 ANNUAL RADIOLOGICAL

ENVIRONMENTAL OPERATING REPORT



April 15, 2008

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF CHARTS

EXECUTIVE SUMMARY

Plant-related activation, corrosion or fission products were not detected during 2007 in airborne particulate and radioiodine filters, ground water, drinking water, shoreline sediment, broadleaf vegetation, crops, terrestrial vegetation, aquatic vegetation, or soil samples. Activation, corrosion or fission products attributable to plant operation were detected during 2007 in surface water, fish, and bottom sediment samples.

Nuclides detected in Radiological Environmental Monitoring Program (REMP) samples were below applicable NRC reporting levels.

Based upon the radiological environmental monitoring results, it was concluded that station operations had no significant radiological impact on the health and safety of the public or the environment.

INTRODUCTION

The 2007 Annual Radiological Environmental Operating Report for Wolf Creek Generating Station (WCGS) covers the period from January 1 through December 31, 2007. WCGS is located in Coffey County, Kansas, approximately five miles northeast of Burlington, Kansas.

Fuel loading commenced at WCGS on March 12, 1985. The operational phase of the REMP began with initial criticality on May 22, 1985, and the first detectable quantities of radioactivity were reported in plant effluents in June 1985.

This report contains a description of the REMP conducted by Wolf Creek Nuclear Operating Corporation (WCNOC), a discussion of monitoring program results, the revisions or changes to the program, program deviations, the Interlaboratory Comparison Program and a comparison to the Radioactive Effluents Release Program. The Interlaboratory Comparison Program results, a summary of results in the Nuclear Regulatory Commission (NRC) Branch Technical Position specified format, the individual sample results and the Land Use Census Report are included as appendices.

I. PROGRAM DESCRIPTION

Radiological environmental samples were collected according to the schedule in WCGS procedure AP 07B-004, *Offsite Dose Calculation Manual (Radiological Environmental Monitoring Program)*. Environmental samples were collected by the WCGS Environmental Management group and were analyzed by Environmental, Inc. Detroit Edison processed environmental thermoluminescent dosimeters (TLDs) at the Enrico Fermi 2 plant. Table 1 lists sampling pathways and frequencies of sampling and analysis. Table 2 lists each sample location's distance and direction from the plant. Samples in addition to those required by the WCGS Offsite Dose Calculation Manual (ODCM) were also obtained and analyzed.

The following is a description of the sampling and analysis program by individual pathways.

A. Airborne Pathway

Low volume air sampling pumps collected particulate and radioiodine samples on 47 mm glass fiber filters and charcoal canisters, respectively. The filters and charcoal canisters were changed out weekly, labeled, and shipped to Environmental, Inc. for analysis. During February of 2007, air samplers with digital flow meters were installed. These air sample units digitally display the total time, total volume and flow rate.

Gross beta analysis of the air particulate samples was performed after a nominal 72-hour period to allow the radon and thoron daughter products to decay.

Weekly air particulate filters were combined into quarterly composites for each location and analyzed for gamma emitting isotopes.

Charcoal canisters were routinely counted in groups of five to determine the presence or absence of I-131. Positive indication of I-131 would have resulted in analysis of each individual charcoal canister.

Air samples were collected from six locations. Indicator locations 2, 37 and 49 are located in the three sectors with the highest ground level deposition constants (D/Q). Air sampling stations are also located in the community of New Strawn (indicator location 32) and a control location at Harris (location 48). Supplemental indicator location (location 18) was also sampled during the year. Distances and directions to sampling locations from the plant are listed in Table 2, indicator locations are shown in Figure 1, and the control location is shown in Figure 5.

B. Direct Radiation Pathway

Panasonic UD-814 TLDs were used at 43 locations during the sample year. The TLDs consist of one lithium-borate element and three calcium sulfate elements in a plastic case.

TLDs were typically positioned roughly 3 to 4 feet above the ground in plastic thermostat boxes. The thermostat boxes protect the TLDs from the elements and tampering. Two TLDs were placed at each designated location. The TLDs were changed out quarterly. Indicator TLD sample locations are illustrated in Figure 2 and control locations are shown in Figure 5. Table 2 provides the distance and direction of each location from the plant. Control locations were 39 (Beto Junction) and 48 (Harris).

C. Waterborne Pathway

All water samples were analyzed to determine whether gamma emitters were present. In addition to gamma isotopic analysis, radiochemical analysis for I-131 was performed on drinking water and ground water samples. Gross beta analysis was also performed on drinking water samples. Tritium analysis was performed monthly by liquid scintillation for surface water and quarterly for drinking water. Tritium analysis was also performed on ground water samples. Water sampling locations are listed in Table 2 and are shown in Figures 3 and 5.

Monthly grab samples of surface water were collected from John Redmond Reservoir (JRR) as a control location and from the "SP" location, which is located near the spillway of Coffey County Lake, formally known as Wolf Creek Lake, as an indicator location.

Quarterly grab samples of ground water were collected from seven wells. Location B-12 is hydrologically up gradient from the site and was used as a control location. Six locations (C-10, C-49, F-1, G-2, J-1 and J-2) are hydrologically down gradient from the site and were used as indicator sample locations.

Drinking water was sampled at the water treatment facilities for the towns of Burlington (control location BW-15) and Iola (indicator location IO-DW). The Burlington facility is located upstream and the Iola facility is located downstream of the confluence of the discharge from Coffey County Lake and the Neosho River. Composite samples were obtained monthly from automatic samplers at each location that collected approximately 27 ml of drinking water every two hours.

Shoreline sediments were sampled semiannually. Gamma isotopic analysis was performed on the shoreline sediment samples. Shoreline sediment sample locations were the Coffey County Lake discharge cove (DC) indicator location and at the control location (JRR).

D. Ingestion Pathway

Because no sampling locations that produce milk for human consumption were identified within five miles of the plant, milk was not collected during the sample year.

Fish were sampled semiannually from the tail waters of JRR (control, Figure 4) and from Coffey County Lake (indicator, Figure 4). Gamma isotopic analysis was performed on the boneless meat portions of the fish. Several species of game fish and rough fish were sampled. Fish were also analyzed for tritium.

Broadleaf vegetation samples were collected monthly when available during the growing season from four gardens. Three indicator (C-2, N-1 and Q-6) gardens (Figure 4) and one control (D-2) garden (Figure 5) were sampled. Gamma isotopic analyses were performed on all samples.

Crop samples were obtained from two indicator locations (NR-D1 and NR-D2) downstream of the confluence of Wolf Creek and the Neosho River. Two crop samples were obtained from control location NR-U1. Gamma isotopic analysis was performed on each sample. Crop sample locations are identified on Figure 5.

E. Additional Samples Collected (not required by ODCM)

Quarterly, duplicate ground water grab samples were obtained from indicator location C-49 and were labeled L-49. These duplicate samples served as laboratory quality checks. The ground water samples were analyzed for gamma emitters, I-131 and tritium.

Shoreline sediments were collected at the Black Bear Bosin area (BBB) and the SC (Stringtown Cemetery). Gamma isotopic analysis was performed on the shoreline sediment samples. These indicator samples were collected as part of a cooperative sampling effort with the Kansas Department of Health and Environment (KDHE). The sample locations are identified on Figure 3.

Bottom sediment samples were collected at the Environmental Education Area (EEA) and from the Make-Up Discharge Structure (MUDS). Gamma isotopic analysis was performed on the

bottom sediment samples. These indicator samples were collected as part of a cooperative sampling effort with the Kansas Department of Health and Environment (KDHE). The sample locations are identified on Figure 3.

Bottom sediment samples were collected semiannually at the Coffey County Lake discharge cove (DC) indicator location and the control location (JRR). Gamma isotopic analysis was performed on the bottom sediment samples. These samples were collected as part of a cooperative sampling effort with the KDHE. The sample locations are identified on Figure 3.

Aquatic vegetation was collected from indicator locations EEA and SC. Gamma isotopic analysis was performed on the aquatic vegetation samples. These samples were collected as part of a cooperative sampling effort with the KDHE. The sample locations are identified on Figure 3.

Terrestrial vegetation was sampled from indicator locations EEA and MUDS. Gamma isotopic analysis was performed on the terrestrial vegetation sample. These samples were collected as part of a cooperative sampling effort with the KDHE. The sample locations are identified on Figure 4.

Soil was sampled from indicator locations MUDS and EEA. Gamma isotopic analysis was performed on the soil samples. These samples were collected as part of a cooperative sampling effort with the KDHE. The sample locations are identified on Figure 4.

Distance and direction information for the sampling locations listed in this section are outlined in Table 2.

II. DISCUSSION OF RESULTS

Analysis results for all pathways are summarized in Appendix B using the format described in Radiological Assessment Branch Technical Position, Revision 1, November 1979 (NRC Generic Letter 79-065). Results for individual samples are listed in Appendix C.

In this section, results are discussed by pathway and analysis type. Monitoring results are compared with control data, preoperational values, sources of radioactivity, and effluent releases when applicable. Trends or seasonal effects are discussed.

A. Airborne Pathway

Chart 1 graphically illustrates weekly gross beta results for the sample year. Chart 2 represents the historical smoothed averages of indicator and control gross beta data.

Charts 1 and 2 demonstrate how closely the indicator and control locations tracked together. Chart 2 reveals a seasonal cyclic trend in which gross beta values peak in the winter months (December or January) and decrease to a low point in the spring months (May or June). This trend is expected and is attributed to seasonal meteorological changes, i.e., changes in prevailing winds and precipitation.

The gross beta results of 2007 were compared to pre-operational monitoring results of 1983 and 1984. The weekly gross beta analyses range for 1983 and 1984 was 0.0064 to 0.084 pCi/m^3. The 2007 weekly gross beta analyses range for indicator locations was 0.010 to 0.062 pCi/m^3, which was within the 1983 and 1984 pre-operational range. Additionally, the annual mean for indicator locations for 2007 (0.030 pCi/m^3) was lower than the annual mean for 1983 (0.032 pCi/m^3).

The gross beta results for the indicator locations were also compared to the control location. The annual mean for indicator locations for 2007 (0.030 pCi/m^3) was similar to the annual mean of the control location (0.029 pCi/m^3).

Naturally occurring Be-7 activity was detected, as was the case during pre-operational monitoring. In 1984, the range for Be-7 detected activity was 0.024 to 0.211 pCi/m^3 for indicator locations, and the annual mean for indicator locations was 0.069 pCi/m^3. In 2007, the range for Be-7 detected activity was 0.060 to 0.114 pCi/m^3 for indicator locations, and the annual mean for indicator locations was 0.091 pCi/m^3.

The control location annual mean for Be-7 detected activity (0.087 pCi/m^3) was similar to the indicator locations annual mean (0.091 pCi/m^3).

I-131 activity was not detected in the weekly analysis of charcoal filters at any location.

No effects of plant operation were seen via the airborne pathway for the year, and no unusual trends were noted.

B. Direct Radiation Pathway

Quarterly gamma exposures measured at each location are shown in Table 3. Measured values have been converted to a standard 90-day quarter.

The annual mean of all indicator locations in 2007 was 0.212 mR/day and the annual mean for the control locations was 0.210 mR/day. For pre-operational comparison, in 1981, the annual mean of all indicator locations was 0.21 mR/day and annual mean for the control locations was 0.19 mR/day.

Results from TLDs located near the plant (less than three miles), which would be most affected by changes in plant operation, were combined into quarterly averages. These nearsite averages, using locations 1, 2, 7-9, 11-14, 18, 26, 27, 29, 30, 37 and 38 are compared to control location results (locations 39 and 48) in Chart 3. Chart 3 also includes preoperational data for comparison. The nearsite TLD locations have historically trended higher than the control locations both prior to and after WCGS became operational.

C. Waterborne Pathway

(1) Surface Water

Tritium, attributable to WCGS operation, was detected in all surface water samples collected from Coffey County Lake during 2007. Chart 4 illustrates the yearly averages of surface water tritium data for the spillway location. Chart 4 shows that the average tritium concentration of

the lake may have reached equilibrium since the last four years indicate a slightly downward trend.

ODCM required lower limits of detection were met and tritium activity was not detected in samples obtained from the control location (JRR).

During pre-operational environmental radiological monitoring, measured radiological activity was not detected in surface water samples.

Tritium was the only activity detected in surface water samples and no unusual trends were noted.

(2) Ground Water

ODCM required lower limits of detection were met and radioactivity was not detected in any ground water samples.

(3) Drinking Water

Chart 5 illustrates the drinking water gross beta results for the last five years and how closely the gross beta results compared for the indicator and control locations.

Gross beta activity was detected in all drinking water samples. The annual mean of the control location gross beta activity (3.0 pCi/L) was similar when compared to the annual mean of the indicator location (3.2 pCi/L). The 2007 annual means of gross beta activity for both the control and indicator locations were lower than those of the pre-operational monitoring year of 1984. In 1984, the annual mean of the control location gross beta activity was 6.4 pCi/L, and the annual mean of the indicator location gross beta activity was 7.5 pCi/L.

ODCM required lower limits of detection were met. Additionally, radionuclides were not detected by the I-131 or gamma isotopic analyses.

Activity due to plant operation was not evident in drinking water samples during 2007 and no unusual trends were noted.

(4) Shoreline Sediment

Naturally occurring K-40 was detected in samples obtained from the indicator location (DC) and in samples obtained from the control location (JRR). K-40 was also detected during pre-operational shoreline sediment monitoring.

Cs-137 activity was also detected in one shoreline sediment sample obtained from the control location (JRR).

ODCM required lower limits of detection were met. Activity due to plant operation was not evident in shoreline sediment samples during 2007 and no unusual trends were noted.

D. Ingestion Pathway

(1) Milk

Milk was not collected during the sample year since no indicator locations within five miles of the plant were identified during the Land Use Census.

(2) Fish

Naturally occurring K-40 activity was detected in all fish samples. K-40 activity was also detected during pre-operational fish monitoring.

During 2007, fish were also analyzed for tritium. All fish samples taken from Coffey County Lake had tritium activity detected (6,475 pCi/kg annual mean). The detected tritium activity was attributable to plant operation. An adult consuming 21 kilograms of fish, at the maximum measured tritium concentration for 2007 (7,266 pCi/kg), would receive a committed effective dose equivalent of 0.010 mRem.

Tritium activity was not detected in the control samples collected from JRR.

No other radionuclides were detected in fish during the year. The ODCM required lower limits of detection were met and no unusual trends were noted.

(3) Broadleaf Vegetation

Gamma analyses of broadleaf vegetation samples obtained from indicator and control locations detected naturally occurring gamma emitters Be-7 and K-40. Be-7 and K-40 activity were also detected pre-operationally.

The ODCM required lower limits of detection were met and no unusual trends were noted. Activity attributable to plant operation was not detected.

(4) Crop Samples

Gamma analysis detected naturally occurring K-40 to be present in all of the samples. K-40 activity was also detected during pre-operational crop monitoring. K-40 was the only activity detected in crop samples. The ODCM required lower limits of detection were met and no unusual trends were noted.

E. Additional Samples Collected (not required by ODCM)

(1) Bottom Sediment

Naturally occurring K-40 was detected in all of the bottom sediment samples. K-40 activity was also detected during pre-operational bottom sediment monitoring.

Co-60 activity (107.9 and 88.7 pCi/kg) was detected in the indicator samples obtained from the Coffey County Lake discharge cove. Co-60 activity was attributable to plant operation and has been identified in plant effluents. Co-60 activity was not detected in pre-operational environmental monitoring and was not detected in samples collected from control location JRR

during 2007. Chart 6 plots the Co-60 detected activity from the discharge cove and reflects a decreasing trend. This downward trend is due to improvements made in the process system.

Cs-137 activity (179.8 and 167.7 pCi/kg) was detected in the indicator samples obtained from the Coffey County Lake discharge cove. A portion of this activity is due to fallout and a portion of this activity is likely plant-related since Cs-134 activity has been detected in the past. Cs-137 activity was detected in pre-operational samples, and the results for 2007 indicator bottom sediment samples were within the pre-operational range. (Cs-137 activity detected in 1981 and 1982 was in the range of 79 to 953 pCi/kg. The decay corrected range of pre-operational Cs-137 activity detected is approximately 44 to 525 pCi/kg.) Cs-137 activity has been identified in plant effluents. Cs-137 activity (121.5 and 129.3 pCi/kg) was also detected in the control location (JRR) bottom sediment samples.

Chart 7 plots the Cs-137 detected activity from the discharge cove indicator location and JRR control location bottom sediment samples. The detected Cs-137 activity measured from the discharge cove location reflects a decreasing trend. The Chart 7 trend line indicates that as expected, Cs-137 activity detected at the JRR control location has been decreasing.

No other radionuclides were detected in bottom sediment samples and no unusual trends were noted.

(2) Aquatic Vegetation

Naturally occurring Be-7 and K-40 activity were detected in samples collected in 2007. Be-7 and K-40 activity were also detected during pre-operational monitoring.

No other radionuclides were detected in aquatic vegetation samples and no unusual trends were noted.

(3) Terrestrial Vegetation

Naturally occurring Be-7 and K-40 activity were detected in samples collected in 2007. No other radionuclides were detected. No unusual trends were identified.

(4) Soil

Naturally occurring K-40 activity was detected in both of the soil samples. K-40 activity was also detected during pre-operational soil monitoring.

Cs-137 activity (326.4 and 446.2 pCi/kg) was also detected in both of the soil samples. This activity is likely due to fallout. Data was reviewed for soil samples collected pre-operationally. The Cs-137 range from February of 1985 was 255 to 2,160 pCi/kg, dry. The decay corrected range of pre-operational Cs-137 activity detected in soil is approximately 153 to 1,296 pCi/kg. The detected Cs-137 is well within the pre-operational decay corrected range.

No unusual trends were identified.

III. PROGRAM REVISIONS/CHANGES

Based upon results from the corrective action program, the following TLD locations were added to the program during January 2007: 46, 44, 50, 51 and 52. The following TLD locations were removed from the program: 3, 10, 6, 21, 28, 31 and 33. These changes were made to enhance the effectiveness of the program.

On February 21, 2007, air sample pumps with digital flow meters were installed. Change was made to enhance air sample volume data that is used to calculate concentration.

IV. PROGRAM DEVIATIONS

Air Samples

The air sample locations listed below failed to meet the requirement for "continuous sampler operation." As described in footnote (1) of procedure AP 07B-004, *Offsite Dose Calculation Manual (Radiological Environmental Monitoring Program)*, Table 5-1, deviations are permitted from the required sampling schedule due to malfunction of sampling equipment and other legitimate reasons. Discrepancies greater than five percent between Total Military Time and Total Digital Flow Meter Time, which resulted in a loss of air sample collected, are listed in the following table.

Location	Sample Period	Percent Discrepancy/ Hours Unavailable	Explanation of Deviation/ Condition Report (CR) Number/ Comments
48	02/28/07 – 03/07/07	96%/~161	Equipment Malfunction/ CR 2007-000939/ Due to small sample volume, the LLD for I-131 was not obtained.
48	03/07/07– 03/14/07	>77%/~127	Equipment Malfunction/ CR 2007-000939
48	07/11/07 – 07/18/07	58%/~95	Equipment Malfunction/ CR 2007-002833
48	08/01/07 – 08/07/07	Unknown	Equipment Malfunction/ CR 2007-002833/ Due to small sample volume, the LLDs for gross beta and I-131 were not obtained.

Ground Water Samples

During the first quarter of 2007, ground water was not sampled from location G-2. The landowner's water pump was out of service during this time.

V. INTERLABORATORY COMPARISON PROGRAM RESULTS

During 2007, Environmental, Inc., Midwest Laboratory was contracted to perform radiological analysis of environmental samples for WCNOC. The lab participated in the intercomparison studies administered by Environmental Resources Associates. Appendix A is the Interlaboratory Comparison Program Results for Environmental, Inc., Midwest Laboratory. Intercomparison results, in-house spikes, blanks, duplicates and mixed analyte performance evaluation program results are also contained in Appendix A.

VI. COMPARISON TO THE RADIOACTIVE EFFLUENTS RELEASE PROGRAM

As described in the section discussing radioisotopes found in fish from Coffey County Lake, dose that may be received as a result of tritium released from WCGS is comparable with the theoretical doses calculated by the Radioactive Effluent Release Program.

The theoretical doses calculated by the Radioactive Effluent Release Program assume that a person drinks the water from Coffey County Lake and eats the fish from Coffey County Lake. Based upon these assumptions the dose to man from both pathways was calculated to be 0.110 mRem for 2007.

Using sample data obtained from the REMP, an adult drinking 2 liters per day of surface water from Coffey County Lake, using the average tritium activity (10,442 pCi/L), would receive a committed effective dose equivalent of 0.477 mRem per year. For an adult eating 21 kg of fish per year from Coffey County Lake, using the average tritium activity (6,475 pCi/kg), would receive a committed effective dose equivalent of 0.009 mRem per year. Based upon the REMP results, the dose from both pathways was calculated to be 0.486 mRem per year.

It should be noted that the Coffey County Lake is not a drinking water source. Calculating the dose to man for tritium detected in the Coffey County Lake surface water is for comparison purposes only.

The tritium dose values are being compared on a qualitative basis. It is not expected that the annual doses, as calculated in the Radioactive Effluent Release Report, would compare directly to those calculated from the REMP. The Radioactive Effluent Release Report provides a 'snap shot' of potential dose resulting from the year's releases. The REMP data indicates the accumulated result of releasing tritium into the lake since the start of plant operation.

TABLE 1

2007 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DESCRIPTION (SAMPLE COLLECTION SPECIFIED BY ODCM)

EXPOSURE PATHWAY/ SAMPLE TYPE	NUMBER OF SAMPLES AND SAMPLE LOCATIONS	SAMPLE COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS
AIRBORNE	**(See Figures 1 & 5)**		
Radioiodine and Particulates	Samples from six locations	Continuous sampler operation with sample collection weekly, or more frequently if required, by dust loading.	Analyze radioiodine canister weekly for I-131
	Samples from locations near the site boundary in three sectors having the highest calculated annual average D/Q (Locations 2, 37, 49 and supplemental location 18 on Figure 1)		Analyze particulate filter weekly for gross beta activity; perform quarterly gamma isotopic analysis composite (by location)
	Sample from the vicinity of a community having the highest calculated annual average D/Q (Location 32 on Figure 1, New Strawn)		
	Sample from a control location 9.5 to 18.5 miles distant in a low ranked D/Q sector (Location 48 on Figure 5)		

TABLE 1 (Cont.)

EXPOSURE PATHWAY/ SAMPLE TYPE	NUMBER OF SAMPLES AND SAMPLE LOCATIONS	SAMPLE COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS
DIRECT RADIATION	**(See Figures 2 & 5)**		
	40 routine monitoring stations with two or more dosimeters measuring dose continuously, placed as follows: An inner ring of stations, one in each meteorological sector 0-3 mile range from the site (Locations 1, 7, 9, 11-13, 18, 26, 27, 29, 30, 37, 38, 46, 47 & 49 on Figure 2). An outer ring of stations, one in each meteorological sector in the 3 to 5 mile range from the site (Locations 4, 5, 15-17, 19, 22-25, 32, 34-36, 50 & 51 on Figure 2). Four sectors [A, B, G & J] contain an additional station (Locations 2, 8, 14 & 20). The balance of the stations to be placed in special interest areas such as population centers (Locations 23, 32 & 52), nearby residences	Quarterly	Gamma dose quarterly

TABLE 1 (Cont.)

EXPOSURE PATHWAY/ SAMPLE TYPE	NUMBER OF SAMPLES AND SAMPLE LOCATIONS	SAMPLE COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS
DIRECT RADIATION (cont.)	(many locations are near a residence), schools (Locations 23 & 52), Environmental Education Area (44), CCL Public Fishing Area (46) and in two areas to serve as control stations 10-20 miles distant from the site (Locations 39 and 48 on Figure 5).		
WATERBORNE	(See Figure 3)		
Surface	One sample upstream (Location JRR on Figure 3) and one sample downstream (Location SP on Figure 3).	Monthly grab sample	Monthly gamma isotopic analysis and composite for tritium analysis quarterly
Ground	Samples from one or two sources only if likely to be affected. Indicator samples at locations hydrologically down gradient of the site (Locations C-10, C-49, F-1, G-2, J-1 and J-2 on Figure 3); control sample at a location hydrologically up gradient of the site (Location B-12 on Figure 3).	Quarterly grab sample	Quarterly gamma isotopic and tritium analysis

TABLE 1 (Cont.)

EXPOSURE PATHWAY/ SAMPLE TYPE	NUMBER OF SAMPLES AND SAMPLE LOCATIONS	SAMPLE COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS
WATERBORNE (cont.)			
Drinking	Sample of municipal water supply at an indicator location downstream of the site (Location IO-DW on Figure 5); control sample from location upstream of the site (Location BW-15 on Figure 3).	Monthly Composite	Monthly gamma isotopic analysis and gross beta analysis of composite sample. Quarterly tritium analysis of composites.
Shoreline Sediment	One sample from the vicinity of Coffey County Lake discharge cove (Location DC on Figure 3); control sample from John Redmond Reservoir (Location JRR on Figure 3).	Semiannually	Semiannual gamma isotopic analysis
INGESTION	(See Figures 4 & 5)		
Milk	Samples from milking animals at three indicator locations within 5 miles of the site having the highest dose potential (currently there are no locations producing milk for human consumption within 5 miles of the site); one sample from a control location greater than 10 miles from the site if indicator locations are sampled.	Semimonthly April to November; monthly December-March	Gamma isotopic analysis and I-131 analysis of each sample

TABLE 1 (Cont.)

EXPOSURE PATHWAY/ SAMPLE TYPE	NUMBER OF SAMPLES AND SAMPLE LOCATIONS	SAMPLE COLLECTION FREQUENCY	TYPE AND FREQUENCY OF ANALYSIS
INGESTION (cont.)			
Fish	Indicator samples of 1 to 3 recreationally important species from Coffey County Lake; control samples of similar species from John Redmond Reservoir spillway (Figure 4).	Semiannually	Gamma isotopic analysis on edible portions
Broadleaf Vegetation	Samples of available broadleaf vegetation from two indicator locations (using the criteria from the "Land Use Census" section) with highest calculated annual average D/Q (Locations Q-6 and N-1 and alternate location C-2 on Figure 4); sample of similar broadleaf vegetation from a control location 9.5 to 18.5 miles distant in a low ranked D/Q sector (Location D-1 or alternate location D-2 on Figure 5).	Monthly when available	Gamma isotopic analysis on edible portions
Irrigated Crops	Sample of crops irrigated with water from the Neosho River downstream of the Neosho River - Wolf Creek confluence (Location NR-D1 and NR-D2 on Figure 5).	At time of harvest	Gamma isotopic analysis on edible portions

TABLE 2
SAMPLE LOCATION IDENTIFIERS, DISTANCES (Miles) AND DIRECTIONS (Sectors)

Sample Type	Location Identifier	Distance from Reactor	Direction	Sector
Air Particulates and Radioiodine	2	2.7	N	A
	18	3.0	SSE	H
	32	3.1	WNW	P
	37	2.0	NNW	R
	48	14.7	ENE	D
	49	0.8	NNE	B
Dosimeters	1	1.4	N	A
	2	2.7	N	A
	4	4.1	NNE	B
	5	4.1	NE	C
	7	2.1	NE	C
	8	1.7	NNE	B
	9	2.0	ENE	D
	11	1.7	E	E
	12	1.9	ESE	F
	13	1.6	SE	G
	14	2.5	SE	G
	15	4.6	ESE	F
	16	4.3	E	E
	17	3.7	SE	G
	18	3.0	SSE	H
	19	3.9	SSE	H
	20	3.3	S	J
	22	3.9	SSW	K
	23	4.3	SW	L
	24	4.1	WSW	M
	25	3.4	W	N
	26	2.4	WSW	M
	27	2.2	SW	L
	29	2.7	SSW	K
	30	2.5	W	N
	32	3.1	WNW	P
	34	4.4	NW	Q
	35	4.6	NNW	R
	36	4.2	N	A
	37	2.0	NNW	R
	38	1.2	NW	Q
	39	13.1	N	A
	41	0.8	NNW	R
	42	0.8	SSE	H
	43	0.7	WNW	P
	44	3.0	NNW	R

TABLE 2 (Cont.)
SAMPLE LOCATION IDENTIFIERS, DISTANCES (Miles) AND DIRECTIONS (Sectors)

Sample Type	Location Identifier	Distance from Reactor	Direction	Sector
Dosimeters	46	1.6	WNW	P
	47	0.16	S	J
	48	14.7	ENE	D
	49	0.8	NNE	B
	50	3.6	ENE	D
	51	4.0	S	J
	52	3.6	SW	L
Surface Water	JRR	3.7	W	N
	SP	3.2	SSE	H
Ground Water	B-12	1.9	NNE	B
	C-10	2.7	W	N
	C-49/L-49	2.8	SW	L
	F-1	2.5	ESE	F
	G-2	3.6	SE	G
	J-1	3.8	S	J
	J-2	4.3	S	J
Drinking Water	BW-15	3.9	SW	L
	IO-DW	26.1	SSE	H
Shoreline Sediment	BBB	2.4	NW	Q
	DC	0.8	WNW	P
	JRR	3.6	W	N
	SC	0.8	NNW	R
Fish	CCL	0.6	WNW	P
	JRR	3.7	W	N
Food/Garden	C-2	1.9	NE	C
	D-2	14.8	ENE	D
	N-1	2.4	W	N
	Q-6	2.4	NW	Q
Crops	NR-D1	8.9	S	J
	NR-D2	11.5	S	J
	NR-U1	4.0	SSW	K
Bottom Sediment	DC	0.9	WNW	P
	EEA	3.0	NNW	R
	JRR	3.7	W	N
	MUDS	1.5	WNW	P
Aquatic Vegetation	EEA	3.0	NNW	R
	SC	0.8	NNW	R
Terrestrial Vegetation	EEA	3.0	NNW	R
	MUDS	1.5	WNW	P
Soil	EEA	3.0	NNW	R
	MUDS	1.5	WNW	P

TABLE 3
TLD Results
(mR/90-day qtr.)

Location	Qtr. 1 90-Day Avg.	Qtr. 1 2-std. dev.	Qtr. 2 90-Day Avg.	Qtr. 2 2-std. dev.	Qtr. 3 90-Day Avg.	Qtr. 3 2-std. dev.	Qtr. 4 90-Day Avg.	Qtr. 4 2-std. dev.	Total Annual Exposure (mR)
1	19.9	1.5	20.4	0.9	21.4	5.1	19.6	1.5	81.3
2	19.5	3.4	17.8	0.6	17.9	1.1	17.1	0.9	72.3
4	21.3	3.5	19.3	1.0	20.1	1.5	18.5	1.0	79.2
5	20.1	4.4	17.5	1.4	18.6	1.0	17.2	1.1	73.3
7	19.6	2.0	19.4	2.4	18.4	1.1	18.1	1.0	75.5
8	20.2	1.8	20.6	3.1	20.9	1.2	19.1	2.7	80.8
9	18.0	0.8	18.2	2.2	17.8	2.0	16.8	0.6	70.8
11	22.4	3.4	20.5	1.6	20.1	1.5	19.4	0.7	82.4
12	20.9	3.5	21.2	3.3	20.9	1.6	18.4	1.0	81.3
13	21.0	3.6	20.5	1.5	21.4	4.2	19.2	1.6	82.1
14	21.2	1.5	20.3	1.1	20.8	1.8	18.4	1.7	80.7
15	20.0	2.0	20.3	1.8	19.4	1.3	18.7	1.2	78.4
16	19.8	1.9	19.2	1.8	18.8	1.8	17.8	1.2	75.6
17	20.7	3.1	19.5	0.4	20.3	2.5	17.2	1.0	77.8
18	19.4	1.0	19.5	1.0	18.4	0.3	17.5	0.4	74.9
19	19.9	0.9	21.5	1.3	19.2	0.7	18.5	1.5	79.1
20	19.6	3.4	21.0	1.5	18.3	1.4	18.6	2.8	77.5
22	22.3	3.9	21.6	0.8	20.2	0.9	19.8	3.0	84.0
23	19.2	1.1	22.3	2.0	18.0	0.5	17.7	1.3	77.2
24	19.4	1.9	20.0	0.8	18.6	1.4	18.2	1.5	76.2
25	18.6	4.0	17.9	0.8	17.2	1.6	16.1	1.0	69.7
26	18.0	1.2	20.4	3.2	19.1	4.5	16.8	0.9	74.3
27	19.3	0.4	21.2	1.0	19.7	1.6	18.5	1.1	78.7
29	16.8	0.9	17.0	0.3	16.4	3.2	15.3	1.3	65.5
30	19.5	0.5	19.9	0.7	19.0	1.4	19.5	2.5	78.0
32	17.9	1.7	18.7	0.9	20.2	1.2	17.5	3.2	74.3
34	21.2	2.9	20.6	1.3	18.9	1.0	18.2	1.1	78.9
35	20.2	1.8	20.6	1.0	19.8	3.0	18.0	1.2	78.7
36	20.2	2.3	19.9	1.3	19.2	3.5	18.9	1.7	78.1
37	18.2	1.1	18.9	1.2	18.0	0.8	17.6	2.1	72.8
38	20.4	1.1	22.0	2.4	23.4	0.9	19.2	1.0	85.0
39	18.0	1.4	20.6	1.3	17.3	0.9	17.9	2.1	73.8
41	21.3	1.9	20.4	0.8	20.1	4.0	19.3	1.8	81.1
42	14.5	1.2	15.9	1.4	13.0	1.3	13.5	1.1	56.9
43	13.8	0.7	16.6	1.5	12.5	0.4	12.7	1.0	55.6
44	19.1	1.2	20.8	1.3	18.0	1.2	17.9	0.4	75.8
46	18.8	1.8	20.1	1.7	19.4	1.6	17.6	0.7	75.8
47	19.3	1.4	20.0	1.9	18.2	3.0	17.6	2.4	75.1
48	20.0	1.9	21.7	1.7	17.8	1.6	17.8	1.3	77.3
49	18.9	1.6	19.9	2.1	17.6	1.9	19.8	1.7	76.3
50	20.6	1.4	25.0	4.7	19.2	1.0	19.2	1.4	84.0
51	18.6	1.0	21.6	4.0	19.3	2.0	18.7	2.3	78.1
52	19.7	1.1	22.0	1.1	20.5	1.1	18.7	1.2	80.8

FIGURE 1

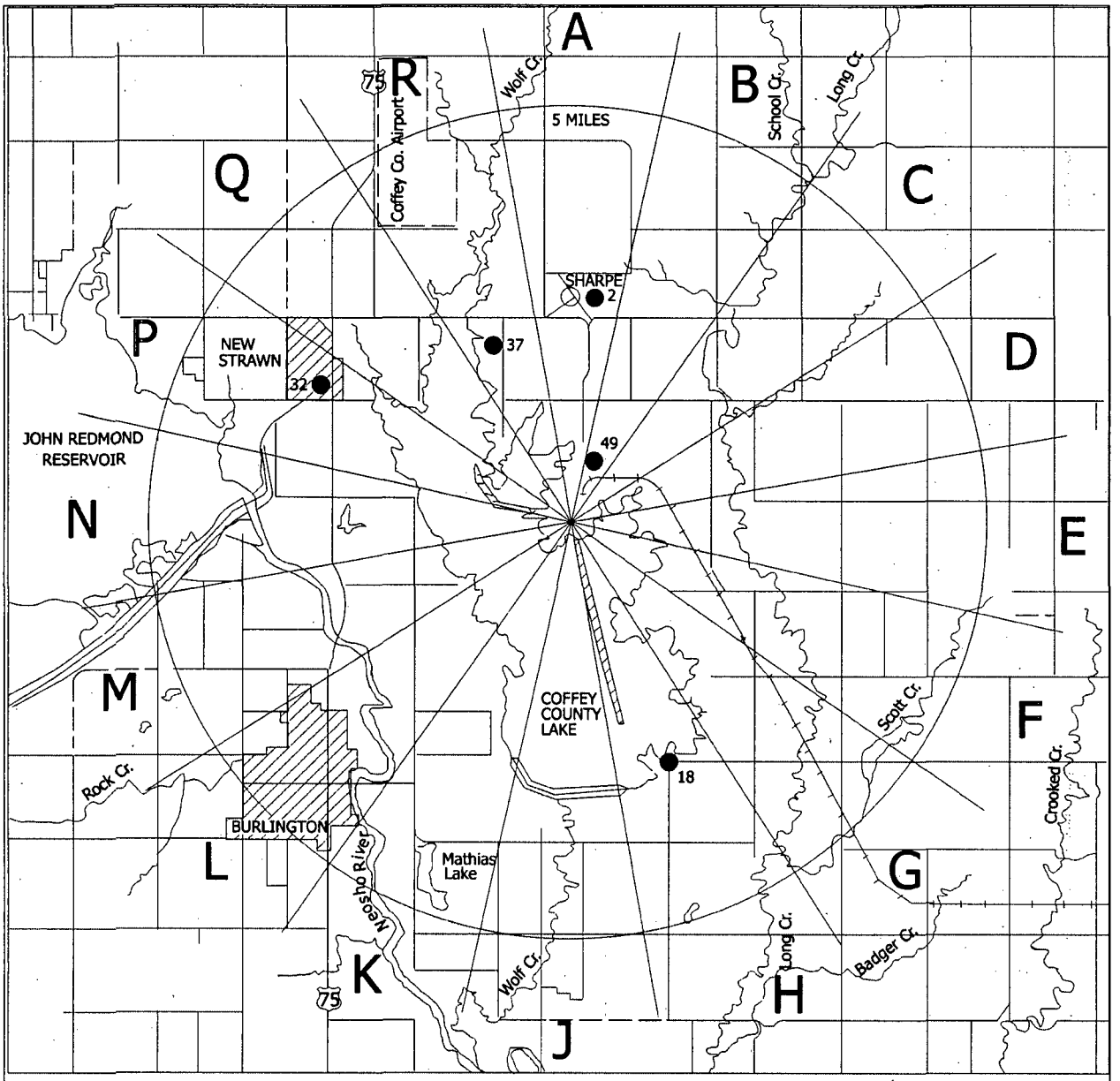

A
B
C
D
E
F
G
H
J
K
L
M
N
P
Q
R
75
Wolf Cr.
Coffey Co. Airport
5 MILES
School Cr.
Long Cr.
SHARPE
2
37
NEW STRAWN
32
JOHN REDMOND RESERVOIR
49
COFFEY COUNTY LAKE
18
Scott Cr.
Crooked Cr.
Rock Cr.
BURLINGTON
Neosho River
Mathias Lake
Long Cr.
Badger Cr.
Wolf Cr.
75
AIRBORNE PATHWAY SAMPLING LOCATIONS
● = AIRBORNE PARTICULATE AND RADIOIODINE

FIGURE 2

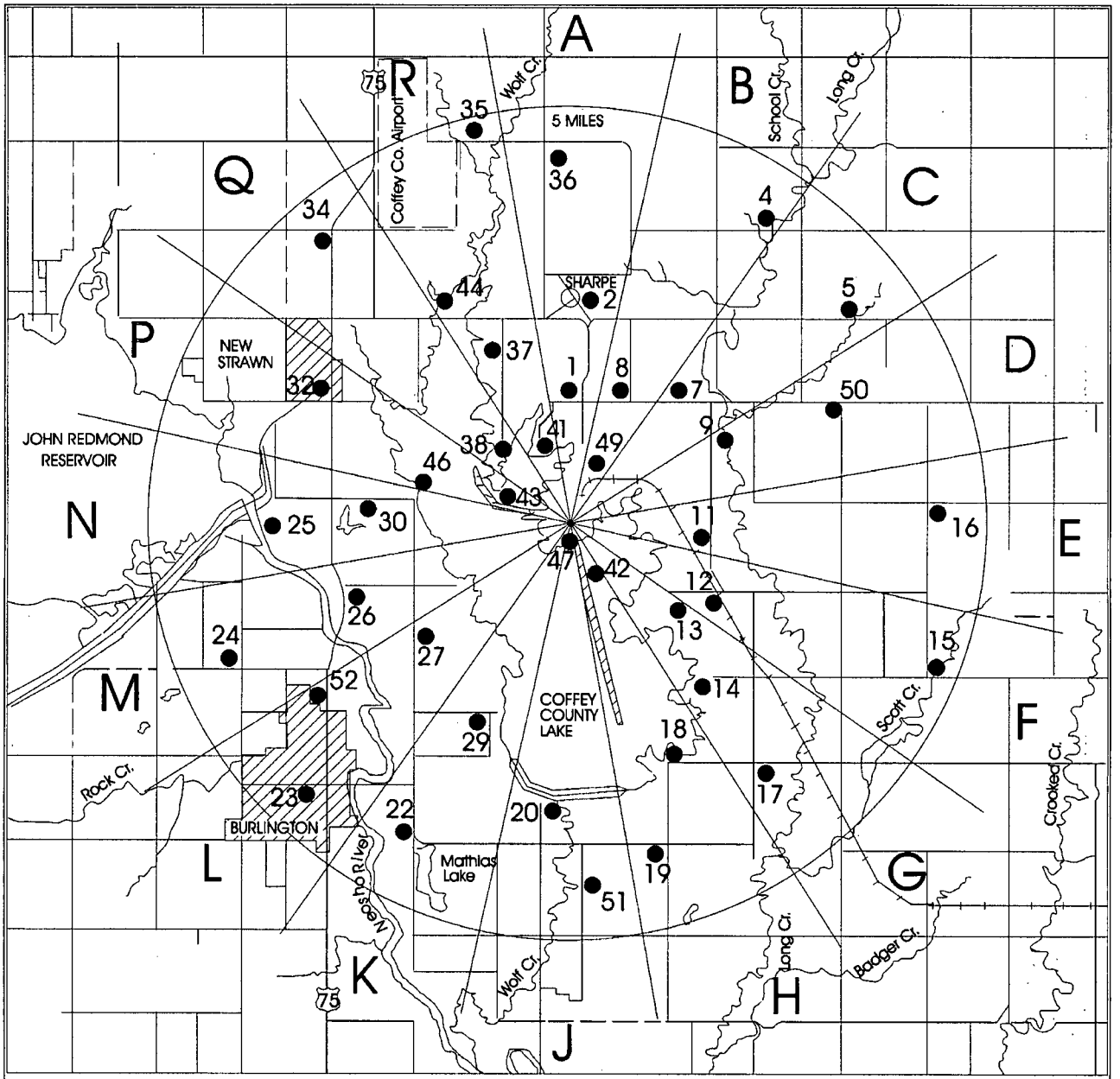

A
B
C
D
E
F
G
H
J
K
L
M
N
P
Q
R
5 MILES
Coffey Co. Airport
Wolf Cr.
School Cr.
Long Cr.
SHARPE
NEW STRAWN
JOHN REDMOND RESERVOIR
COFFEY COUNTY LAKE
Scott Cr.
Crooked Cr.
Rock Cr.
BURLINGTON
Neosho River
Mathias Lake
Badger Cr.
75
35
36
34
4
44
2
5
37
1
8
7
50
32
41
9
38
49
46
43
25
30
11
16
47
42
12
26
13
24
27
15
52
14
29
18
17
23
20
22
19
51
DIRECT RADIATION PATHWAY SAMPLING LOCATIONS
● = DOSIMETER LOCATIONS

FIGURE 3

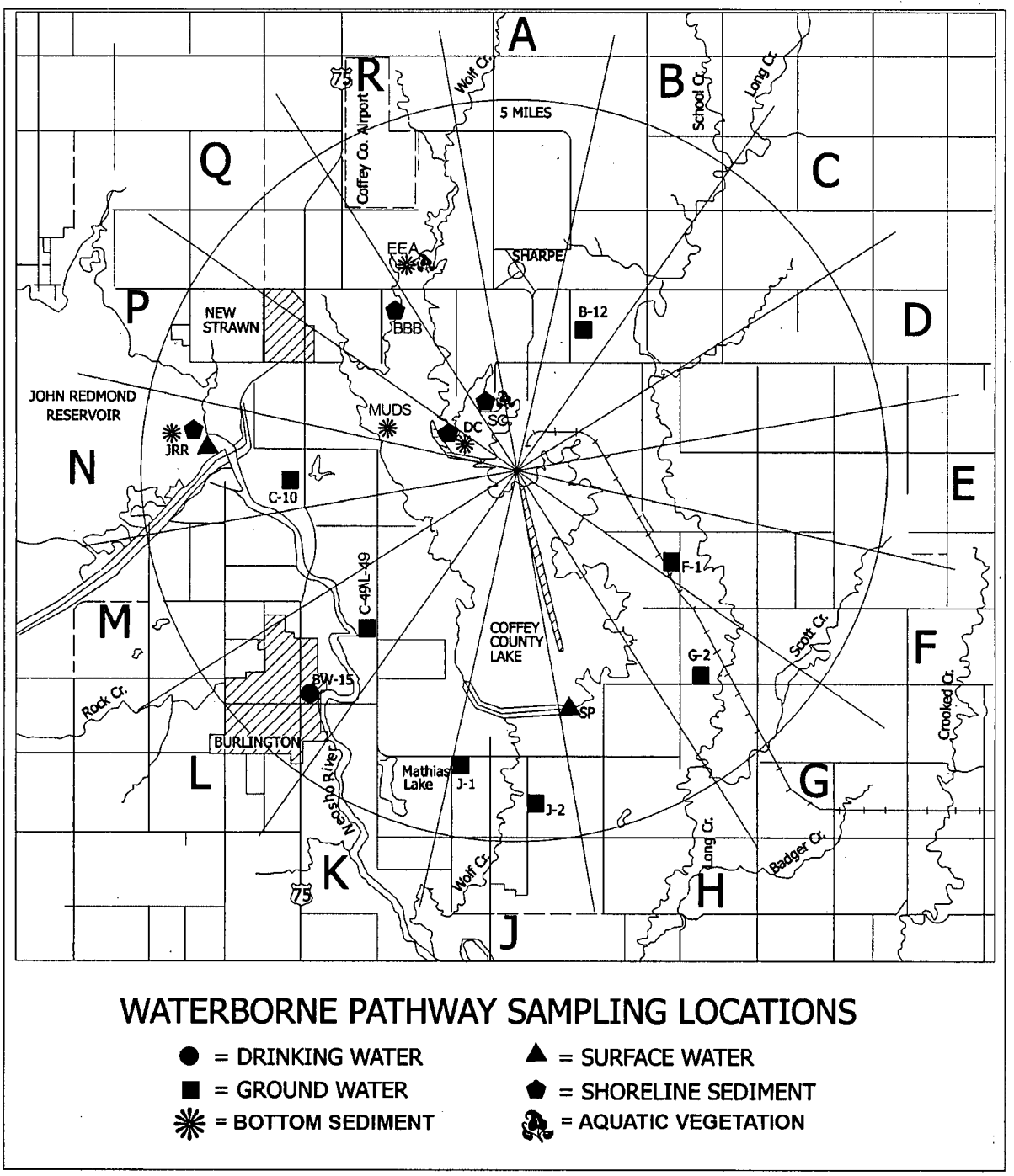

A
B
C
D
E
F
G
H
J
K
L
M
N
P
Q
R
5 MILES
Coffey Co. Airport
Wolf Cr.
School Cr.
Long Cr.
EEA
SHARPE
NEW STRAWN
BBB
B-12
JOHN REDMOND RESERVOIR
JRR
MUDS
DC
SG
C-10
C-49L-49
F-1
COFFEY COUNTY LAKE
G-2
Spoil Cr.
Crooked Cr.
BW-15
SP
Rock Cr.
BURLINGTON
Neosho River
Mathias Lake
J-1
J-2
Badger Cr.
75
WATERBORNE PATHWAY SAMPLING LOCATIONS
= DRINKING WATER
= SURFACE WATER
= GROUND WATER
= SHORELINE SEDIMENT
= BOTTOM SEDIMENT
= AQUATIC VEGETATION

FIGURE 4

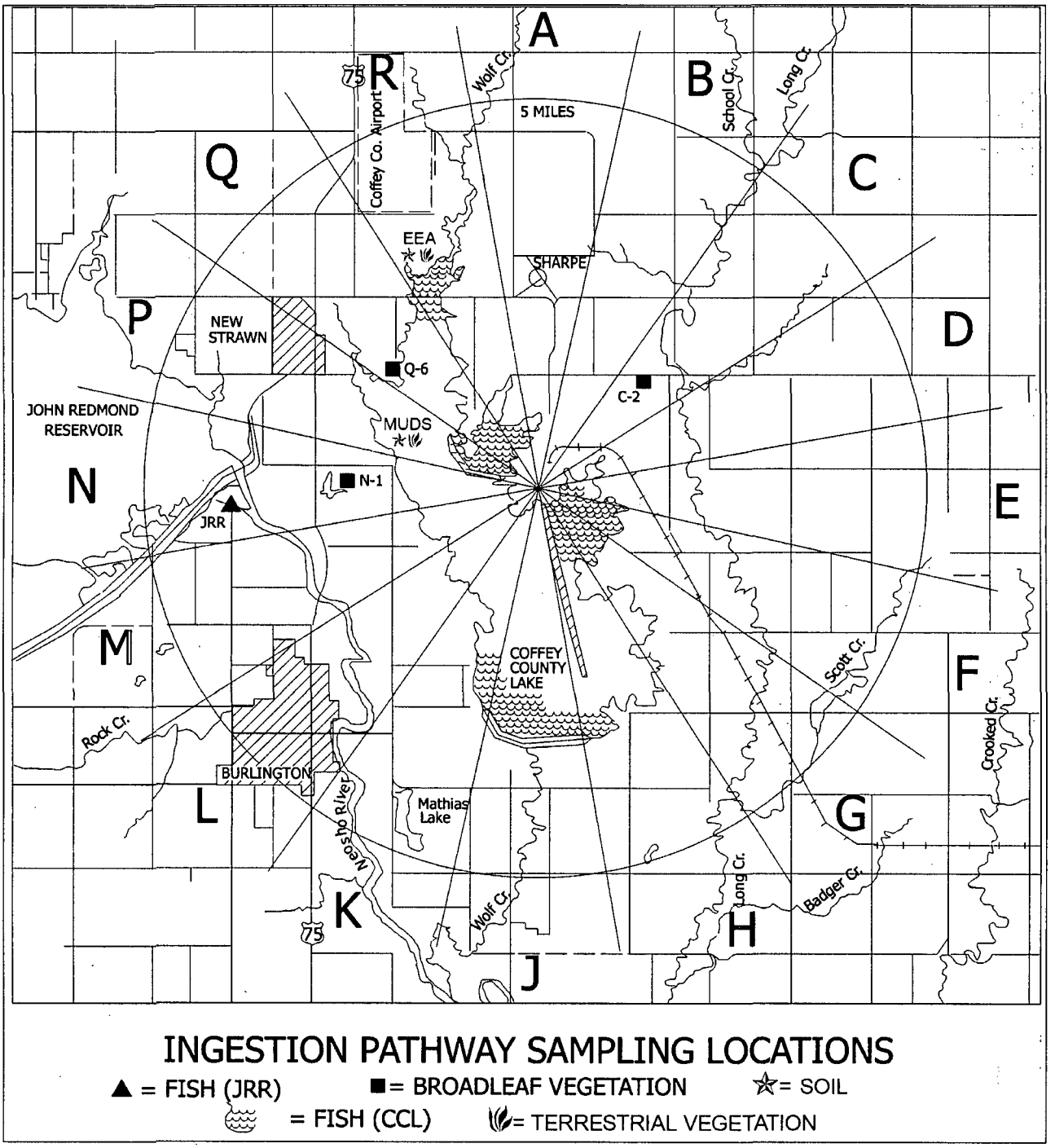

A
B
C
D
E
F
G
H
J
K
L
M
N
P
Q
R
75
Wolf Cr.
School Cr.
Long Cr.
5 MILES
Coffey Co. Airport
EEA
SHARPE
NEW STRAWN
Q-6
C-2
JOHN REDMOND RESERVOIR
MUDS
N-1
JRR
COFFEY COUNTY LAKE
Scott Cr.
Crooked Cr.
Rock Cr.
BURLINGTON
Neosho River
Mathias Lake
Long Cr.
Badger Cr.
Wolf Cr.
75
INGESTION PATHWAY SAMPLING LOCATIONS
▲ = FISH (JRR)
■= BROADLEAF VEGETATION
☆= SOIL
= FISH (CCL)
= TERRESTRIAL VEGETATION

FIGURE 5

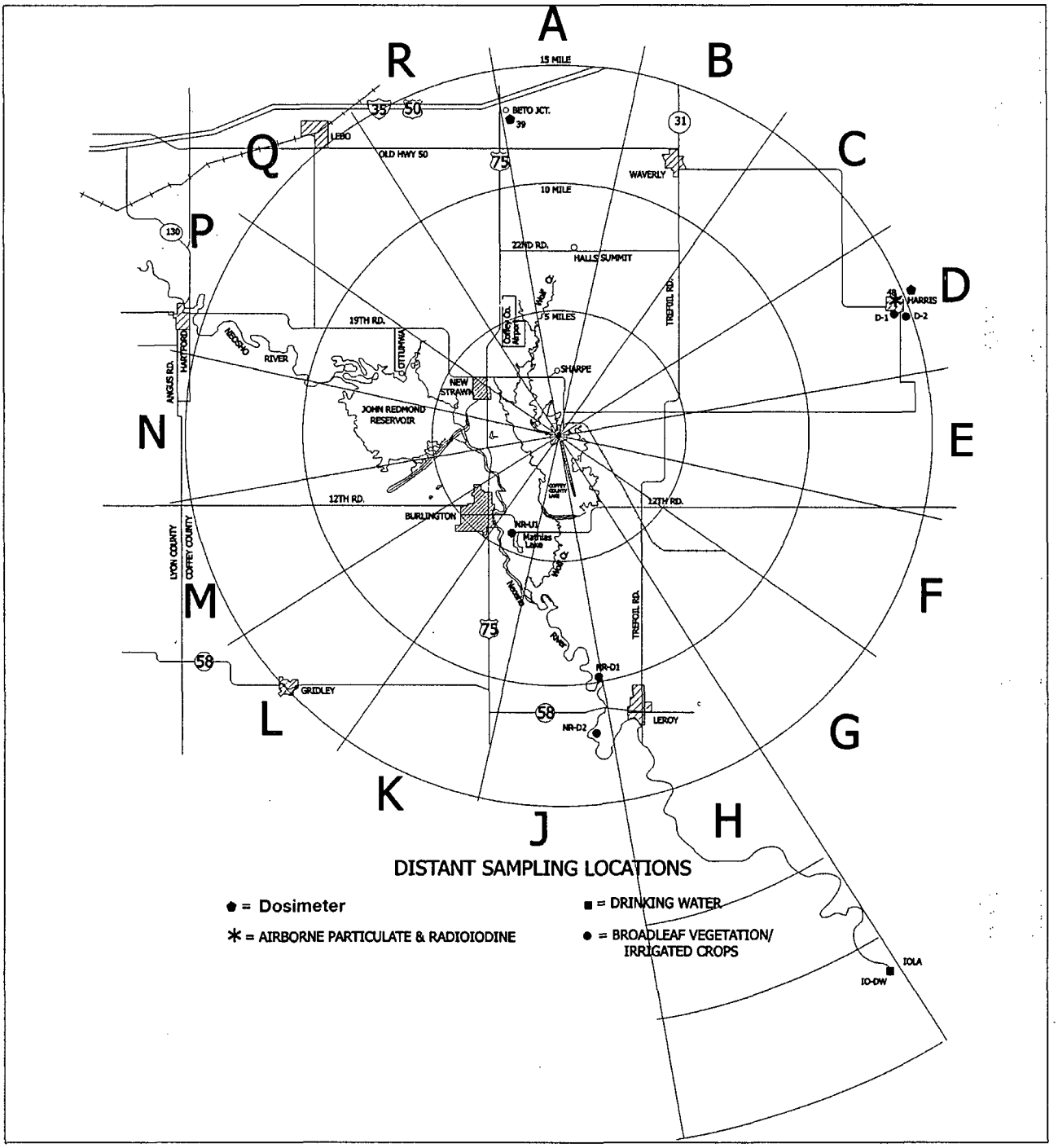

A
B
C
D
E
F
G
H
J
K
L
M
N
P
Q
R
15 MILE
10 MILE
5 MILES
BETO JCT.
LEBO
OLD HWY 50
WAVERLY
22ND RD.
HALLS SUMMIT
HARRIS
D-1
D-2
19TH RD.
NEOSHO RIVER
HARTFORD
ANGUS RD.
OTTUMWA
NEW STRAWN
SHARPE
JOHN REDMOND RESERVOIR
12TH RD.
BURLINGTON
LYON COUNTY
COFFEY COUNTY
GRIDLEY
LEROY
TREFOIL RD.
NR-U1
NR-D1
NR-D2
IO-DW
IOLA
DISTANT SAMPLING LOCATIONS
= Dosimeter
= AIRBORNE PARTICULATE & RADIOIODINE
= DRINKING WATER
= BROADLEAF VEGETATION/ IRRIGATED CROPS

CHART 1

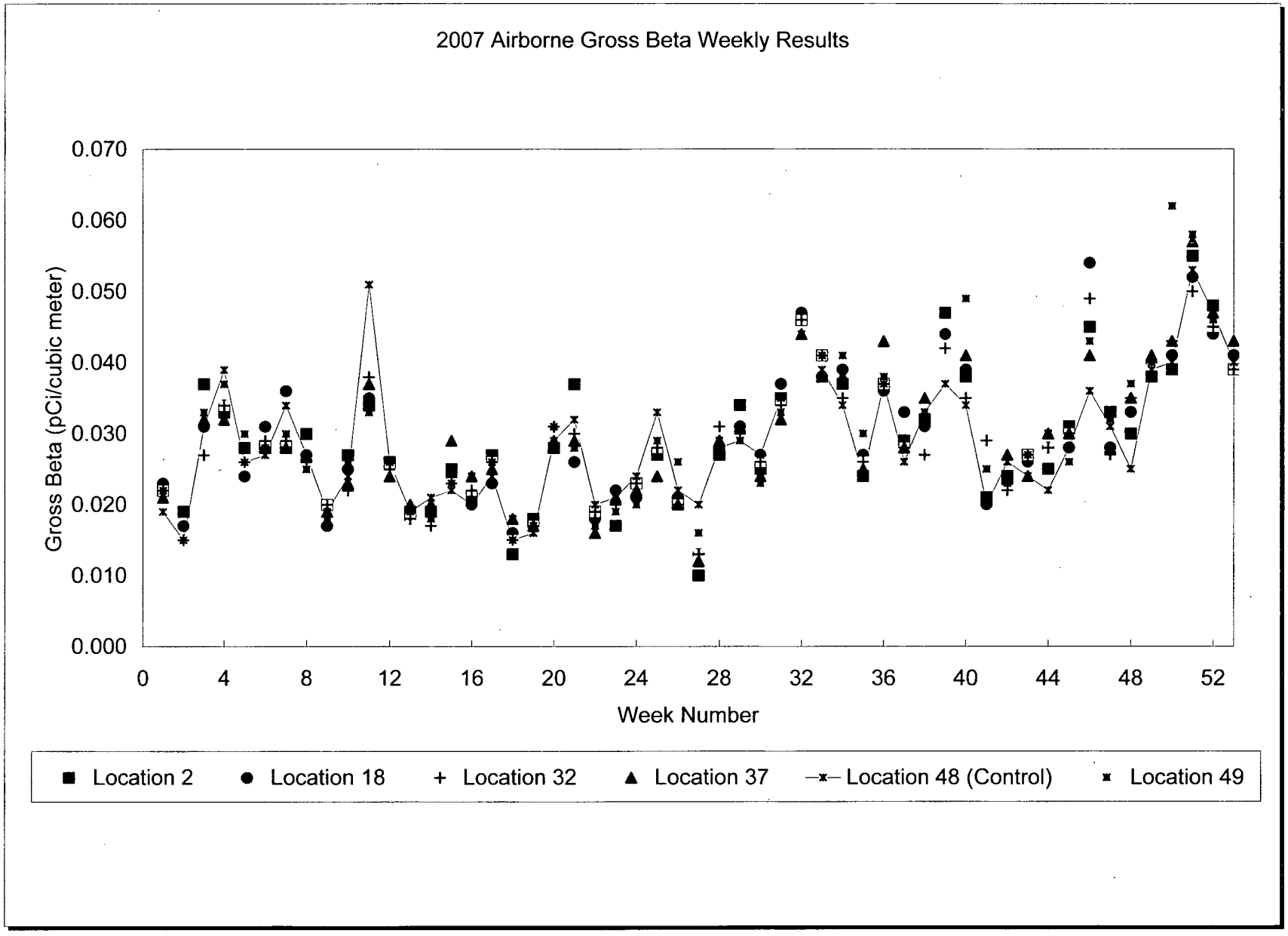

2007 Airborne Gross Beta Weekly Results
Gross Beta (pCi/cubic meter)
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
0
4
8
12
16
20
24
28
32
36
40
44
48
52
Week Number
Location 2
Location 18
Location 32
Location 37
Location 48 (Control)
Location 49

CHART 2

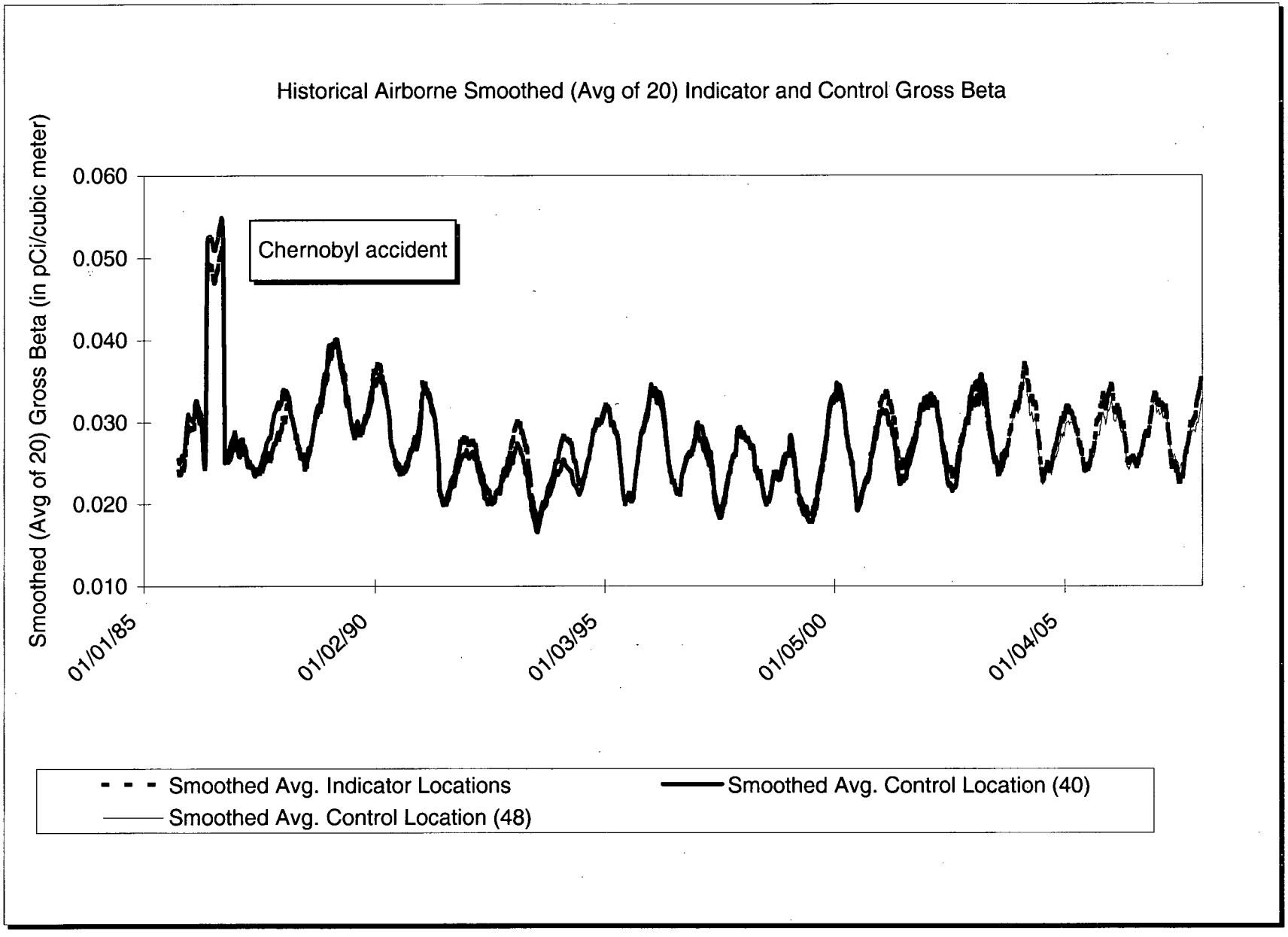

Historical Airborne Smoothed (Avg of 20) Indicator and Control Gross Beta
Smoothed (Avg of 20) Gross Beta (in pCi/cubic meter)
0.060
0.050
0.040
0.030
0.020
0.010
Chernobyl accident
01/01/85
01/02/90
01/03/95
01/05/00
01/04/05
Smoothed Avg. Indicator Locations
Smoothed Avg. Control Location (40)
Smoothed Avg. Control Location (48)

CHART 3

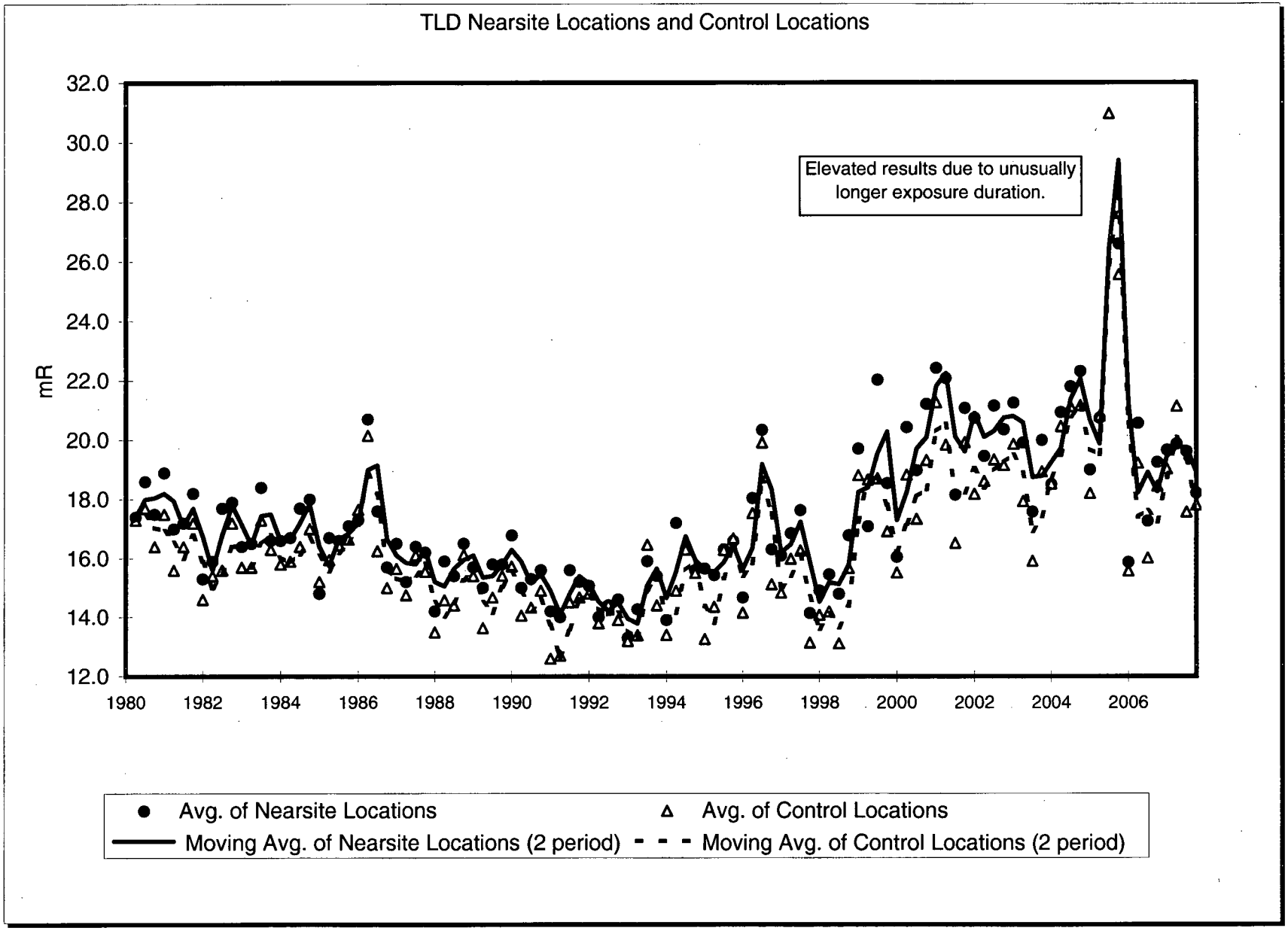

TLD Nearsite Locations and Control Locations
mR
32.0
30.0
28.0
26.0
24.0
22.0
20.0
18.0
16.0
14.0
12.0
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
Elevated results due to unusually longer exposure duration.
Avg. of Nearsite Locations
Avg. of Control Locations
Moving Avg. of Nearsite Locations (2 period)
Moving Avg. of Control Locations (2 period)

CHART 4

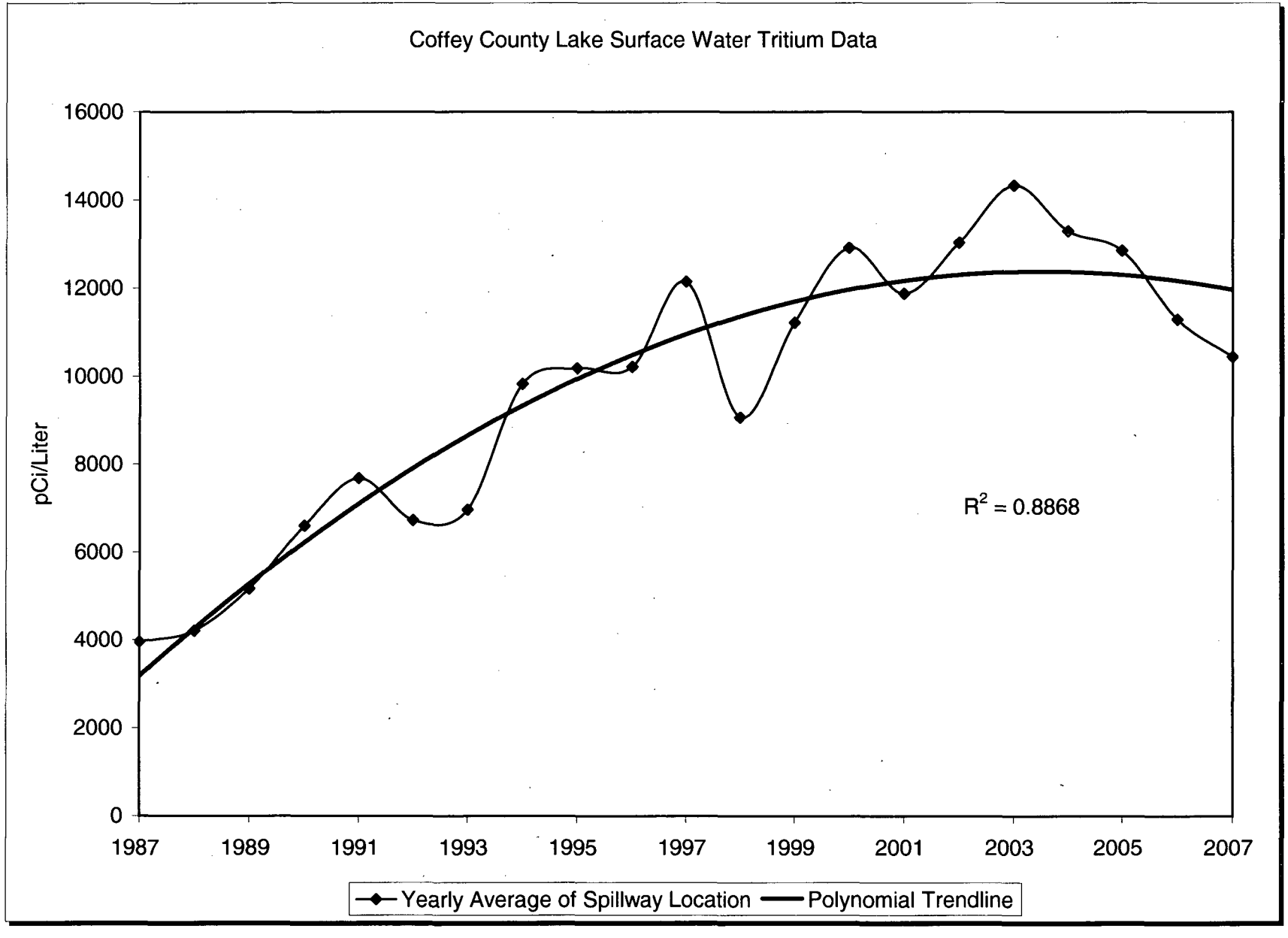

Coffey County Lake Surface Water Tritium Data
16000
14000
12000
10000
8000
6000
4000
2000
0
pCi/Liter
1987
1989
1991
1993
1995
1997
1999
2001
2003
2005
2007
R2 = 0.8868
Yearly Average of Spillway Location
Polynomial Trendline

CHART 5

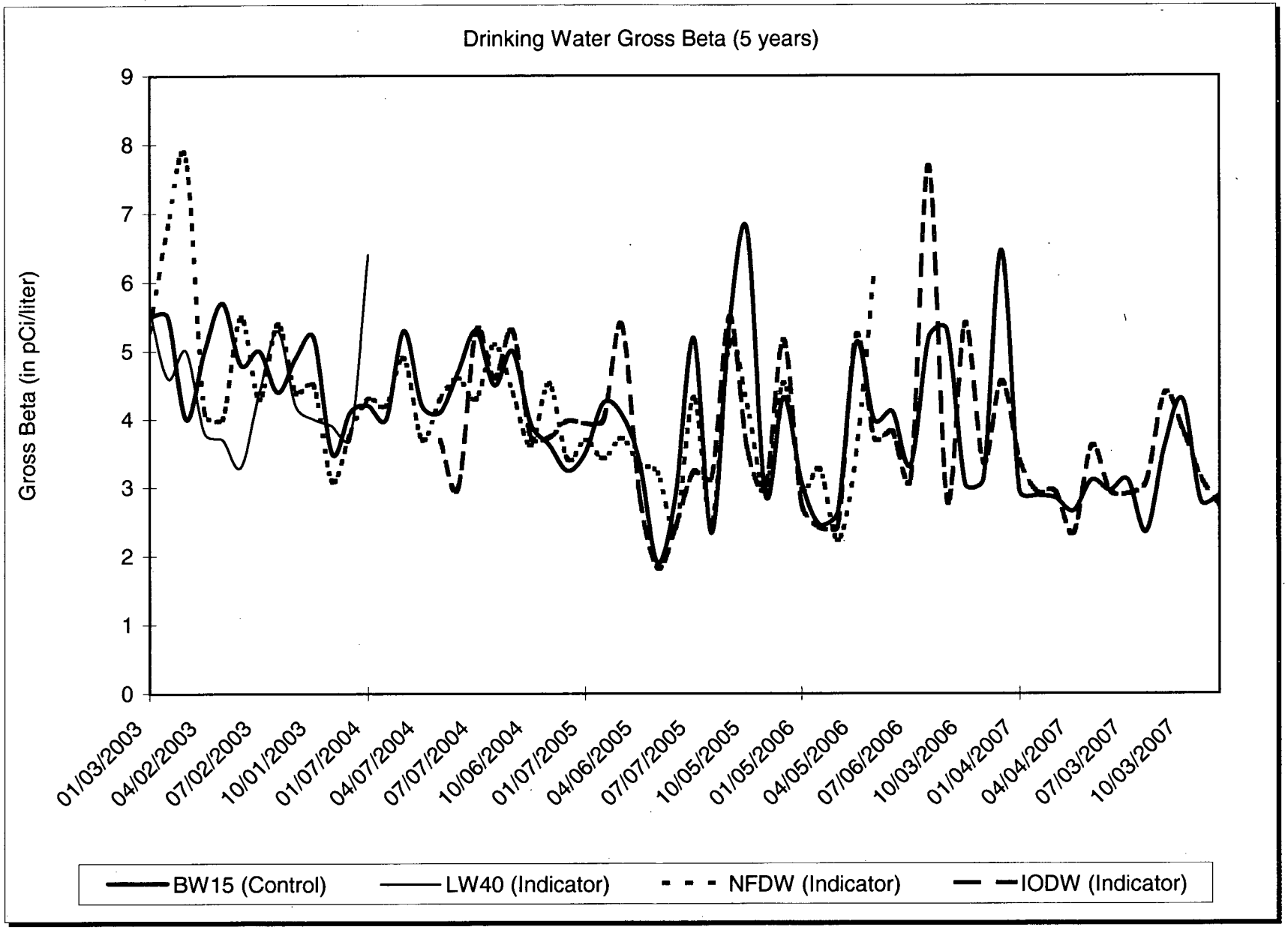

Drinking Water Gross Beta (5 years)
Gross Beta (in pCi/liter)
9
8
7
6
5
4
3
2
1
0
01/03/2003
04/02/2003
07/02/2003
10/01/2003
01/07/2004
04/07/2004
07/07/2004
10/06/2004
01/07/2005
04/06/2005
07/07/2005
10/05/2005
01/05/2006
04/05/2006
07/06/2006
10/03/2006
01/04/2007
04/04/2007
07/03/2007
10/03/2007
BW15 (Control)
LW40 (Indicator)
NFDW (Indicator)
IODW (Indicator)

CHART 6

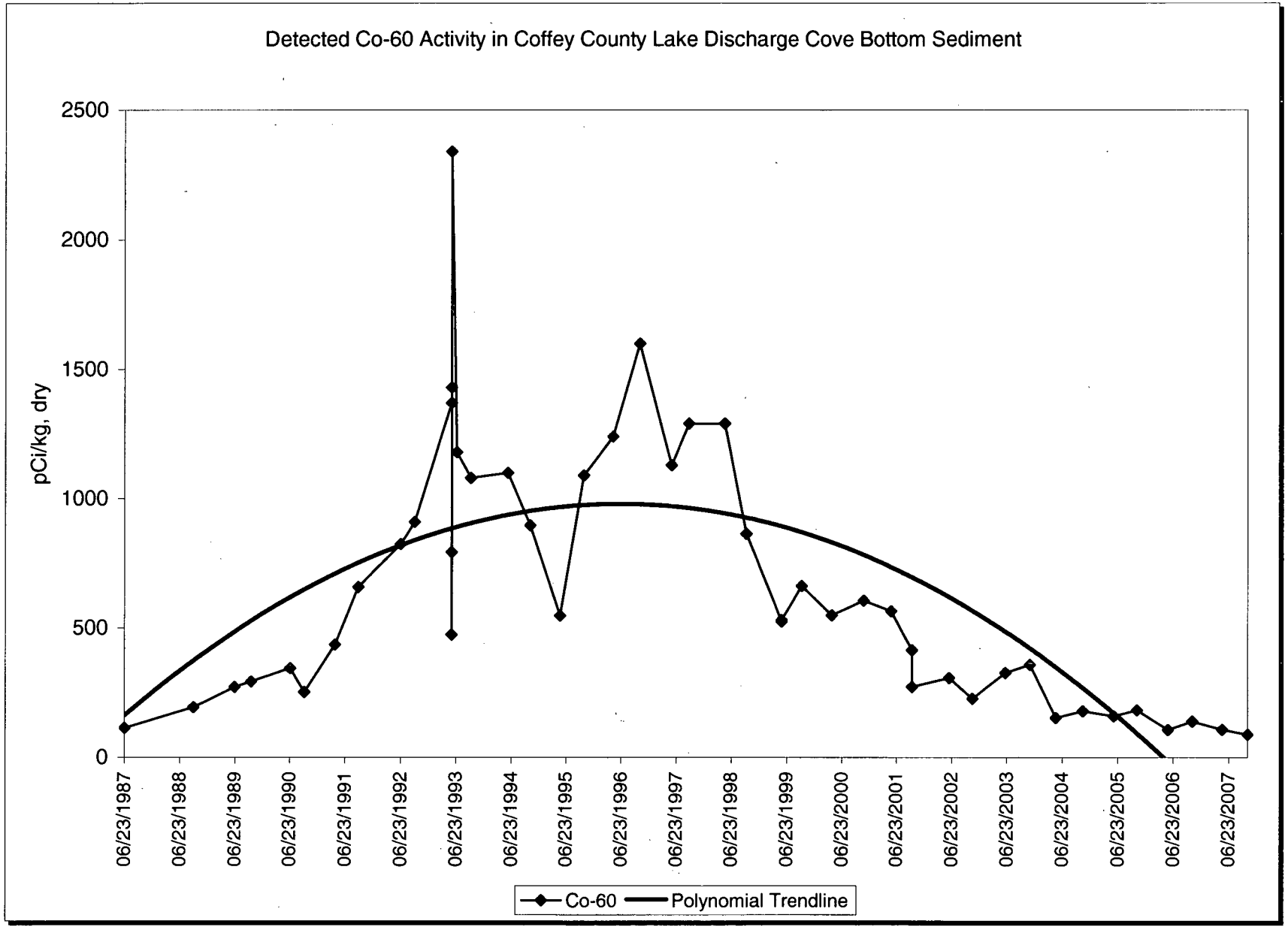
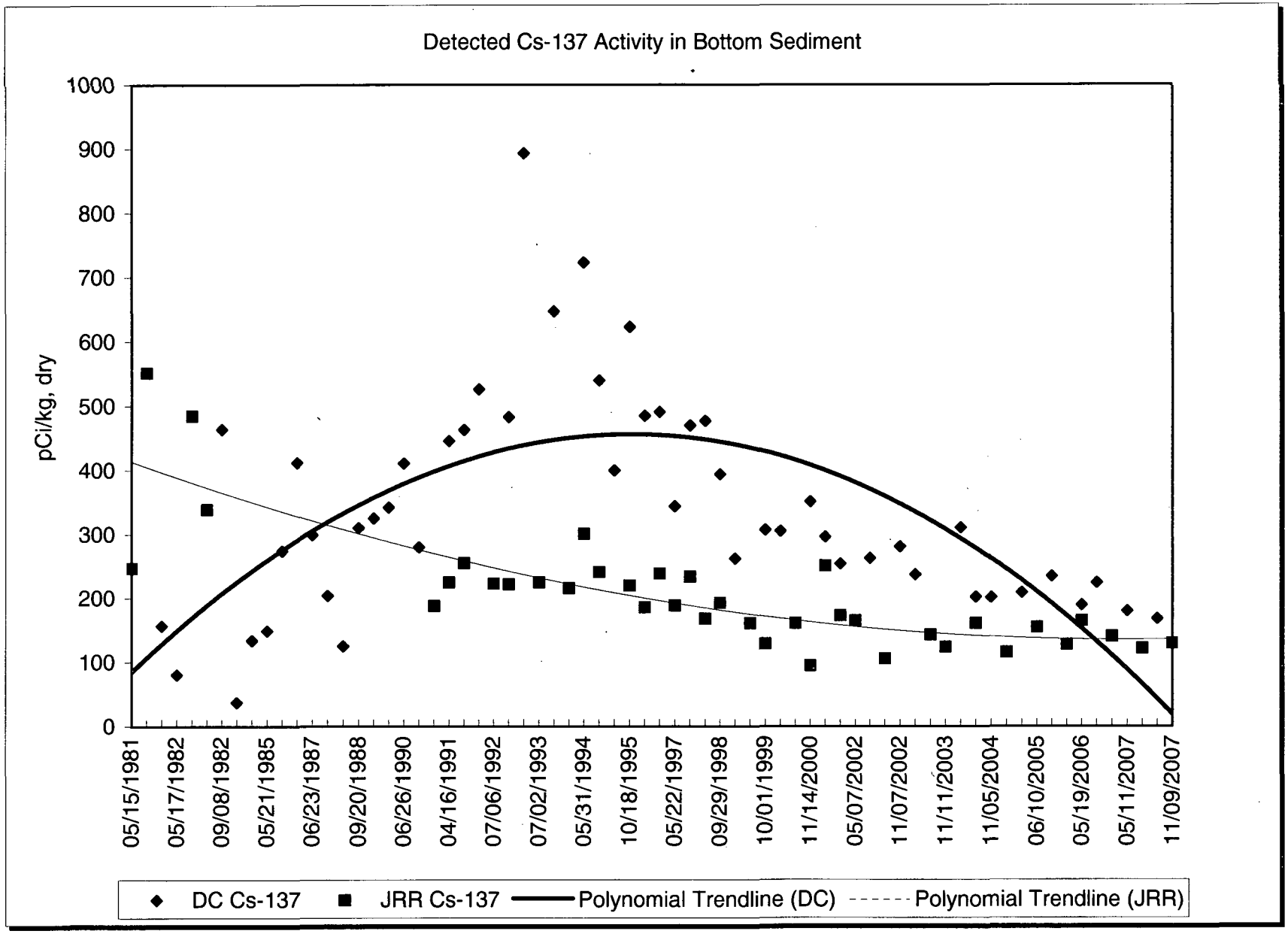

Detected Co-60 Activity in Coffey County Lake Discharge Cove Bottom Sediment
pCi/kg, dry
2500
2000
1500
1000
500
0
06/23/1987
06/23/1988
06/23/1989
06/23/1990
06/23/1991
06/23/1992
06/23/1993
06/23/1994
06/23/1995
06/23/1996
06/23/1997
06/23/1998
06/23/1999
06/23/2000
06/23/2001
06/23/2002
06/23/2003
06/23/2004
06/23/2005
06/23/2006
06/23/2007
Co-60
Polynomial Trendline

CHART 7


Detected Cs-137 Activity in Bottom Sediment
pCi/kg, dry
1000
900
800
700
600
500
400
300
200
100
0
05/15/1981
05/17/1982
09/08/1982
05/21/1985
06/23/1987
09/20/1988
06/26/1990
04/16/1991
07/06/1992
07/02/1993
05/31/1994
10/18/1995
05/22/1997
09/29/1998
10/01/1999
11/14/2000
05/07/2002
11/07/2002
11/11/2003
11/05/2004
06/10/2005
05/19/2006
05/11/2007
11/09/2007
DC Cs-137
JRR Cs-137
Polynomial Trendline (DC)
Polynomial Trendline (JRR)

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Midwest Laboratory
an Allegheny Technologies Co.

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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 through December, 2007

Appendix A

Interlaboratory Comparison Program Results

Environmental, Inc., Midwest Laboratory has participated in interlaboratory comparison (crosscheck) programs since the formulation of it's 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 lists REMP specific analytical results from 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.
Complete analytical data for duplicate analyses is available upon request.

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

Results in Table A-7 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 Environmental Measurement Laboratory Quality Assessment Program (EML).

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	$\pm 1\sigma$ = $169.85 \times (\text{known})^{0.0933}$ 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] Technetium-99[b]	≤ 35 pCi/liter > 35 pCi/liter	6.0 pCi/liter 15% of known value
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	Concentration (pCi/L)				
		Analysis	Laboratory Result[b]	ERA Result[c]	Control Limits	Acceptance
STW-1121	04/09/07	Sr-89	30.7 ± 4.3	35.4	26.7 - 44.1	Pass
STW-1121	04/09/07	Sr-90	39.3 ± 1.8	42.1	33.4 - 50.8	Pass
STW-1122	04/09/07	Ba-133	30.0 ± 2.4	29.3	20.6 - 38.0	Pass
STW-1122	04/09/07	Co-60	118.5 ± 3.9	119.0	109.0 - 129.0	Pass
STW-1122	04/09/07	Cs-134	52.6 ± 2.3	54.3	45.6 - 63.0	Pass
STW-1122	04/09/07	Cs-137	49.5 ± 3.8	50.3	41.6 - 59.0	Pass
STW-1122	04/09/07	Zn-65	91.7 ± 6.3	88.6	73.3 - 104.0	Pass
STW-1123	04/09/07	Gr. Alpha	33.8 ± 3.5	56.5	32.0 - 81.0	Pass
STW-1123	04/09/07	Gr. Beta	24.2 ± 2.3	25.3	16.6 - 34.0	Pass
STW-1124	04/09/07	I-131	19.2 ± 1.2	18.9	13.7 - 24.1	Pass
STW-1125	04/09/07	H-3	7540.0 ± 255.0	8060.0	6660.0 - 9450.0	Pass
STW-1125	04/09/07	Ra-226	13.0 ± 0.6	13.4	9.9 - 16.9	Pass
STW-1125	04/09/07	Ra-228	19.9 ± 2.7	18.2	10.3 - 26.1	Pass
STW-1125	04/09/07	Uranium	4.5 ± 0.2	4.6	0.0 - 9.8	Pass
STW-1127	07/09/07	Sr-89	51.7 ± 5.0	58.2	49.5 - 66.9	Pass
STW-1127	07/09/07	Sr-90	21.4 ± 2.3	19.0	10.3 - 27.7	Pass
STW-1128	07/09/07	Ba-133	19.4 ± 2.2	19.4	10.7 - 28.1	Pass
STW-1128	07/09/07	Co-60	32.8 ± 2.0	33.5	24.8 - 42.2	Pass
STW-1128	07/09/07	Cs-134	67.0 ± 2.9	68.9	60.2 - 77.6	Pass
STW-1128	07/09/07	Cs-137	61.6 ± 3.8	61.3	52.6 - 70.0	Pass
STW-1128	07/09/07	Zn-65	55.6 ± 7.5	54.6	45.2 - 64.0	Pass
STW-1129	07/09/07	Gr. Alpha	19.2 ± 1.6	27.1	15.4 - 38.8	Pass
STW-1129	07/09/07	Gr. Beta	9.1 ± 0.9	11.5	2.8 - 20.2	Pass
STW-1130	07/09/07	Ra-226	7.0 ± 0.5	7.7	5.7 - 9.7	Pass
STW-1130	07/09/07	Ra-228	9.2 ± 2.3	9.1	5.2 - 13.1	Pass
STW-1130	07/09/07	Uranium	23.9 ± 1.1	25.1	19.9 - 30.3	Pass
STW-1131	10/05/07	Sr-89	27.3 ± 3.3	27.4	19.3 - 33.9	Pass
STW-1131	10/05/07	Sr-90	17.7 ± 1.2	18.2	12.9 - 21.6	Pass
STW-1132	10/05/07	Ba-133	12.2 ± 3.3	12.6	8.6 - 15.5	Pass
STW-1132	10/05/07	Co-60	23.8 ± 1.4	23.2	19.9 - 28.3	Pass
STW-1132	10/05/07	Cs-134	70.5 ± 4.2	71.1	58.0 - 78.2	Pass
STW-1132	10/05/07	Cs-137	178.2 ± 3.3	180.0	162.0 - 200.0	Pass
STW-1132	10/05/07	Zn-65	263.9 ± 6.9	251.0	226.0 - 294.0	Pass
STW-1133	10/05/07	Gr. Alpha	54.7 ± 2.1	58.6	30.6 - 72.9	Pass
STW-1133	10/05/07	Gr. Beta	11.9 ± 0.9	9.7	4.3 - 18.2	Pass
STW-1134	10/05/07	I-131	33.0 ± 1.5	28.9	24.0 - 33.8	Pass
STW-1135	10/05/07	H-3	9965.0 ± 250.0	9700.0	8430.0 - 10700.0	Pass
STW-1135	10/05/07	Ra-226	12.7 ± 0.2	12.9	9.6 - 14.9	Pass
STW-1135	10/05/07	Ra-228	19.6 ± 2.4	17.9	12.0 - 21.5	Pass
STW-1135	10/05/07	Uranium	27.3 ± 1.1	27.5	22.1 - 30.8	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.

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

Lab Code	Date	Concentration (pCi/L)				
		Analysis	Laboratory Result[b]	ERA Result[c]	Control Limits	Acceptance

[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, $CaSO_4$: Dy Cards).

Lab Code	Date	Description	Known Value (mR)	Lab Result ± 2 sigma (mR)	Control Limits	Acceptance
Environmental, Inc.						
2007-1	7/13/2007	30 cm.	54.25	60.56 ± 5.54	37.98 - 70.53	Pass
2007-1	7/13/2007	40 cm.	30.51	34.23 ± 0.96	21.36 - 39.66	Pass
2007-1	7/13/2007	50 cm.	19.53	17.95 ± 1.86	13.67 - 25.39	Pass
2007-1	7/13/2007	60 cm.	13.56	16.61 ± 0.60	9.49 - 17.63	Pass
2007-1	7/13/2007	70 cm.	9.96	9.72 ± 0.90	6.97 - 12.95	Pass
2007-1	7/13/2007	80 cm.	7.63	7.79 ± 0.33	5.34 - 9.92	Pass
2007-1	7/13/2007	90 cm.	6.03	5.53 ± 0.72	4.22 - 7.84	Pass
2007-1	7/13/2007	100 cm.	4.88	5.32 ± 0.17	3.42 - 6.34	Pass
2007-1	7/13/2007	110 cm.	4.03	3.49 ± 0.14	2.82 - 5.24	Pass
2007-1	7/13/2007	120 cm.	3.39	2.64 ± 0.14	2.37 - 4.41	Pass
2007-1	7/13/2007	150 cm.	2.17	2.13 ± 0.87	1.52 - 2.82	Pass
Environmental, Inc.						
2007-2	11/12/2007	30 cm.	54.37	65.47 ± 5.25	38.06 - 70.68	Pass
2007-2	11/12/2007	40 cm.	30.59	37.43 ± 2.18	21.41 - 39.77	Pass
2007-2	11/12/2007	60 cm.	13.59	15.18 ± 0.50	9.51 - 17.67	Pass
2007-2	11/12/2007	70 cm.	9.99	12.18 ± 0.46	6.99 - 12.99	Pass
2007-2	11/12/2007	80 cm.	7.65	8.74 ± 0.39	5.36 - 9.95	Pass
2007-2	11/12/2007	90 cm.	6.04	5.89 ± 0.25	4.23 - 7.85	Pass
2007-2	11/12/2007	110 cm.	4.04	4.13 ± 0.41	2.83 - 5.25	Pass
2007-2	11/12/2007	120 cm.	3.4	2.92 ± 0.13	2.38 - 4.42	Pass
2007-2	11/12/2007	120 cm.	3.4	2.91 ± 0.31	2.38 - 4.42	Pass
2007-2	11/12/2007	150 cm.	2.17	1.95 ± 0.72	1.52 - 2.82	Pass
2007-2	11/12/2007	180 cm.	1.51	1.38 ± 0.05	1.06 - 1.96	Pass

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

Lab Code [b]	Date	Concentration (pCi/L)[a] Analysis	Laboratory results 2s, n=1 [c]	Known Activity	Control Limits [d]	Acceptance
W-30707	3/7/2007	Gr. Alpha	19.51 ± 0.40	20.08	10.04 - 30.12	Pass
W-30707	3/7/2007	Gr. Beta	67.45 ± 0.49	65.73	55.73 - 75.73	Pass
SPAP-1566	3/23/2007	Cs-134	25.35 ± 1.31	27.82	17.82 - 37.82	Pass
SPAP-1566	3/23/2007	Cs-137	107.52 ± 3.02	116.48	104.83 - 128.13	Pass
SPW-1568	3/23/2007	H-3	65595.00 ± 672.00	71118.00	56894.40 - 85341.60	Pass
SPW-1678	3/28/2007	Tc-99	28.44 ± 1.12	32.35	20.35 - 44.35	Pass
SPW-1595	4/5/2007	Cs-134	54.48 ± 2.12	54.99	44.99 - 64.99	Pass
SPW-1595	4/5/2007	Cs-137	59.03 ± 2.94	58.19	48.19 - 68.19	Pass
SPW-1595	4/5/2007	I-131(G)	83.11 ± 3.51	82.07	72.07 - 92.07	Pass
SPW-1595A	4/5/2007	I-131	78.40 ± 1.10	82.07	65.66 - 98.48	Pass
SPW-1595B	4/5/2007	I-131	78.97 ± 1.10	82.07	65.66 - 98.48	Pass
SPMI-1597	4/5/2007	Cs-134	54.03 ± 2.15	54.99	44.99 - 64.99	Pass
SPMI-1597	4/5/2007	Cs-137	59.81 ± 4.75	58.19	48.19 - 68.19	Pass
SPMI-1597	4/5/2007	I-131(G)	83.97 ± 4.07	82.07	72.07 - 92.07	Pass
SPMI-1597A	4/5/2007	I-131	79.53 ± 1.03	82.07	65.66 - 98.48	Pass
SPMI-1597B	4/5/2007	I-131	83.51 ± 1.05	82.07	65.66 - 98.48	Pass
SPCH-2839	5/17/2007	I-131(G)	78.70 ± 7.36	70.40	60.40 - 80.40	Pass
SPW-2847	5/17/2007	Cs-134	55.43 ± 1.68	52.85	42.85 - 62.85	Pass
SPW-2847	5/17/2007	Cs-137	59.86 ± 2.71	58.03	48.03 - 68.03	Pass
SPW-2847	5/17/2007	I-131(G)	63.95 ± 2.69	70.87	60.87 - 80.87	Pass
SPMI-2849	5/17/2007	Cs-134	51.37 ± 1.65	52.85	42.85 - 62.85	Pass
SPMI-2849	5/17/2007	Cs-137	60.42 ± 4.31	58.03	48.03 - 68.03	Pass
SPMI-2849	5/17/2007	I-131(G)	62.44 ± 3.14	70.87	60.87 - 80.87	Pass
SPCH-2922	5/17/2007	I-131(G)	80.00 ± 6.40	70.40	41.60 - 99.20	Pass
SPW-2847	5/18/2007	I-131	60.14 ± 0.89	70.87	56.70 - 85.04	Pass
SPW-2847	5/18/2007	Sr-89	104.93 ± 6.64	121.90	97.52 - 146.28	Pass
SPW-2847	5/18/2007	Sr-89	46.72 ± 1.97	46.08	36.08 - 56.08	Pass
SPMI-2849	5/18/2007	I-131	67.97 ± 0.88	70.87	56.70 - 85.04	Pass
SPW-2909 [e]	5/22/2007	Fe-55	11137.00 ± 316.00	14271.50	11417.20 - 17125.80	Fail
SPW-2911	5/22/2007	H-3	65023.00 ± 679.00	70485.00	56388.00 - 84582.00	Pass
SPAP-2913	5/22/2007	Gr. Beta	55.27 ± 8.51	52.65	42.12 - 73.71	Pass
SPAP-2915	5/22/2007	Cs-134	22.53 ± 1.12	26.42	16.42 - 36.42	Pass
SPAP-2915	5/22/2007	Cs-137	111.14 ± 3.57	116.06	104.45 - 127.67	Pass
SPF-2922	5/22/2007	Cs-134	0.52 ± 0.03	0.53	0.32 - 0.74	Pass
SPF-2922	5/22/2007	Cs-137	2.58 ± 0.07	2.32	1.39 - 3.25	Pass
SPW-3223	5/24/2007	Ni-63	2233.10 ± 10.32	2135.90	1281.54 - 2990.26	Pass
W-60507	6/5/2007	Gr. Alpha	20.93 ± 0.42	20.08	10.04 - 30.12	Pass
W-60507	6/5/2007	Gr. Beta	60.50 ± 0.46	65.73	55.73 - 75.73	Pass
SPW-4327	7/18/2007	Tc-99	25.58 ± 1.11	32.35	20.35 - 44.35	Pass
SPW-5476	8/17/2007	Ni-63	1925.18 ± 9.62	2135.90	1281.54 - 2990.26	Pass
W-92107	9/21/2007	Gr. Alpha	23.02 ± 0.44	20.08	10.04 - 30.12	Pass
W-92107	9/21/2007	Gr. Beta	61.48 ± 0.47	65.73	55.73 - 75.73	Pass

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

Lab Code	Date	Concentration (pCi/L)[a] Analysis	Laboratory results 2s, n=1[b]	Known Activity	Control Limits[c]	Acceptance
SPW-6880	10/10/2007	Tc-99	30.97 ± 1.21	32.35	20.35 - 44.35	Pass
w-111007	11/10/2007	Gr. Alpha	22.43 ± 0.42	20.08	10.04 - 30.12	Pass
w-111007	11/10/2007	Gr. Beta	64.49 ± 0.48	65.73	55.73 - 75.73	Pass
SPAP-7742	11/13/2007	Cs-134	21.18 ± 1.29	22.41	12.41 - 32.41	Pass
SPAP-7742	11/13/2007	Cs-137	113.61 ± 3.16	114.76	103.28 - 126.24	Pass
SPAP-7744	11/13/2007	Gr. Beta	53.41 ± 0.13	52.03	41.62 - 72.84	Pass
SPMI-7746	11/13/2007	Cs-134	42.20 ± 1.48	44.83	34.83 - 54.83	Pass
SPMI-7746	11/13/2007	Cs-137	56.05 ± 2.83	57.40	47.40 - 67.40	Pass
SPMI-7746	11/13/2007	Sr-90	41.02 ± 1.61	45.54	36.43 - 54.65	Pass
SPW-7748	11/13/2007	Cs-134	43.11 ± 1.52	44.80	34.80 - 54.80	Pass
SPW-7748	11/13/2007	Cs-137	59.28 ± 3.50	57.40	47.40 - 67.40	Pass
SPW-7748	11/13/2007	Sr-90	37.23 ± 1.51	45.54	36.43 - 54.65	Pass
SPW-7752	11/13/2007	Fe-55	12935.10 ± 357.00	12640.50	10112.40 - 15168.60	Pass
SPW-7758	11/13/2007	H-3	65405.00 ± 712.50	68618.00	54894.40 - 82341.60	Pass
SPF-7760	11/13/2007	Cs-134	0.45 ± 0.02	0.45	0.27 - 0.63	Pass
SPF-7760	11/13/2007	Cs-137	2.45 ± 0.07	2.29	1.37 - 3.21	Pass
SPW-8034	11/13/2007	Ni-63	2194.06 ± 10.77	2129.03	1277.42 - 2980.64	Pass

[a] Liquid sample results are reported in pCi/Liter, air filters(pCi/filter), charcoal (pCi/m^3), 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.

[e] Sample recount: 12557 ± 335.

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]		
				Laboratory results (4.66σ)		Acceptance
				LLD	Activity[c]	Criteria (4.66 σ)
W-30707	water	3/7/2007	Gr. Alpha	0.40	0.01 ± 0.28	2
W-30707	water	3/7/2007	Gr. Beta	0.75	0.06 ± 0.53	4
SPAP-1567	Air Filter	3/23/2007	Cs-134	0.79		100
SPW-1567	Air Filter	3/23/2007	Cs-137	1.01		100
SPW-1568	water	3/23/2007	H-3	176.10	-26.16 ± 91.62	200
SPW-1596	water	4/5/2007	Cs-134	3.28		10
SPW-1596	water	4/5/2007	Cs-137	3.45		10
SPW-1596	water	4/5/2007	I-131	0.27	0.02 ± 0.18	0.5
SPW-1596	water	4/5/2007	I-131(G)	2.91		20
SPMI-1598	Milk	4/5/2007	Cs-134	3.30		10
SPMI-1598	Milk	4/5/2007	Cs-137	5.08		10
SPMI-1598	Milk	4/5/2007	I-131	0.26	-0.10 ± 0.17	0.5
SPMI-1598	Milk	4/5/2007	I-131(G)	4.10		20
SPCH-2839	Charcoal Canister	5/17/2007	I-131(G)	2.24		9.6
SPW-2848	water	5/17/2007	Cs-134	3.14		10
SPW-2848	water	5/17/2007	Cs-137	1.37		10
SPW-2848	water	5/17/2007	I-131(G)	5.34		20
SPMI-2850	Milk	5/17/2007	Cs-134	3.32		10
SPMI-2850	Milk	5/17/2007	Cs-137	2.60		10
SPMI-2850	Milk	5/17/2007	I-131(G)	4.77		20
SPW-2848	water	5/18/2007	I-131	0.34	-0.06 ± 0.19	0.5
SPW-2848	water	5/18/2007	Sr-89	0.81	-0.02 ± 0.65	5
SPW-2848	water	5/18/2007	Sr-90	0.53	0.01 ± 0.25	1
SPMI-2850	Milk	5/18/2007	I-131	0.45	0.20 ± 0.26	0.5
SPMI-2850	Milk	5/18/2007	Sr-89	0.96	-0.73 ± 1.02	5
SPMI-2850 [d]	Milk	5/18/2007	Sr-90	0.58	0.96 ± 0.38	1
SPAP-2914	Air Filter	5/22/2007	Gr. Beta	0.004	-0.002 ± 0.002	0.01
SPAP-2916	Air Filter	5/22/2007	Cs-134	2.84		100
SPAP-2916	Air Filter	5/22/2007	Cs-137	2.24		100
SPF-2923	Fish	5/22/2007	Cs-134	8.71		100
SPF-2923	Fish	5/22/2007	Cs-137	8.35		100
SPW-3224	water	5/24/2007	Ni-63	1.61	-0.30 ± 0.84	20
W-60507	water	6/5/2007	Gr. Alpha	0.43	-0.01 ± 0.30	2
W-60507	water	6/5/2007	Gr. Beta	0.77	0.01 ± 0.54	4
SPW-4328	water	7/18/2007	Tc-99	6.41	-3.12 ± 3.84	10
SPW-5477	water	8/17/2007	Ni-63	1.48	4.38 ± 1.01	20
W-92107	water	9/21/2007	Gr. Alpha	0.41	0.09 ± 0.29	2
W-92107	water	9/21/2007	Gr. Beta	0.75	-0.26 ± 0.51	4

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

Lab Code	Sample Type	Date	Analysis[b]	Concentration (pCi/L)[a]		
				Laboratory results (4.66σ)		Acceptance
				LLD	Activity[c]	Criteria (4.66 σ)
SPW-6881	water	10/10/2007	Tc-99	6.82	-6.58 ± 4.04	10
SPAP-7743	Air Filter	11/13/2007	Gr. Beta	0.003	-0.002 ± 0.002	0.01
SPMI-7745	Milk	11/13/2007	Cs-134	2.16		10
SPMI-7745	Milk	11/13/2007	Cs-137	3.46		10
SPMI-7745	Milk	11/13/2007	I-131(G)	5.89		20
SPMI-7745	Milk	11/13/2007	Sr-90	0.59	0.73 ± 0.35	1
SPW-7747	water	11/13/2007	Cs-134	2.39		10
SPW-7747	water	11/13/2007	Cs-137	3.53		10
SPW-7747	water	11/13/2007	I-131(G)	12.51		20
SPW-7747	water	11/13/2007	Sr-90	0.71	-0.04 ± 0.32	1
SPW-7751	water	11/13/2007	Fe-55	15.50	-4.18 ± 9.20	1000
SPW-7757	water	11/13/2007	H-3	151.35	-14.98 ± 78.85	200
SPF-7759	Fish	11/13/2007	Cs-134	5.50		100
SPF-7759	Fish	11/13/2007	Cs-137	5.10		100
SPW-8033	water	11/13/2007	Ni-63	1.45	-0.19 ± 0.87	20
W-120607	water	12/6/2007	Gr. Alpha	0.40	0.02 ± 0.28	2
W-120607	water	12/6/2007	Gr. Beta	0.77	-0.70 ± 0.51	4

[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] First Result	Second Result	Averaged Result	Acceptance
E-20, 21	1/2/2007	Gr. Beta	1.76 ± 0.07	1.70 ± 0.06	1.73 ± 0.05	Pass
E-20, 21	1/2/2007	K-40	1.49 ± 0.24	1.57 ± 0.27	1.53 ± 0.18	Pass
CF-41, 42	1/2/2007	Gr. Beta	18.02 ± 0.41	18.81 ± 0.42	18.42 ± 0.29	Pass
CF-41, 42	1/2/2007	K-40	11.68 ± 1.12	12.67 ± 0.97	12.18 ± 0.74	Pass
CF-41, 42	1/2/2007	Sr-90	0.039 ± 0.011	0.026 ± 0.010	0.033 ± 0.007	Pass
P-9516, 9517	1/3/2007	H-3	270.78 ± 91.74	301.18 ± 92.99	285.98 ± 65.31	Pass
LW-9579, 9580	1/4/2007	Gr. Beta	0.91 ± 0.31	0.93 ± 0.30	0.92 ± 0.22	Pass
DW-70085, 70086	1/9/2007	Gr. Alpha	7.95 ± 1.20	7.92 ± 1.42	7.94 ± 0.93	Pass
DW-70037, 70038	1/11/2007	Gr. Alpha	55.47 ± 3.99	52.87 ± 4.02	54.17 ± 2.83	Pass
DW-70054, 70055	1/18/2007	Gr. Alpha	2.68 ± 0.88	1.88 ± 0.78	2.28 ± 0.59	Pass
DW-70122, 70123	1/18/2007	Gr. Alpha	4.30 ± 1.14	6.25 ± 1.16	5.28 ± 0.81	Pass
DW-70122, 70123	1/18/2007	Gr. Beta	4.22 ± 0.70	5.33 ± 0.75	4.78 ± 0.51	Pass
DW-70098, 70099	1/25/2007	Gr. Alpha	3.27 ± 0.90	1.97 ± 0.92	2.62 ± 0.64	Pass
DW-70110, 70111	1/25/2007	Gr. Alpha	2.19 ± 0.92	1.69 ± 0.79	1.94 ± 0.61	Pass
SWU-676, 677	1/30/2007	Gr. Beta	1.77 ± 0.39	2.11 ± 0.39	1.94 ± 0.28	Pass
DW-70148, 70149	1/30/2007	Gr. Alpha	4.65 ± 1.37	5.20 ± 1.81	4.93 ± 1.14	Pass
SW-600, 601	2/1/2007	K-40	1.24 ± 0.12	1.20 ± 0.12	1.22 ± 0.08	Pass
SW-601, 602	2/1/2007	Gr. Beta	0.89 ± 0.37	1.02 ± 0.25	0.96 ± 0.22	Pass
DW-1138, 1139	2/9/2007	H-3	2707.00 ± 161.00	2700.00 ± 161.00	2703.50 ± 113.84	Pass
MI-721, 722	2/13/2007	K-40	1330.40 ± 117.60	1316.40 ± 116.50	1323.40 ± 82.77	Pass
SW-847, 848	2/13/2007	Gr. Alpha	3.82 ± 1.67	2.61 ± 1.24	3.22 ± 1.04	Pass
SW-847, 848	2/13/2007	Gr. Beta	7.33 ± 1.37	5.89 ± 0.90	6.61 ± 0.82	Pass
DW-70175, 70176	2/14/2007	Gr. Alpha	11.72 ± 1.68	8.84 ± 1.32	10.28 ± 1.07	Pass
DW-70187, 70188	2/14/2007	Gr. Alpha	6.79 ± 1.18	6.47 ± 1.08	6.63 ± 0.80	Pass
SWU-1162, 1163	2/27/2007	Gr. Beta	3.63 ± 0.69	2.61 ± 0.44	3.12 ± 0.41	Pass
DW-70205, 70206	2/28/2007	Gr. Alpha	0.88 ± 0.80	1.31 ± 0.79	1.10 ± 0.56	Pass
PW-1117, 1118	3/1/2007	Gr. Alpha	3.79 ± 1.91	3.62 ± 2.09	3.71 ± 1.42	Pass
PW-1117, 1118	3/1/2007	Gr. Beta	7.12 ± 1.40	7.20 ± 1.39	7.16 ± 0.99	Pass
W-2122, 2123	3/5/2007	Gr. Alpha	6.10 ± 4.16	3.80 ± 4.30	4.95 ± 2.99	Pass
W-2122, 2123	3/5/2007	Gr. Beta	10.65 ± 2.15	13.11 ± 2.42	11.88 ± 1.62	Pass
W-2085, 2086	3/6/2007	Gr. Alpha	2.51 ± 2.29	1.10 ± 2.78	1.81 ± 1.80	Pass
W-2085, 2086	3/6/2007	Gr. Beta	11.02 ± 1.85	9.50 ± 2.01	10.26 ± 1.37	Pass
DW-70232, 70233	3/8/2007	Gr. Alpha	4.75 ± 1.28	5.98 ± 1.31	5.37 ± 0.92	Pass
WW-1477, 1478	3/12/2007	Gr. Beta	6.41 ± 1.48	4.10 ± 1.25	5.26 ± 0.97	Pass
WW-1498, 1499	3/15/2007	Gr. Beta	0.83 ± 0.31	0.97 ± 0.33	0.90 ± 0.22	Pass
W-2140, 2141	3/19/2007	Gr. Alpha	2.31 ± 1.57	1.33 ± 1.64	1.82 ± 1.14	Pass
W-2140, 2141	3/19/2007	Gr. Beta	4.26 ± 1.00	5.58 ± 1.02	4.92 ± 0.71	Pass
DW-1626, 1627	3/21/2007	H-3	4973.00 ± 209.00	5190.00 ± 213.00	5081.50 ± 149.21	Pass
MI-1647, 1648	3/21/2007	K-40	1448.80 ± 120.20	1439.30 ± 126.00	1444.05 ± 87.07	Pass
DW-70248, 70249	3/21/2007	Gr. Alpha	11.10 ± 1.18	9.90 ± 1.16	10.50 ± 0.83	Pass
W-2150, 2151	3/26/2007	Gr. Alpha	3.56 ± 2.20	3.30 ± 1.81	3.43 ± 1.42	Pass
W-2150, 2151	3/26/2007	Gr. Beta	9.26 ± 1.00	10.17 ± 1.90	9.72 ± 1.07	Pass
LW-1941, 1942	3/31/2007	Gr. Beta	1.35 ± 0.43	1.36 ± 0.41	1.36 ± 0.30	Pass

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

Lab Code	Date	Analysis	Concentration (pCi/L)[a] First Result	Second Result	Averaged Result	Acceptance
MI-1824, 1825	4/2/2007	K-40	1316.10 ± 110.60	1229.80 ± 110.50	1272.95 ± 78.17	Pass
MI-1824, 1825	4/2/2007	Sr-90	1.20 ± 0.50	1.10 ± 0.36	1.15 ± 0.31	Pass
AP-2170, 2171	4/2/2007	Be-7	0.08 ± 0.01	0.08 ± 0.01	0.08 ± 0.01	Pass
WW-1850, 1851	4/3/2007	H-3	-5.83 ± 102.29	150.05 ± 80.14	72.11 ± 64.97	Pass
AP-2198, 2199	4/3/2007	Be-7	0.08 ± 0.01	0.08 ± 0.01	0.08 ± 0.01	Pass
AP-2370, 2371	4/3/2007	Be-7	0.07 ± 0.01	0.07 ± 0.01	0.07 ± 0.01	Pass
DW-70300, 70301	4/4/2007	Gr. Alpha	3.78 ± 0.89	3.66 ± 0.96	3.72 ± 0.65	Pass
DW-70300, 70301	4/4/2007	Gr. Beta	2.93 ± 0.61	2.91 ± 0.64	2.92 ± 0.44	Pass
DW-70335, 70336	4/5/2007	Gr. Alpha	24.37 ± 2.89	22.72 ± 2.91	23.55 ± 2.05	Pass
DW-70335, 70336	4/5/2007	Gr. Beta	20.26 ± 1.37	18.33 ± 1.34	19.30 ± 0.96	Pass
SW-1898, 1899	4/10/2007	Gr. Alpha	3.86 ± 1.40	4.78 ± 1.51	4.32 ± 1.03	Pass
SW-1898, 1899	4/10/2007	Gr. Beta	6.31 ± 1.36	7.03 ± 1.42	6.67 ± 0.98	Pass
SW-1898, 1899	4/10/2007	H-3	241.99 ± 93.35	318.10 ± 96.48	280.04 ± 67.12	Pass
DW-70346, 70347	4/11/2007	Gr. Alpha	1.83 ± 1.08	2.54 ± 1.04	2.19 ± 0.75	Pass
DW-70346, 70347	4/11/2007	Gr. Beta	4.62 ± 0.72	4.01 ± 0.71	4.32 ± 0.51	Pass
DW-70376, 70377	4/11/2007	Gr. Alpha	1.81 ± 0.80	1.66 ± 0.86	1.74 ± 0.59	Pass
DW-70376, 70377	4/11/2007	Gr. Beta	1.84 ± 0.62	2.24 ± 0.61	2.04 ± 0.44	Pass
DW-70311, 70312	4/12/2007	Gr. Alpha	10.82 ± 1.50	13.20 ± 1.56	12.01 ± 1.08	Pass
WW-2349, 2350	4/17/2007	Gr. Alpha	0.71 ± 0.56	0.62 ± 0.52	0.66 ± 0.38	Pass
WW-2461, 2462	4/25/2007	H-3	190.30 ± 100.31	115.95 ± 97.65	153.13 ± 70.00	Pass
LW-2437, 2438	4/26/2007	Gr. Beta	2.71 ± 0.50	2.15 ± 0.45	2.43 ± 0.34	Pass
LW-2917, 2918	4/30/2007	Gr. Beta	1.97 ± 0.79	2.78 ± 0.81	2.38 ± 0.57	Pass
SO-2583, 2584	5/1/2007	Be-7	544.99 ± 247.70	601.13 ± 192.20	573.06 ± 156.76	Pass
SO-2583, 2584	5/1/2007	Cs-137	119.22 ± 36.61	87.46 ± 23.97	103.34 ± 21.88	Pass
SO-2583, 2584	5/1/2007	K-40	17825.00 ± 749.90	17672.00 ± 724.30	17748.50 ± 521.29	Pass
SO-2583, 2584	5/1/2007	Gr. Alpha	11.49 ± 3.96	8.04 ± 3.88	9.77 ± 2.77	Pass
SO-2583, 2584	5/1/2007	Gr. Beta	31.02 ± 3.74	26.10 ± 3.40	28.56 ± 2.53	Pass
SO-2583, 2584	5/1/2007	Sr-90	0.086 ± 0.024	0.068 ± 0.025	0.077 ± 0.017	Pass
S-2620, 2621	5/2/2007	H-3	277.90 ± 126.70	304.40 ± 101.00	291.15 ± 81.02	Pass
MI-2610, 2611	5/3/2007	K-40	1549.20 ± 184.20	1388.80 ± 128.20	1469.00 ± 112.21	Pass
W-4469, 4470	5/7/2007	Gr. Beta	10.60 ± 1.90	11.10 ± 1.80	10.85 ± 1.31	Pass
SS-2697, 2698	5/8/2007	Cs-137	0.06 ± 0.02	0.05 ± 0.03	0.05 ± 0.02	Pass
SS-2697, 2698	5/8/2007	K-40	8.03 ± 0.57	7.36 ± 0.68	7.70 ± 0.44	Pass
MI-2790, 2791	5/14/2007	K-40	1694.30 ± 126.20	1627.60 ± 128.80	1660.95 ± 90.16	Pass
W-4505, 4506	5/14/2007	Gr. Beta	3.30 ± 1.70	3.90 ± 1.50	3.60 ± 1.13	Pass
DW-3219, 3220	5/26/2007	I-131	0.62 ± 0.32	0.69 ± 0.31	0.66 ± 0.22	Pass
SO-3416, 3417	5/31/2007	Cs-137	0.15 ± 0.03	0.15 ± 0.03	0.15 ± 0.02	Pass
SO-3416, 3417	5/31/2007	Gr. Beta	22.88 ± 2.33	22.46 ± 2.37	22.67 ± 1.66	Pass
SO-3416, 3417	5/31/2007	K-40	12.26 ± 0.80	12.36 ± 0.65	12.31 ± 0.52	Pass
F-3561, 3562	5/31/2007	K-40	3.06 ± 0.39	3.37 ± 0.45	3.21 ± 0.30	Pass
SL-3311, 3312	6/4/2007	Be-7	0.61 ± 0.29	0.55 ± 0.25	0.58 ± 0.19	Pass
SL-3311, 3312	6/4/2007	K-40	5.78 ± 0.67	4.87 ± 0.25	5.33 ± 0.36	Pass

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

Lab Code	Date	Analysis	Concentration (pCi/L)[a] First Result	Second Result	Averaged Result	Acceptance
SL-3992, 3993	6/4/2007	Be-7	0.75 ± 0.19	0.74 ± 0.32	0.75 ± 0.19	Pass
SL-3992, 3993	6/4/2007	Gr. Beta	13.61 ± 1.12	14.06 ± 1.08	13.84 ± 0.78	Pass
SL-3992, 3993	6/4/2007	K-40	2.43 ± 0.36	2.29 ± 0.40	2.36 ± 0.27	Pass
W-5087, 5088	6/11/2007	Gr. Beta	8.70 ± 1.90	7.70 ± 1.90	8.20 ± 1.34	Pass
SW-3710, 3711	6/14/2007	H-3	9571.51 ± 287.22	9879.21 ± 291.42	9725.36 ± 204.59	Pass
W-4062, 4063	6/28/2007	Gr. Alpha	0.76 ± 0.63	0.32 ± 0.66	0.54 ± 0.45	Pass
W-4062, 4063	6/28/2007	Gr. Beta	0.97 ± 0.53	0.58 ± 0.57	0.78 ± 0.39	Pass
AP-4448, 4449	6/28/2007	Be-7	0.10 ± 0.02	0.09 ± 0.02	0.10 ± 0.01	Pass
SG-3735, 3736	6/30/2007	Be-7	0.84 ± 0.12	0.82 ± 0.18	0.83 ± 0.11	Pass
SG-3735, 3736	6/30/2007	Cs-137	0.07 ± 0.01	0.07 ± 0.01	0.07 ± 0.01	Pass
SG-3735, 3736	6/30/2007	Gr. Beta	29.51 ± 2.22	30.81 ± 2.22	30.16 ± 1.57	Pass
SG-3735, 3736	6/30/2007	K-40	9.41 ± 0.31	8.90 ± 0.48	9.16 ± 0.29	Pass
LW-4175, 4176	6/30/2007	Gr. Beta	2.18 ± 0.60	1.93 ± 0.68	2.06 ± 0.45	Pass
SG-5422, 5423	7/2/2007	Gr. Alpha	10.31 ± 1.98	10.57 ± 1.99	10.44 ± 1.40	Pass
SG-5422, 5423	7/2/2007	Gr. Beta	18.59 ± 1.46	20.97 ± 1.49	19.78 ± 1.04	Pass
AP-4656, 4657	7/3/2007	Be-7	0.09 ± 0.02	0.10 ± 0.02	0.10 ± 0.01	Pass
AP-4763, 4764	7/3/2007	Be-7	0.11 ± 0.02	0.10 ± 0.02	0.11 ± 0.01	Pass
SG-5430, 5431	7/11/2007	Be-7	10.17 ± 0.48	10.06 ± 0.51	10.12 ± 0.35	Pass
SG-5430, 5431	7/11/2007	Cs-137	0.050 ± 0.010	0.059 ± 0.011	0.055 ± 0.007	Pass
SG-5430, 5431	7/11/2007	Gr. Alpha	17.86 ± 2.78	15.74 ± 2.70	16.80 ± 1.94	Pass
SG-5430, 5431	7/11/2007	Gr. Beta	26.19 ± 1.74	25.04 ± 1.86	25.62 ± 1.27	Pass
SG-5430, 5431	7/11/2007	K-40	7.69 ± 0.30	7.65 ± 0.28	7.67 ± 0.21	Pass
WW-4298, 4299	7/12/2007	Gr. Beta	1.74 ± 0.74	2.22 ± 0.80	1.98 ± 0.55	Pass
DW-70612, 70613	7/23/2007	Gr. Alpha	4.54 ± 1.11	4.19 ± 0.97	4.37 ± 0.74	Pass
WW-4918, 4919	7/25/2007	H-3	240.43 ± 111.12	216.68 ± 110.27	228.56 ± 78.27	Pass
MI-4742, 4743	7/26/2007	K-40	1820.30 ± 134.10	1802.90 ± 199.50	1811.60 ± 120.19	Pass
VE-4939, 4940	8/1/2007	Be-7	0.39 ± 0.21	0.45 ± 0.20	0.42 ± 0.15	Pass
VE-4939, 4940	8/1/2007	Gr. Beta	5.50 ± 0.14	5.76 ± 0.13	5.63 ± 0.10	Pass
VE-4939, 4940	8/1/2007	K-40	3.36 ± 0.45	3.36 ± 0.21	3.36 ± 0.25	Pass
SG-6274, 6275	8/6/2007	Gr. Alpha	16.68 ± 3.29	19.26 ± 3.39	17.97 ± 2.36	Pass
SG-6274, 6275	8/6/2007	Gr. Beta	40.93 ± 2.74	42.42 ± 2.66	41.68 ± 1.91	Pass
SW-5218, 5219	8/7/2007	I-131	1.31 ± 0.24	1.42 ± 0.24	1.37 ± 0.17	Pass
SG-6284, 6285	8/8/2007	Cs-137	0.043 ± 0.006	0.051 ± 0.007	0.047 ± 0.005	Pass
SG-6284, 6285	8/8/2007	Gr. Alpha	9.38 ± 2.93	13.61 ± 3.38	11.50 ± 2.24	Pass
SG-6284, 6285	8/8/2007	Gr. Beta	33.46 ± 2.84	32.87 ± 2.93	33.17 ± 2.04	Pass
SG-6284, 6285	8/8/2007	K-40	16.15 ± 0.24	16.23 ± 0.25	16.19 ± 0.17	Pass
WW-5310, 5311	8/9/2007	H-3	644.00 ± 106.00	831.00 ± 113.00	737.50 ± 77.47	Pass
SW-5393, 5394	8/14/2007	Gr. Beta	2.32 ± 1.31	1.71 ± 1.27	2.02 ± 0.92	Pass
SW-5393, 5394	8/14/2007	H-3	190.06 ± 86.80	69.05 ± 80.88	129.55 ± 59.32	Pass
W-5468, 5469	8/15/2007	H-3	262.58 ± 108.43	346.53 ± 111.42	304.55 ± 77.74	Pass

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

Lab Code	Date	Analysis	Concentration (pCi/L)[a] First Result	Second Result	Averaged Result	Acceptance
VE-5553, 5554	8/22/2007	K-40	1.89 ± 0.33	1.89 ± 0.22	1.89 ± 0.20	Pass
WW-5643, 5644	8/22/2007	H-3	259.00 ± 110.00	266.00 ± 110.00	262.50 ± 77.78	Pass
SWU-5799, 5800	8/28/2007	Gr. Beta	2.64 ± 1.18	3.62 ± 1.06	3.13 ± 0.79	Pass
DW-70752, 70753	8/31/2007	Gr. Alpha	14.41 ± 1.48	12.90 ± 1.50	13.66 ± 1.05	Pass
VE-5917, 5918	9/4/2007	Be-7	0.94 ± 0.17	0.83 ± 0.20	0.89 ± 0.13	Pass
VE-5917, 5918	9/4/2007	K-40	3.73 ± 0.37	3.58 ± 0.36	3.66 ± 0.26	Pass
VE-5917, 5918	9/4/2007	Gr. Beta	2.71 ± 0.10	2.69 ± 0.10	2.70 ± 0.07	Pass
MI-6009, 6010	9/11/2007	K-40	1348.90 ± 113.40	1388.10 ± 116.40	1368.50 ± 81.25	Pass
MI-6030, 6031	9/12/2007	K-40	1242.70 ± 118.00	1475.60 ± 119.60	1359.15 ± 84.01	Pass
MI-6030, 6031	9/12/2007	Sr-90	1.00 ± 0.38	0.90 ± 0.34	0.95 ± 0.26	Pass
DW-70718, 70719	9/12/2007	Gr. Alpha	23.04 ± 3.71	23.22 ± 3.61	23.13 ± 2.59	Pass
DW-70718, 70719	9/12/2007	Gr. Beta	16.13 ± 1.59	17.36 ± 1.69	16.75 ± 1.16	Pass
SO-6156, 6157	9/14/2007	H-3	181.99 ± 90.67	232.19 ± 92.95	207.09 ± 64.92	Pass
SO-6484, 6485	9/17/2007	Cs-137	0.01 ± 0.00	0.01 ± 0.00	0.01 ± 0.00	Pass
SO-6484, 6485	9/17/2007	Gr. Beta	24.20 ± 2.60	23.30 ± 2.30	23.75 ± 1.74	Pass
SO-6484, 6485	9/17/2007	K-40	11.52 ± 1.16	10.89 ± 1.10	11.20 ± 0.80	Pass
WW-6469, 6470	9/21/2007	Gr. Beta	27.19 ± 2.51	24.23 ± 2.29	25.71 ± 1.70	Pass
E-6647, 6648	10/1/2007	Gr. Beta	1.82 ± 0.10	1.93 ± 0.11	1.88 ± 0.07	Pass
E-6647, 6648	10/1/2007	K-40	1.48 ± 0.24	1.31 ± 0.23	1.40 ± 0.17	Pass
WW-6656, 6657	10/1/2007	Gr. Beta	2.80 ± 0.97	1.95 ± 0.87	2.38 ± 0.65	Pass
TD-7080, 7081	10/2/2007	H-3	332.00 ± 229.00	383.00 ± 191.00	357.50 ± 149.10	Pass
SG-6891, 6892	10/3/2007	Gr. Alpha	12.93 ± 2.12	13.52 ± 2.07	13.23 ± 1.48	Pass
SG-6891, 6892	10/3/2007	Gr. Beta	18.08 ± 1.41	18.27 ± 1.36	18.18 ± 0.98	Pass
AP-7191, 7192	10/3/2007	Be-7	0.09 ± 0.01	0.09 ± 0.01	0.09 ± 0.01	Pass
WW-6786, 6787	10/8/2007	H-3	13333 ± 322	13532 ± 324	13433 ± 228	Pass
WW-6786, 6787	10/8/2007	H-3	13188 ± 322	13556 ± 326	13372 ± 229	Pass
VE-6828, 6829	10/8/2007	Gr. Alpha	0.06 ± 0.04	0.06 ± 0.05	0.06 ± 0.03	Pass
VE-6828, 6829	10/8/2007	Gr. Beta	5.55 ± 0.21	5.20 ± 0.22	5.38 ± 0.10	Pass
VE-6828, 6829	10/8/2007	K-40	5.45 ± 0.43	5.20 ± 0.49	5.32 ± 0.33	Pass
SS-6870, 6871	10/9/2007	Gr. Beta	18.10 ± 2.08	21.71 ± 2.19	19.90 ± 1.51	Pass
SS-6870, 6871	10/9/2007	K-40	10.19 ± 0.66	9.72 ± 0.68	9.95 ± 0.47	Pass
LW-7507, 7508	10/11/2007	Gr. Beta	1.40 ± 0.56	1.44 ± 0.54	1.42 ± 0.39	Pass
MI-6933, 6934	10/16/2007	K-40	1386.60 ± 104.70	1331.20 ± 106.70	1358.90 ± 74.74	Pass
MI-6933, 6934	10/16/2007	Sr-90	1.73 ± 0.52	2.17 ± 0.57	1.95 ± 0.39	Pass
MI-7059, 7060	10/17/2007	K-40	1424.80 ± 106.60	1448.60 ± 115.30	1436.70 ± 78.51	Pass
F-7213, 7214	10/24/2007	H-3	6.83 ± 0.22	7.24 ± 0.22	7.03 ± 0.16	Pass
F-7213, 7214	10/24/2007	K-40	3.13 ± 0.51	3.16 ± 0.48	3.15 ± 0.35	Pass
WW-7408, 7409	10/24/2007	H-3	340.71 ± 90.45	346.22 ± 90.67	343.46 ± 64.03	Pass
DW-70856, 70857	10/24/2007	Gr. Alpha	11.03 ± 1.66	10.71 ± 1.34	10.87 ± 1.07	Pass
SO-7508, 7509	10/26/2007	Cs-137	0.30 ± 0.04	0.29 ± 0.05	0.29 ± 0.03	Pass
SO-7508, 7509	10/26/2007	Gr. Beta	34.43 ± 2.72	37.25 ± 3.07	35.84 ± 2.05	Pass
SO-7508, 7509	10/26/2007	K-40	16.84 ± 0.84	17.43 ± 1.05	17.14 ± 0.67	Pass

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

Lab Code	Date	Analysis	Concentration (pCi/L)[a] First Result	Second Result	Averaged Result	Acceptance
SS-7529, 7530	10/29/2007	Cs-137	0.12 ± 0.03	0.12 ± 0.02	0.12 ± 0.02	Pass
SS-7529, 7530	10/29/2007	K-40	11.85 ± 0.68	11.75 ± 0.58	11.80 ± 0.45	Pass
SW-7589, 7590	10/30/2007	Gr. Beta	1.75 ± 0.29	1.24 ± 0.26	1.50 ± 0.19	Pass
SWU-7733, 7734	10/30/2007	Gr. Beta	1.66 ± 1.01	2.43 ± 1.13	2.05 ± 0.76	Pass
MI-7618, 7619	10/31/2007	K-40	1376.80 ± 114.30	1426.70 ± 128.80	1401.75 ± 86.10	Pass
VE-7666, 7667	11/5/2007	Gr. Alpha	0.07 ± 0.04	0.16 ± 0.05	0.11 ± 0.03	Pass
VE-7666, 7667	11/5/2007	Gr. Beta	6.03 ± 0.15	6.13 ± 0.15	6.08 ± 0.10	Pass
VE-7666, 7667	11/5/2007	K-40	5.82 ± 0.36	5.74 ± 0.36	5.78 ± 0.25	Pass
DW-7853, 7854	11/9/2007	I-131	1.61 ± 0.40	1.08 ± 0.39	1.35 ± 0.28	Pass
MI-7874, 7875	11/14/2007	K-40	1407.70 ± 101.30	1362.60 ± 114.50	1385.15 ± 76.44	Pass
WW-8142, 8143	11/28/2007	Gr. Beta	9.51 ± 2.21	7.86 ± 2.01	8.68 ± 1.49	Pass
DW-8094, 8095	11/29/2007	Gr. Beta	1.60 ± 0.58	1.25 ± 0.54	1.43 ± 0.40	Pass
F-8328, 8329	12/11/2007	Gr. Beta	3.97 ± 0.08	4.00 ± 0.08	3.99 ± 0.05	Pass
WW-8378, 8379	12/11/2007	H-3	296.00 ± 103.00	407.00 ± 107.00	351.50 ± 74.26	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).

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

Lab Code[c]	Date	Analysis	Concentration[b] Laboratory result	Known Activity	Control Limits[d]	Acceptance
STW-1110	01/01/07	Gr. Alpha	0.45 ± 0.08	0.33	0.00 - 0.65	Pass
STW-1110	01/01/07	Gr. Beta	0.90 ± 0.14	0.85	0.43 - 1.28	Pass
STW-1111[e]	01/01/07	Am-241	2.80 ± 0.21	1.71	1.20 - 2.22	Fail
STW-1111	01/01/07	Co-57	151.60 ± 10.00	143.70	100.60 - 186.80	Pass
STW-1111	01/01/07	Cs-134	79.20 ± 8.00	83.50	58.50 - 108.60	Pass
STW-1111	01/01/07	Cs-137	168.70 ± 12.10	163.00	114.10 - 211.90	Pass
STW-1111	01/01/07	Fe-55	130.30 ± 19.90	129.30	90.50 - 168.10	Pass
STW-1111	01/01/07	H-3	262.20 ± 9.10	283.00	198.10 - 367.90	Pass
STW-1111	01/01/07	Mn-54	130.60 ± 11.50	123.80	86.70 - 160.90	Pass
STW-1111	01/01/07	Ni-63	127.80 ± 3.60	130.40	91.30 - 169.50	Pass
STW-1111	01/01/07	Ni-63	127.80 ± 3.60	130.40	91.30 - 169.50	Pass
STW-1111	01/01/07	Pu-238	2.03 ± 0.17	2.25	1.58 - 2.93	Pass
STW-1111	01/01/07	Pu-239/40	2.27 ± 0.17	2.22	1.55 - 2.89	Pass
STW-1111	01/01/07	Sr-90	9.60 ± 1.40	8.87	6.21 - 11.53	Pass
STW-1111	01/01/07	Tc-99	8.80 ± 1.50	88.00	7.40 - 13.70	Pass
STW-1111	01/01/07	U-233/4	2.44 ± 0.21	2.49	1.74 - 3.24	Pass
STW-1111	01/01/07	U-238	2.44 ± 0.21	2.48	1.74 - 3.22	Pass
STW-1111	01/01/07	Zn-65	123.70 ± 17.00	114.80	80.40 - 149.20	Pass
STSO-1112[f]	01/01/07	Am-241	46.40 ± 9.00	34.80	24.40 - 45.20	Fail
STSO-1112	01/01/07	Co-57	501.20 ± 2.90	471.20	329.80 - 612.60	Pass
STSO-1112	01/01/07	Co-60	285.90 ± 2.10	274.70	192.30 - 357.10	Pass
STSO-1112	01/01/07	Cs-134	325.90 ± 7.40	327.40	229.20 - 425.60	Pass
STSO-1112	01/01/07	Cs-137	855.70 ± 4.60	799.70	559.80 - 1039.60	Pass
STSO-1112	01/01/07	Mn-54	750.90 ± 4.70	685.20	479.60 - 890.80	Pass
STAP-1113	01/01/07	Gr. Alpha	0.27 ± 0.04	0.60	0.00 - 1.20	Pass
STAP-1113	01/01/07	Gr. Beta	0.57 ± 0.05	0.44	0.22 - 0.66	Pass
STAP-1114	01/01/07	Am-241	0.10 ± 0.03	0.10	0.07 - 0.13	Pass
STAP-1114	01/01/07	Co-57	3.51 ± 0.07	2.89	2.02 - 3.75	Pass
STAP-1114	01/01/07	Co-60	2.98 ± 0.10	2.91	2.03 - 3.78	Pass
STAP-1114	01/01/07	Cs-134	4.02 ± 0.16	4.20	2.94 - 5.45	Pass
STAP-1114	01/01/07	Cs-137	2.75 ± 0.12	2.57	1.80 - 3.34	Pass
STAP-1114	01/01/07	Mn-54	3.94 ± 0.12	3.52	2.46 - 4.57	Pass
STAP-1114	01/01/07	Pu-238	0.07 ± 0.01	0.07	0.05 - 0.09	Pass
STAP-1114	01/01/07	Pu-239/40	0.08 ± 0.01	0.08	0.06 - 0.11	Pass
STAP-1114	01/01/07	Sr-90	0.58 ± 0.18	0.61	0.43 - 0.79	Pass
STAP-1114	01/01/07	U-233/4	0.09 ± 0.01	0.10	0.07 - 0.13	Pass
STAP-1114	01/01/07	U-238	0.09 ± 0.01	0.10	0.07 - 0.13	Pass
STAP-1114	01/01/07	Zn-65	2.70 ± 0.10	2.68	1.88 - 3.49	Pass

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

		Concentration [b]				
Lab Code[c]	Date	Analysis	Laboratory result	Known Activity	Control Limits [d]	Acceptance
STVE-1115	01/01/07	Co-57	8.90 ± 0.20	8.19	5.73 - 10.64	Pass
STVE-1115	01/01/07	Co-60	6.50 ± 0.20	5.82	4.08 - 7.57	Pass
STVE-1115	01/01/07	Cs-134	6.90 ± 0.30	6.21	4.35 - 8.07	Pass
STVE-1115	01/01/07	Cs-137	8.20 ± 0.30	6.99	4.90 - 9.09	Pass
STVE-1115	01/01/07	Mn-54	10.10 ± 0.30	8.46	5.91 - 10.98	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] Result of reanalysis, 2.08 ± 0.13 pCi/L.

[f] The test samples were recounted on lower background detectors. Result of the recounts: 41.4 ± 6.3 Bq/kg.

TABLE A-7. Interlaboratory Comparison Crosscheck program, Environmental Resource Associates (ERA)[a].

Lab Code [b]	Date	Analysis	Concentration (pCi/L) Laboratory Result [c]	ERA Result [d]	Control Limits	Acceptance
STAP-1116	03/19/07	Gr. Alpha	34.64 ± 2.56	25.8	12.4 - 39	Pass
STAP-1116	03/19/07	Gr. Beta	93.41 ± 3.20	79.5	48.8 - 116	Pass
STAP-1117	03/19/07	Am-241	56.04 ± 3.90	57.5	33.1 - 80	Pass
STAP-1117	03/19/07	Co-60	1610.00 ± 8.40	1300.0	1010.0 - 1620	Pass
STAP-1117	03/19/07	Cs-134	1340.40 ± 48.84	1120.0	732.0 - 1380	Pass
STAP-1117 [e]	03/19/07	Cs-137	345.30 ± 8.20	255.0	192.0 - 336	Fail
STAP-1117 [f]	03/19/07	Fe-55	< 134.0	0.0		Pass
STAP-1117 [f]	03/19/07	Mn-54	< 5.0	0.0		Pass
STAP-1117	03/19/07	Pu-238	43.32 ± 2.28	37.4	25.7 - 49	Pass
STAP-1117	03/19/07	Pu-239/40	35.23 ± 2.24	31.6	22.9 - 41	Pass
STAP-1117	03/19/07	Sr-90	156.10 ± 6.60	156.0	66.6 - 246	Pass
STAP-1117	03/19/07	U-233/4	42.22 ± 1.84	47.8	30.1 - 71	Pass
STAP-1117	03/19/07	U-238	42.00 ± 1.84	47.4	30.2 - 68	Pass
STAP-1117	03/19/07	Uranium	85.79 ± 3.60	97.3	49.5 - 155	Pass
STAP-1117	03/19/07	Zn-65	363.80 ± 11.90	245.0	208.0 - 412	Pass
STSO-1118	03/19/07	Ac-228	3097.77 ± 94.96	2790.0	1790.0 - 3930	Pass
STSO-1118	03/19/07	Am-241	1000.70 ± 156.10	927.0	548.0 - 1200	Pass
STSO-1118	03/19/07	Bi-212	2467.87 ± 114.33	2500.0	658.0 - 3730	Pass
STSO-1118	03/19/07	Co-60	7847.40 ± 86.60	7330.0	5340.0 - 9820	Pass
STSO-1118	03/19/07	Cs-134	7910.60 ± 356.88	7560.0	4850.0 - 9070	Pass
STSO-1118	03/19/07	Cs-137	4635.00 ± 99.10	4300.0	3290.0 - 5580	Pass
STSO-1118	03/19/07	K-40	12201.60 ± 423.20	11100.0	8050.0 - 15000	Pass
STSO-1118 [f]	03/19/07	Mn-54	< 34.0	0.0		Pass
STSO-1118	03/19/07	Pb-212	2046.80 ± 127.20	1730.0	1120.0 - 2430	Pass
STSO-1118	03/19/07	Pb-214	4142.80 ± 110.40	3330.0	1980.0 - 4980	Pass
STSO-1118	03/19/07	Pu-238	1099.20 ± 73.10	857.0	490.0 - 1200	Pass
STSO-1118	03/19/07	Pu-239/40	1586.10 ± 82.00	1360.0	928.0 - 1810	Pass
STSO-1118	03/19/07	Sr-90	6163.30 ± 791.60	7500.0	2610.0 - 12400	Pass
STSO-1118	03/19/07	Th-234	4329.40 ± 569.10	3590.0	2190.0 - 4560	Pass
STSO-1118	03/19/07	U-233/4	3236.70 ± 106.00	3620.0	2280.0 - 4520	Pass
STSO-1118	03/19/07	U-238	3425.20 ± 134.00	3590.0	2190.0 - 4560	Pass
STSO-1118	03/19/07	Uranium	6787.80 ± 240.00	7380.0	4210.0 - 9930	Pass
STSO-1118	03/19/07	Uranium	6787.80 ± 240.00	7380.0	4210.0 - 9930	Pass
STSO-1118 [f]	03/19/07	Zn-65	0.00 ± 0.00	0.0	0.0 - 0	Pass

TABLE A-7. Interlaboratory Comparison Crosscheck program, Environmental Resource Associates (ERA)[a].

Lab Code [b]	Date	Analysis	Concentration (pCi/L) Laboratory Result [c]	ERA Result [d]	Control Limits	Acceptance
STVE-1119	03/19/07	Am-241	3249.60 ± 150.30	3550.0	2020.0 - 4890	Pass
STVE-1119	03/19/07	Cm-244	1860.70 ± 91.50	1840.0	905.0 - 2870	Pass
STVE-1119	03/19/07	Co-60	2827.90 ± 62.40	2600.0	1760.0 - 3720	Pass
STVE-1119	03/19/07	Cs-134	654.80 ± 48.40	579.0	308.0 - 822	Pass
STVE-1119	03/19/07	Cs-137	3307.30 ± 58.80	2920.0	2150.0 - 4060	Pass
STVE-1119	03/19/07	K-40	40814.20 ± 618.80	37900.0	27200.0 - 53600	Pass
STVE-1119 [f]	03/19/07	Mn-54	< 27.6	0.0		Pass
STVE-1119	03/19/07	Pu-238	2762.00 ± 251.10	2430.0	1250.0 - 3600	Pass
STVE-1119	03/19/07	Pu-239/40	2156.60 ± 83.40	1900.0	1180.0 - 2600	Pass
STVE-1119	03/19/07	Sr-90	8999.70 ± 580.90	8890.0	4900.0 - 11800	Pass
STVE-1119	03/19/07	U-233/4	2821.90 ± 73.50	2940.0	1930.0 - 3920	Pass
STVE-1119	03/19/07	U-238	2896.10 ± 50.70	2910.0	2090.0 - 3610	Pass
STVE-1119	03/19/07	Uranium	5718.00 ± 124.15	5980.0	4110.0 - 7770	Pass
STVE-1119	03/19/07	Zn-65	474.30 ± 45.70	366.0	267.0 - 500	Pass
STW-1120	03/19/07	Am-241	133.50 ± 10.60	179.0	123.0 - 243	Pass
STW-1120	03/19/07	Co-60	541.40 ± 9.00	536.0	467.0 - 631	Pass
STW-1120	03/19/07	Cs-134	1623.80 ± 66.10	1750.0	1290.0 - 2020	Pass
STW-1120	03/19/07	Cs-137	1839.10 ± 17.90	1850.0	1570.0 - 2220	Pass
STW-1120	03/19/07	Fe-55	829.50 ± 226.80	671.0	392.0 - 896	Pass
STW-1120 [f]	03/19/07	Mn-54	< 8.1	0.0		Pass
STW-1120	03/19/07	Pu-238	123.30 ± 4.30	116.0	87.6 - 144	Pass
STW-1120	03/19/07	Pu-239/40	95.10 ± 3.80	90.9	70.3 - 113	Pass
STW-1120	03/19/07	Sr-90	949.40 ± 16.70	989.0	630.0 - 1320	Pass
STW-1120	03/19/07	U-233/4	164.20 ± 6.58	192.0	145.0 - 247	Pass
STW-1120	03/19/07	U-238	169.20 ± 8.22	190.0	145.0 - 236	Pass
STW-1120	03/19/07	Uranium	339.60 ± 10.66	391.0	282.0 - 521	Pass
STW-1120	03/19/07	Zn-65	2009.00 ± 36.40	1910.0	1600.0 - 2410	Pass

[a] Results obtained by Environmental, Inc., Midwest Laboratory as a participant in the crosscheck program for proficiency testing administered by Environmental Resources Associates, serving as a replacement for studies conducted previously by the Environmental Measurements Laboratory Quality Assessment Program (EML).

[b] Laboratory codes as follows: STW (water), STAP (air filter), STSO (soil), STVE (vegetation).

[c] Unless otherwise indicated, the laboratory result is given as the mean ± standard deviation for three determinations.

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

[e] A high bias (~ 20%) was observed in gamma results for air filters. A composite filter geometry was used in the calculations vs. a single filter geometry. Result of recalculation. Cs-137, 305.8 ± 6.0 pCi/filter.

[f] Included in the testing series as a "false positive". No activity expected.

Appendix B

Summary Tables in the format of NRC Radiological Assessment Branch Technical Position
Revision 1, November 1979

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

Name of Facility: Wolf Creek Generating Station Docket No.: 50-482

Location of Facility: Coffey County, Kansas Reporting Period: Annual 2007

Medium of Pathway Sampled (Unit of Measurement)	Analysis and Total Number of Analysis Performed	ODCM Lower Limit of Detection (LLD)	All Indicator Locations ** Mean (f) ** Range	Indicator Location with Highest Annual Mean Name Distance and Direction	 ** Mean (f) ** Range	Control Locations ** Mean (f) ** Range	Number of Nonroutine Reported Measurements **
Air Particulate (pCi/m^3)	Gross Beta (318)	0.01	0.030 (265/265) (0.010-0.062)	49 0.8 miles NNE	0.030(53/53) (0.016-0.062)	Station 48 0.029 (52/53) (0.015-0.053)	0
	Gamma (24) Be-7	-	0.091 (20/20) (0.060-0.114)	37 2.0 miles NNW	0.099 (4/4) (0.089-0.114)	0.087 (4/4) (0.067-0.106)	0
	I-131 (318)	0.07	- (0/265)	N/A	N/A	- (0/53)	0
External Radiation (mR/day)	TLD (344)	-	0.212 (328/328) (0.139-0.278)	38 1.2 miles NW	0.236 (8/8) (0.213-0.260)	Stations 39 & 48 0.210 (16/16) (0.192-0.241)	0
Surface Water (pCi/l)	Gamma (24)		-(0/12)	N/A	N/A	JRR -(0/12)	0
	Tritium (24)	3000	10442 (12/12) (8262-12910)	SP 3.2 miles SSE	10442 (12/12) (8262-12910)	-(0/12)	0
Ground Water (pCi/l)	I-131 (31)	1	-(0/27)	N/A	N/A	B-12 -(0/4)	0
	Gamma (31)		-(0/27)	N/A	N/A	-(0/4)	0
	Tritium (31)	2000	-(0/27)	N/A	N/A	-(0/4)	0

** Mean and range based upon detectable measurements only. Fraction of detectable measurements at specified locations is indicated in parentheses (f)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

Name of Facility: Wolf Creek Generating Station Docket No.: 50-482

Location of Facility: Coffey County, Kansas Reporting Period: Annual 2007

Medium of Pathway Sampled (Unit of Measurement)	Analysis and Total Number of Analysis Performed	*ODCM* Lower Limit of Detection (LLD)	*All Indicator* Locations ** Mean (f) ** Range	*Indicator Location with* Highest Annual Mean Name Distance and Direction	** Mean (f) ** Range	*Control Locations* ** Mean (f) ** Range	Number of Nonroutine Reported Measurements **
Drinking Water (pCi/l)	I-131 (24)	1	-(0/12)	N/A	N/A	BW-15 -(0/12)	0
	Gross Beta (24)	4	3.2 (12/12) (2.3-4.4)	IO-DW 26.1 miles SSE	3.2 (12/12) (2.3-4.4)	3.0 (12/12) (2.4-4.3)	0
	Gamma (24)		-(0/12)	N/A	N/A	-(0/12)	0
	Tritium (8)	2000	-(0/4)	N/A	N/A	-(0/4)	0
Shoreline Sediment (pCi/kg dry)	Gamma (7)					JRR	
	K-40	-	11545.4 (5/5) (10851-12250)	SC 0.8 miles NNW	12250 (1/1)	11886 (2/2) (11685-12087)	0
	Cs-137	180	-(0/5)	N/A	N/A	108.2 (1/2)	0
Fish (pCi/kg wet)	Gamma (17)					JRR	
	K-40	-	2893.4 (11/11) (2302.9-3428.8)	CCL 0.6 miles	2893.4 (11/11) (2302.9-3428.8)	3174.4 (6/6) (2889.0-3681.5)	0
	Tritium (17)	-	6475 (11/11) (5505-7266)	CCL 0.6 miles	6475 (11/11) (5505-7266)	-(0/6)	0

** Mean and range based upon detectable measurements only. Fraction of detectable measurements at specified locations is indicated in parentheses (f)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

Name of Facility: Wolf Creek Generating Station Docket No.: 50-482

Location of Facility: Coffey County, Kansas Reporting Period: Annual 2007

Medium of Pathway Sampled (Unit of Measurement)	Analysis and Total Number of Analysis Performed	ODCM Lower Limit of Detection (LLD)	All Indicator Locations ** Mean (f) ** Range	Indicator Location with Highest Annual Mean Name Distance and Direction	** Mean (f) ** Range	Control Locations ** Mean (f) ** Range	Number of Nonroutine Reported Measurements **
Food and Garden (pCi/kg wet)	Gamma (22)					D-2	
	Be-7	-	1049.5 (8/13) (282.7-2727.4)	Q-6 2.4 miles NW	1463.9 (3/4) (282.7-2727.4)	742.4 (6/9) (472.3-973.8)	0
	K-40	-	4281.2 (13/13) (2495.7-8289.2)	Q-6 2.4 miles NW	5234.0 (4/4) (2495.7-8289.2)	5744.4 (9/9) (3900.0-8653.1)	0
						NR-U1	
Crops (pCi/kg wet)	Gamma (5)						
	K-40	-	6454.9 (3/3) (1378.5-14596)	NR-D2 11.5 miles S	8993.2 (2/2) (3390.3-14596)	9399.3 (2/2) (2854.6-15944)	0
Bottom Sediment (pCi/kg dry)	Gamma (6)					JRR	
	K-40	-	10948.1 (4/4) (7502.3-13569)	DC 0.9 miles WNW	13185 (2/2) (12801-13569)	15196 (2/2) (14889-15503)	0
	Co-60	-	98.3 (2/4) (88.7-107.9)	DC 0.9 miles WNW	98.3 (2/2) (88.7-107.9)	- (0/2)	0
	Cs-137	-	173.7 (2/4) (167.7-179.8)	DC 0.9 miles WNW	173.7 (2/2) (167.7-179.8)	125.4 (2/2) (121.5-129.3)	0

** Mean and range based upon detectable measurements only. Fraction of detectable measurements at specified locations is indicated in parentheses (f)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM SUMMARY

Name of Facility: Wolf Creek Generating Station Docket No.: 50-482

Location of Facility: Coffey County, Kansas Reporting Period: Annual 2007

Medium of Pathway Sampled (Unit of Measurement)	Analysis and Total Number of Analysis Performed	ODCM Lower Limit of Detection (LLD)	*All Indicator* Locations ** Mean (f) ** Range	*Indicator Location with* Highest Annual Mean Name Distance and Direction	** Mean (f) ** Range	Control Locations ** Mean (f) ** Range	Number of Nonroutine Reported Measurements **
Aquatic Vegetation (pCi/kg wet)	Gamma (2)					No Control	
	Be-7	-	724.1 (2/2) (285.4-1162.7)	EEA 3.0 miles NNW	1162.7 (1/1)		0
	K-40	-	2944.4 (2/2) (2504.1-3384.6)	EEA 3.0 miles NNW	3384.6 (1/1)		0
Terrestrial Vegetation (pCi/kg wet)	Gamma (2)					No Control	
	Be-7	-	573.5 (2/2) (407.5-739.5)	EEA 3.0 miles NNW	739.5 (1/1)		0
	K-40		5797.1 (2/2) (4592.7-7001.4)	EEA 3.0 miles NNW	7001.4 (1/1)		0
Soil (pCi/kg dry)	Gamma (2)					No Control	
	K-40	-	10353.2 (2/2) (9090.3-11616)	MUDS 1.5 miles WNW	11616 (1/1)		0
	Cs-137	-	386.3 (2/2) (326.4-446.2)	EEA 3.0 miles NNW	446.2 (1/1)		0

** Mean and range based upon detectable measurements only. Fraction of detectable measurements at specified locations is indicated in parentheses (f)

Air Particulate and Charcoal Filters

Location: 002

Collection Start Date	Collection End Date	Volume m^3	Gross Beta Concentration (pCi/m^3)	I-131 Concentration (pCi/m^3)	Duplicate Analysis
27-DEC-06	04-JAN-07	353	0.022+/- 0.003	< 0.016	
04-JAN-07	10-JAN-07	271	0.019+/- 0.004	< 0.012	
10-JAN-07	17-JAN-07	318	0.037+/- 0.004	< 0.010	
17-JAN-07	24-JAN-07	310	0.033+/- 0.004	< 0.014	
24-JAN-07	31-JAN-07	318	0.028+/- 0.004	< 0.011	
31-JAN-07	07-FEB-07	319	0.028+/- 0.004	< 0.013	
07-FEB-07	14-FEB-07	320	0.028+/- 0.004	< 0.016	
14-FEB-07	21-FEB-07	310	0.030+/- 0.004	< 0.010	
21-FEB-07	28-FEB-07	299	0.020+/- 0.003	< 0.016	
21-FEB-07	28-FEB-07	299	0.018+/- 0.003		Duplicate
28-FEB-07	07-MAR-07	325	0.027+/- 0.004	< 0.014	
07-MAR-07	14-MAR-07	288	0.034+/- 0.004	< 0.011	
14-MAR-07	21-MAR-07	310	0.026+/- 0.004	< 0.011	
21-MAR-07	28-MAR-07	311	0.019+/- 0.003	< 0.015	
28-MAR-07	04-APR-07	316	0.019+/- 0.003	< 0.018	
04-APR-07	11-APR-07	347	0.025+/- 0.003	< 0.009	
11-APR-07	18-APR-07	309	0.021+/- 0.004	< 0.010	
18-APR-07	25-APR-07	303	0.027+/- 0.004	< 0.008	
25-APR-07	03-MAY-07	350	0.013+/- 0.003	< 0.018	
03-MAY-07	09-MAY-07	264	0.018+/- 0.004	< 0.016	
09-MAY-07	17-MAY-07	339	0.028+/- 0.004	< 0.006	
17-MAY-07	23-MAY-07	255	0.037+/- 0.005	< 0.016	
23-MAY-07	31-MAY-07	342	0.019+/- 0.003	< 0.008	
31-MAY-07	06-JUN-07	255	0.017+/- 0.004	< 0.012	
06-JUN-07	13-JUN-07	299	0.023+/- 0.004	< 0.016	
13-JUN-07	20-JUN-07	300	0.027+/- 0.004	< 0.018	
20-JUN-07	27-JUN-07	300	0.020+/- 0.004	< 0.018	
27-JUN-07	03-JUL-07	258	0.010+/- 0.003	< 0.032	
03-JUL-07	11-JUL-07	327	0.027+/- 0.004	< 0.015	
11-JUL-07	18-JUL-07	281	0.034+/- 0.004	< 0.014	
18-JUL-07	25-JUL-07	300	0.025+/- 0.004	< 0.017	
25-JUL-07	01-AUG-07	293	0.035+/- 0.004	< 0.011	
01-AUG-07	07-AUG-07	251	0.046+/- 0.005	< 0.021	
07-AUG-07	15-AUG-07	351	0.041+/- 0.004	< 0.012	
15-AUG-07	22-AUG-07	296	0.037+/- 0.004	< 0.013	
22-AUG-07	29-AUG-07	298	0.024+/- 0.003	< 0.014	
29-AUG-07	06-SEP-07	347	0.037+/- 0.004	< 0.019	
06-SEP-07	12-SEP-07	256	0.029+/- 0.004	< 0.021	
12-SEP-07	19-SEP-07	299	0.032+/- 0.004	< 0.015	
19-SEP-07	26-SEP-07	305	0.047+/- 0.004	< 0.013	

Air Particulate and Charcoal Filters

Location: 002

Collection Start Date	Collection End Date	Volume m^3	Gross Beta Concentration (pCi/m^3)	I-131 Concentration (pCi/m^3)	Duplicate Analysis
26-SEP-07	03-OCT-07	307	0.038+/- 0.004	< 0.016	
03-OCT-07	10-OCT-07	308	0.021+/- 0.004	< 0.018	
10-OCT-07	19-OCT-07	375	0.024+/- 0.003	< 0.015	
19-OCT-07	24-OCT-07	224	0.027+/- 0.004	< 0.014	
24-OCT-07	31-OCT-07	295	0.025+/- 0.004	< 0.013	
24-OCT-07	31-OCT-07	295	0.030+/- 0.004		Duplicate
31-OCT-07	07-NOV-07	299	0.031+/- 0.004	< 0.011	
31-OCT-07	07-NOV-07	299	0.026+/- 0.004		Duplicate
07-NOV-07	14-NOV-07	292	0.045+/- 0.005	< 0.012	
14-NOV-07	20-NOV-07	256	0.033+/- 0.005	< 0.012	
20-NOV-07	28-NOV-07	366	0.030+/- 0.003	< 0.009	
28-NOV-07	05-DEC-07	301	0.038+/- 0.004	< 0.012	
05-DEC-07	12-DEC-07	304	0.039+/- 0.004	< 0.018	
12-DEC-07	20-DEC-07	343	0.055+/- 0.005	< 0.014	
20-DEC-07	27-DEC-07	313	0.048+/- 0.005	< 0.020	
27-DEC-07	03-JAN-08	292	0.039+/- 0.004	< 0.020	

Air Particulate and Charcoal Filters

Location: 018

Collection Start Date	Collection End Date	Volume m^3	Gross Beta Concentration (pCi/m^3)	I-131 Concentration (pCi/m^3)	Duplicate Analysis
27-DEC-06	04-JAN-07	338	0.023+/- 0.003	< 0.017	
04-JAN-07	10-JAN-07	258	0.017+/- 0.004	< 0.012	
10-JAN-07	17-JAN-07	308	0.031+/- 0.004	< 0.011	
17-JAN-07	24-JAN-07	293	0.034+/- 0.004	< 0.015	
24-JAN-07	31-JAN-07	307	0.024+/- 0.004	< 0.011	
31-JAN-07	07-FEB-07	296	0.031+/- 0.004	< 0.014	
07-FEB-07	14-FEB-07	295	0.036+/- 0.004	< 0.017	
14-FEB-07	21-FEB-07	298	0.027+/- 0.004	< 0.010	
21-FEB-07	28-FEB-07	299	0.017+/- 0.003	< 0.016	
28-FEB-07	07-MAR-07	314	0.025+/- 0.004	< 0.015	
07-MAR-07	14-MAR-07	303	0.035+/- 0.004	< 0.011	
07-MAR-07	14-MAR-07	303	0.034+/- 0.004		Duplicate
14-MAR-07	21-MAR-07	307	0.026+/- 0.004	< 0.012	
21-MAR-07	28-MAR-07	308	0.018+/- 0.003	< 0.015	
28-MAR-07	04-APR-07	294	0.019+/- 0.004	< 0.019	
04-APR-07	11-APR-07	299	0.024+/- 0.004	< 0.011	
11-APR-07	18-APR-07	309	0.020+/- 0.004	< 0.010	
18-APR-07	25-APR-07	299	0.023+/- 0.004	< 0.008	
25-APR-07	03-MAY-07	367	0.016+/- 0.003	< 0.017	
03-MAY-07	09-MAY-07	265	0.017+/- 0.004	< 0.016	
09-MAY-07	17-MAY-07	336	0.028+/- 0.004	< 0.006	
17-MAY-07	23-MAY-07	251	0.026+/- 0.004	< 0.016	
23-MAY-07	31-MAY-07	349	0.018+/- 0.003	< 0.008	
31-MAY-07	06-JUN-07	257	0.022+/- 0.004	< 0.012	
06-JUN-07	13-JUN-07	301	0.021+/- 0.004	< 0.016	
13-JUN-07	20-JUN-07	313	0.027+/- 0.004	< 0.018	
20-JUN-07	27-JUN-07	301	0.021+/- 0.004	< 0.018	
27-JUN-07	03-JUL-07	269	0.013+/- 0.003	< 0.031	
03-JUL-07	11-JUL-07	345	0.028+/- 0.004	< 0.014	
03-JUL-07	11-JUL-07	345	0.028+/- 0.004		Duplicate
11-JUL-07	18-JUL-07	293	0.031+/- 0.004	< 0.013	
18-JUL-07	25-JUL-07	309	0.027+/- 0.004	< 0.016	
25-JUL-07	01-AUG-07	299	0.037+/- 0.004	< 0.011	
01-AUG-07	07-AUG-07	267	0.047+/- 0.005	< 0.020	
07-AUG-07	15-AUG-07	353	0.038+/- 0.004	< 0.012	
15-AUG-07	22-AUG-07	288	0.039+/- 0.004	< 0.013	
22-AUG-07	29-AUG-07	300	0.027+/- 0.004	< 0.014	
29-AUG-07	06-SEP-07	355	0.036+/- 0.004	< 0.018	
06-SEP-07	12-SEP-07	262	0.033+/- 0.004	< 0.021	
12-SEP-07	19-SEP-07	301	0.031+/- 0.004	< 0.015	

Air Particulate and Charcoal Filters

Location: 018

Collection Start Date	Collection End Date	Volume m^3	Gross Beta Concentration (pCi/m^3)	I-131 Concentration (pCi/m^3)	Duplicate Analysis
19-SEP-07	26-SEP-07	305	0.044+/- 0.004	< 0.013	
26-SEP-07	03-OCT-07	303	0.039+/- 0.004	< 0.016	
03-OCT-07	10-OCT-07	303	0.020+/- 0.004	< 0.018	
10-OCT-07	19-OCT-07	385	0.023+/- 0.003	< 0.015	
19-OCT-07	24-OCT-07	223	0.026+/- 0.004	< 0.014	
24-OCT-07	31-OCT-07	297	0.028+/- 0.004	< 0.013	
31-OCT-07	07-NOV-07	303	0.028+/- 0.004	< 0.011	
07-NOV-07	14-NOV-07	294	0.054+/- 0.005	< 0.012	
07-NOV-07	14-NOV-07	294	0.056+/- 0.005		Duplicate
14-NOV-07	20-NOV-07	264	0.028+/- 0.004	< 0.012	
14-NOV-07	20-NOV-07	264	0.029+/- 0.004		Duplicate
20-NOV-07	28-NOV-07	355	0.032+/- 0.004	< 0.009	
20-NOV-07	28-NOV-07	355	0.033+/- 0.004		Duplicate
28-NOV-07	05-DEC-07	301	0.040+/- 0.004	< 0.012	
05-DEC-07	12-DEC-07	303	0.041+/- 0.004	< 0.018	
12-DEC-07	20-DEC-07	356	0.052+/- 0.004	< 0.013	
20-DEC-07	27-DEC-07	305	0.044+/- 0.005	< 0.020	
27-DEC-07	03-JAN-08	302	0.041+/- 0.004	< 0.019	
27-DEC-07	03-JAN-08	302	0.042+/- 0.004		Duplicate

Air Particulate and Charcoal Filters

Location: 032

Collection Start Date	Collection End Date	Volume m^3	Gross Beta Concentration (pCi/m^3)	I-131 Concentration (pCi/m^3)	Duplicate Analysis
27-DEC-06	04-JAN-07	358	0.022+/- 0.003	< 0.016	
04-JAN-07	10-JAN-07	276	0.015+/- 0.004	< 0.012	
10-JAN-07	17-JAN-07	308	0.027+/- 0.004	< 0.011	
17-JAN-07	24-JAN-07	289	0.034+/- 0.004	< 0.015	
24-JAN-07	31-JAN-07	304	0.026+/- 0.004	< 0.012	
31-JAN-07	07-FEB-07	299	0.029+/- 0.004	< 0.014	
07-FEB-07	14-FEB-07	305	0.029+/- 0.004	< 0.016	
14-FEB-07	21-FEB-07	306	0.026+/- 0.004	< 0.010	
21-FEB-07	28-FEB-07	299	0.020+/- 0.003	< 0.016	
28-FEB-07	07-MAR-07	326	0.022+/- 0.003	< 0.014	
07-MAR-07	14-MAR-07	299	0.038+/- 0.004	< 0.011	
14-MAR-07	21-MAR-07	314	0.025+/- 0.004	< 0.011	
21-MAR-07	28-MAR-07	314	0.018+/- 0.003	< 0.015	
28-MAR-07	04-APR-07	311	0.017+/- 0.003	< 0.018	
04-APR-07	11-APR-07	291	0.023+/- 0.004	< 0.011	
11-APR-07	18-APR-07	312	0.022+/- 0.004	< 0.010	
18-APR-07	25-APR-07	300	0.026+/- 0.004	< 0.008	
25-APR-07	03-MAY-07	355	0.015+/- 0.003	< 0.018	
03-MAY-07	09-MAY-07	271	0.017+/- 0.004	< 0.016	
09-MAY-07	17-MAY-07	344	0.031+/- 0.004	< 0.005	
17-MAY-07	23-MAY-07	253	0.030+/- 0.005	< 0.016	
23-MAY-07	31-MAY-07	350	0.019+/- 0.003	< 0.008	
31-MAY-07	06-JUN-07	258	0.020+/- 0.004	< 0.012	
06-JUN-07	13-JUN-07	308	0.023+/- 0.004	< 0.016	
13-JUN-07	20-JUN-07	300	0.028+/- 0.004	< 0.018	
20-JUN-07	27-JUN-07	306	0.020+/- 0.004	< 0.018	
27-JUN-07	03-JUL-07	265	0.013+/- 0.004	< 0.031	
03-JUL-07	11-JUL-07	351	0.031+/- 0.004	< 0.014	
11-JUL-07	18-JUL-07	291	0.030+/- 0.004	< 0.013	
18-JUL-07	25-JUL-07	303	0.026+/- 0.004	< 0.017	
25-JUL-07	01-AUG-07	301	0.034+/- 0.004	< 0.011	
01-AUG-07	07-AUG-07	259	0.046+/- 0.005	< 0.021	
07-AUG-07	15-AUG-07	355	0.041+/- 0.004	< 0.012	
15-AUG-07	22-AUG-07	296	0.035+/- 0.004	< 0.013	
22-AUG-07	29-AUG-07	304	0.026+/- 0.003	< 0.014	
29-AUG-07	06-SEP-07	362	0.037+/- 0.004	< 0.018	
06-SEP-07	12-SEP-07	268	0.028+/- 0.004	< 0.020	
12-SEP-07	19-SEP-07	298	0.027+/- 0.004	< 0.015	
19-SEP-07	26-SEP-07	303	0.042+/- 0.004	< 0.013	
26-SEP-07	03-OCT-07	310	0.035+/- 0.004	< 0.016	

Air Particulate and Charcoal Filters

Location: 032

Collection Start Date	Collection End Date	Volume m^3	Gross Beta Concentration (pCi/m^3)	I-131 Concentration (pCi/m^3)	Duplicate Analysis
03-OCT-07	10-OCT-07	308	0.029+/- 0.004	< 0.018	
10-OCT-07	19-OCT-07	384	0.022+/- 0.003	< 0.015	
19-OCT-07	24-OCT-07	221	0.027+/- 0.004	< 0.014	
24-OCT-07	31-OCT-07	297	0.028+/- 0.004	< 0.013	
31-OCT-07	07-NOV-07	302	0.030+/- 0.004	< 0.011	
07-NOV-07	14-NOV-07	290	0.049+/- 0.005	< 0.012	
14-NOV-07	20-NOV-07	262	0.027+/- 0.004	< 0.012	
20-NOV-07	28-NOV-07	357	0.035+/- 0.004	< 0.009	
28-NOV-07	05-DEC-07	301	0.040+/- 0.004	< 0.012	
05-DEC-07	12-DEC-07	308	0.043+/- 0.004	< 0.018	
12-DEC-07	20-DEC-07	355	0.050+/- 0.004	< 0.013	
20-DEC-07	27-DEC-07	310	0.045+/- 0.004	< 0.020	
27-DEC-07	03-JAN-08	310	0.039+/- 0.004	< 0.019	

Air Particulate and Charcoal Filters

Location: 037

Collection Start Date	Collection End Date	Volume m^3	Gross Beta Concentration (pCi/m^3)	I-131 Concentration (pCi/m^3)	Duplicate Analysis
27-DEC-06	04-JAN-07	342	0.021+/- 0.003	< 0.017	
04-JAN-07	10-JAN-07	262	0.019+/- 0.004	< 0.012	
10-JAN-07	17-JAN-07	308	0.032+/- 0.004	< 0.011	
17-JAN-07	24-JAN-07	295	0.032+/- 0.004	< 0.014	
24-JAN-07	31-JAN-07	309	0.028+/- 0.004	< 0.011	
31-JAN-07	07-FEB-07	289	0.028+/- 0.004	< 0.015	
07-FEB-07	14-FEB-07	284	0.028+/- 0.004	< 0.018	
14-FEB-07	21-FEB-07	301	0.027+/- 0.004	< 0.010	
21-FEB-07	28-FEB-07	303	0.019+/- 0.003	< 0.016	
28-FEB-07	07-MAR-07	318	0.023+/- 0.004	< 0.015	
07-MAR-07	14-MAR-07	289	0.037+/- 0.004	< 0.011	
14-MAR-07	21-MAR-07	304	0.024+/- 0.004	< 0.012	
14-MAR-07	21-MAR-07	304	0.026+/- 0.004		Duplicate
21-MAR-07	28-MAR-07	308	0.020+/- 0.004	< 0.015	
28-MAR-07	04-APR-07	314	0.020+/- 0.004	< 0.018	
04-APR-07	11-APR-07	253	0.029+/- 0.005	< 0.013	
11-APR-07	18-APR-07	311	0.024+/- 0.004	< 0.010	
18-APR-07	25-APR-07	294	0.025+/- 0.004	< 0.008	
25-APR-07	03-MAY-07	351	0.018+/- 0.003	< 0.018	
03-MAY-07	09-MAY-07	270	0.017+/- 0.004	< 0.016	
09-MAY-07	17-MAY-07	342	0.029+/- 0.004	< 0.006	
17-MAY-07	23-MAY-07	258	0.029+/- 0.004	< 0.015	
23-MAY-07	31-MAY-07	344	0.016+/- 0.003	< 0.008	
31-MAY-07	06-JUN-07	259	0.021+/- 0.004	< 0.012	
06-JUN-07	13-JUN-07	309	0.022+/- 0.004	< 0.015	
13-JUN-07	20-JUN-07	313	0.024+/- 0.004	< 0.018	
20-JUN-07	27-JUN-07	311	0.020+/- 0.003	< 0.018	
27-JUN-07	03-JUL-07	267	0.012+/- 0.003	< 0.031	
03-JUL-07	11-JUL-07	351	0.029+/- 0.004	< 0.014	
11-JUL-07	18-JUL-07	298	0.031+/- 0.004	< 0.013	
18-JUL-07	25-JUL-07	308	0.024+/- 0.004	< 0.016	
25-JUL-07	01-AUG-07	308	0.032+/- 0.004	< 0.010	
01-AUG-07	07-AUG-07	266	0.044+/- 0.005	< 0.020	
07-AUG-07	15-AUG-07	360	0.038+/- 0.004	< 0.011	
15-AUG-07	22-AUG-07	300	0.038+/- 0.004	< 0.013	
22-AUG-07	29-AUG-07	298	0.025+/- 0.003	< 0.014	
29-AUG-07	06-SEP-07	353	0.043+/- 0.004	< 0.018	
06-SEP-07	12-SEP-07	261	0.028+/- 0.004	< 0.021	
06-SEP-07	12-SEP-07	261	0.032+/- 0.004		Duplicate
12-SEP-07	19-SEP-07	301	0.035+/- 0.004	< 0.015	

Air Particulate and Charcoal Filters

Location: 037

Collection Start Date	Collection End Date	Volume m^3	Gross Beta Concentration (pCi/m^3)	I-131 Concentration (pCi/m^3)	Duplicate Analysis
19-SEP-07	26-SEP-07	303	0.047+/- 0.004	< 0.013	
19-SEP-07	26-SEP-07	303	0.044+/- 0.004		Duplicate
26-SEP-07	03-OCT-07	306	0.041+/- 0.004	< 0.016	
03-OCT-07	10-OCT-07	311	0.021+/- 0.004	< 0.018	
10-OCT-07	19-OCT-07	384	0.027+/- 0.003	< 0.015	
19-OCT-07	24-OCT-07	222	0.024+/- 0.004	< 0.014	
24-OCT-07	31-OCT-07	294	0.030+/- 0.004	< 0.013	
31-OCT-07	07-NOV-07	302	0.030+/- 0.004	< 0.011	
07-NOV-07	14-NOV-07	298	0.041+/- 0.005	< 0.012	
14-NOV-07	20-NOV-07	267	0.028+/- 0.004	< 0.012	
20-NOV-07	28-NOV-07	376	0.035+/- 0.004	< 0.009	
28-NOV-07	05-DEC-07	304	0.041+/- 0.004	< 0.011	
28-NOV-07	05-DEC-07	304	0.040+/- 0.004		Duplicate
05-DEC-07	12-DEC-07	304	0.043+/- 0.004	< 0.018	
12-DEC-07	20-DEC-07	348	0.057+/- 0.005	< 0.014	
12-DEC-07	20-DEC-07	348	0.058+/- 0.005	< 0.014	Duplicate
20-DEC-07	27-DEC-07	293	0.047+/- 0.005	< 0.021	
27-DEC-07	03-JAN-08	323	0.043+/- 0.004	< 0.018	

Air Particulate and Charcoal Filters

Location: 048

Collection Start Date	Collection End Date	Volume m^3	Gross Beta Concentration (pCi/m^3)	I-131 Concentration (pCi/m^3)	Duplicate Analysis
27-DEC-06	04-JAN-07	338	0.019+/- 0.003	< 0.017	
04-JAN-07	10-JAN-07	260	0.015+/- 0.004	< 0.012	
10-JAN-07	17-JAN-07	308	0.031+/- 0.004	< 0.011	
17-JAN-07	24-JAN-07	295	0.039+/- 0.004	< 0.014	
24-JAN-07	31-JAN-07	304	0.026+/- 0.004	< 0.012	
31-JAN-07	07-FEB-07	298	0.027+/- 0.004	< 0.014	
07-FEB-07	14-FEB-07	310	0.034+/- 0.004	< 0.016	
14-FEB-07	21-FEB-07	311	0.027+/- 0.004	< 0.010	
21-FEB-07	28-FEB-07	298	0.019+/- 0.003	< 0.016	
28-FEB-07	07-MAR-07	12	0.024+/- 0.062	< 0.386	
07-MAR-07	14-MAR-07	68	0.051+/- 0.013	< 0.048	
14-MAR-07	21-MAR-07	295	0.026+/- 0.004	< 0.012	
21-MAR-07	28-MAR-07	304	0.019+/- 0.003	< 0.015	
28-MAR-07	04-APR-07	305	0.021+/- 0.004	< 0.018	
04-APR-07	11-APR-07	298	0.022+/- 0.004	< 0.011	
11-APR-07	18-APR-07	306	0.020+/- 0.004	< 0.010	
18-APR-07	25-APR-07	307	0.024+/- 0.004	< 0.008	
25-APR-07	03-MAY-07	358	0.015+/- 0.003	< 0.018	
03-MAY-07	09-MAY-07	266	0.016+/- 0.004	< 0.016	
03-MAY-07	09-MAY-07	266	0.016+/- 0.004		Duplicate
09-MAY-07	17-MAY-07	330	0.029+/- 0.004	< 0.006	
17-MAY-07	23-MAY-07	263	0.032+/- 0.004	< 0.015	
23-MAY-07	31-MAY-07	354	0.020+/- 0.003	< 0.008	
31-MAY-07	06-JUN-07	268	0.021+/- 0.004	< 0.012	
06-JUN-07	13-JUN-07	301	0.024+/- 0.004	< 0.016	
13-JUN-07	20-JUN-07	300	0.033+/- 0.004	< 0.018	
20-JUN-07	27-JUN-07	298	0.022+/- 0.004	< 0.018	
27-JUN-07	03-JUL-07	266	0.020+/- 0.004	< 0.031	
03-JUL-07	11-JUL-07	343	0.028+/- 0.004	< 0.014	
11-JUL-07	18-JUL-07	122	0.029+/- 0.007	< 0.032	
18-JUL-07	25-JUL-07	293	0.027+/- 0.004	< 0.017	
25-JUL-07	01-AUG-07	300	0.035+/- 0.004	< 0.011	
01-AUG-07	07-AUG-07	54	< 0.021	< 0.100	
07-AUG-07	15-AUG-07	337	0.039+/- 0.004	< 0.012	
15-AUG-07	22-AUG-07	296	0.034+/- 0.004	< 0.013	
22-AUG-07	29-AUG-07	300	0.024+/- 0.003	< 0.014	
29-AUG-07	06-SEP-07	351	0.037+/- 0.004	< 0.018	
06-SEP-07	12-SEP-07	263	0.026+/- 0.004	< 0.021	
12-SEP-07	19-SEP-07	299	0.033+/- 0.004	< 0.015	
19-SEP-07	26-SEP-07	298	0.037+/- 0.004	< 0.014	

Air Particulate and Charcoal Filters

Location: 048

Collection Start Date	Collection End Date	Volume m^3	Gross Beta Concentration (pCi/m^3)	I-131 Concentration (pCi/m^3)	Duplicate Analysis
26-SEP-07	03-OCT-07	301	0.034+/- 0.004	< 0.016	
03-OCT-07	10-OCT-07	318	0.020+/- 0.003	< 0.017	
10-OCT-07	19-OCT-07	376	0.026+/- 0.003	< 0.015	
10-OCT-07	19-OCT-07	376	0.024+/- 0.003		Duplicate
19-OCT-07	24-OCT-07	219	0.024+/- 0.004	< 0.014	
19-OCT-07	24-OCT-07	219	0.020+/- 0.004		Duplicate
24-OCT-07	31-OCT-07	296	0.022+/- 0.004	< 0.013	
31-OCT-07	07-NOV-07	300	0.028+/- 0.004	< 0.011	
07-NOV-07	14-NOV-07	298	0.036+/- 0.004	< 0.012	
14-NOV-07	20-NOV-07	267	0.031+/- 0.004	< 0.012	
20-NOV-07	28-NOV-07	353	0.025+/- 0.003	< 0.009	
28-NOV-07	05-DEC-07	308	0.039+/- 0.004	< 0.011	
05-DEC-07	12-DEC-07	303	0.040+/- 0.004	< 0.018	
12-DEC-07	20-DEC-07	350	0.053+/- 0.004	< 0.013	
20-DEC-07	27-DEC-07	308	0.047+/- 0.005	< 0.020	
27-DEC-07	03-JAN-08	306	0.040+/- 0.004	< 0.019	

Air Particulate and Charcoal Filters

Location: 049

Collection Start Date	Collection End Date	Volume m^3	Gross Beta Concentration (pCi/m^3)	I-131 Concentration (pCi/m^3)	Duplicate Analysis
27-DEC-06	04-JAN-07	342	0.022+/- 0.003	< 0.017	
27-DEC-06	04-JAN-07	342	0.024+/- 0.003		Duplicate
04-JAN-07	10-JAN-07	267	0.019+/- 0.004	< 0.012	
10-JAN-07	17-JAN-07	313	0.033+/- 0.004	< 0.010	
17-JAN-07	24-JAN-07	295	0.037+/- 0.004	< 0.014	
24-JAN-07	31-JAN-07	303	0.030+/- 0.004	< 0.012	
31-JAN-07	07-FEB-07	309	0.028+/- 0.004	< 0.014	
07-FEB-07	14-FEB-07	305	0.030+/- 0.004	< 0.016	
14-FEB-07	21-FEB-07	305	0.025+/- 0.004	< 0.010	
21-FEB-07	28-FEB-07	303	0.018+/- 0.003	< 0.016	
28-FEB-07	07-MAR-07	320	0.026+/- 0.004	< 0.015	
07-MAR-07	14-MAR-07	294	0.033+/- 0.004	< 0.011	
14-MAR-07	21-MAR-07	312	0.026+/- 0.004	< 0.011	
21-MAR-07	28-MAR-07	317	0.019+/- 0.003	< 0.015	
28-MAR-07	04-APR-07	316	0.018+/- 0.003	< 0.018	
04-APR-07	11-APR-07	298	0.023+/- 0.004	< 0.011	
11-APR-07	18-APR-07	312	0.024+/- 0.004	< 0.010	
18-APR-07	25-APR-07	295	0.026+/- 0.004	< 0.008	
25-APR-07	03-MAY-07	358	0.018+/- 0.003	< 0.018	
03-MAY-07	09-MAY-07	271	0.017+/- 0.004	< 0.016	
09-MAY-07	17-MAY-07	340	0.031+/- 0.004	< 0.006	
17-MAY-07	23-MAY-07	252	0.028+/- 0.004	< 0.016	
23-MAY-07	31-MAY-07	346	0.017+/- 0.003	< 0.008	
31-MAY-07	06-JUN-07	255	0.019+/- 0.004	< 0.012	
06-JUN-07	13-JUN-07	301	0.020+/- 0.004	< 0.016	
13-JUN-07	20-JUN-07	300	0.029+/- 0.004	< 0.018	
20-JUN-07	27-JUN-07	296	0.026+/- 0.004	< 0.019	
27-JUN-07	03-JUL-07	264	0.016+/- 0.004	< 0.032	
03-JUL-07	11-JUL-07	341	0.029+/- 0.004	< 0.014	
11-JUL-07	18-JUL-07	287	0.029+/- 0.004	< 0.014	
18-JUL-07	25-JUL-07	301	0.023+/- 0.004	< 0.017	
25-JUL-07	01-AUG-07	301	0.033+/- 0.004	< 0.011	
01-AUG-07	07-AUG-07	256	0.044+/- 0.005	< 0.021	
07-AUG-07	15-AUG-07	343	0.041+/- 0.004	< 0.012	
15-AUG-07	22-AUG-07	303	0.041+/- 0.004	< 0.013	
22-AUG-07	29-AUG-07	298	0.030+/- 0.004	< 0.014	
29-AUG-07	06-SEP-07	355	0.038+/- 0.004	< 0.018	
06-SEP-07	12-SEP-07	264	0.033+/- 0.004	< 0.021	
12-SEP-07	19-SEP-07	298	0.033+/- 0.004	< 0.015	
19-SEP-07	26-SEP-07	300	0.044+/- 0.004	< 0.014	

Air Particulate and Charcoal Filters

Location: 049

Collection Start Date	Collection End Date	Volume m^3	Gross Beta Concentration (pCi/m^3)	I-131 Concentration (pCi/m^3)	Duplicate Analysis
26-SEP-07	03-OCT-07	308	0.049+/- 0.005	< 0.016	
03-OCT-07	10-OCT-07	300	0.025+/- 0.004	< 0.018	
10-OCT-07	19-OCT-07	379	0.023+/- 0.003	< 0.015	
19-OCT-07	24-OCT-07	224	0.027+/- 0.004	< 0.014	
24-OCT-07	31-OCT-07	294	0.030+/- 0.004	< 0.013	
31-OCT-07	07-NOV-07	304	0.026+/- 0.004	< 0.011	
07-NOV-07	14-NOV-07	294	0.043+/- 0.005	< 0.012	
14-NOV-07	20-NOV-07	264	0.032+/- 0.004	< 0.012	
20-NOV-07	28-NOV-07	356	0.037+/- 0.004	< 0.009	
28-NOV-07	05-DEC-07	306	0.040+/- 0.004	< 0.011	
05-DEC-07	12-DEC-07	303	0.062+/- 0.005	< 0.018	
12-DEC-07	20-DEC-07	349	0.058+/- 0.005	< 0.014	
20-DEC-07	27-DEC-07	306	0.046+/- 0.005	< 0.020	
27-DEC-07	03-JAN-08	310	0.041+/- 0.004	< 0.019	

Quarterly Air Particulate - Gamma

Location: 002

28-MAR-07

Nuclide	Concentration (pCi/m^3)	
BE-7	.103+/-	0.015
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

03-JUL-07

Nuclide	Concentration (pCi/m^3)	
BE-7	.098+/-	0.020
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

03-OCT-07

Nuclide	Concentration (pCi/m^3)	
BE-7	.097+/-	0.013
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

03-JAN-08

Nuclide	Concentration (pCi/m^3)	
BE-7	.071+/-	0.014
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.002

* Duplicate Analysis

Quarterly Air Particulate - Gamma

Location: 002

03-JAN-08

Nuclide	Concentration (pCi/m^3)	
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

* Duplicate Analysis

Quarterly Air Particulate - Gamma

Location: 018

28-MAR-07

Nuclide	Concentration (pCi/m³)	
BE-7	.086+/-	0.013
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

03-JUL-07

Nuclide	Concentration (pCi/m³)	
BE-7	.088+/-	0.015
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

03-OCT-07

Nuclide	Concentration (pCi/m³)	
BE-7	.11+/-	0.013
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

03-JAN-08

Nuclide	Concentration (pCi/m³)	
BE-7	.06+/-	0.010
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001

* Duplicate Analysis

Quarterly Air Particulate - Gamma

Location: 018

03-JAN-08

Nuclide	Concentration (pCi/m^3)	
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

* Duplicate Analysis

Quarterly Air Particulate - Gamma

Location: 032

28-MAR-07

Nuclide	Concentration (pCi/m³)	
BE-7	.076+/-	0.015
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.002
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

03-JUL-07

Nuclide	Concentration (pCi/m³)	
BE-7	.107+/-	0.018
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

03-OCT-07

Nuclide	Concentration (pCi/m³)	
BE-7	.1+/-	0.015
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

03-JAN-08

Nuclide	Concentration (pCi/m³)	
BE-7	.072+/-	0.012
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001

* Duplicate Analysis

Quarterly Air Particulate - Gamma

Location: 032

03-JAN-08

Nuclide	Concentration (pCi/m^3)	
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

* Duplicate Analysis

Quarterly Air Particulate - Gamma

Location: 037

28-MAR-07

Nuclide	Concentration (pCi/m³)	
BE-7	.114+/-	0.019
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

03-JUL-07

Nuclide	Concentration (pCi/m³)	
BE-7	.094+/-	0.018
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

03-OCT-07

Nuclide	Concentration (pCi/m³)	
BE-7	.1+/-	0.014
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

03-JAN-08

Nuclide	Concentration (pCi/m³)	
BE-7	.089+/-	0.015
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001

* Duplicate Analysis

Quarterly Air Particulate - Gamma

Location: 037

03-JAN-08

Nuclide	Concentration (pCi/m^3)	
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

* Duplicate Analysis

Quarterly Air Particulate - Gamma

Location: 048

28-MAR-07

Nuclide	Concentration (pCi/m^3)	
BE-7	.092+/-	0.013
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.002
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

03-JUL-07

Nuclide	Concentration (pCi/m^3)	
BE-7	.084+/-	0.014
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

03-OCT-07

Nuclide	Concentration (pCi/m^3)	
BE-7	.106+/-	0.014
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

03-JAN-08

Nuclide	Concentration (pCi/m^3)	
BE-7	.067+/-	0.012
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001

* Duplicate Analysis

Quarterly Air Particulate - Gamma

Location: 048

03-JAN-08

Nuclide	Concentration (pCi/m^3)	
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

* Duplicate Analysis

Quarterly Air Particulate - Gamma

Location: 049

28-MAR-07

Nuclide	Concentration (pCi/m³)	
BE-7	.079+/-	0.017
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

03-JUL-07

Nuclide	Concentration (pCi/m³)	
BE-7	.082+/-	0.015
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

03-OCT-07

Nuclide	Concentration (pCi/m³)	
BE-7	.1+/-	0.011
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

03-JAN-08

Nuclide	Concentration (pCi/m³)	
BE-7	.088+/-	0.016
CO-58	<	0.001
CO-60	<	0.001
CS-134	<	0.001
CS-137	<	0.001
FE-59	<	0.001

* Duplicate Analysis

Quarterly Air Particulate - Gamma

Location: 049

03-JAN-08

Nuclide	Concentration (pCi/m^3)	
MN-54	<	0.001
ZN-65	<	0.001
ZR-NB-95	<	0.001

* Duplicate Analysis

Exposure Pathway - Waterborne
Surface Water

Location JRR

Collection Date	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Liter)		Duplicate Analysis
11-JAN-07	MN-54	<	2.800	
11-JAN-07	CO-58	<	2.000	
11-JAN-07	FE-59	<	5.700	
11-JAN-07	CO-60	<	2.500	
11-JAN-07	ZN-65	<	6.700	
11-JAN-07	ZR-NB-95	<	2.000	
11-JAN-07	I-131	<	5.800	
11-JAN-07	CS-134	<	3.000	
11-JAN-07	CS-137	<	2.700	
11-JAN-07	BA-LA-140	<	2.100	
11-JAN-07	H-3	<	147.000	
23-FEB-07	MN-54	<	2.200	
23-FEB-07	CO-58	<	2.300	
23-FEB-07	FE-59	<	3.900	
23-FEB-07	CO-60	<	1.300	
23-FEB-07	ZN-65	<	4.900	
23-FEB-07	ZR-NB-95	<	2.900	
23-FEB-07	I-131	<	4.400	
23-FEB-07	CS-134	<	1.800	
23-FEB-07	CS-137	<	3.100	
23-FEB-07	BA-LA-140	<	2.400	
23-FEB-07	H-3	<	188.000	
08-MAR-07	MN-54	<	2.200	
08-MAR-07	CO-58	<	2.500	
08-MAR-07	FE-59	<	5.400	
08-MAR-07	CO-60	<	3.700	
08-MAR-07	ZN-65	<	6.500	
08-MAR-07	ZR-NB-95	<	2.700	
08-MAR-07	I-131	<	3.400	
08-MAR-07	CS-134	<	3.700	
08-MAR-07	CS-137	<	4.600	
08-MAR-07	BA-LA-140	<	2.200	
08-MAR-07	H-3	<	180.000	
12-APR-07	MN-54	<	2.200	Duplicate
12-APR-07	MN-54	<	1.300	
12-APR-07	CO-58	<	2.600	Duplicate
12-APR-07	CO-58	<	3.100	
12-APR-07	FE-59	<	6.000	Duplicate
12-APR-07	FE-59	<	2.200	
12-APR-07	CO-60	<	2.600	Duplicate
12-APR-07	CO-60	<	1.800	

Exposure Pathway - Waterborne
Surface Water

Location JRR

Collection Date	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Liter)		Duplicate Analysis
12-APR-07	ZN-65	<	3.500	Duplicate
12-APR-07	ZN-65	<	3.800	
12-APR-07	ZR-NB-95	<	4.000	Duplicate
12-APR-07	ZR-NB-95	<	2.400	
12-APR-07	I-131	<	8.200	Duplicate
12-APR-07	I-131	<	3.700	
12-APR-07	CS-134	<	3.200	Duplicate
12-APR-07	CS-134	<	2.400	
12-APR-07	CS-137	<	3.100	Duplicate
12-APR-07	CS-137	<	3.200	
12-APR-07	BA-LA-140	<	3.100	Duplicate
12-APR-07	BA-LA-140	<	4.000	
12-APR-07	H-3	<	167.000	Duplicate
12-APR-07	H-3	<	167.000	
10-MAY-07	MN-54	<	3.900	
10-MAY-07	CO-58	<	4.200	
10-MAY-07	FE-59	<	4.600	
10-MAY-07	CO-60	<	1.800	
10-MAY-07	ZN-65	<	5.500	
10-MAY-07	ZR-NB-95	<	2.700	
10-MAY-07	I-131	<	7.200	
10-MAY-07	CS-134	<	3.900	
10-MAY-07	CS-137	<	2.800	
10-MAY-07	BA-LA-140	<	3.400	
10-MAY-07	H-3	<	180.000	
14-JUN-07	MN-54	<	1.700	
14-JUN-07	CO-58	<	3.100	
14-JUN-07	FE-59	<	6.200	
14-JUN-07	CO-60	<	2.600	
14-JUN-07	ZN-65	<	3.200	
14-JUN-07	ZR-NB-95	<	3.900	
14-JUN-07	I-131	<	4.800	
14-JUN-07	CS-134	<	3.200	
14-JUN-07	CS-137	<	3.100	
14-JUN-07	BA-LA-140	<	2.800	
14-JUN-07	H-3	<	169.000	
18-JUL-07	MN-54	<	5.500	
18-JUL-07	CO-58	<	3.500	
18-JUL-07	FE-59	<	9.300	
18-JUL-07	CO-60	<	2.900	
18-JUL-07	ZN-65	<	13.200	

Exposure Pathway - Waterborne
Surface Water

Location JRR

Collection Date	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Liter)		Duplicate Analysis
18-JUL-07	ZR-NB-95	<	4.600	
18-JUL-07	I-131	<	9.400	
18-JUL-07	CS-134	<	5.800	
18-JUL-07	CS-137	<	4.000	
18-JUL-07	BA-LA-140	<	5.400	
18-JUL-07	H-3	<	148.000	
09-AUG-07	MN-54	<	2.400	
09-AUG-07	CO-58	<	4.500	
09-AUG-07	FE-59	<	5.500	
09-AUG-07	CO-60	<	1.500	
09-AUG-07	ZN-65	<	3.300	
09-AUG-07	ZR-NB-95	<	3.500	
09-AUG-07	I-131	<	3.100	
09-AUG-07	CS-134	<	3.300	
09-AUG-07	CS-137	<	3.700	
09-AUG-07	BA-LA-140	<	1.900	
09-AUG-07	H-3	<	156.000	
13-SEP-07	MN-54	<	3.600	
13-SEP-07	CO-58	<	4.100	
13-SEP-07	FE-59	<	10.400	
13-SEP-07	CO-60	<	3.100	
13-SEP-07	ZN-65	<	7.200	
13-SEP-07	ZR-NB-95	<	2.300	
13-SEP-07	I-131	<	9.300	
13-SEP-07	CS-134	<	3.900	
13-SEP-07	CS-137	<	4.400	
13-SEP-07	BA-LA-140	<	6.500	
13-SEP-07	H-3	<	193.000	
11-OCT-07	MN-54	<	2.500	
11-OCT-07	CO-58	<	1.900	
11-OCT-07	FE-59	<	5.800	
11-OCT-07	CO-60	<	3.200	
11-OCT-07	ZN-65	<	4.200	
11-OCT-07	ZR-NB-95	<	3.900	
11-OCT-07	I-131	<	7.600	
11-OCT-07	CS-134	<	2.700	
11-OCT-07	CS-137	<	4.400	
11-OCT-07	BA-LA-140	<	4.300	
11-OCT-07	H-3	<	148.000	
08-NOV-07	MN-54	<	3.600	
08-NOV-07	CO-58	<	3.800	

Exposure Pathway - Waterborne
Surface Water

Location JRR

Collection Date	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Liter)		Duplicate Analysis
08-NOV-07	FE-59	<	8.800	
08-NOV-07	CO-60	<	4.100	
08-NOV-07	ZN-65	<	6.500	
08-NOV-07	ZR-NB-95	<	4.500	
08-NOV-07	I-131	<	9.500	
08-NOV-07	CS-134	<	4.800	
08-NOV-07	CS-137	<	7.200	
08-NOV-07	BA-LA-140	<	6.900	
08-NOV-07	H-3	<	176.000	
13-DEC-07	MN-54	<	1.700	
13-DEC-07	CO-58	<	2.600	
13-DEC-07	FE-59	<	2.800	
13-DEC-07	CO-60	<	2.600	
13-DEC-07	ZN-65	<	6.100	
13-DEC-07	ZR-NB-95	<	1.700	
13-DEC-07	I-131	<	5.400	
13-DEC-07	CS-134	<	2.400	
13-DEC-07	CS-137	<	2.200	
13-DEC-07	BA-LA-140	<	1.600	
13-DEC-07	H-3	<	173.000	

Exposure Pathway - Waterborne
Surface Water

Location SP

Collection Date	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Liter)		Duplicate Analysis
11-JAN-07	MN-54		<	2.000
11-JAN-07	CO-58		<	2.200
11-JAN-07	FE-59		<	5.100
11-JAN-07	CO-60		<	2.900
11-JAN-07	ZN-65		<	1.800
11-JAN-07	ZR-NB-95		<	3.300
11-JAN-07	I-131		<	4.400
11-JAN-07	CS-134		<	2.000
11-JAN-07	CS-137		<	2.900
11-JAN-07	BA-LA-140		<	2.700
11-JAN-07	H-3	12910.000	+/-	322.000
23-FEB-07	MN-54		<	1.800
23-FEB-07	CO-58		<	2.900
23-FEB-07	FE-59		<	6.300
23-FEB-07	CO-60		<	2.500
23-FEB-07	ZN-65		<	3.900
23-FEB-07	ZR-NB-95		<	3.400
23-FEB-07	I-131		<	4.200
23-FEB-07	CS-134		<	2.600
23-FEB-07	CS-137		<	3.300
23-FEB-07	BA-LA-140		<	2.400
23-FEB-07	H-3	11985.000	+/-	306.000
08-MAR-07	MN-54		<	1.700
08-MAR-07	CO-58		<	3.100
08-MAR-07	FE-59		<	4.200
08-MAR-07	CO-60		<	1.600
08-MAR-07	ZN-65		<	4.000
08-MAR-07	ZR-NB-95		<	2.800
08-MAR-07	I-131		<	6.200
08-MAR-07	CS-134		<	2.100
08-MAR-07	CS-137		<	3.500
08-MAR-07	BA-LA-140		<	3.500
08-MAR-07	H-3	12181.000	+/-	311.000
12-APR-07	MN-54		<	2.700
12-APR-07	CO-58		<	7.200
12-APR-07	FE-59		<	4.900
12-APR-07	CO-60		<	4.900
12-APR-07	ZN-65		<	11.600
12-APR-07	ZR-NB-95		<	5.000
12-APR-07	I-131		<	8.100
12-APR-07	CS-134		<	5.000

Exposure Pathway - Waterborne
Surface Water

Location SP

Collection Date	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Liter)		Duplicate Analysis
12-APR-07	CS-137	<	3.700	
12-APR-07	BA-LA-140	<	4.500	
12-APR-07	H-3	11391.000+/-	309.000	
10-MAY-07	MN-54	<	2.500	
10-MAY-07	CO-58	<	2.200	
10-MAY-07	FE-59	<	4.400	
10-MAY-07	CO-60	<	2.300	
10-MAY-07	ZN-65	<	6.300	
10-MAY-07	ZR-NB-95	<	3.300	
10-MAY-07	I-131	<	5.400	
10-MAY-07	CS-134	<	2.800	
10-MAY-07	CS-137	<	3.100	
10-MAY-07	BA-LA-140	<	4.200	
10-MAY-07	H-3	9899.000+/-	280.000	
14-JUN-07	MN-54	<	2.300	
14-JUN-07	CO-58	<	2.400	
14-JUN-07	FE-59	<	5.700	
14-JUN-07	CO-60	<	3.000	
14-JUN-07	ZN-65	<	2.000	
14-JUN-07	ZR-NB-95	<	3.100	
14-JUN-07	I-131	<	7.000	
14-JUN-07	CS-134	<	3.600	
14-JUN-07	CS-137	<	2.200	
14-JUN-07	BA-LA-140	<	1.900	
14-JUN-07	H-3	9572.000+/-	287.000	
18-JUL-07	MN-54	<	3.800	
18-JUL-07	CO-58	<	2.300	
18-JUL-07	FE-59	<	3.500	
18-JUL-07	CO-60	<	3.300	
18-JUL-07	ZN-65	<	5.700	
18-JUL-07	ZR-NB-95	<	2.700	
18-JUL-07	I-131	<	6.400	
18-JUL-07	CS-134	<	3.000	
18-JUL-07	CS-137	<	2.700	
18-JUL-07	BA-LA-140	<	3.900	
18-JUL-07	H-3	8262.000+/-	263.000	
09-AUG-07	MN-54	<	1.600	
09-AUG-07	CO-58	<	2.900	
09-AUG-07	FE-59	<	5.200	
09-AUG-07	CO-60	<	2.600	
09-AUG-07	ZN-65	<	3.100	

Exposure Pathway - Waterborne
Surface Water

Location SP

Collection Date	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Liter)		Duplicate Analysis
09-AUG-07	ZR-NB-95	<	8.200	
09-AUG-07	I-131	<	5.400	
09-AUG-07	CS-134	<	2.900	
09-AUG-07	CS-137	<	2.700	
09-AUG-07	BA-LA-140	<	4.600	
09-AUG-07	H-3	8875.000+/-	281.000	
13-SEP-07	MN-54	<	3.900	
13-SEP-07	CO-58	<	5.200	
13-SEP-07	FE-59	<	6.500	
13-SEP-07	CO-60	<	3.800	
13-SEP-07	ZN-65	<	8.500	
13-SEP-07	ZR-NB-95	<	5.000	
13-SEP-07	I-131	<	10.000	
13-SEP-07	CS-134	<	4.400	
13-SEP-07	CS-137	<	4.800	
13-SEP-07	BA-LA-140	<	7.000	
13-SEP-07	H-3	8265.000+/-	263.000	
11-OCT-07	MN-54	<	1.300	
11-OCT-07	CO-58	<	1.400	
11-OCT-07	FE-59	<	3.600	
11-OCT-07	CO-60	<	2.500	
11-OCT-07	ZN-65	<	3.000	
11-OCT-07	ZR-NB-95	<	2.600	
11-OCT-07	I-131	<	5.100	
11-OCT-07	CS-134	<	3.000	
11-OCT-07	CS-137	<	2.800	
11-OCT-07	BA-LA-140	<	2.300	
11-OCT-07	H-3	10063.000+/-	284.000	
08-NOV-07	MN-54	<	3.300	
08-NOV-07	CO-58	<	2.200	
08-NOV-07	FE-59	<	5.800	
08-NOV-07	CO-60	<	3.400	
08-NOV-07	ZN-65	<	9.400	
08-NOV-07	ZR-NB-95	<	4.800	
08-NOV-07	I-131	<	6.600	
08-NOV-07	CS-134	<	5.400	
08-NOV-07	CS-137	<	3.600	
08-NOV-07	BA-LA-140	<	8.000	
08-NOV-07	H-3	10423.000+/-	286.000	
13-DEC-07	MN-54	<	1.500	
13-DEC-07	CO-58	<	2.000	

Exposure Pathway - Waterborne
Surface Water

Location SP

Collection Date	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Liter)		Duplicate Analysis
13-DEC-07	FE-59	<	4.600	
13-DEC-07	CO-60	<	1.900	
13-DEC-07	ZN-65	<	3.200	
13-DEC-07	ZR-NB-95	<	2.700	
13-DEC-07	I-131	<	7.800	
13-DEC-07	CS-134	<	3.800	
13-DEC-07	CS-137	<	4.200	
13-DEC-07	BA-LA-140	<	2.600	
13-DEC-07	H-3	11474.000+/-	316.000	

Exposure Pathway - Waterborne
Ground Water

Location B-12

Collection Date	Nuclide		Concentration (pCi/Liter)	Duplicate Analysis
16-FEB-07	MN-54	<	2.600	
16-FEB-07	CO-58	<	4.500	
16-FEB-07	FE-59	<	9.800	
16-FEB-07	CO-60	<	4.900	
16-FEB-07	ZN-65	<	10.400	
16-FEB-07	ZR-NB-95	<	4.700	
16-FEB-07	CS-134	<	5.200	
16-FEB-07	CS-137	<	4.900	
16-FEB-07	BA-LA-140	<	3.200	
16-FEB-07	H-3	<	135.000	
16-FEB-07	I-131 (CHEM)	<	0.433	
18-MAY-07	MN-54	<	2.000	
18-MAY-07	CO-58	<	3.600	
18-MAY-07	FE-59	<	4.800	
18-MAY-07	CO-60	<	1.900	
18-MAY-07	ZN-65	<	3.200	
18-MAY-07	ZR-NB-95	<	4.600	
18-MAY-07	CS-134	<	3.000	
18-MAY-07	CS-137	<	3.400	
18-MAY-07	BA-LA-140	<	3.100	
18-MAY-07	H-3	<	140.000	
18-MAY-07	I-131 (CHEM)	<	0.293	
09-AUG-07	MN-54	<	5.400	
09-AUG-07	CO-58	<	5.900	
09-AUG-07	FE-59	<	6.000	
09-AUG-07	CO-60	<	3.000	
09-AUG-07	ZN-65	<	11.000	
09-AUG-07	ZR-NB-95	<	5.300	
09-AUG-07	CS-134	<	4.700	
09-AUG-07	CS-137	<	6.600	
09-AUG-07	BA-LA-140	<	8.700	
09-AUG-07	H-3	<	156.000	
09-AUG-07	I-131 (CHEM)	<	0.375	
15-NOV-07	MN-54	<	3.900	
15-NOV-07	CO-58	<	3.200	
15-NOV-07	FE-59	<	4.200	
15-NOV-07	CO-60	<	2.800	
15-NOV-07	ZN-65	<	5.300	
15-NOV-07	ZR-NB-95	<	4.400	
15-NOV-07	CS-134	<	3.300	
15-NOV-07	CS-137	<	3.000	

Exposure Pathway - Waterborne
Ground Water

Location B-12

Collection Date	Nuclide		Concentration (pCi/Liter)	Duplicate Analysis
15-NOV-07	BA-LA-140	<	4.000	
15-NOV-07	H-3	<	178.000	
15-NOV-07	I-131 (CHEM)	<	0.372	

Exposure Pathway - Waterborne
Ground Water

Location C-10

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
23-FEB-07	MN-54	<	4.500	
23-FEB-07	CO-58	<	3.600	
23-FEB-07	FE-59	<	8.600	
23-FEB-07	CO-60	<	4.900	
23-FEB-07	ZN-65	<	5.200	
23-FEB-07	ZR-NB-95	<	3.500	
23-FEB-07	CS-134	<	5.600	
23-FEB-07	CS-137	<	5.700	
23-FEB-07	BA-LA-140	<	2.600	
23-FEB-07	H-3	<	188.000	
23-FEB-07	I-131 (CHEM)	<	0.305	
18-MAY-07	MN-54	<	2.200	
18-MAY-07	CO-58	<	3.200	
18-MAY-07	FE-59	<	2.300	
18-MAY-07	CO-60	<	3.200	
18-MAY-07	ZN-65	<	1.800	
18-MAY-07	ZR-NB-95	<	2.000	
18-MAY-07	CS-134	<	2.500	
18-MAY-07	CS-137	<	2.000	
18-MAY-07	BA-LA-140	<	1.600	
18-MAY-07	H-3	<	140.000	
18-MAY-07	I-131 (CHEM)	<	0.293	
09-AUG-07	MN-54	<	2.200	
09-AUG-07	CO-58	<	6.200	
09-AUG-07	FE-59	<	3.300	
09-AUG-07	CO-60	<	3.400	
09-AUG-07	ZN-65	<	6.900	
09-AUG-07	ZR-NB-95	<	5.800	
09-AUG-07	CS-134	<	3.100	
09-AUG-07	CS-137	<	4.200	
09-AUG-07	BA-LA-140	<	7.200	
09-AUG-07	H-3	<	156.000	
09-AUG-07	I-131 (CHEM)	<	0.398	
15-NOV-07	MN-54	<	2.500	
15-NOV-07	CO-58	<	1.100	
15-NOV-07	FE-59	<	3.700	
15-NOV-07	CO-60	<	2.500	
15-NOV-07	ZN-65	<	2.400	
15-NOV-07	ZR-NB-95	<	2.600	
15-NOV-07	CS-134	<	2.400	
15-NOV-07	CS-137	<	2.400	

Exposure Pathway - Waterborne
Ground Water

Location C-10

Collection Date	Nuclide		Concentration (pCi/Liter)	Duplicate Analysis
15-NOV-07	BA-LA-140	<	2.400	
15-NOV-07	H-3	<	178.000	
15-NOV-07	I-131 (CHEM)	<	0.388	

Exposure Pathway - Waterborne
Ground Water

Location C-49

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
23-FEB-07	MN-54	<	4.900	
23-FEB-07	CO-58	<	2.300	
23-FEB-07	FE-59	<	6.400	
23-FEB-07	CO-60	<	3.400	
23-FEB-07	ZN-65	<	7.300	
23-FEB-07	ZR-NB-95	<	5.900	
23-FEB-07	CS-134	<	5.900	
23-FEB-07	CS-137	<	6.000	
23-FEB-07	BA-LA-140	<	6.700	
23-FEB-07	H-3	<	188.000	
23-FEB-07	I-131 (CHEM)	<	0.303	
18-MAY-07	MN-54	<	3.600	
18-MAY-07	CO-58	<	3.600	
18-MAY-07	FE-59	<	8.700	
18-MAY-07	CO-60	<	3.000	
18-MAY-07	ZN-65	<	4.900	
18-MAY-07	ZR-NB-95	<	5.200	
18-MAY-07	CS-134	<	5.400	
18-MAY-07	CS-137	<	4.300	
18-MAY-07	BA-LA-140	<	5.300	
18-MAY-07	H-3	<	140.000	
18-MAY-07	I-131 (CHEM)	<	0.255	
09-AUG-07	MN-54	<	4.300	
09-AUG-07	CO-58	<	5.900	
09-AUG-07	FE-59	<	3.900	
09-AUG-07	CO-60	<	5.100	
09-AUG-07	ZN-65	<	7.100	
09-AUG-07	ZR-NB-95	<	5.600	
09-AUG-07	CS-134	<	6.200	
09-AUG-07	CS-137	<	4.800	
09-AUG-07	BA-LA-140	<	7.200	
09-AUG-07	H-3	<	156.000	
09-AUG-07	I-131 (CHEM)	<	0.445	
15-NOV-07	MN-54	<	2.400	
15-NOV-07	CO-58	<	1.700	
15-NOV-07	FE-59	<	2.000	
15-NOV-07	CO-60	<	2.500	
15-NOV-07	ZN-65	<	4.400	
15-NOV-07	ZR-NB-95	<	3.200	
15-NOV-07	CS-134	<	2.300	
15-NOV-07	CS-137	<	2.800	

Exposure Pathway - Waterborne
Ground Water

Location C-49

Collection Date	Nuclide		Concentration (pCi/Liter)	Duplicate Analysis
15-NOV-07	BA-LA-140	<	3.600	
15-NOV-07	H-3	<	178.000	
15-NOV-07	I-131 (CHEM)	<	0.448	

Exposure Pathway - Waterborne
Ground Water

Location F-1

Collection Date	Nuclide		Concentration (pCi/Liter)	Duplicate Analysis
16-FEB-07	MN-54	<	3.100	
16-FEB-07	CO-58	<	3.100	
16-FEB-07	FE-59	<	7.300	
16-FEB-07	CO-60	<	2.100	
16-FEB-07	ZN-65	<	5.400	
16-FEB-07	ZR-NB-95	<	3.600	
16-FEB-07	CS-134	<	3.100	
16-FEB-07	CS-137	<	2.800	
16-FEB-07	BA-LA-140	<	2.400	
16-FEB-07	H-3	<	135.000	
16-FEB-07	I-131 (CHEM)	<	0.342	
18-MAY-07	MN-54	<	4.200	
18-MAY-07	CO-58	<	3.200	
18-MAY-07	FE-59	<	9.800	
18-MAY-07	CO-60	<	2.900	
18-MAY-07	ZN-65	<	4.700	
18-MAY-07	ZR-NB-95	<	3.100	
18-MAY-07	CS-134	<	4.900	
18-MAY-07	CS-137	<	4.900	
18-MAY-07	BA-LA-140	<	6.500	
18-MAY-07	H-3	<	140.000	
18-MAY-07	I-131 (CHEM)	<	0.314	
09-AUG-07	MN-54	<	2.300	
09-AUG-07	CO-58	<	1.500	
09-AUG-07	FE-59	<	4.000	
09-AUG-07	CO-60	<	2.900	
09-AUG-07	ZN-65	<	1.800	
09-AUG-07	ZR-NB-95	<	1.700	
09-AUG-07	CS-134	<	2.100	
09-AUG-07	CS-137	<	2.900	
09-AUG-07	BA-LA-140	<	1.700	
09-AUG-07	H-3	<	156.000	
09-AUG-07	I-131 (CHEM)	<	0.268	
15-NOV-07	MN-54	<	2.500	
15-NOV-07	CO-58	<	6.400	
15-NOV-07	FE-59	<	5.300	
15-NOV-07	CO-60	<	4.900	
15-NOV-07	ZN-65	<	6.500	
15-NOV-07	ZR-NB-95	<	4.600	
15-NOV-07	CS-134	<	4.500	
15-NOV-07	CS-137	<	5.800	

Exposure Pathway - Waterborne
Ground Water

Location F-1

Collection Date	Nuclide		Concentration (pCi/Liter)	Duplicate Analysis
15-NOV-07	BA-LA-140	<	9.200	
15-NOV-07	H-3	<	178.000	
15-NOV-07	I-131 (CHEM)	<	0.390	

Exposure Pathway - Waterborne
Ground Water

Location G-2

Collection Date	Nuclide		Concentration (pCi/Liter)	Duplicate Analysis
18-MAY-07	MN-54	<	2.800	
18-MAY-07	CO-58	<	3.000	
18-MAY-07	FE-59	<	5.200	
18-MAY-07	CO-60	<	2.300	
18-MAY-07	ZN-65	<	3.700	
18-MAY-07	ZR-NB-95	<	2.800	
18-MAY-07	CS-134	<	3.800	
18-MAY-07	CS-137	<	2.300	
18-MAY-07	BA-LA-140	<	3.200	
18-MAY-07	H-3	<	140.000	
18-MAY-07	I-131 (CHEM)	<	0.273	
09-AUG-07	MN-54	<	2.200	
09-AUG-07	CO-58	<	1.600	
09-AUG-07	FE-59	<	4.200	
09-AUG-07	CO-60	<	3.000	
09-AUG-07	ZN-65	<	4.700	
09-AUG-07	ZR-NB-95	<	1.800	
09-AUG-07	CS-134	<	1.800	
09-AUG-07	CS-137	<	2.600	
09-AUG-07	BA-LA-140	<	2.300	
09-AUG-07	H-3	<	156.000	
09-AUG-07	I-131 (CHEM)	<	0.372	
15-NOV-07	MN-54	<	4.700	
15-NOV-07	CO-58	<	5.300	
15-NOV-07	FE-59	<	6.400	
15-NOV-07	CO-60	<	7.300	
15-NOV-07	ZN-65	<	6.500	
15-NOV-07	ZR-NB-95	<	5.000	
15-NOV-07	CS-134	<	6.100	
15-NOV-07	CS-137	<	3.300	
15-NOV-07	BA-LA-140	<	7.500	
15-NOV-07	H-3	<	178.000	
15-NOV-07	I-131 (CHEM)	<	0.410	

Exposure Pathway - Waterborne
Ground Water

Location J-1

Collection Date	Nuclide		Concentration (pCi/Liter)	Duplicate Analysis
16-FEB-07	MN-54	<	1.800	
16-FEB-07	CO-58	<	2.000	
16-FEB-07	FE-59	<	4.000	
16-FEB-07	CO-60	<	2.800	
16-FEB-07	ZN-65	<	5.400	
16-FEB-07	ZR-NB-95	<	2.500	
16-FEB-07	CS-134	<	3.500	
16-FEB-07	CS-137	<	4.100	
16-FEB-07	BA-LA-140	<	4.700	
16-FEB-07	H-3	<	135.000	
16-FEB-07	I-131 (CHEM)	<	0.345	
17-MAY-07	MN-54	<	2.100	
17-MAY-07	CO-58	<	3.900	
17-MAY-07	FE-59	<	5.400	
17-MAY-07	CO-60	<	3.100	
17-MAY-07	ZN-65	<	6.000	
17-MAY-07	ZR-NB-95	<	3.500	
17-MAY-07	CS-134	<	2.800	
17-MAY-07	CS-137	<	3.700	
17-MAY-07	BA-LA-140	<	3.000	
17-MAY-07	H-3	<	140.000	
17-MAY-07	I-131 (CHEM)	<	0.331	
07-AUG-07	MN-54	<	4.300	
07-AUG-07	CO-58	<	3.600	
07-AUG-07	FE-59	<	7.000	
07-AUG-07	CO-60	<	1.700	
07-AUG-07	ZN-65	<	7.600	
07-AUG-07	ZR-NB-95	<	2.100	
07-AUG-07	CS-134	<	3.900	
07-AUG-07	CS-137	<	3.700	
07-AUG-07	BA-LA-140	<	2.700	
07-AUG-07	H-3	<	156.000	
07-AUG-07	I-131 (CHEM)	<	0.413	
14-NOV-07	MN-54	<	3.000	
14-NOV-07	CO-58	<	2.400	
14-NOV-07	FE-59	<	3.600	
14-NOV-07	CO-60	<	2.800	
14-NOV-07	ZN-65	<	6.200	
14-NOV-07	ZR-NB-95	<	4.300	
14-NOV-07	CS-134	<	3.700	
14-NOV-07	CS-137	<	2.100	

Exposure Pathway - Waterborne
Ground Water

Location J-1

Collection Date	Nuclide		Concentration (pCi/Liter)	Duplicate Analysis
14-NOV-07	BA-LA-140	<	4.700	
14-NOV-07	H-3	<	178.000	
14-NOV-07	I-131 (CHEM)	<	0.404	

Exposure Pathway - Waterborne
Ground Water

Location J-2

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
16-FEB-07	MN-54	<	2.400	Duplicate
16-FEB-07	MN-54	<	2.900	
16-FEB-07	CO-58	<	2.800	Duplicate
16-FEB-07	CO-58	<	2.800	
16-FEB-07	FE-59	<	3.400	Duplicate
16-FEB-07	FE-59	<	4.500	
16-FEB-07	CO-60	<	2.800	Duplicate
16-FEB-07	CO-60	<	2.000	
16-FEB-07	ZN-65	<	7.000	Duplicate
16-FEB-07	ZN-65	<	5.300	
16-FEB-07	ZR-NB-95	<	3.800	Duplicate
16-FEB-07	ZR-NB-95	<	3.500	
16-FEB-07	CS-134	<	4.000	Duplicate
16-FEB-07	CS-134	<	2.200	
16-FEB-07	CS-137	<	3.600	Duplicate
16-FEB-07	CS-137	<	3.600	
16-FEB-07	BA-LA-140	<	1.800	Duplicate
16-FEB-07	BA-LA-140	<	3.100	
16-FEB-07	H-3	<	135.000	Duplicate
16-FEB-07	H-3	<	135.000	
16-FEB-07	I-131 (CHEM)	<	0.585	Duplicate
16-FEB-07	I-131 (CHEM)	<	0.483	
18-MAY-07	MN-54	<	5.700	
18-MAY-07	CO-58	<	4.400	
18-MAY-07	FE-59	<	5.000	
18-MAY-07	CO-60	<	4.500	
18-MAY-07	ZN-65	<	9.100	
18-MAY-07	ZR-NB-95	<	3.500	
18-MAY-07	CS-134	<	6.000	
18-MAY-07	CS-137	<	5.300	
18-MAY-07	BA-LA-140	<	5.900	
18-MAY-07	H-3	<	140.000	
18-MAY-07	I-131 (CHEM)	<	0.237	
09-AUG-07	MN-54	<	4.400	
09-AUG-07	CO-58	<	3.500	
09-AUG-07	FE-59	<	6.000	
09-AUG-07	CO-60	<	4.300	
09-AUG-07	ZN-65	<	5.300	
09-AUG-07	ZR-NB-95	<	3.500	
09-AUG-07	CS-134	<	2.700	
09-AUG-07	CS-137	<	6.400	

Exposure Pathway - Waterborne
Ground Water

Location J-2

Collection Date	Nuclide		Concentration (pCi/Liter)	Duplicate Analysis
09-AUG-07	BA-LA-140	<	7.200	
09-AUG-07	H-3	<	156.000	
09-AUG-07	I-131 (CHEM)	<	0.364	
15-NOV-07	MN-54	<	4.000	
15-NOV-07	CO-58	<	2.300	
15-NOV-07	FE-59	<	4.500	
15-NOV-07	CO-60	<	2.600	
15-NOV-07	ZN-65	<	3.500	
15-NOV-07	ZR-NB-95	<	4.000	
15-NOV-07	CS-134	<	3.900	
15-NOV-07	CS-137	<	4.200	
15-NOV-07	BA-LA-140	<	5.800	
15-NOV-07	H-3	<	178.000	
15-NOV-07	I-131 (CHEM)	<	0.370	

Exposure Pathway - Waterborne
Ground Water

Location L-49

Collection Date	Nuclide		Concentration (pCi/Liter)	Duplicate Analysis
23-FEB-07	MN-54	<	4.700	
23-FEB-07	CO-58	<	4.800	
23-FEB-07	FE-59	<	7.700	
23-FEB-07	CO-60	<	2.800	
23-FEB-07	ZN-65	<	9.200	
23-FEB-07	ZR-NB-95	<	4.700	
23-FEB-07	CS-134	<	5.500	
23-FEB-07	CS-137	<	5.300	
23-FEB-07	BA-LA-140	<	2.900	
23-FEB-07	H-3	<	188.000	
23-FEB-07	I-131 (CHEM)	<	0.353	
18-MAY-07	MN-54	<	1.600	Duplicate
18-MAY-07	MN-54	<	2.400	
18-MAY-07	CO-58	<	3.000	Duplicate
18-MAY-07	CO-58	<	3.100	
18-MAY-07	FE-59	<	6.100	Duplicate
18-MAY-07	FE-59	<	8.900	
18-MAY-07	CO-60	<	2.200	Duplicate
18-MAY-07	CO-60	<	2.800	
18-MAY-07	ZN-65	<	4.400	Duplicate
18-MAY-07	ZN-65	<	5.400	
18-MAY-07	ZR-NB-95	<	2.600	Duplicate
18-MAY-07	ZR-NB-95	<	2.700	
18-MAY-07	CS-134	<	2.900	Duplicate
18-MAY-07	CS-134	<	4.000	
18-MAY-07	CS-137	<	3.100	Duplicate
18-MAY-07	CS-137	<	4.600	
18-MAY-07	BA-LA-140	<	2.700	Duplicate
18-MAY-07	BA-LA-140	<	6.300	
18-MAY-07	H-3	<	140.000	Duplicate
18-MAY-07	H-3	<	140.000	
18-MAY-07	I-131 (CHEM)	<	0.390	Duplicate
18-MAY-07	I-131 (CHEM)	<	0.479	
09-AUG-07	MN-54	<	3.000	
09-AUG-07	CO-58	<	1.800	
09-AUG-07	FE-59	<	7.800	
09-AUG-07	CO-60	<	2.100	
09-AUG-07	ZN-65	<	2.500	
09-AUG-07	ZR-NB-95	<	4.200	
09-AUG-07	CS-134	<	3.200	
09-AUG-07	CS-137	<	4.000	

Exposure Pathway - Waterborne
Ground Water

Location L-49

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
09-AUG-07	BA-LA-140	<	4.600	
09-AUG-07	H-3	<	156.000	
09-AUG-07	I-131 (CHEM)	<	0.386	
15-NOV-07	MN-54	<	3.500	
15-NOV-07	CO-58	<	2.600	
15-NOV-07	FE-59	<	6.800	
15-NOV-07	CO-60	<	1.300	
15-NOV-07	ZN-65	<	4.400	
15-NOV-07	ZR-NB-95	<	3.000	
15-NOV-07	CS-134	<	1.800	
15-NOV-07	CS-137	<	1.800	
15-NOV-07	BA-LA-140	<	1.900	
15-NOV-07	H-3	<	178.000	
15-NOV-07	I-131 (CHEM)	<	0.412	

Exposure Pathway - Waterborne
Drinking Water

Location BW-15

Collection Date	Nuclide	Concentration (pCi/Liter)	Duplicate Analysis
07-FEB-07	MN-54	<	2.300
07-FEB-07	CO-58	<	2.500
07-FEB-07	FE-59	<	2.200
07-FEB-07	CO-60	<	1.700
07-FEB-07	ZN-65	<	1.700
07-FEB-07	ZR-NB-95	<	1.600
07-FEB-07	CS-134	<	2.400
07-FEB-07	CS-137	<	2.500
07-FEB-07	BA-LA-140	<	2.400
07-FEB-07	GROSS BETA	2.943+/-	0.696
07-FEB-07	I-131 (CHEM)	<	0.445
07-MAR-07	MN-54	<	2.700
07-MAR-07	CO-58	<	2.600
07-MAR-07	FE-59	<	4.200
07-MAR-07	CO-60	<	3.400
07-MAR-07	ZN-65	<	5.500
07-MAR-07	ZR-NB-95	<	4.000
07-MAR-07	CS-134	<	2.500
07-MAR-07	CS-137	<	3.000
07-MAR-07	BA-LA-140	<	2.000
07-MAR-07	GROSS BETA	2.881+/-	0.662
07-MAR-07	I-131 (CHEM)	<	0.397
04-APR-07	MN-54	<	2.300
04-APR-07	CO-58	<	1.200
04-APR-07	FE-59	<	5.000
04-APR-07	CO-60	<	2.000
04-APR-07	ZN-65	<	4.600
04-APR-07	ZR-NB-95	<	3.700
04-APR-07	CS-134	<	3.500
04-APR-07	CS-137	<	2.000
04-APR-07	BA-LA-140	<	1.700
04-APR-07	GROSS BETA	2.848+/-	0.393
04-APR-07	I-131 (CHEM)	<	0.358
02-MAY-07	MN-54	<	2.200
02-MAY-07	CO-58	<	1.700
02-MAY-07	FE-59	<	2.500
02-MAY-07	CO-60	<	1.700
02-MAY-07	ZN-65	<	4.600
02-MAY-07	ZR-NB-95	<	3.100
02-MAY-07	CS-134	<	2.700
02-MAY-07	CS-137	<	3.700

Exposure Pathway - Waterborne
Drinking Water

Location BW-15

Collection Date	Nuclide	Concentration (pCi/Liter)	Duplicate Analysis
02-MAY-07	BA-LA-140	<	2.900
02-MAY-07	GROSS BETA	2.659+/-	0.665
02-MAY-07	I-131 (CHEM)	<	0.438
06-JUN-07	MN-54	<	3.500
06-JUN-07	CO-58	<	3.400
06-JUN-07	FE-59	<	6.800
06-JUN-07	CO-60	<	3.700
06-JUN-07	ZN-65	<	5.200
06-JUN-07	ZR-NB-95	<	3.600
06-JUN-07	CS-134	<	3.400
06-JUN-07	CS-137	<	3.100
06-JUN-07	BA-LA-140	<	2.800
06-JUN-07	GROSS BETA	3.107+/-	0.688
06-JUN-07	I-131 (CHEM)	<	0.342
03-JUL-07	MN-54	<	2.200
03-JUL-07	CO-58	<	3.100
03-JUL-07	FE-59	<	3.500
03-JUL-07	CO-60	<	1.800
03-JUL-07	ZN-65	<	2.200
03-JUL-07	ZR-NB-95	<	4.100
03-JUL-07	CS-134	<	2.300
03-JUL-07	CS-137	<	3.400
03-JUL-07	BA-LA-140	<	1.400
03-JUL-07	GROSS BETA	2.956+/-	0.500
03-JUL-07	I-131 (CHEM)	<	0.402
01-AUG-07	MN-54	<	2.700
01-AUG-07	CO-58	<	1.800
01-AUG-07	FE-59	<	4.200
01-AUG-07	CO-60	<	3.100
01-AUG-07	ZN-65	<	1.600
01-AUG-07	ZR-NB-95	<	1.800
01-AUG-07	CS-134	<	3.300
01-AUG-07	CS-137	<	3.000
01-AUG-07	BA-LA-140	<	2.300
01-AUG-07	GROSS BETA	3.106+/-	1.051
01-AUG-07	I-131 (CHEM)	<	0.216
06-SEP-07	MN-54	<	5.100
06-SEP-07	CO-58	<	4.500
06-SEP-07	FE-59	<	9.000
06-SEP-07	CO-60	<	2.800
06-SEP-07	ZN-65	<	4.800

Exposure Pathway - Waterborne
Drinking Water

Location BW-15

Collection Date	Nuclide	Concentration (pCi/Liter)	Duplicate Analysis
06-SEP-07	ZR-NB-95	<	3.100
06-SEP-07	CS-134	<	4.100
06-SEP-07	CS-137	<	4.000
06-SEP-07	BA-LA-140	<	7.300
06-SEP-07	GROSS BETA	2.355+/-	0.634
06-SEP-07	I-131 (CHEM)	<	0.460
03-OCT-07	MN-54	<	4.900
03-OCT-07	CO-58	<	4.300
03-OCT-07	FE-59	<	6.600
03-OCT-07	CO-60	<	3.800
03-OCT-07	ZN-65	<	4.000
03-OCT-07	ZR-NB-95	<	4.200
03-OCT-07	CS-134	<	4.300
03-OCT-07	CS-137	<	2.600
03-OCT-07	BA-LA-140	<	6.800
03-OCT-07	GROSS BETA	3.604+/-	0.725
03-OCT-07	I-131 (CHEM)	<	0.220
01-NOV-07	MN-54	<	5.000
01-NOV-07	CO-58	<	3.700
01-NOV-07	FE-59	<	7.200
01-NOV-07	CO-60	<	3.100
01-NOV-07	ZN-65	<	8.700
01-NOV-07	ZR-NB-95	<	3.600
01-NOV-07	CS-134	<	4.600
01-NOV-07	CS-137	<	4.800
01-NOV-07	BA-LA-140	<	6.800
01-NOV-07	GROSS BETA	4.278+/-	0.773
01-NOV-07	I-131 (CHEM)	<	0.357
05-DEC-07	MN-54	<	2.300
05-DEC-07	CO-58	<	1.900
05-DEC-07	FE-59	<	4.100
05-DEC-07	CO-60	<	2.800
05-DEC-07	ZN-65	<	5.100
05-DEC-07	ZR-NB-95	<	2.500
05-DEC-07	I-131	<	0.431
05-DEC-07	CS-134	<	2.400
05-DEC-07	CS-137	<	3.400
05-DEC-07	BA-LA-140	<	3.900
05-DEC-07	GROSS BETA	2.798+/-	0.683
03-JAN-08	MN-54	<	2.200
03-JAN-08	CO-58	<	1.800

Exposure Pathway - Waterborne
Drinking Water

Location BW-15

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
03-JAN-08	FE-59	<	6.500	
03-JAN-08	CO-60	<	3.100	
03-JAN-08	ZN-65	<	4.500	
03-JAN-08	ZR-NB-95	<	2.900	
03-JAN-08	CS-134	<	3.200	
03-JAN-08	CS-137	<	2.100	
03-JAN-08	BA-LA-140	<	4.300	
03-JAN-08	GROSS BETA	2.880+/-	0.657	
03-JAN-08	I-131 (CHEM)	<	0.451	

Exposure Pathway - Waterborne
Drinking Water

Location IO-DW

Collection Date	Nuclide	Concentration (pCi/Liter)	Duplicate Analysis
07-FEB-07	MN-54	<	2.300
07-FEB-07	CO-58	<	2.200
07-FEB-07	FE-59	<	3.300
07-FEB-07	CO-60	<	1.600
07-FEB-07	ZN-65	<	3.600
07-FEB-07	ZR-NB-95	<	2.600
07-FEB-07	CS-134	<	2.900
07-FEB-07	CS-137	<	3.100
07-FEB-07	BA-LA-140	<	2.200
07-FEB-07	GROSS BETA	3.404+/-	0.756
07-FEB-07	I-131 (CHEM)	<	0.471
07-MAR-07	MN-54	<	1.600
07-MAR-07	CO-58	<	3.100
07-MAR-07	FE-59	<	4.500
07-MAR-07	CO-60	<	1.400
07-MAR-07	ZN-65	<	3.700
07-MAR-07	ZR-NB-95	<	2.400
07-MAR-07	CS-134	<	2.900
07-MAR-07	CS-137	<	3.500
07-MAR-07	BA-LA-140	<	2.800
07-MAR-07	GROSS BETA	2.934+/-	0.673
07-MAR-07	I-131 (CHEM)	<	0.433
04-APR-07	MN-54	<	3.100
04-APR-07	CO-58	<	2.500
04-APR-07	FE-59	<	4.300
04-APR-07	CO-60	<	1.200
04-APR-07	ZN-65	<	4.300
04-APR-07	ZR-NB-95	<	3.600
04-APR-07	CS-134	<	2.400
04-APR-07	CS-137	<	2.800
04-APR-07	BA-LA-140	<	3.500
04-APR-07	GROSS BETA	2.939+/-	0.399
04-APR-07	I-131 (CHEM)	<	0.370
02-MAY-07	MN-54	<	2.300
02-MAY-07	CO-58	<	1.600
02-MAY-07	FE-59	<	6.000
02-MAY-07	CO-60	<	2.500
02-MAY-07	ZN-65	<	3.000
02-MAY-07	ZR-NB-95	<	3.200
02-MAY-07	CS-134	<	3.500
02-MAY-07	CS-137	<	2.600

Exposure Pathway - Waterborne
Drinking Water

Location IO-DW

Collection Date	Nuclide	Concentration (pCi/Liter)	Duplicate Analysis
02-MAY-07	BA-LA-140	<	4.400
02-MAY-07	GROSS BETA	2.333+/-	0.626
02-MAY-07	I-131 (CHEM)	<	0.437
06-JUN-07	MN-54	<	3.100
06-JUN-07	CO-58	<	3.100
06-JUN-07	FE-59	<	7.100
06-JUN-07	CO-60	<	3.500
06-JUN-07	ZN-65	<	2.000
06-JUN-07	ZR-NB-95	<	3.200
06-JUN-07	CS-134	<	3.500
06-JUN-07	CS-137	<	2.600
06-JUN-07	BA-LA-140	<	5.700
06-JUN-07	GROSS BETA	3.612+/-	0.747
06-JUN-07	I-131 (CHEM)	<	0.368
03-JUL-07	MN-54	<	2.700
03-JUL-07	CO-58	<	1.600
03-JUL-07	FE-59	<	4.600
03-JUL-07	CO-60	<	2.500
03-JUL-07	ZN-65	<	5.500
03-JUL-07	ZR-NB-95	<	3.700
03-JUL-07	CS-134	<	3.200
03-JUL-07	CS-137	<	3.100
03-JUL-07	BA-LA-140	<	2.400
03-JUL-07	GROSS BETA	2.956+/-	0.525
03-JUL-07	I-131 (CHEM)	<	0.407
01-AUG-07	MN-54	<	1.500
01-AUG-07	CO-58	<	3.000
01-AUG-07	FE-59	<	5.400
01-AUG-07	CO-60	<	2.200
01-AUG-07	ZN-65	<	2.600
01-AUG-07	ZR-NB-95	<	3.500
01-AUG-07	CS-134	<	3.200
01-AUG-07	CS-137	<	3.400
01-AUG-07	BA-LA-140	<	2.200
01-AUG-07	GROSS BETA	2.908+/-	0.989
01-AUG-07	I-131 (CHEM)	<	0.224
06-SEP-07	MN-54	<	2.600
06-SEP-07	CO-58	<	3.000
06-SEP-07	FE-59	<	3.800
06-SEP-07	CO-60	<	4.100
06-SEP-07	ZN-65	<	4.000

Exposure Pathway - Waterborne
Drinking Water

Location IO-DW

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
06-SEP-07	ZR-NB-95	<	4.700	
06-SEP-07	CS-134	<	4.100	
06-SEP-07	CS-137	<	3.500	
06-SEP-07	BA-LA-140	<	7.800	
06-SEP-07	GROSS BETA	3.081+/-	0.703	
06-SEP-07	I-131 (CHEM)	<	0.632	
03-OCT-07	MN-54	<	4.100	
03-OCT-07	CO-58	<	3.000	
03-OCT-07	FE-59	<	7.100	
03-OCT-07	CO-60	<	4.500	
03-OCT-07	ZN-65	<	4.000	
03-OCT-07	ZR-NB-95	<	5.400	
03-OCT-07	CS-134	<	3.300	
03-OCT-07	CS-137	<	3.100	
03-OCT-07	BA-LA-140	<	8.100	
03-OCT-07	GROSS BETA	4.378+/-	0.791	
03-OCT-07	I-131 (CHEM)	<	0.277	
01-NOV-07	MN-54	<	2.800	
01-NOV-07	CO-58	<	3.100	
01-NOV-07	FE-59	<	4.600	
01-NOV-07	CO-60	<	4.300	
01-NOV-07	ZN-65	<	3.600	
01-NOV-07	ZR-NB-95	<	4.000	
01-NOV-07	CS-134	<	2.400	
01-NOV-07	CS-137	<	5.300	
01-NOV-07	BA-LA-140	<	6.500	
01-NOV-07	GROSS BETA	3.839+/-	0.765	
01-NOV-07	I-131 (CHEM)	<	0.450	
05-DEC-07	MN-54	<	1.900	
05-DEC-07	CO-58	<	1.800	
05-DEC-07	FE-59	<	3.900	
05-DEC-07	CO-60	<	1.100	
05-DEC-07	ZN-65	<	4.000	
05-DEC-07	ZR-NB-95	<	3.500	
05-DEC-07	I-131	<	0.445	
05-DEC-07	CS-134	<	2.600	
05-DEC-07	CS-137	<	3.800	
05-DEC-07	BA-LA-140	<	1.800	
05-DEC-07	GROSS BETA	3.143+/-	0.696	
03-JAN-08	MN-54	<	4.800	
03-JAN-08	CO-58	<	4.500	

Exposure Pathway - Waterborne
Drinking Water

Location IO-DW

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
03-JAN-08	FE-59	<	6.100	
03-JAN-08	CO-60	<	2.600	
03-JAN-08	ZN-65	<	6.000	
03-JAN-08	ZR-NB-95	<	5.500	
03-JAN-08	CS-134	<	3.400	
03-JAN-08	CS-137	<	6.300	
03-JAN-08	BA-LA-140	<	6.900	
03-JAN-08	GROSS BETA	2.743+/-	0.676	
03-JAN-08	I-131 (CHEM)	<	0.302	

Exposure Pathway - Waterborne
Drinking Water
Quarterly Tritium Analysis

Location BW-15

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
04-APR-07	H-3	<	186.000	
04-APR-07	H-3	<	186.000	Duplicate
03-JUL-07	H-3	<	176.000	
03-OCT-07	H-3	<	145.000	
03-JAN-08	H-3	<	182.000	

Exposure Pathway - Waterborne
Drinking Water
Quarterly Tritium Analysis

Location IO-DW

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
04-APR-07	H-3	<	186.000	
03-JUL-07	H-3	<	176.000	
03-OCT-07	H-3	<	187.000	
03-JAN-08	H-3	<	182.000	

Exposure Pathway - Waterborne
Shoreline Sediment

Location BBB

Collection Date	Nuclide	Gamma Spectrum Concentration (pCi/Kg Dry)		Duplicate Analysis
21-MAY-07	K-40	10851.000	+/- 901.200	
21-MAY-07	MN-54	<	35.700	
21-MAY-07	CO-58	<	33.100	
21-MAY-07	FE-59	<	59.200	
21-MAY-07	CO-60	<	27.200	
21-MAY-07	ZN-65	<	92.700	
21-MAY-07	CS-134	<	53.400	
21-MAY-07	CS-137	<	31.200	
30-OCT-07	K-40	12049.000	+/- 646.000	
30-OCT-07	MN-54	<	22.400	
30-OCT-07	CO-58	<	16.900	
30-OCT-07	FE-59	<	67.500	
30-OCT-07	CO-60	<	8.100	
30-OCT-07	ZN-65	<	40.300	
30-OCT-07	CS-134	<	23.100	
30-OCT-07	CS-137	<	13.500	

Exposure Pathway - Waterborne
Shoreline Sediment

Location DC

Collection Date	Nuclide	Gamma Spectrum Concentration (pCi/Kg Dry)		Duplicate Analysis
11-MAY-07	K-40	11059.000	+/- 658.700	
11-MAY-07	MN-54	<	29.200	
11-MAY-07	CO-58	<	23.800	
11-MAY-07	FE-59	<	66.500	
11-MAY-07	CO-60	<	13.600	
11-MAY-07	ZN-65	<	34.300	
11-MAY-07	CS-134	<	15.000	
11-MAY-07	CS-137	<	18.200	
26-OCT-07	K-40	11518.000	+/- 666.600	
26-OCT-07	MN-54	<	22.900	
26-OCT-07	CO-58	<	30.600	
26-OCT-07	FE-59	<	64.600	
26-OCT-07	CO-60	<	9.600	
26-OCT-07	ZN-65	<	41.800	
26-OCT-07	CS-134	<	19.700	
26-OCT-07	CS-137	<	23.400	

Exposure Pathway - Waterborne
Shoreline Sediment

Location JRR

Collection Date	Nuclide	Gamma Spectrum Concentration (pCi/Kg Dry)		Duplicate Analysis
07-JUN-07	K-40	12087.000	+/-	915.400
07-JUN-07	MN-54	<		26.600
07-JUN-07	CO-58	<		33.100
07-JUN-07	FE-59	<		72.100
07-JUN-07	CO-60	<		29.300
07-JUN-07	ZN-65	<		61.600
07-JUN-07	CS-134	<		46.900
07-JUN-07	CS-137	108.200	+/-	43.300
09-NOV-07	K-40	11685.000	+/-	632.800
09-NOV-07	MN-54	<		24.400
09-NOV-07	CO-58	<		18.900
09-NOV-07	FE-59	<		54.600
09-NOV-07	CO-60	<		19.900
09-NOV-07	ZN-65	<		48.200
09-NOV-07	CS-134	<		19.300
09-NOV-07	CS-137	<		19.300

Exposure Pathway - Waterborne
Shoreline Sediment

Location SC

Collection Date	Nuclide	Gamma Spectrum Concentration (pCi/Kg Dry)		Duplicate Analysis
27-JUN-07	K-40	12250.000	+/- 823.400	
27-JUN-07	MN-54	<	35.500	
27-JUN-07	CO-58	<	40.700	
27-JUN-07	FE-59	<	93.400	
27-JUN-07	CO-60	<	11.500	
27-JUN-07	ZN-65	<	105.100	
27-JUN-07	CS-134	<	53.500	
27-JUN-07	CS-137	<	33.600	

Exposure Pathway - Ingestion
Fish

Location CCL

Collection Date	Sample Description	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Kg Wet)		Duplicate Analysis
11-MAY-07	COMMON CARP	K-40	2741.800	+/- 370.800	
11-MAY-07	COMMON CARP	MN-54	<	9.700	
11-MAY-07	COMMON CARP	CO-58	<	8.300	
11-MAY-07	COMMON CARP	FE-59	<	17.300	
11-MAY-07	COMMON CARP	CO-60	<	9.200	
11-MAY-07	COMMON CARP	ZN-65	<	39.000	
11-MAY-07	COMMON CARP	CS-134	<	11.200	
11-MAY-07	COMMON CARP	CS-137	<	12.300	
11-MAY-07	COMMON CARP	H-3	7266.000	+/- 208.000	
11-MAY-07	SMALLMOUTH BASS	K-40	3428.800	+/- 472.300	
11-MAY-07	SMALLMOUTH BASS	MN-54	<	15.900	
11-MAY-07	SMALLMOUTH BASS	CO-58	<	13.400	
11-MAY-07	SMALLMOUTH BASS	FE-59	<	27.500	
11-MAY-07	SMALLMOUTH BASS	CO-60	<	16.300	
11-MAY-07	SMALLMOUTH BASS	ZN-65	<	39.600	
11-MAY-07	SMALLMOUTH BASS	CS-134	<	22.100	
11-MAY-07	SMALLMOUTH BASS	CS-137	<	22.000	
11-MAY-07	SMALLMOUTH BASS	H-3	6022.000	+/- 193.000	
11-MAY-07	SMALLMOUTH BUFFALO	K-40	2759.600	+/- 416.100	
11-MAY-07	SMALLMOUTH BUFFALO	MN-54	<	13.100	
11-MAY-07	SMALLMOUTH BUFFALO	CO-58	<	12.200	
11-MAY-07	SMALLMOUTH BUFFALO	FE-59	<	24.200	
11-MAY-07	SMALLMOUTH BUFFALO	CO-60	<	15.000	
11-MAY-07	SMALLMOUTH BUFFALO	ZN-65	<	26.300	
11-MAY-07	SMALLMOUTH BUFFALO	CS-134	<	17.700	
11-MAY-07	SMALLMOUTH BUFFALO	CS-137	<	11.300	
11-MAY-07	SMALLMOUTH BUFFALO	H-3	5505.000	+/- 178.000	
11-MAY-07	WHITE BASS	K-40	3286.500	+/- 474.000	
11-MAY-07	WHITE BASS	MN-54	<	20.000	
11-MAY-07	WHITE BASS	CO-58	<	8.600	
11-MAY-07	WHITE BASS	FE-59	<	21.800	
11-MAY-07	WHITE BASS	CO-60	<	15.000	
11-MAY-07	WHITE BASS	ZN-65	<	20.700	
11-MAY-07	WHITE BASS	CS-134	<	21.200	
11-MAY-07	WHITE BASS	CS-137	<	16.300	
11-MAY-07	WHITE BASS	H-3	5917.000	+/- 206.000	
19-OCT-07	SMALLMOUTH BUFFALO	K-40	3027.700	+/- 597.800	
19-OCT-07	SMALLMOUTH BUFFALO	MN-54	<	13.900	
19-OCT-07	SMALLMOUTH BUFFALO	CO-58	<	17.800	
19-OCT-07	SMALLMOUTH BUFFALO	FE-59	<	25.200	
19-OCT-07	SMALLMOUTH BUFFALO	CO-60	<	16.900	

Exposure Pathway - Ingestion
Fish

Location CCL

Collection Date	Sample Description	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Kg Wet)		Duplicate Analysis
19-OCT-07	SMALLMOUTH BUFFALO	ZN-65	<	31.200	
19-OCT-07	SMALLMOUTH BUFFALO	CS-134	<	15.400	
19-OCT-07	SMALLMOUTH BUFFALO	CS-137	<	23.800	
19-OCT-07	SMALLMOUTH BUFFALO	H-3	6521.000+/-	209.000	
19-OCT-07	WIPER	K-40	3077.800+/-	521.700	
19-OCT-07	WIPER	MN-54	<	28.800	
19-OCT-07	WIPER	CO-58	<	11.400	
19-OCT-07	WIPER	FE-59	<	38.100	
19-OCT-07	WIPER	CO-60	<	20.100	
19-OCT-07	WIPER	ZN-65	<	20.300	
19-OCT-07	WIPER	CS-134	<	19.500	
19-OCT-07	WIPER	CS-137	<	15.700	
19-OCT-07	WIPER	H-3	6848.000+/-	214.000	
24-OCT-07	CHANNEL CATFISH	K-40	2868.500+/-	465.800	
24-OCT-07	CHANNEL CATFISH	MN-54	<	16.600	
24-OCT-07	CHANNEL CATFISH	CO-58	<	8.500	
24-OCT-07	CHANNEL CATFISH	FE-59	<	30.600	
24-OCT-07	CHANNEL CATFISH	CO-60	<	9.200	
24-OCT-07	CHANNEL CATFISH	ZN-65	<	23.400	
24-OCT-07	CHANNEL CATFISH	CS-134	<	16.900	
24-OCT-07	CHANNEL CATFISH	CS-137	<	17.400	
24-OCT-07	CHANNEL CATFISH	H-3	7194.000+/-	228.000	
24-OCT-07	COMMON CARP	K-40	2539.300+/-	353.000	
24-OCT-07	COMMON CARP	MN-54	<	9.300	
24-OCT-07	COMMON CARP	CO-58	<	11.900	
24-OCT-07	COMMON CARP	FE-59	<	33.800	
24-OCT-07	COMMON CARP	CO-60	<	4.600	
24-OCT-07	COMMON CARP	ZN-65	<	21.400	
24-OCT-07	COMMON CARP	CS-134	<	7.400	
24-OCT-07	COMMON CARP	CS-137	<	8.200	
24-OCT-07	COMMON CARP	H-3	6756.000+/-	216.000	
24-OCT-07	FLATHEAD CATFISH	K-40	2302.900+/-	340.700	
24-OCT-07	FLATHEAD CATFISH	MN-54	<	9.400	
24-OCT-07	FLATHEAD CATFISH	CO-58	<	10.100	
24-OCT-07	FLATHEAD CATFISH	FE-59	<	19.200	
24-OCT-07	FLATHEAD CATFISH	CO-60	<	7.200	
24-OCT-07	FLATHEAD CATFISH	ZN-65	<	8.800	
24-OCT-07	FLATHEAD CATFISH	CS-134	<	8.400	
24-OCT-07	FLATHEAD CATFISH	CS-137	<	14.400	
24-OCT-07	FLATHEAD CATFISH	H-3	5788.000+/-	199.000	
24-OCT-07	WALLEYE	K-40	3158.900+/-	482.500	Duplicate

Exposure Pathway - Ingestion
Fish

Location CCL

Collection Date	Sample Description	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Kg Wet)		Duplicate Analysis
24-OCT-07	WALLEYE	K-40	3134.300+/-	514.300	
24-OCT-07	WALLEYE	MN-54	<	20.500	Duplicate
24-OCT-07	WALLEYE	MN-54	<	15.900	
24-OCT-07	WALLEYE	CO-58	<	19.800	Duplicate
24-OCT-07	WALLEYE	CO-58	<	10.700	
24-OCT-07	WALLEYE	FE-59	<	32.000	Duplicate
24-OCT-07	WALLEYE	FE-59	<	27.000	
24-OCT-07	WALLEYE	CO-60	<	18.500	Duplicate
24-OCT-07	WALLEYE	CO-60	<	10.500	
24-OCT-07	WALLEYE	ZN-65	<	49.000	Duplicate
24-OCT-07	WALLEYE	ZN-65	<	26.100	
24-OCT-07	WALLEYE	CS-134	<	11.100	Duplicate
24-OCT-07	WALLEYE	CS-134	<	8.300	
24-OCT-07	WALLEYE	CS-137	<	19.300	Duplicate
24-OCT-07	WALLEYE	CS-137	<	11.700	
24-OCT-07	WALLEYE	H-3	7235.000+/-	223.000	Duplicate
24-OCT-07	WALLEYE	H-3	6828.000+/-	217.000	
24-OCT-07	WHITE CRAPPIE	K-40	2660.500+/-	499.000	
24-OCT-07	WHITE CRAPPIE	MN-54	<	17.000	
24-OCT-07	WHITE CRAPPIE	CO-58	<	6.100	
24-OCT-07	WHITE CRAPPIE	FE-59	<	24.500	
24-OCT-07	WHITE CRAPPIE	CO-60	<	15.500	
24-OCT-07	WHITE CRAPPIE	ZN-65	<	27.300	
24-OCT-07	WHITE CRAPPIE	CS-134	<	13.000	
24-OCT-07	WHITE CRAPPIE	CS-137	<	15.100	
24-OCT-07	WHITE CRAPPIE	H-3	6582.000+/-	208.000	

Exposure Pathway - Ingestion
Fish

Location JRR

Collection Date	Sample Description	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Kg Wet)		Duplicate Analysis
01-JUN-07	CHANNEL CATFISH	K-40	2997.000+/-	381.300	
01-JUN-07	CHANNEL CATFISH	MN-54	<	14.800	
01-JUN-07	CHANNEL CATFISH	CO-58	<	12.600	
01-JUN-07	CHANNEL CATFISH	FE-59	<	26.400	
01-JUN-07	CHANNEL CATFISH	CO-60	<	15.200	
01-JUN-07	CHANNEL CATFISH	ZN-65	<	13.700	
01-JUN-07	CHANNEL CATFISH	CS-134	<	10.800	
01-JUN-07	CHANNEL CATFISH	CS-137	<	11.600	
01-JUN-07	CHANNEL CATFISH	H-3	<	140.000	
01-JUN-07	COMMON CARP	K-40	3681.500+/-	449.600	
01-JUN-07	COMMON CARP	MN-54	<	10.900	
01-JUN-07	COMMON CARP	CO-58	<	11.600	
01-JUN-07	COMMON CARP	FE-59	<	18.100	
01-JUN-07	COMMON CARP	CO-60	<	20.000	
01-JUN-07	COMMON CARP	ZN-65	<	17.800	
01-JUN-07	COMMON CARP	CS-134	<	9.800	
01-JUN-07	COMMON CARP	CS-137	<	12.500	
01-JUN-07	COMMON CARP	H-3	<	134.000	
01-JUN-07	LARGEMOUTH BASS	K-40	3511.600+/-	536.000	
01-JUN-07	LARGEMOUTH BASS	MN-54	<	11.500	
01-JUN-07	LARGEMOUTH BASS	CO-58	<	12.600	
01-JUN-07	LARGEMOUTH BASS	FE-59	<	33.200	
01-JUN-07	LARGEMOUTH BASS	CO-60	<	24.000	
01-JUN-07	LARGEMOUTH BASS	ZN-65	<	24.000	
01-JUN-07	LARGEMOUTH BASS	CS-134	<	17.800	
01-JUN-07	LARGEMOUTH BASS	CS-137	<	15.900	
01-JUN-07	LARGEMOUTH BASS	H-3	<	140.000	
09-NOV-07	CHANNEL CATFISH	K-40	3077.000+/-	459.900	
09-NOV-07	CHANNEL CATFISH	MN-54	<	18.100	
09-NOV-07	CHANNEL CATFISH	CO-58	<	22.000	
09-NOV-07	CHANNEL CATFISH	FE-59	<	60.800	
09-NOV-07	CHANNEL CATFISH	CO-60	<	16.200	
09-NOV-07	CHANNEL CATFISH	ZN-65	<	20.800	
09-NOV-07	CHANNEL CATFISH	CS-134	<	15.300	
09-NOV-07	CHANNEL CATFISH	CS-137	<	12.800	
09-NOV-07	CHANNEL CATFISH	H-3	<	132.000	
09-NOV-07	COMMON CARP	K-40	2889.000+/-	311.000	
09-NOV-07	COMMON CARP	MN-54	<	5.600	
09-NOV-07	COMMON CARP	CO-58	<	12.900	
09-NOV-07	COMMON CARP	FE-59	<	35.500	
09-NOV-07	COMMON CARP	CO-60	<	13.300	

Exposure Pathway - Ingestion
Fish

Location JRR

Collection Date	Sample Description	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Kg Wet)		Duplicate Analysis
09-NOV-07	COMMON CARP	ZN-65	<	14.600	
09-NOV-07	COMMON CARP	CS-134	<	10.500	
09-NOV-07	COMMON CARP	CS-137	<	13.300	
09-NOV-07	COMMON CARP	H-3	<	153.000	
09-NOV-07	SMALLMOUTH BUFFALO	K-40	2890.400+/-	319.300	
09-NOV-07	SMALLMOUTH BUFFALO	MN-54	<	11.600	
09-NOV-07	SMALLMOUTH BUFFALO	CO-58	<	18.300	
09-NOV-07	SMALLMOUTH BUFFALO	FE-59	<	29.900	
09-NOV-07	SMALLMOUTH BUFFALO	CO-60	<	7.400	
09-NOV-07	SMALLMOUTH BUFFALO	ZN-65	<	15.900	
09-NOV-07	SMALLMOUTH BUFFALO	CS-134	<	9.800	
09-NOV-07	SMALLMOUTH BUFFALO	CS-137	<	13.400	
09-NOV-07	SMALLMOUTH BUFFALO	H-3	<	129.000	

Exposure Pathway - Ingestion
Food/Garden

Location C-2

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)		Duplicate Analysis
11-JUL-07	HORSERADISH LEAVES	BE-7	769.700	+/- 280.000	
11-JUL-07	HORSERADISH LEAVES	K-40	4825.600	+/- 559.000	
11-JUL-07	HORSERADISH LEAVES	MN-54	<	20.200	
11-JUL-07	HORSERADISH LEAVES	CO-58	<	15.000	
11-JUL-07	HORSERADISH LEAVES	FE-59	<	23.000	
11-JUL-07	HORSERADISH LEAVES	CO-60	<	28.500	
11-JUL-07	HORSERADISH LEAVES	ZN-65	<	22.400	
11-JUL-07	HORSERADISH LEAVES	ZR-NB-95	<	22.300	
11-JUL-07	HORSERADISH LEAVES	I-131	<	24.400	
11-JUL-07	HORSERADISH LEAVES	CS-134	<	14.200	
11-JUL-07	HORSERADISH LEAVES	CS-137	<	16.400	

Exposure Pathway - Ingestion
Food/Garden

Location D-2

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)		Duplicate Analysis
28-MAR-07	HORSERADISH LEAVES	BE-7	752.800	+/- 434.500	
28-MAR-07	HORSERADISH LEAVES	K-40	8653.100	+/- 958.200	
28-MAR-07	HORSERADISH LEAVES	MN-54	<	31.700	
28-MAR-07	HORSERADISH LEAVES	CO-58	<	32.000	
28-MAR-07	HORSERADISH LEAVES	FE-59	<	42.900	
28-MAR-07	HORSERADISH LEAVES	CO-60	<	38.700	
28-MAR-07	HORSERADISH LEAVES	ZN-65	<	54.300	
28-MAR-07	HORSERADISH LEAVES	ZR-NB-95	<	46.100	
28-MAR-07	HORSERADISH LEAVES	I-131	<	47.200	
28-MAR-07	HORSERADISH LEAVES	CS-134	<	40.900	
28-MAR-07	HORSERADISH LEAVES	CS-137	<	33.500	
25-APR-07	HORSERADISH LEAVES	BE-7	<	200.200	
25-APR-07	HORSERADISH LEAVES	K-40	4595.700	+/- 428.400	
25-APR-07	HORSERADISH LEAVES	MN-54	<	16.200	
25-APR-07	HORSERADISH LEAVES	CO-58	<	14.000	
25-APR-07	HORSERADISH LEAVES	FE-59	<	34.500	
25-APR-07	HORSERADISH LEAVES	CO-60	<	17.100	
25-APR-07	HORSERADISH LEAVES	ZN-65	<	33.100	
25-APR-07	HORSERADISH LEAVES	ZR-NB-95	<	15.400	
25-APR-07	HORSERADISH LEAVES	I-131	<	33.800	
25-APR-07	HORSERADISH LEAVES	CS-134	<	15.100	
25-APR-07	HORSERADISH LEAVES	CS-137	<	11.000	
17-MAY-07	HORSERADISH LEAVES	BE-7	<	277.900	
17-MAY-07	HORSERADISH LEAVES	K-40	3900.000	+/- 482.200	
17-MAY-07	HORSERADISH LEAVES	MN-54	<	12.700	
17-MAY-07	HORSERADISH LEAVES	CO-58	<	9.400	
17-MAY-07	HORSERADISH LEAVES	FE-59	<	16.800	
17-MAY-07	HORSERADISH LEAVES	CO-60	<	15.700	
17-MAY-07	HORSERADISH LEAVES	ZN-65	<	31.200	
17-MAY-07	HORSERADISH LEAVES	ZR-NB-95	<	16.800	
17-MAY-07	HORSERADISH LEAVES	I-131	<	40.100	
17-MAY-07	HORSERADISH LEAVES	CS-134	<	16.000	
17-MAY-07	HORSERADISH LEAVES	CS-137	<	20.400	
13-JUN-07	HORSERADISH LEAVES	BE-7	973.800	+/- 252.800	
13-JUN-07	HORSERADISH LEAVES	K-40	5535.300	+/- 601.500	
13-JUN-07	HORSERADISH LEAVES	MN-54	<	19.200	
13-JUN-07	HORSERADISH LEAVES	CO-58	<	10.500	
13-JUN-07	HORSERADISH LEAVES	FE-59	<	22.600	
13-JUN-07	HORSERADISH LEAVES	CO-60	<	12.500	
13-JUN-07	HORSERADISH LEAVES	ZN-65	<	32.500	
13-JUN-07	HORSERADISH LEAVES	ZR-NB-95	<	20.300	

Exposure Pathway - Ingestion
Food/Garden

Location D-2

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)	Duplicate Analysis
13-JUN-07	HORSERADISH LEAVES	I-131	< 25.000	
13-JUN-07	HORSERADISH LEAVES	CS-134	< 16.500	
13-JUN-07	HORSERADISH LEAVES	CS-137	< 15.300	
11-JUL-07	HORSERADISH LEAVES	BE-7	< 192.400	
11-JUL-07	HORSERADISH LEAVES	K-40	4460.800 +/- 502.300	
11-JUL-07	HORSERADISH LEAVES	MN-54	< 17.400	
11-JUL-07	HORSERADISH LEAVES	CO-58	< 11.700	
11-JUL-07	HORSERADISH LEAVES	FE-59	< 29.100	
11-JUL-07	HORSERADISH LEAVES	CO-60	< 16.200	
11-JUL-07	HORSERADISH LEAVES	ZN-65	< 24.900	
11-JUL-07	HORSERADISH LEAVES	ZR-NB-95	< 18.500	
11-JUL-07	HORSERADISH LEAVES	I-131	< 24.200	
11-JUL-07	HORSERADISH LEAVES	CS-134	< 15.500	
11-JUL-07	HORSERADISH LEAVES	CS-137	< 13.500	
22-AUG-07	HORSERADISH LEAVES	BE-7	472.300 +/- 209.600	
22-AUG-07	HORSERADISH LEAVES	K-40	6871.600 +/- 591.700	
22-AUG-07	HORSERADISH LEAVES	MN-54	< 19.500	
22-AUG-07	HORSERADISH LEAVES	CO-58	< 17.500	
22-AUG-07	HORSERADISH LEAVES	FE-59	< 20.100	
22-AUG-07	HORSERADISH LEAVES	CO-60	< 15.900	
22-AUG-07	HORSERADISH LEAVES	ZN-65	< 28.300	
22-AUG-07	HORSERADISH LEAVES	ZR-NB-95	< 16.100	
22-AUG-07	HORSERADISH LEAVES	I-131	< 18.400	
22-AUG-07	HORSERADISH LEAVES	CS-134	< 12.300	
22-AUG-07	HORSERADISH LEAVES	CS-137	< 17.700	
12-SEP-07	HORSERADISH LEAVES	BE-7	932.200 +/- 240.400	
12-SEP-07	HORSERADISH LEAVES	K-40	6336.000 +/- 694.200	
12-SEP-07	HORSERADISH LEAVES	MN-54	< 25.800	
12-SEP-07	HORSERADISH LEAVES	CO-58	< 14.400	
12-SEP-07	HORSERADISH LEAVES	FE-59	< 30.200	
12-SEP-07	HORSERADISH LEAVES	CO-60	< 24.200	
12-SEP-07	HORSERADISH LEAVES	ZN-65	< 42.200	
12-SEP-07	HORSERADISH LEAVES	ZR-NB-95	< 21.900	
12-SEP-07	HORSERADISH LEAVES	I-131	< 30.700	
12-SEP-07	HORSERADISH LEAVES	CS-134	< 18.600	
12-SEP-07	HORSERADISH LEAVES	CS-137	< 27.900	
19-OCT-07	HORSERADISH LEAVES	BE-7	755.800 +/- 171.100	
19-OCT-07	HORSERADISH LEAVES	K-40	5812.700 +/- 518.800	
19-OCT-07	HORSERADISH LEAVES	MN-54	< 16.400	
19-OCT-07	HORSERADISH LEAVES	CO-58	< 13.200	
19-OCT-07	HORSERADISH LEAVES	FE-59	< 20.200	

Exposure Pathway - Ingestion
Food/Garden

Location D-2

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)		Duplicate Analysis
19-OCT-07	HORSERADISH LEAVES	CO-60	<	18.400	
19-OCT-07	HORSERADISH LEAVES	ZN-65	<	32.100	
19-OCT-07	HORSERADISH LEAVES	ZR-NB-95	<	22.800	
19-OCT-07	HORSERADISH LEAVES	I-131	<	25.300	
19-OCT-07	HORSERADISH LEAVES	CS-134	<	12.300	
19-OCT-07	HORSERADISH LEAVES	CS-137	<	18.500	
20-NOV-07	HORSEREDISH LEAVES	BE-7	567.400 +/-	153.300	
20-NOV-07	HORSEREDISH LEAVES	K-40	5534.200 +/-	409.300	
20-NOV-07	HORSEREDISH LEAVES	MN-54	<	11.800	
20-NOV-07	HORSEREDISH LEAVES	CO-58	<	11.800	
20-NOV-07	HORSEREDISH LEAVES	FE-59	<	28.400	
20-NOV-07	HORSEREDISH LEAVES	CO-60	<	12.100	
20-NOV-07	HORSEREDISH LEAVES	ZN-65	<	30.000	
20-NOV-07	HORSEREDISH LEAVES	ZR-NB-95	<	18.200	
20-NOV-07	HORSEREDISH LEAVES	I-131	<	34.000	
20-NOV-07	HORSEREDISH LEAVES	CS-134	<	15.300	
20-NOV-07	HORSEREDISH LEAVES	CS-137	<	11.500	

Exposure Pathway - Ingestion
Food/Garden

Location N-1

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)		Duplicate Analysis
28-MAR-07	HORSERADISH LEAVES	BE-7	<	155.200	
28-MAR-07	HORSERADISH LEAVES	K-40	2660.000 +/-	378.300	
28-MAR-07	HORSERADISH LEAVES	MN-54	<	9.700	
28-MAR-07	HORSERADISH LEAVES	CO-58	<	14.000	
28-MAR-07	HORSERADISH LEAVES	FE-59	<	31.200	
28-MAR-07	HORSERADISH LEAVES	CO-60	<	10.900	
28-MAR-07	HORSERADISH LEAVES	ZN-65	<	25.300	
28-MAR-07	HORSERADISH LEAVES	ZR-NB-95	<	8.000	
28-MAR-07	HORSERADISH LEAVES	I-131	<	13.300	
28-MAR-07	HORSERADISH LEAVES	CS-134	<	16.200	
28-MAR-07	HORSERADISH LEAVES	CS-137	<	12.500	
25-APR-07	HORSERADISH LEAVES	BE-7	<	147.500	
25-APR-07	HORSERADISH LEAVES	K-40	3063.300 +/-	332.800	
25-APR-07	HORSERADISH LEAVES	MN-54	<	9.500	
25-APR-07	HORSERADISH LEAVES	CO-58	<	12.000	
25-APR-07	HORSERADISH LEAVES	FE-59	<	14.800	
25-APR-07	HORSERADISH LEAVES	CO-60	<	11.500	
25-APR-07	HORSERADISH LEAVES	ZN-65	<	16.500	
25-APR-07	HORSERADISH LEAVES	ZR-NB-95	<	15.300	
25-APR-07	HORSERADISH LEAVES	I-131	<	19.200	
25-APR-07	HORSERADISH LEAVES	CS-134	<	10.500	
25-APR-07	HORSERADISH LEAVES	CS-137	<	12.000	
17-MAY-07	HORSERADISH LEAVES	BE-7	401.300 +/-	193.000	
17-MAY-07	HORSERADISH LEAVES	K-40	3517.300 +/-	398.500	
17-MAY-07	HORSERADISH LEAVES	MN-54	<	7.400	
17-MAY-07	HORSERADISH LEAVES	CO-58	<	13.300	
17-MAY-07	HORSERADISH LEAVES	FE-59	<	29.500	
17-MAY-07	HORSERADISH LEAVES	CO-60	<	17.200	
17-MAY-07	HORSERADISH LEAVES	ZN-65	<	23.200	
17-MAY-07	HORSERADISH LEAVES	ZR-NB-95	<	9.000	
17-MAY-07	HORSERADISH LEAVES	I-131	<	26.600	
17-MAY-07	HORSERADISH LEAVES	CS-134	<	12.300	
17-MAY-07	HORSERADISH LEAVES	CS-137	<	19.400	
13-JUN-07	HORSERADISH LEAVES	BE-7	858.100 +/-	229.800	
13-JUN-07	HORSERADISH LEAVES	K-40	2787.300 +/-	439.700	
13-JUN-07	HORSERADISH LEAVES	MN-54	<	20.900	
13-JUN-07	HORSERADISH LEAVES	CO-58	<	16.200	
13-JUN-07	HORSERADISH LEAVES	FE-59	<	22.800	
13-JUN-07	HORSERADISH LEAVES	CO-60	<	11.600	
13-JUN-07	HORSERADISH LEAVES	ZN-65	<	37.600	
13-JUN-07	HORSERADISH LEAVES	ZR-NB-95	<	11.800	

Exposure Pathway - Ingestion
Food/Garden

Location N-1

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)			Duplicate Analysis
13-JUN-07	HORSERADISH LEAVES	I-131		<	32.700	
13-JUN-07	HORSERADISH LEAVES	CS-134		<	16.400	
13-JUN-07	HORSERADISH LEAVES	CS-137		<	19.300	
11-JUL-07	HORSERADISH LEAVES	BE-7		<	207.500	Duplicate
11-JUL-07	HORSERADISH LEAVES	BE-7		<	179.800	
11-JUL-07	HORSERADISH LEAVES	K-40	3119.800	+/-	462.100	Duplicate
11-JUL-07	HORSERADISH LEAVES	K-40	3402.100	+/-	460.800	
11-JUL-07	HORSERADISH LEAVES	MN-54		<	14.100	Duplicate
11-JUL-07	HORSERADISH LEAVES	MN-54		<	13.800	
11-JUL-07	HORSERADISH LEAVES	CO-58		<	9.400	Duplicate
11-JUL-07	HORSERADISH LEAVES	CO-58		<	16.600	
11-JUL-07	HORSERADISH LEAVES	FE-59		<	40.700	Duplicate
11-JUL-07	HORSERADISH LEAVES	FE-59		<	40.800	
11-JUL-07	HORSERADISH LEAVES	CO-60		<	11.600	Duplicate
11-JUL-07	HORSERADISH LEAVES	CO-60		<	18.900	
11-JUL-07	HORSERADISH LEAVES	ZN-65		<	33.300	Duplicate
11-JUL-07	HORSERADISH LEAVES	ZN-65		<	43.300	
11-JUL-07	HORSERADISH LEAVES	ZR-NB-95		<	15.000	Duplicate
11-JUL-07	HORSERADISH LEAVES	ZR-NB-95		<	16.200	
11-JUL-07	HORSERADISH LEAVES	I-131		<	26.400	Duplicate
11-JUL-07	HORSERADISH LEAVES	I-131		<	29.700	
11-JUL-07	HORSERADISH LEAVES	CS-134		<	20.000	Duplicate
11-JUL-07	HORSERADISH LEAVES	CS-134		<	14.600	
11-JUL-07	HORSERADISH LEAVES	CS-137		<	16.200	Duplicate
11-JUL-07	HORSERADISH LEAVES	CS-137		<	13.600	
22-AUG-07	HORSERADISH LEAVES	BE-7	365.300	+/-	200.800	
22-AUG-07	HORSERADISH LEAVES	K-40	3373.000	+/-	433.000	
22-AUG-07	HORSERADISH LEAVES	MN-54		<	14.000	
22-AUG-07	HORSERADISH LEAVES	CO-58		<	13.900	
22-AUG-07	HORSERADISH LEAVES	FE-59		<	25.100	
22-AUG-07	HORSERADISH LEAVES	CO-60		<	9.800	
22-AUG-07	HORSERADISH LEAVES	ZN-65		<	25.400	
22-AUG-07	HORSERADISH LEAVES	ZR-NB-95		<	15.800	
22-AUG-07	HORSERADISH LEAVES	I-131		<	20.800	
22-AUG-07	HORSERADISH LEAVES	CS-134		<	11.300	
22-AUG-07	HORSERADISH LEAVES	CS-137		<	11.700	
19-OCT-07	PEPPER PLANT LEAVES	BE-7	1610.000	+/-	452.800	
19-OCT-07	PEPPER PLANT LEAVES	K-40	8183.200	+/-	702.000	
19-OCT-07	PEPPER PLANT LEAVES	MN-54		<	18.000	
19-OCT-07	PEPPER PLANT LEAVES	CO-58		<	15.300	
19-OCT-07	PEPPER PLANT LEAVES	FE-59		<	39.000	

Exposure Pathway - Ingestion
Food/Garden

Location N-1

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)		Duplicate Analysis
19-OCT-07	PEPPER PLANT LEAVES	CO-60	<	14.500	
19-OCT-07	PEPPER PLANT LEAVES	ZN-65	<	46.800	
19-OCT-07	PEPPER PLANT LEAVES	ZR-NB-95	<	27.600	
19-OCT-07	PEPPER PLANT LEAVES	I-131	<	45.800	
19-OCT-07	PEPPER PLANT LEAVES	CS-134	<	25.800	
19-OCT-07	PEPPER PLANT LEAVES	CS-137	<	23.900	
20-NOV-07	HORSEREDISH LEAVES	BE-7	<	143.400	
20-NOV-07	HORSEREDISH LEAVES	K-40	2908.100 +/-	310.000	
20-NOV-07	HORSEREDISH LEAVES	MN-54	<	7.300	
20-NOV-07	HORSEREDISH LEAVES	CO-58	<	11.400	
20-NOV-07	HORSEREDISH LEAVES	FE-59	<	29.200	
20-NOV-07	HORSEREDISH LEAVES	CO-60	<	6.200	
20-NOV-07	HORSEREDISH LEAVES	ZN-65	<	13.000	
20-NOV-07	HORSEREDISH LEAVES	ZR-NB-95	<	9.100	
20-NOV-07	HORSEREDISH LEAVES	I-131	<	24.900	
20-NOV-07	HORSEREDISH LEAVES	CS-134	<	12.400	
20-NOV-07	HORSEREDISH LEAVES	CS-137	<	11.700	

Exposure Pathway - Ingestion
Food/Garden

Location Q-6

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)		Duplicate Analysis
11-JUL-07	RHUBARB	BE-7	282.700	+/- 157.200	
11-JUL-07	RHUBARB	K-40	2495.700	+/- 381.600	
11-JUL-07	RHUBARB	MN-54	<	11.700	
11-JUL-07	RHUBARB	CO-58	<	12.200	
11-JUL-07	RHUBARB	FE-59	<	9.600	
11-JUL-07	RHUBARB	CO-60	<	13.400	
11-JUL-07	RHUBARB	ZN-65	<	18.400	
11-JUL-07	RHUBARB	ZR-NB-95	<	9.100	
11-JUL-07	RHUBARB	I-131	<	25.800	
11-JUL-07	RHUBARB	CS-134	<	16.600	
11-JUL-07	RHUBARB	CS-137	<	14.700	
22-AUG-07	BUTTERNUT SQUASH LEAVES	BE-7	2727.400	+/- 352.100	
22-AUG-07	BUTTERNUT SQUASH LEAVES	K-40	6406.400	+/- 646.200	
22-AUG-07	BUTTERNUT SQUASH LEAVES	MN-54	<	18.300	
22-AUG-07	BUTTERNUT SQUASH LEAVES	CO-58	<	11.700	
22-AUG-07	BUTTERNUT SQUASH LEAVES	FE-59	<	26.400	
22-AUG-07	BUTTERNUT SQUASH LEAVES	CO-60	<	18.900	
22-AUG-07	BUTTERNUT SQUASH LEAVES	ZN-65	<	22.800	
22-AUG-07	BUTTERNUT SQUASH LEAVES	ZR-NB-95	<	9.800	
22-AUG-07	BUTTERNUT SQUASH LEAVES	I-131	<	22.000	
22-AUG-07	BUTTERNUT SQUASH LEAVES	CS-134	<	19.500	
22-AUG-07	BUTTERNUT SQUASH LEAVES	CS-137	<	16.500	
19-OCT-07	PEPPER PLANT LEAVES	BE-7	1381.700	+/- 288.400	
19-OCT-07	PEPPER PLANT LEAVES	K-40	8289.200	+/- 653.800	
19-OCT-07	PEPPER PLANT LEAVES	MN-54	<	13.600	
19-OCT-07	PEPPER PLANT LEAVES	CO-58	<	11.300	
19-OCT-07	PEPPER PLANT LEAVES	FE-59	<	26.400	
19-OCT-07	PEPPER PLANT LEAVES	CO-60	<	20.600	
19-OCT-07	PEPPER PLANT LEAVES	ZN-65	<	60.000	
19-OCT-07	PEPPER PLANT LEAVES	ZR-NB-95	<	25.400	
19-OCT-07	PEPPER PLANT LEAVES	I-131	<	25.100	
19-OCT-07	PEPPER PLANT LEAVES	CS-134	<	17.600	
19-OCT-07	PEPPER PLANT LEAVES	CS-137	<	23.500	
20-NOV-07	KALE	BE-7	<	88.900	
20-NOV-07	KALE	K-40	3744.500	+/- 336.400	
20-NOV-07	KALE	MN-54	<	8.900	
20-NOV-07	KALE	CO-58	<	9.200	
20-NOV-07	KALE	FE-59	<	24.700	
20-NOV-07	KALE	CO-60	<	13.900	
20-NOV-07	KALE	ZN-65	<	21.400	
20-NOV-07	KALE	ZR-NB-95	<	16.400	

Exposure Pathway - Ingestion
Food/Garden

Location Q-6

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)		Duplicate Analysis
20-NOV-07	KALE	I-131	<	8.100	
20-NOV-07	KALE	CS-134	<	10.500	
20-NOV-07	KALE	CS-137	<	8.100	

Exposure Pathway - Ingestion
Feed and Forage

Location NR-D1

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)	Duplicate Analysis
10-OCT-07	IRRIGATED CORN	BE-7	< 48.800	
10-OCT-07	IRRIGATED CORN	K-40	1378.500 +/- 305.000	
10-OCT-07	IRRIGATED CORN	MN-54	< 5.800	
10-OCT-07	IRRIGATED CORN	CO-58	< 3.800	
10-OCT-07	IRRIGATED CORN	FE-59	< 10.900	
10-OCT-07	IRRIGATED CORN	CO-60	< 7.200	
10-OCT-07	IRRIGATED CORN	ZN-65	< 15.500	
10-OCT-07	IRRIGATED CORN	ZR-NB-95	< 6.600	
10-OCT-07	IRRIGATED CORN	I-131	< 9.100	
10-OCT-07	IRRIGATED CORN	CS-134	< 6.200	
10-OCT-07	IRRIGATED CORN	CS-137	< 7.300	

Exposure Pathway - Ingestion
Feed and Forage

Location NR-D2

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)	Duplicate Analysis
24-SEP-07	IRRIGATED CORN	BE-7	< 63.600	
24-SEP-07	IRRIGATED CORN	K-40	3390.300 +/- 229.900	
24-SEP-07	IRRIGATED CORN	MN-54	< 6.900	
24-SEP-07	IRRIGATED CORN	CO-58	< 7.300	
24-SEP-07	IRRIGATED CORN	FE-59	< 15.500	
24-SEP-07	IRRIGATED CORN	CO-60	< 6.000	
24-SEP-07	IRRIGATED CORN	ZN-65	< 8.500	
24-SEP-07	IRRIGATED CORN	ZR-NB-95	< 6.500	
24-SEP-07	IRRIGATED CORN	I-131	< 25.200	
24-SEP-07	IRRIGATED CORN	CS-134	< 6.000	
24-SEP-07	IRRIGATED CORN	CS-137	< 5.800	
01-NOV-07	IRRIGATED SOYBEANS	BE-7	< 115.800	
01-NOV-07	IRRIGATED SOYBEANS	K-40	14596.000 +/- 599.400	
01-NOV-07	IRRIGATED SOYBEANS	MN-54	< 6.200	
01-NOV-07	IRRIGATED SOYBEANS	CO-58	< 12.300	
01-NOV-07	IRRIGATED SOYBEANS	FE-59	< 26.300	
01-NOV-07	IRRIGATED SOYBEANS	CO-60	< 14.500	
01-NOV-07	IRRIGATED SOYBEANS	ZN-65	< 24.900	
01-NOV-07	IRRIGATED SOYBEANS	ZR-NB-95	< 11.600	
01-NOV-07	IRRIGATED SOYBEANS	I-131	< 17.400	
01-NOV-07	IRRIGATED SOYBEANS	CS-134	< 5.100	
01-NOV-07	IRRIGATED SOYBEANS	CS-137	< 10.800	

Exposure Pathway - Ingestion
Feed and Forage

Location NR-U1

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)			Duplicate Analysis
17-SEP-07	NON-IRRIGATED CORN	BE-7		<	136.700	
17-SEP-07	NON-IRRIGATED CORN	K-40	2854.600	+/-	440.900	
17-SEP-07	NON-IRRIGATED CORN	MN-54		<	17.800	
17-SEP-07	NON-IRRIGATED CORN	CO-58		<	14.600	
17-SEP-07	NON-IRRIGATED CORN	FE-59		<	42.300	
17-SEP-07	NON-IRRIGATED CORN	CO-60		<	17.300	
17-SEP-07	NON-IRRIGATED CORN	ZN-65		<	18.500	
17-SEP-07	NON-IRRIGATED CORN	ZR-NB-95		<	19.200	
17-SEP-07	NON-IRRIGATED CORN	I-131		<	23.900	
17-SEP-07	NON-IRRIGATED CORN	CS-134		<	13.000	
17-SEP-07	NON-IRRIGATED CORN	CS-137		<	10.700	
04-OCT-07	NON-IRRIGATED SOYBEANS	BE-7		<	161.800	Duplicate
04-OCT-07	NON-IRRIGATED SOYBEANS	BE-7		<	102.400	
04-OCT-07	NON-IRRIGATED SOYBEANS	K-40	14813.000	+/-	889.300	Duplicate
04-OCT-07	NON-IRRIGATED SOYBEANS	K-40	15944.000	+/-	601.000	
04-OCT-07	NON-IRRIGATED SOYBEANS	MN-54		<	14.000	Duplicate
04-OCT-07	NON-IRRIGATED SOYBEANS	MN-54		<	11.900	
04-OCT-07	NON-IRRIGATED SOYBEANS	CO-58		<	23.400	Duplicate
04-OCT-07	NON-IRRIGATED SOYBEANS	CO-58		<	4.300	
04-OCT-07	NON-IRRIGATED SOYBEANS	FE-59		<	57.400	Duplicate
04-OCT-07	NON-IRRIGATED SOYBEANS	FE-59		<	13.500	
04-OCT-07	NON-IRRIGATED SOYBEANS	CO-60		<	17.900	Duplicate
04-OCT-07	NON-IRRIGATED SOYBEANS	CO-60		<	20.700	
04-OCT-07	NON-IRRIGATED SOYBEANS	ZN-65		<	75.900	Duplicate
04-OCT-07	NON-IRRIGATED SOYBEANS	ZN-65		<	31.300	
04-OCT-07	NON-IRRIGATED SOYBEANS	ZR-NB-95		<	21.200	Duplicate
04-OCT-07	NON-IRRIGATED SOYBEANS	ZR-NB-95		<	7.900	
04-OCT-07	NON-IRRIGATED SOYBEANS	I-131		<	22.600	Duplicate
04-OCT-07	NON-IRRIGATED SOYBEANS	I-131		<	9.400	
04-OCT-07	NON-IRRIGATED SOYBEANS	CS-134		<	14.800	Duplicate
04-OCT-07	NON-IRRIGATED SOYBEANS	CS-134		<	8.100	
04-OCT-07	NON-IRRIGATED SOYBEANS	CS-137		<	16.300	Duplicate
04-OCT-07	NON-IRRIGATED SOYBEANS	CS-137		<	11.100	

Exposure Pathway - Aquatic
Bottom Sediment

Location DC

Collection Date	Nuclide	Gamma Spectrum Concentration (pCi/Kg Dry)		Duplicate Analysis
11-MAY-07	K-40	13569.000	+/-	1124.000
11-MAY-07	MN-54		<	41.700
11-MAY-07	CO-58		<	47.700
11-MAY-07	FE-59		<	75.400
11-MAY-07	CO-60	107.900	+/-	62.600
11-MAY-07	ZN-65		<	86.700
11-MAY-07	CS-134		<	59.400
11-MAY-07	CS-137	179.800	+/-	37.700
26-OCT-07	K-40	12801.000	+/-	621.200
26-OCT-07	MN-54		<	24.600
26-OCT-07	CO-58		<	32.700
26-OCT-07	FE-59		<	48.600
26-OCT-07	CO-60	88.700	+/-	24.200
26-OCT-07	ZN-65		<	47.600
26-OCT-07	CS-134		<	20.200
26-OCT-07	CS-137	167.700	+/-	32.800

Exposure Pathway - Aquatic
Bottom Sediment

Location EEA

Collection Date	Nuclide	Gamma Spectrum Concentration (pCi/Kg Dry)			Duplicate Analysis
22-JUN-07	K-40	9920.200	+/-	786.600	
22-JUN-07	MN-54		<	31.100	
22-JUN-07	CO-58		<	36.100	
22-JUN-07	FE-59		<	110.500	
22-JUN-07	CO-60		<	26.500	
22-JUN-07	ZN-65		<	65.000	
22-JUN-07	CS-134		<	42.500	
22-JUN-07	CS-137		<	28.800	

Exposure Pathway - Aquatic
Bottom Sediment

Location JRR

Collection Date	Nuclide	Gamma Spectrum Concentration (pCi/Kg Dry)			Duplicate Analysis
02-AUG-07	K-40	14889.000	+/-	1091.000	
02-AUG-07	MN-54		<	38.100	
02-AUG-07	CO-58		<	43.800	
02-AUG-07	FE-59		<	108.600	
02-AUG-07	CO-60		<	28.500	
02-AUG-07	ZN-65		<	76.600	
02-AUG-07	CS-134		<	57.700	
02-AUG-07	CS-137	121.500	+/-	37.500	
09-NOV-07	K-40	15503.000	+/-	671.500	
09-NOV-07	MN-54		<	25.600	
09-NOV-07	CO-58		<	21.800	
09-NOV-07	FE-59		<	56.900	
09-NOV-07	CO-60		<	17.000	
09-NOV-07	ZN-65		<	53.900	
09-NOV-07	CS-134		<	15.500	
09-NOV-07	CS-137	129.300	+/-	27.000	

Exposure Pathway - Aquatic
Bottom Sediment

Location MUDS

Collection Date	Nuclide	Gamma Spectrum Concentration (pCi/Kg Dry)			Duplicate Analysis
12-JUN-07	K-40	7502.300	+/-	856.400	
12-JUN-07	MN-54		<	41.800	
12-JUN-07	CO-58		<	45.200	
12-JUN-07	FE-59		<	68.300	
12-JUN-07	CO-60		<	24.300	
12-JUN-07	ZN-65		<	96.900	
12-JUN-07	CS-134		<	54.500	
12-JUN-07	CS-137		<	24.200	

Exposure Pathway - Aquatic Vegetation

Location EEA

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)	Duplicate Sample
12-JUN-07	SPIKERUSH	BE-7	1162.700 +/- 210.300	
12-JUN-07	SPIKERUSH	K-40	3384.600 +/- 358.600	
12-JUN-07	SPIKERUSH	MN-54	< 12.800	
12-JUN-07	SPIKERUSH	CO-58	< 14.300	
12-JUN-07	SPIKERUSH	FE-59	< 19.700	
12-JUN-07	SPIKERUSH	CO-60	< 14.300	
12-JUN-07	SPIKERUSH	ZN-65	< 21.400	
12-JUN-07	SPIKERUSH	ZR-NB-95	< 15.200	
12-JUN-07	SPIKERUSH	I-131	< 34.600	
12-JUN-07	SPIKERUSH	CS-134	< 12.600	
12-JUN-07	SPIKERUSH	CS-137	< 17.400	

Exposure Pathway - Aquatic Vegetation

Location SC

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)	Duplicate Sample
27-JUN-07	CATTAILS	BE-7	285.400 +/- 149.800	
27-JUN-07	CATTAILS	K-40	2504.100 +/- 321.500	
27-JUN-07	CATTAILS	MN-54	< 15.300	
27-JUN-07	CATTAILS	CO-58	< 15.700	
27-JUN-07	CATTAILS	FE-59	< 23.100	
27-JUN-07	CATTAILS	CO-60	< 12.800	
27-JUN-07	CATTAILS	ZN-65	< 25.100	
27-JUN-07	CATTAILS	ZR-NB-95	< 18.500	
27-JUN-07	CATTAILS	I-131	< 27.600	
27-JUN-07	CATTAILS	CS-134	< 12.700	
27-JUN-07	CATTAILS	CS-137	< 11.100	

Exposure Pathway - Terrestrial Vegetation

Location EEA

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)		Duplicate Analysis
21-MAY-07	PASTURAGE	BE-7	739.500+/-	283.400	
21-MAY-07	PASTURAGE	K-40	7001.400+/-	506.600	
21-MAY-07	PASTURAGE	MN-54	<	10.000	
21-MAY-07	PASTURAGE	CO-58	<	16.300	
21-MAY-07	PASTURAGE	FE-59	<	28.200	
21-MAY-07	PASTURAGE	CO-60	<	10.100	
21-MAY-07	PASTURAGE	ZN-65	<	34.400	
21-MAY-07	PASTURAGE	ZR-NB-95	<	11.200	
21-MAY-07	PASTURAGE	I-131	<	35.600	
21-MAY-07	PASTURAGE	CS-134	<	13.800	
21-MAY-07	PASTURAGE	CS-137	<	11.500	

Exposure Pathway - Terrestrial Vegetation

Location MUDS

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)		Duplicate Analysis
22-JUN-07	PASTURAGE	BE-7	407.500+/-	192.900	
22-JUN-07	PASTURAGE	K-40	4592.700+/-	336.800	
22-JUN-07	PASTURAGE	MN-54	<	17.200	
22-JUN-07	PASTURAGE	CO-58	<	16.700	
22-JUN-07	PASTURAGE	FE-59	<	24.800	
22-JUN-07	PASTURAGE	CO-60	<	9.700	
22-JUN-07	PASTURAGE	ZN-65	<	35.700	
22-JUN-07	PASTURAGE	ZR-NB-95	<	11.600	
22-JUN-07	PASTURAGE	I-131	<	49.600	
22-JUN-07	PASTURAGE	CS-134	<	14.400	
22-JUN-07	PASTURAGE	CS-137	<	13.100	

Exposure Pathway - Terrestrial
Soil

Location EEA

Collection Date	Nuclide	Gamma Spectrum Concentration (pCi/Kg Dry)		Duplicate Analysis
21-MAY-07	K-40	9090.300+/-	833.100	
21-MAY-07	MN-54	<	34.800	
21-MAY-07	CO-58	<	38.100	
21-MAY-07	FE-59	<	80.500	
21-MAY-07	CO-60	<	40.700	
21-MAY-07	ZN-65	<	99.900	
21-MAY-07	CS-134	<	53.300	
21-MAY-07	CS-137	446.200+/-	64.800	

Exposure Pathway - Terrestrial
Soil

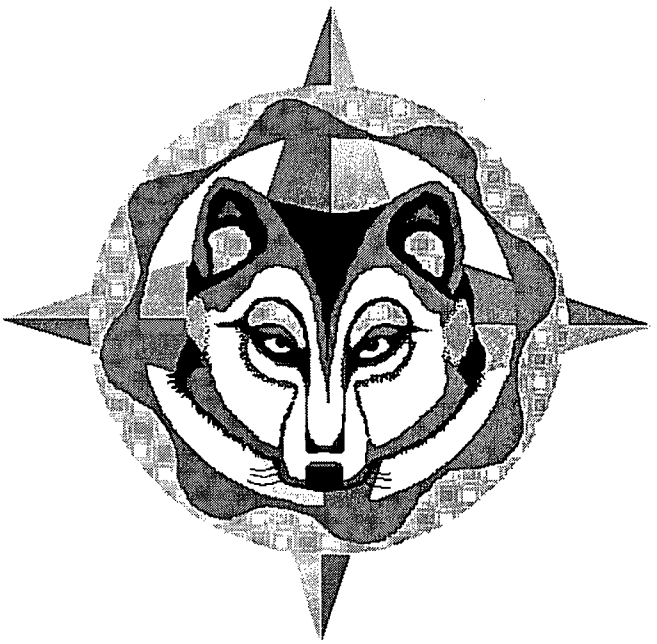
Location MUDS

Collection Date	Nuclide	Gamma Spectrum Concentration (pCi/Kg Dry)		Duplicate Analysis
05-JUN-07	K-40	11616.000+/-	1004.000	
05-JUN-07	MN-54	<	44.600	
05-JUN-07	CO-58	<	49.400	
05-JUN-07	FE-59	<	150.700	
05-JUN-07	CO-60	<	13.800	
05-JUN-07	ZN-65	<	78.900	
05-JUN-07	CS-134	<	58.000	
05-JUN-07	CS-137	326.400+/-	56.500	

WOLF CREEK GENERATING STATION

2007 LAND USE CENSUS REPORT

Revision 1



Prepared by:	Teresa L. Rice	12-21-07
	Teresa L. Rice	Date
Peer Review:	Dan Haines	12/26/07
	Dan E. Haines	Date
Approved by:	Robert Hammond	12/26/07
	Robert A. Hammond	Date

EXECUTIVE SUMMARY

The annual Land Use Census of rural residents within five miles of the Wolf Creek Generating Station (WCGS) has been completed for 2007 in accordance with AP 07B-004, [Offsite Dose Calculation Manual (Radiological Environmental Monitoring Program)].

No program changes are necessary regarding milk locations. Again, no milk sampling locations were identified.

Changes are not required for the Radiological Environmental Monitoring Program (REMP) broadleaf vegetation sample locations for 2008. The two broadleaf vegetation locations with the highest calculated annual average D/Q rankings are Q2.35-MILA1619 and N2.38-RRDR9. AP 07B-004 specifies that an "alternate location may be used to provide continued monitoring". The third-ranked garden is location C1.92-16RD1655. It should be noted that locations Q2.35-MILA1619, N2.38-RRDR9 and C1.92-16RD1655 were established sampling locations for the 2007-growing season.

The 2007 Land Use Census Report has been revised to add a trailer house residence located in Sector B. This location is the closest occupied residence in Sector B.

BACKGROUND

Section 5.2, Attachment A, of the ODCM procedure (AP 07B-004), directs that "a Land Use Census shall be conducted annually during the growing season to identify the nearest (1) milk animal, (2) residence, and (3) garden of greater than 500 square feet producing broadleaf vegetation in each of the 16 meteorological sections within five miles of the WCGS site" and "the results of the Land Use Census shall be included in the Annual Radiological Environmental Operating Report."

Table 5-1, Attachment A, of the ODCM (AP 07B-004) requires that broadleaf vegetation samples be collected from "two indicator locations with highest calculated annual average D/Q."

Table 5-1, Attachment A, of the ODCM (AP 07B-004) also requires that milk samples be collected from "three indicator locations within 5 miles of the site having the highest dose potential."

METHODOLOGY

Two hundred fifteen surveys were mailed to the rural residents living within five miles of WCGS. A follow-up survey was sent to residents who did not respond. The survey excluded the residents of New Strawn, Burlington, and a trailer park north of Burlington. These locations were excluded due to the large number of households and the low likelihood that information gained from these residences would affect the locations chosen for REMP sampling. Drive-by information was collected for the nearest residences that did not return surveys.

The information collected was compiled and the results are identified in Tables 1-3. Calculations were performed so that garden locations could be ranked by their respective D/Q. These results are contained in Table 4.

RESULTS

NOTE: A Global Positioning System was used to verify residence distances and sectors.

As identified in Table 2, sector B experienced a change in the nearest occupied residence.

Five location changes were noted for the nearest garden producing broadleaf vegetation. These changes are identified in Table 3.

There were no changes regarding milk sample locations. Again, no locations were identified that routinely milked animals for human consumption.

TABLE 1

2007 Land Use Census Data

Location of Nearest:

Sector	Residence	Milking Animals	Broadleaf Garden
A	A2.60-17TE1520	None	None
B	B1.86-PLRD16XX	None	B4.09-18RD1739
C	C1.92-16RD1655	None	C1.92-16RD1655
D	D2.03-QULA1571	None	D3.00-16RD1829
E	E1.77-QULA1485	None	None
F	F1.76-14RD1730	None	F2.44-RERD1391
G	G3.03-13RD1820	None	G3.77-12RD1831
H	H3.09-12RD1711	None	H3.30-QURD1175
J	J3.70-11RD1540	None	J3.80-11RD1535
K	K2.70-12LA1439	None	K4.10-NARD1120
L	L2.10-NARD1339	None	L2.39-NARD1309
M	M2.47-14RD1322	None	M3.10-13LA1290
N	N1.71-NARD1441	None	N2.38-RRDR9
P	P2.76-HW751534	None	P2.76-HW751534
Q	Q2.35-MILA1619	None	Q2.35-MILA1619
R	R2.08-NALN1650	None	None

Identifiers are based upon the following protocol:

EXAMPLE: A1.4-16RD1525

"A" = Sector A

"1.4" = 1.4 miles from the reactor

"16RD1525" = address

TABLE 2

SECTOR	2006 NEAREST RESIDENCE	2007 NEAREST RESIDENCE
A	A2.60-17TE1520	A2.60-17TE1520
B	B3.53-QURD1755	B1.86-PLRD16XX
C	C1.92-16RD1655	C1.92-16RD1655
D	D2.03-QULA1571	D2.03-QULA1571
E	E1.77-QULA1485	E1.77-QULA1485
F	F1.76-14RD1730	F1.76-14RD1730
G	G3.03-13RD1820	G3.03-13RD1820
H	H3.09-12RD1711	H3.09-12RD1711
J	J3.70-11RD1540	J3.70-11RD1540
K	K2.70-12LA1439	K2.70-12LA1439
L	L2.10-NARD1339	L2.10-NARD1339
M	M2.47-14RD1322	M2.47-14RD1322
N	N1.71-NARD1441	N1.71-NARD1441
P	P2.76-HW751534	P2.76-HW751534
Q	Q2.35-MILA1619	Q2.35-MILA1619
R	R2.08-NALN1650	R2.08-NALN1650

NOTE: Entries underlined indicate changes from the 2006 Land Use Census.

Locations are identified based upon the following protocol:
EXAMPLE: A1.4-16RD1525

First letter is based upon sector, thus "A" designates this residence is in sector A.

The number immediately following the first letter designates the distance (in miles) from the reactor.

The characters following the dash represent a unique identifier based upon location address.

The example is in sector A, 1.4 miles from the reactor, at 1525 16th Road.

TABLE 3

2007 Land Use Census Milk and Garden Data

SECTOR	2006 MILKING ANIMALS	2007 MILKING ANIMALS	2006 CLOSEST GARDEN PRODUCING BROADLEAF VEGETATION	2007 CLOSEST GARDEN PRODUCING BROADLEAF VEGETATION
A	None	None	None	None
B	None	None	None	B4.09-18RD1739
C	None	None	C1.92-16RD1655	C1.92-16RD1655
D	None	None	D3.00-16RD1829	D3.00-16RD1829
E	None	None	E4.40-TRRD1551	None
F	None	None	F2.44-RERD1391	F2.44-RERD1391
G	None	None	G3.66-12RD1814	G3.77-12RD1831
H	None	None	H3.30-QURD1175	H3.30-QURD1175
J	None	None	J3.90-11RD1531	J3.80-11RD1535
K	None	None	K4.10-NARD1120	K4.10-NARD1120
L	None	None	L2.39-NARD1309	L2.39-NARD1309
M	None	None	M3.10-13LA1290	M3.10-13LA1290
N	None	None	N2.38-RRDR9	N2.38-RRDR9
P	None	None	P2.76-HW751534	P2.76-HW751534
Q	None	None	Q2.35-MILA1619	Q2.35-MILA1619
R	None	None	R2.08-NALN1650	None

NOTE: Underlined entries indicate changes from the 2006 Land Use Census.

Locations are identified based upon the following protocol:
EXAMPLE: A1.4-16RD1525

First letter is based upon sector, thus "A" designates this residence is in sector A.

The number immediately following the first letter designates the distance (in miles) from the reactor.

The characters following the dash represent a unique identifier based upon location address.

The example is in sector A, 1.4 miles from the reactor, at 1525 16th Road.

TABLE 4

Information Used for D/Q Calculations

FROM LAND USE			FROM AN-04-045						
	DIST	CALC	NEAR	NEAR	FAR	FAR		SECTOR	D/Q * 20%
SECTOR	(MI)	(METERS)	DIST	D / Q	DIST	D / Q	CALC	RANKING	
A	0	0							
B	4.09	6585	6000	5.32E-10	7000	3.95E-10	4.52E-10	7	5.42E-10
C	1.92	3091	3000	7.26E-10	4000	4.36E-10	7.00E-10	3	8.40E-10
D	3.00	4830	4000	3.20E-10	5000	2.18E-10	2.35E-10	13	2.82E-10
E	0	0							
F	2.44	3928	3000	6.41E-10	4000	3.84E-10	4.03E-10	8	4.84E-10
G	3.77	6070	6000	3.65E-10	7000	2.71E-10	3.58E-10	11	4.30E-10
H	3.30	5313	5000	5.84E-10	6000	4.29E-10	5.35E-10	6	6.42E-10
J	3.80	6118	6000	3.72E-10	7000	2.76E-10	3.61E-10	10	4.33E-10
K	4.10	6601	6000	3.91E-10	7000	2.90E-10	3.30E-10	12	3.96E-10
L	2.39	3848	3000	9.61E-10	4000	5.77E-10	6.35E-10	4	7.62E-10
M	3.10	4991	4000	5.77E-10	5000	3.92E-10	3.94E-10	9	4.73E-10
N	2.38	3832	3000	1.09E-09	4000	6.54E-10	7.27E-10	2	8.72E-10
P	2.76	4444	4000	7.30E-10	5000	4.97E-10	6.27E-10	5	7.52E-10
Q	2.35	3784	3000	1.75E-09	4000	1.05E-09	1.20E-09	1	1.44E-09
R	0	0							

Originated by: Teresa L. Rice Date: 09-14-07

Verified by: Ralph L Ingalsbe Date: 9-18-07