WOLF CREEK
NUCLEAR OPERATING CORPORATION

Kevin J. Moles
Manager Regulatory Affairs

April 19, 2007

RA 07-0045

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

Subject: Docket No. 50-482: 2006 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, 2006, through December 31, 2006.

No commitments are identified in this correspondence. If you have any questions concerning this matter, please contact me at (620) 364-4126, or Ms. Diane Hooper at (620) 364-4041.

Sincerely,

Kevin J. Moles

KJM/rlt

Enclosure: 2006 Annual Radiological Environmental Operating Report

cc: J. N. Donohew (NRC), w/e
V. G. Gaddy (NRC), w/e
B. S. Mallett (NRC), w/e
Senior Resident Inspector (NRC), w/e

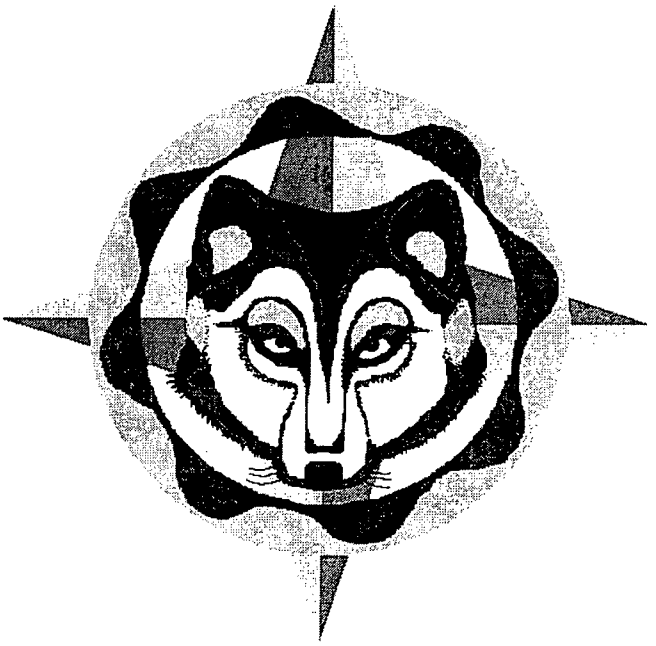
IE25

WOLF CREEK NUCLEAR OPERATING CORPORATION

WOLF CREEK GENERATING STATION

2006 ANNUAL RADIOLOGICAL

ENVIRONMENTAL OPERATING REPORT



April 15, 2007

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 2006 in airborne particulate and radioiodine filters, ground water, drinking water, shoreline sediment, broadleaf vegetation, crops, terrestrial vegetation, aquatic vegetation, soil or deer samples. Activation, corrosion or fission products attributable to plant operation were detected during 2006 in surface water, fish, and bottom sediment samples.

Nuclides detected in Radiological Environmental Monitoring Program (REMP) samples were below applicable NRC reporting levels, and program lower limits of detection were met.

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 2006 Annual Radiological Environmental Operating Report for Wolf Creek Generating Station (WCGS) covers the period from January 1 through December 31, 2006. 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), results of sample analyses, a discussion of monitoring program results, a description of revisions to and deviations from the program, and the results of Interlaboratory Comparison Programs. Individual sample results and a summary of results in the Nuclear Regulatory Commission (NRC) Branch Technical Position specified format 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. The volume of air sampled was calculated from the average of initial and final flow rates and the total time of collection. Each pump was equipped with a time totalizer that was checked weekly against the elapsed time to identify electrical power outages.

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 47 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), Neosho Falls (indicator location NF-DW) and Iola (indicator location IO-DW). The Burlington facility is located upstream and the Iola and Neosho Falls facilities are located downstream of the confluence of the discharge from Coffey County Lake and the Neosho River. During 2006, the Neosho Falls water treatment facility closed. 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. Two indicator (N-1 and Q-6) gardens (Figure 4) and two control (D-1 and D-2) gardens (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.

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 MUDS. 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.

A deer sample was obtained from indicator location A.8. Gamma isotopic analysis was performed on the deer sample. The sample was split with the KDHE. The sample location is 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 2006 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 2006 weekly gross beta analyses range for indicator locations was 0.014 to 0.059 pCi/m^3, which was within the 1983 and 1984 pre-operational range. Additionally, the annual mean for indicator locations for 2006 (0.029 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 2006 (0.029 pCi/m^3) was similar to the annual mean of the control location (0.028 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 2006, the range for Be-7 detected activity was 0.058 to 0.113 pCi/m^3 for indicator locations, and the annual mean for indicator locations was 0.080 pCi/m^3.

The control location annual mean for Be-7 detected activity (0.080 pCi/m^3) was similar to the indicator locations annual mean (0.088 pCi/m^3).

ODCM required lower limits of detection were met and 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 2006 was 0.202 mR/day and the annual mean for the control locations was 0.192 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, 7-14, 18, 26-30, 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 2006. 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 (4.0 pCi/L) was higher when compared to the annual mean of the indicator locations (3.9 pCi/L). The 2006 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 2006 and no unusual trends were noted.

(4) Shoreline Sediment

Naturally occurring K-40 [11,521–12,123 pCi/kg, dry] was detected in samples obtained from the indicator location (DC) and in samples obtained from the control location (JRR) [7,107-11,308 pCi/kg, dry]. K-40 was also detected during pre-operational shoreline sediment monitoring.

ODCM required lower limits of detection were met. Activity due to plant operation was not evident in shoreline sediment samples during 2006 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 2006, fish were also analyzed for tritium. All fish samples taken from Coffey County Lake had tritium activity detected (9,471.9 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 2006 (14,745 pCi/kg), would receive a committed effective dose equivalent of 0.019 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 (107.3 and 139.1 pCi/kg) was detected in the 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 2006. Chart 6 plots the Co-60 detected activity from the discharge cove and reflects a decreasing trend.

Cs-137 activity (189.3 and 224.1 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 2006 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 531 pCi/kg.) Cs-137 activity has been identified in plant effluents. Cs-137 activity (140.5 and 164.8 pCi/kg) was also detected in the control location samples and in the sample obtained from the indicator location EEA (96.9 pCi/kg).

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 2006. 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 2006. 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.

No other radionuclides were detected. No unusual trends were identified.

(5) Deer

Gamma analysis detected naturally occurring K-40 (2860.5 pCi/kg wet) activity in the deer sample obtained from indicator location A.8. K-40 activity was also detected during pre-operational monitoring. K-40 was the only activity detected in the deer sample. No unusual trends were noted.

III. PROGRAM REVISIONS/CHANGES

In 2006, the water treatment facility located at Neosho Falls closed. The Iola water treatment facility became the indicator drinking water sample location.

During 2006, garden location G-1 was removed from the program since the landowners have vacated the residence. Locations Q-6 and N-1 became the two indicator locations. Alternate garden location C-2 was added to the program.

Three new ground water sample locations were added to the REMP: F-1, G-2 and J-2. These locations were added based upon the recommendations in Performance Improvement Request (PIR) 2005-3037.

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 AP 07B-004, 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 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
49	01/05/06 – 01/11/06	>5%/~95	Equipment Malfunction
48	04/19/06 – 04/27/06	>5%/~103	Equipment Malfunction

Drinking Water

August/2006: The drinking water sampler at the control location (Burlington Water Treatment Plant) was found inoperable and did not collect water for approximately 54 hours. The sampler was removed from service and replaced with an operating unit. (Reference CR 2006-001481)

V. INTERLABORATORY COMPARISON PROGRAM RESULTS

During 2006, 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 0.149 mRem for 2006.

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 (11,286 pCi/L), would receive a committed effective dose equivalent of 0.515 mRem per year. For an adult eating 21 kg of fish per year from Coffey County Lake, using the average tritium activity (9,472 pCi/kg), would receive a committed effective dose equivalent of 0.012 mRem per year. Based upon the REMP results, the dose from both pathways was calculated to be 0.527 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

2006 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)**		
	42 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, 29-31, 37, 38 and 47 on Figure 2). An outer ring of stations, one in each meteorological sector in the 3-5 mile range from the site (Locations 4-6, 15-17, 19-25, and 33-36 on Figure 2). Six sectors [A, B, C, D, G, and L] contain an additional station (Locations 2, 3, 10, 14, 28 and 49). The balance of the stations to be placed in special interest areas such as population centers (Locations 23 and 32), 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 (Location 23), 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
TLDs	1	1.4	N	A
	2	2.7	N	A
	3	3.1	NE	C
	4	4.1	NNE	B
	5	4.1	NE	C
	6	4.6	ENE	D
	7	2.1	NE	C
	8	1.7	NNE	B
	9	2.0	ENE	D
	10	2.4	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
	21	3.8	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
	28	2.6	SW	L
	29	2.7	SSW	K
	30	2.5	W	N
	31	3.0	WNW	P
	32	3.1	WNW	P
	33	3.6	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

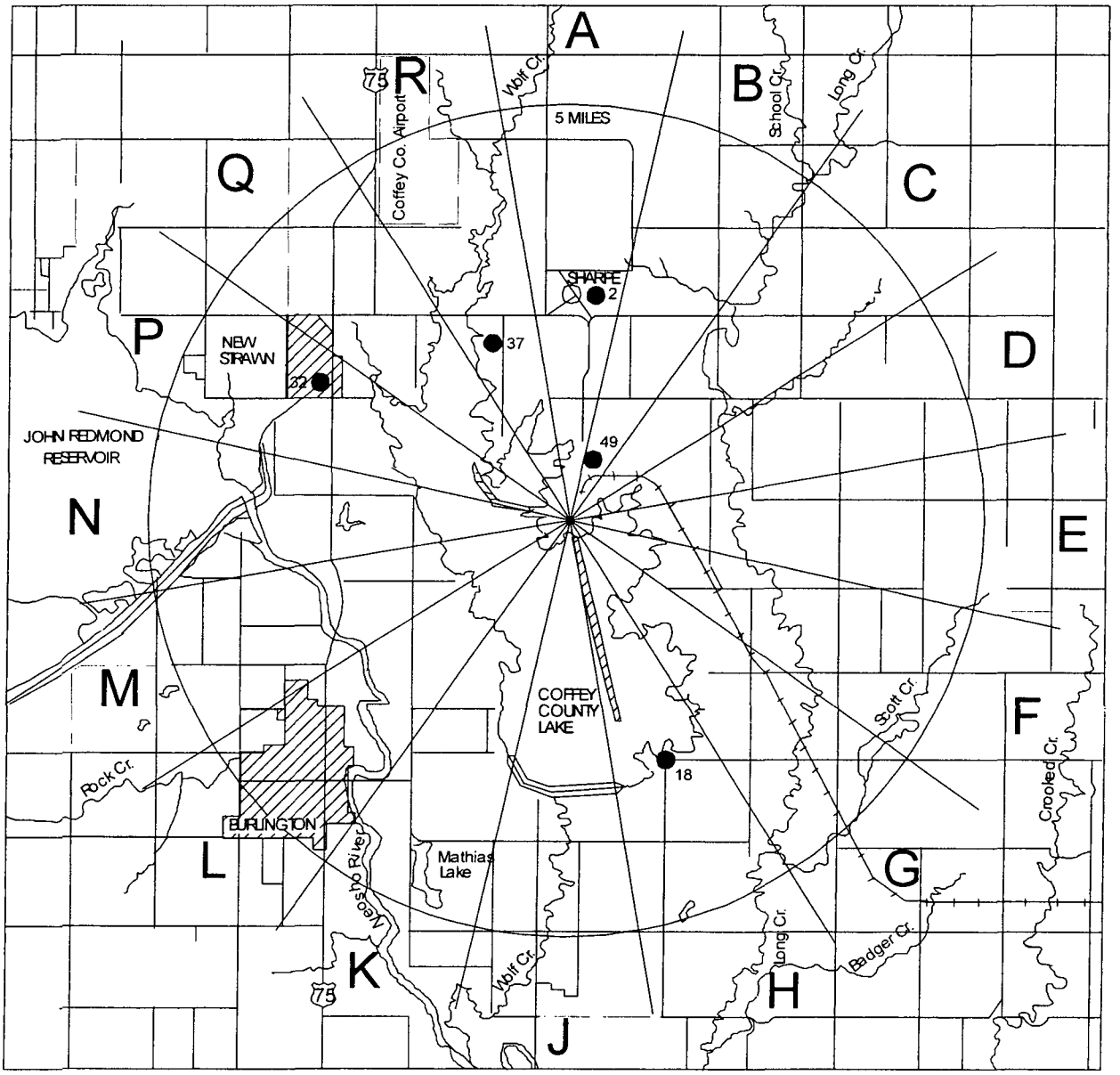
TABLE 2 (Cont.)
SAMPLE LOCATION IDENTIFIERS, DISTANCES (Miles) AND DIRECTIONS (Sectors)

Sample Type	Location Identifier	Distance from Reactor	Direction	Sector
TLDs	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
	46	1.6	WNW	P
	47	0.16	S	J
	48	14.7	ENE	D
	49	0.8	NNE	B
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
	NF-DW	17.5	SSE	H
Shoreline Sediment	DC	0.8	WNW	P
	JRR	3.6	W	N
Fish	CCL	0.6	WNW	P
	JRR	3.7	W	N
Food/Garden	C-2	1.9	NE	C
	D-1	14.7	ENE	D
	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
	MUDS	1.5	WNW	P
Terrestrial Vegetation	EEA	3.0	NNW	R
	MUDS	1.5	WNW	P
Soil	EEA	3.0	NNW	R
	MUDS	1.5	WNW	P
Deer	A.8	0.8	N	A

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	16.4	0.9	21.3	1.1	18.1	1.3	19.8	0.9	75.6
2	14.3	0.8	19.5	0.9	15.6	0.9	18.2	1.0	67.7
3	15.8	0.8	20.1	0.6	17.2	0.9	19.2	1.1	72.3
4	16.0	0.3	23.2	1.9	17.7	0.6	19.3	1.1	76.2
5	16.6	2.4	19.8	1.2	16.5	1.0	18.3	1.5	71.2
6	15.5	1.8	19.3	1.0	17.8	0.7	18.4	1.0	71.1
7	15.0	0.7	19.8	0.9	17.4	1.3	19.5	2.6	71.7
8	16.5	1.2	21.3	1.0	17.7	1.5	21.5	2.1	76.9
9	13.9	0.7	19.4	2.8	16.4	0.6	17.4	0.8	67.2
10	16.1	1.1	20.6	1.0	17.7	0.4	19.4	0.5	73.8
11	17.0	0.6	21.6	1.2	19.5	1.1	20.5	1.1	78.7
12	16.0	1.0	20.6	0.9	18.8	0.9	19.1	0.7	74.5
13	16.6	0.8	21.1	0.9	19.9	1.4	20.0	0.6	77.6
14	16.7	1.1	21.4	1.7	18.2	1.7	19.5	0.9	75.7
15	16.1	0.7	21.9	2.6	17.9	2.1	19.8	1.2	75.6
16	15.1	0.7	20.5	0.8	17.8	2.7	18.4	0.8	71.8
17	15.5	1.2	20.8	0.9	18.2	1.0	19.4	1.6	73.8
18	16.5	2.5	20.2	1.3	18.8	1.8	20.0	3.1	75.4
19	17.5	1.5	21.8	1.3	18.3	0.9	20.3	1.7	77.9
20	17.2	3.0	20.9	1.1	19.2	1.6	19.2	2.0	76.5
21	13.8	0.5	18.5	0.8	16.6	0.9	17.2	0.8	66.1
22	19.3	3.6	21.6	1.6	21.8	0.9	21.1	0.9	83.8
23	16.1	0.6	21.1	2.6	18.3	3.6	19.6	0.8	75.1
24	15.8	0.9	21.1	2.0	18.0	1.0	20.7	3.2	75.6
25	13.6	0.8	20.7	3.3	16.1	3.0	17.1	1.0	67.6
26	16.0	3.2	19.5	1.0	15.1	0.8	18.1	1.0	68.7
27	17.9	3.6	20.4	0.3	17.1	0.5	20.0	0.9	75.4
28	13.8	0.7	19.7	3.1	14.4	1.2	18.1	1.5	66.1
29	13.1	0.9	18.0	1.5	13.6	0.3	16.9	1.0	61.7
30	16.6	1.9	21.7	1.2	18.8	1.7	19.4	0.5	76.7
31	17.0	3.4	19.8	1.5	15.9	0.8	18.9	0.9	71.5
32	16.0	2.4	20.9	1.0	15.7	1.4	18.7	1.1	71.3
33	17.2	0.6	22.8	2.6	19.7	3.4	20.3	0.8	80.0
34	17.5	1.9	21.8	1.8	17.5	1.0	20.2	1.4	77.0
35	16.1	0.7	22.0	1.2	17.1	0.9	19.6	0.8	74.8
36	16.7	3.4	21.9	3.6	17.2	0.4	19.2	1.0	75.1
37	15.8	1.4	20.7	2.8	15.9	0.6	18.6	1.3	71.0
38	17.3	1.5	23.0	2.3	17.7	0.9	20.1	1.0	78.2
39	16.0	0.9	18.9	1.3	15.9	1.2	18.3	1.4	69.1
41	16.7	0.9	21.6	2.0	17.6	0.9	20.3	1.1	76.2
42	12.0	3.2	16.0	1.3	10.9	0.4	14.1	0.6	53.1
43	12.1	3.5	14.9	0.9	10.6	1.1	13.7	1.8	51.3
44	16.4	1.8	20.6	1.6	17.1	1.4	19.0	0.8	73.2
46	15.5	0.2	19.7	1.4	17.8	3.5	19.2	1.1	72.2
47	17.5	2.3	21.8	1.7	15.8	1.2	21.8	2.2	76.8
48	15.2	1.2	19.5	1.6	16.1	0.9	18.6	1.5	69.4
49	15.4	0.9	20.2	0.8	15.6	0.6	18.6	0.9	69.7

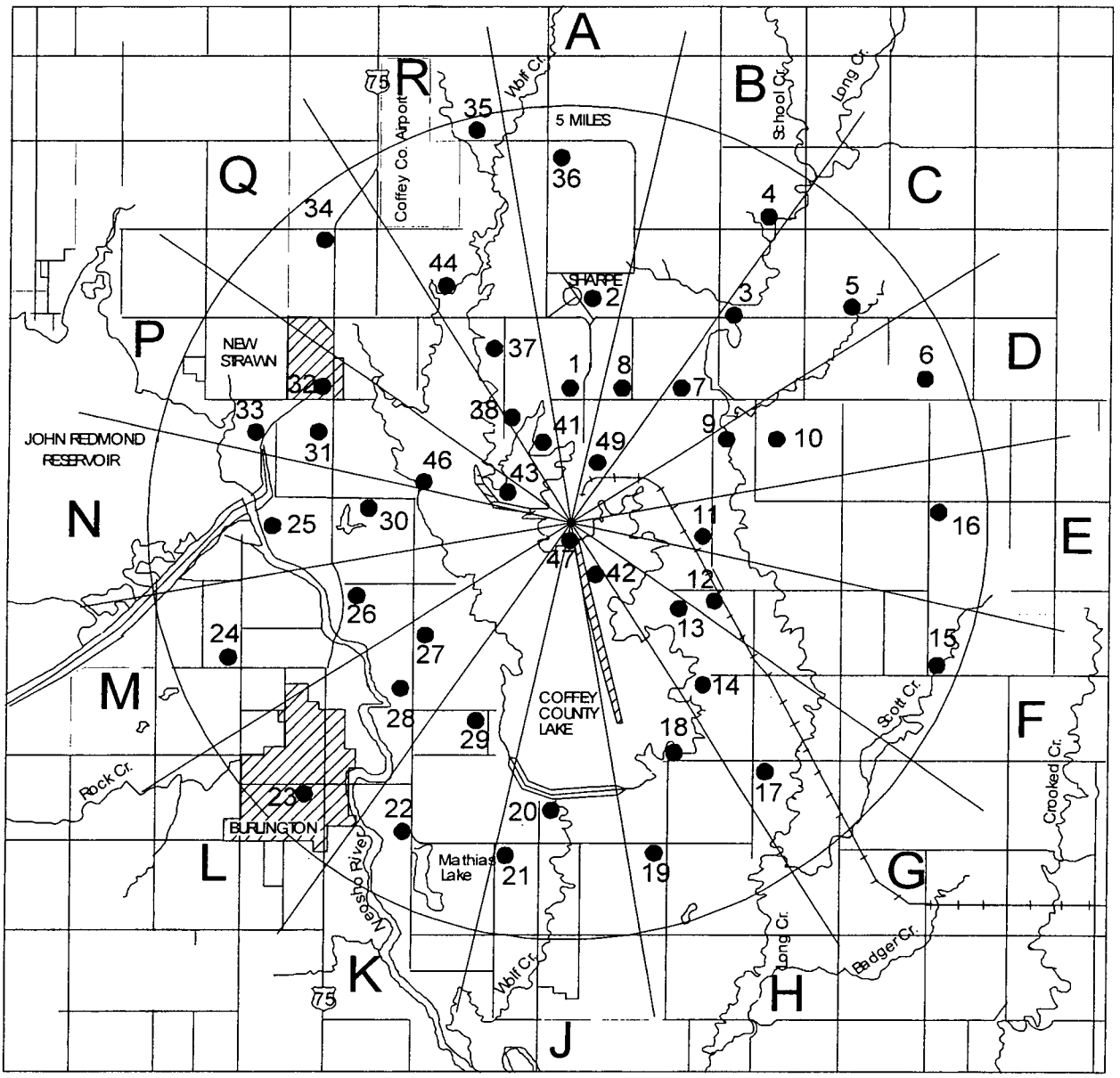
FIGURE 1



AIRBORNE PATHWAY SAMPLING LOCATIONS

● = AIRBORNE PARTICULATE AND RADIOIODINE

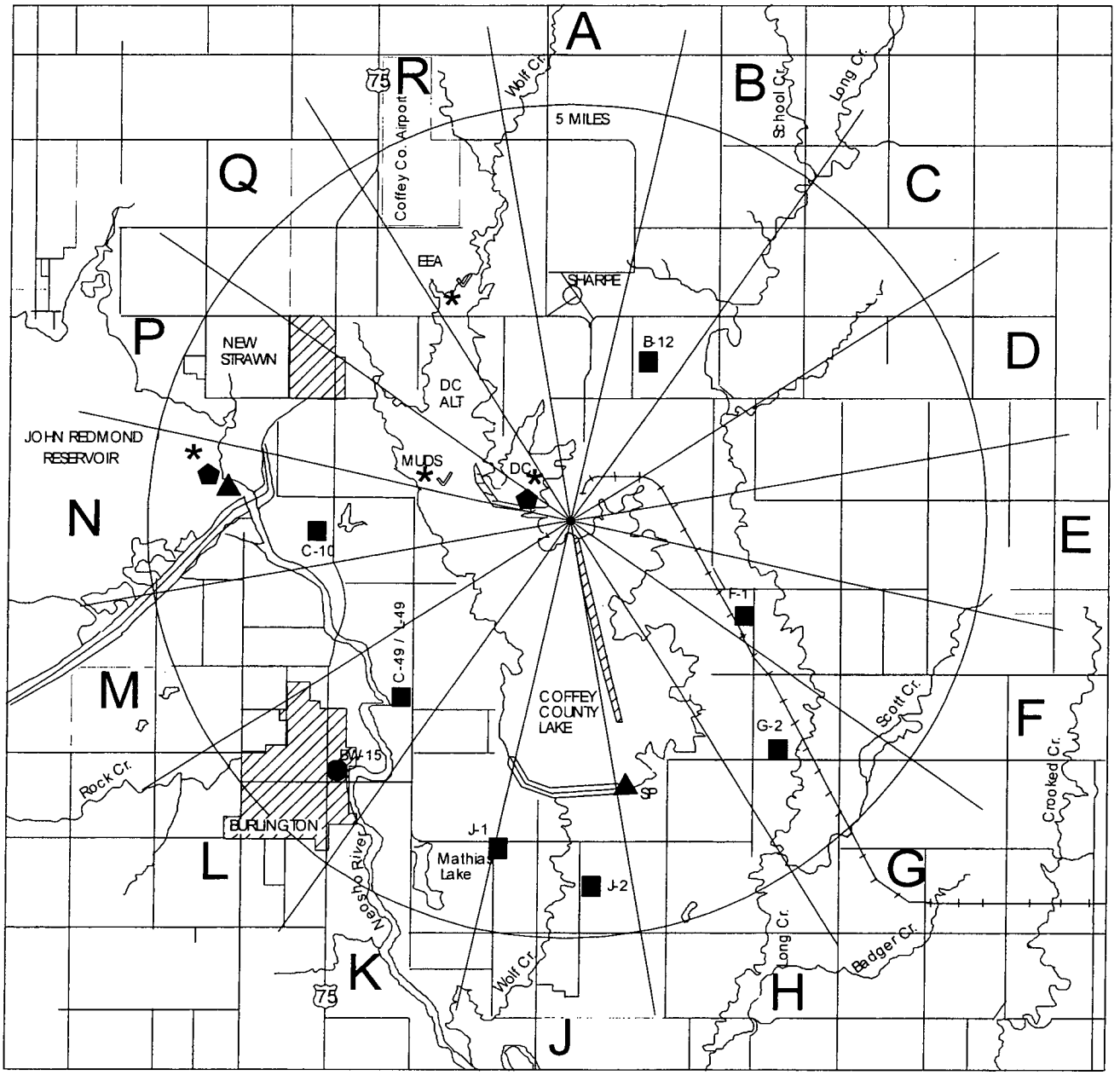
FIGURE 2



DIRECT RADIATION PATHWAY SAMPLING LOCATIONS

● = TLD LOCATIONS

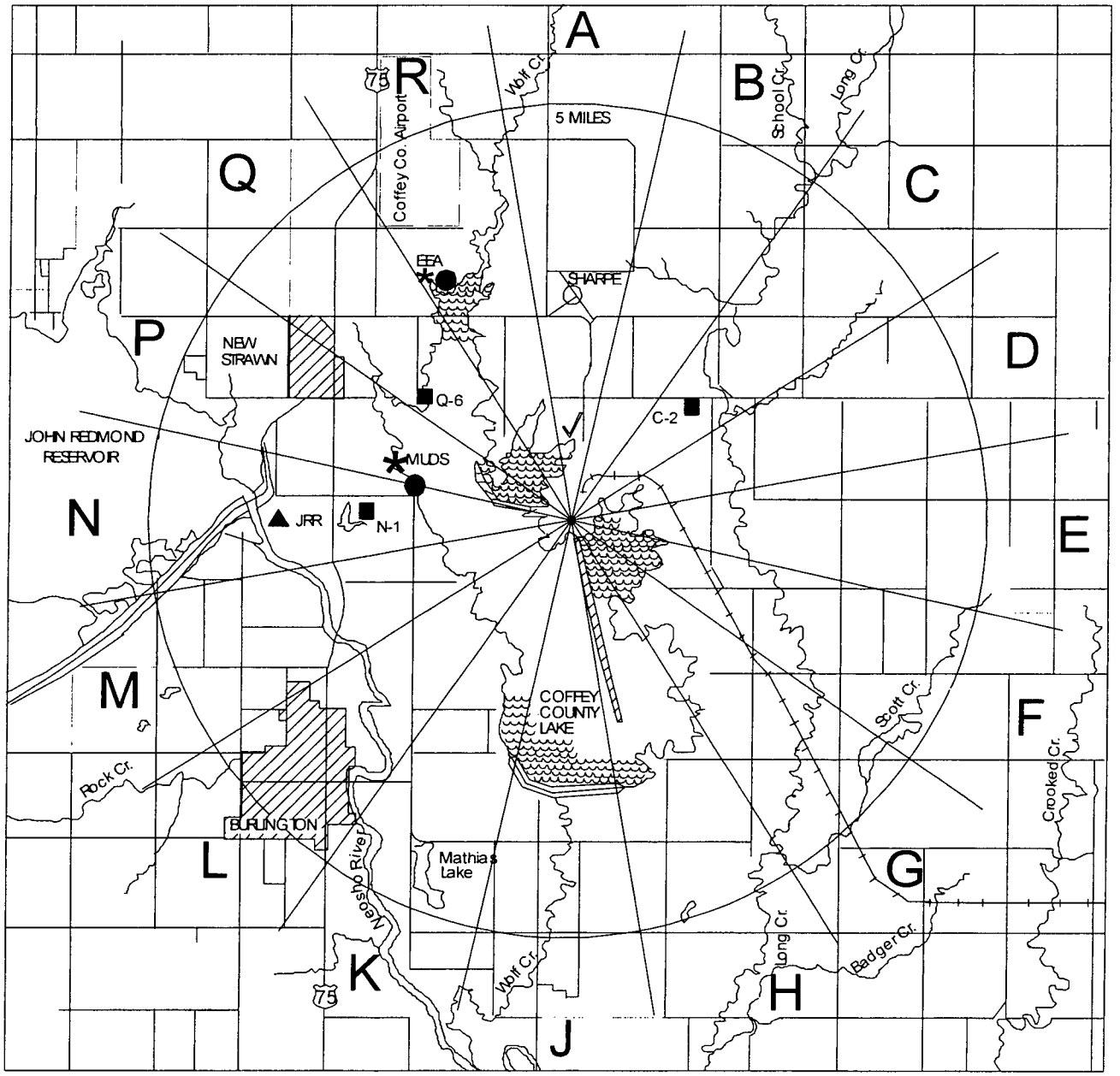
FIGURE 3



WATERBORNE PATHWAY SAMPLING LOCATIONS

● = DRINKING WATER
▲ = SURFACE WATER
■ = GROUND WATER
⬟ = SHORELINE SEDIMENT
* = BOTTOM SEDIMENT
✓ = AQUATIC VEGETATION / ALGAE

FIGURE 4



INGESTION PATHWAY SAMPLING LOCATIONS

▲ = FISH (JRR)

■ = BROADLEAF VEGETATION

= FISH (CCL)

● = SOIL

✓ = DEER

✱ = TERRESTRIAL VEGETATION

FIGURE 5

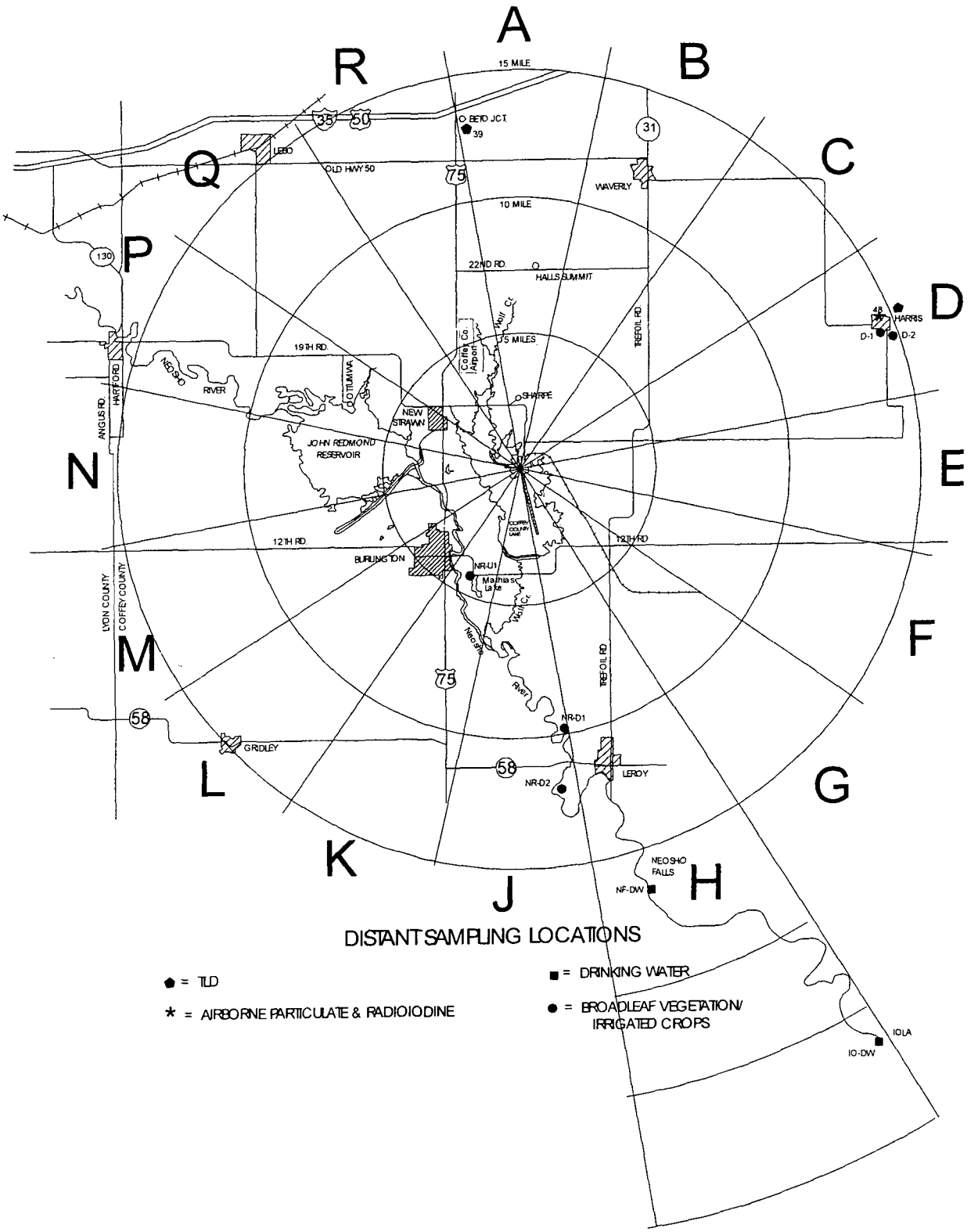

A
B
C
D
E
F
G
H
J
K
L
M
N
P
Q
R
15 MILE
10 MILE
5 MILES
BEID JCT.
LEBO
OLD HWY 50
WAVERLY
22ND RD.
HALLS SUMMIT
HARRIS
D-1
D-2
19TH RD.
12TH RD.
HARTFORD
ANGUS RD.
NEOSHO RIVER
OTTUMWA
Coffey Co Airport
Hull Cr.
TREFOIL RD
SHARPE
NEW STRAWN
JOHN REDMOND RESERVOIR
COFFEY COUNTY LINE
BURLINGTON
NR-U1
Mahias Lake
LYON COUNTY
COFFEY COUNTY
GRIDLEY
NR-D1
NR-D2
LEROY
NEOSHO FALLS
NF-DW
IOLA
IO-DW
35
50
75
31
130
58
DISTANT SAMPLING LOCATIONS
= TLD
= AIRBORNE PARTICULATE & RADIOIODINE
= DRINKING WATER
= BROADLEAF VEGETATION/ IRRIGATED CROPS

CHART 1

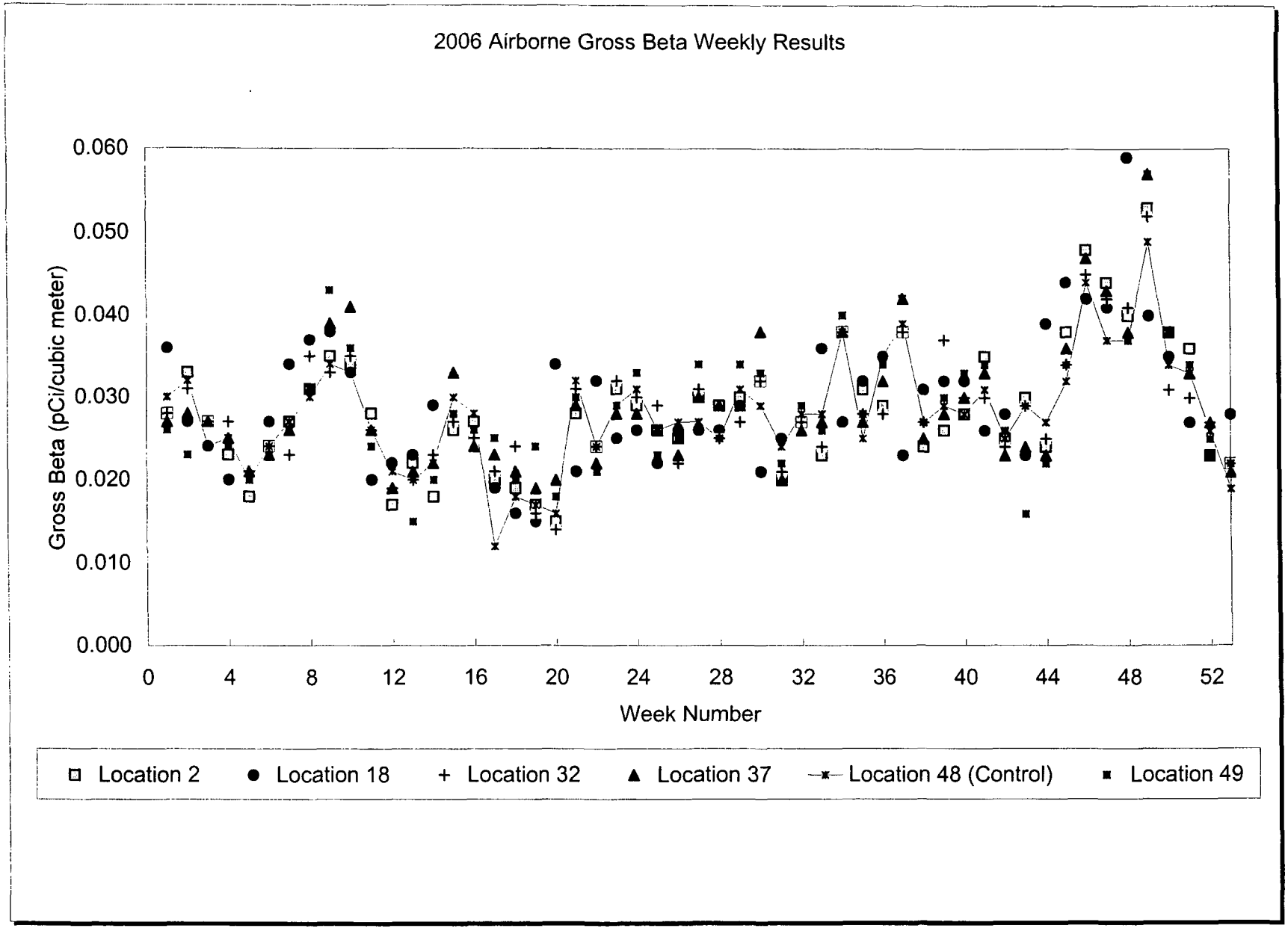

2006 Airborne Gross Beta Weekly Results
Gross Beta (pCi/cubic meter)
0.060
0.050
0.040
0.030
0.020
0.010
0.000
0
4
8
12
16
20
24
28
32
36
40
44
48
52
Week Number
Location 2
Location 18
Location 32
Location 37
Location 48 (Control)
Location 49

CHART 2

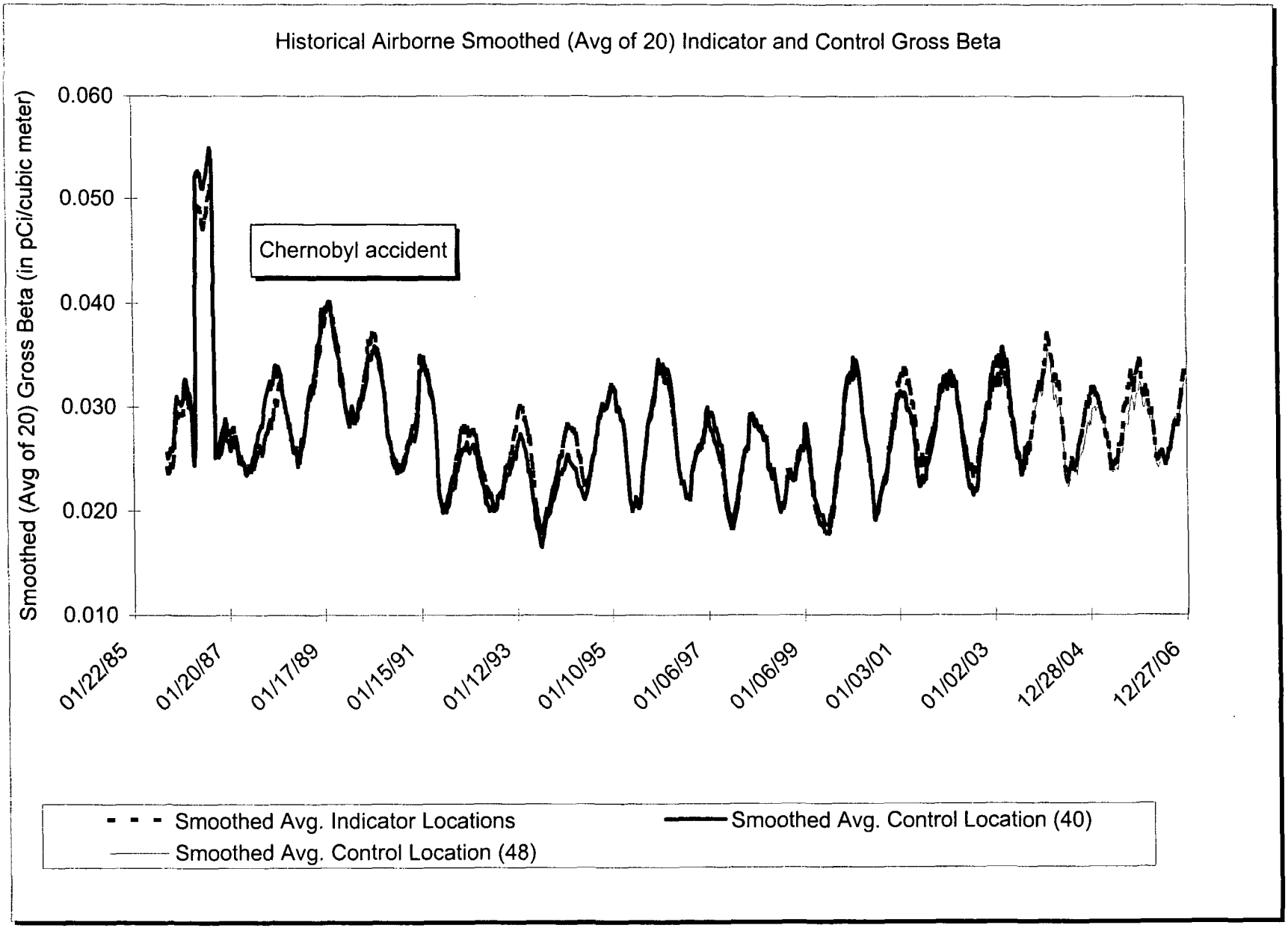

Historical Airborne Smoothed (Avg of 20) Indicator and Control Gross Beta
Smoothed (Avg of 20) Gross Beta (in pCi/cubic meter)
0.060
0.050
0.040
0.030
0.020
0.010
Chernobyl accident
01/22/85
01/20/87
01/17/89
01/15/91
01/12/93
01/10/95
01/06/97
01/06/99
01/03/01
01/02/03
12/28/04
12/27/06
Smoothed Avg. Indicator Locations
Smoothed Avg. Control Location (40)
Smoothed Avg. Control Location (48)

CHART 3

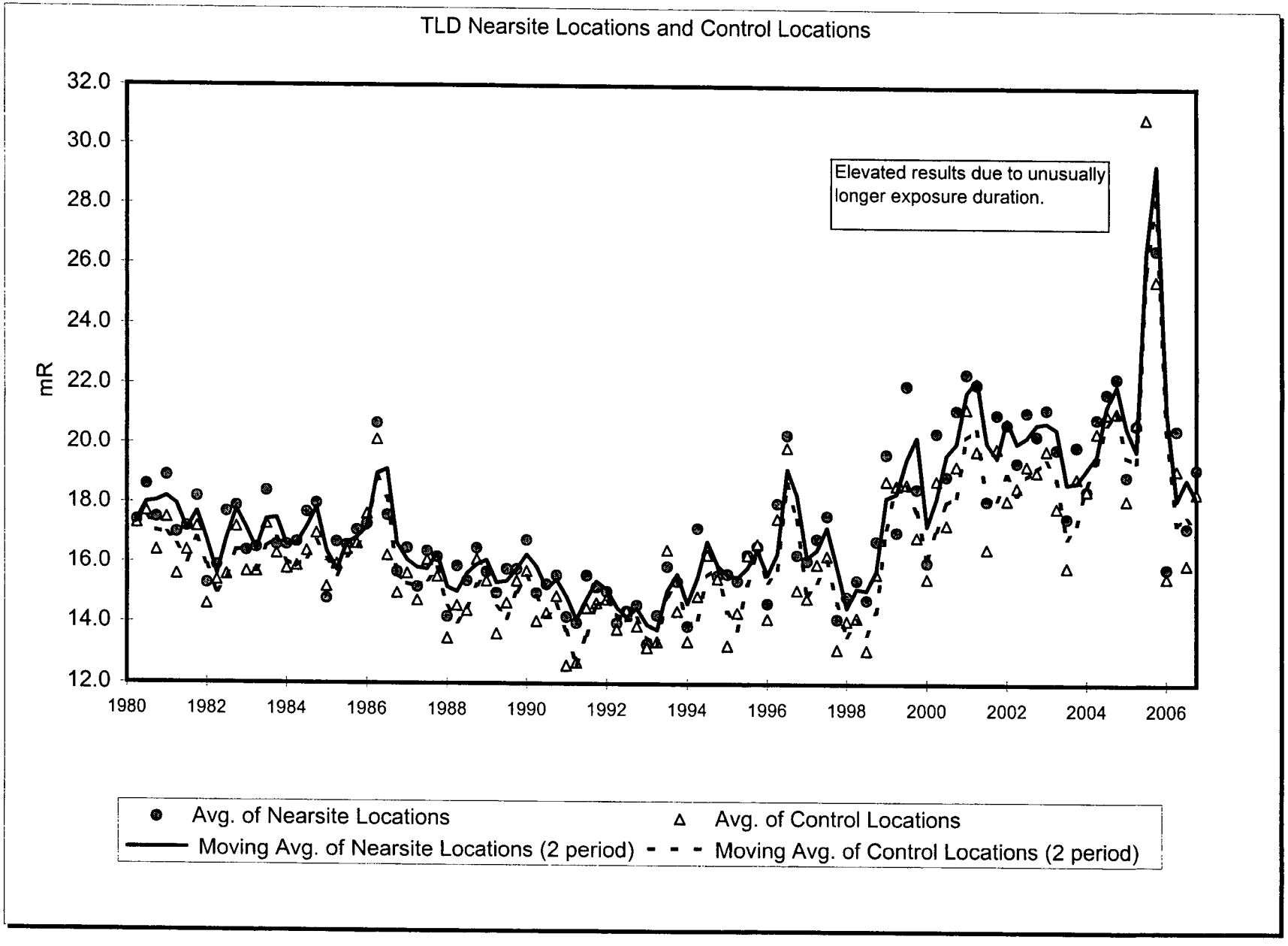

TLD Nearsite Locations and Control Locations
Elevated results due to unusually longer exposure duration.
mR
32.0
30.0
28.0
26.0
24.0
22.0
20.0
18.0
16.0
14.0
12.0
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
Avg. of Nearsite Locations
Avg. of Control Locations
Moving Avg. of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

CHART 4

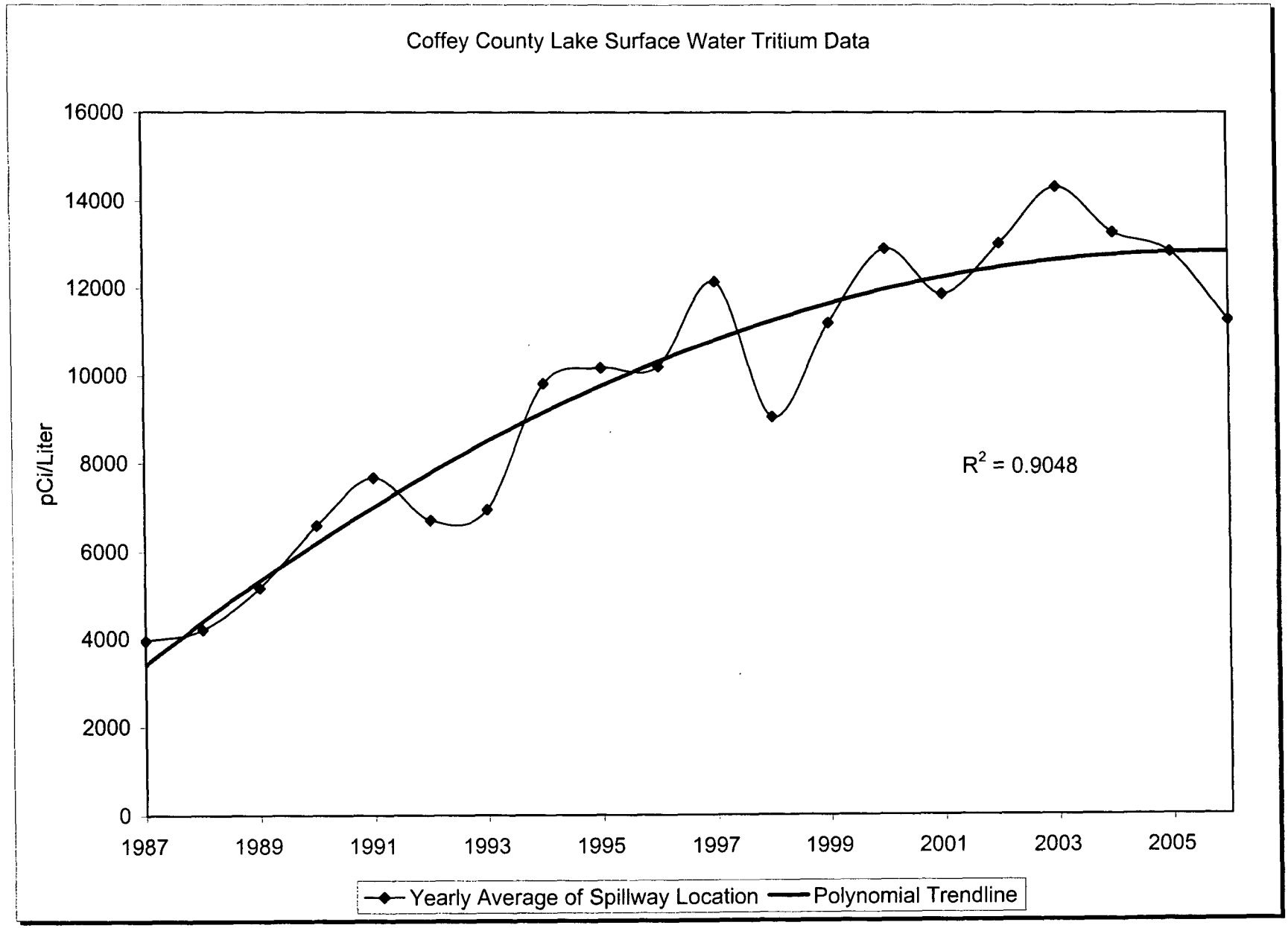

Coffey County Lake Surface Water Tritium Data
16000
14000
12000
10000
8000
6000
4000
2000
0
pCi/Liter
1987
1989
1991
1993
1995
1997
1999
2001
2003
2005
R^2 = 0.9048
Yearly Average of Spillway Location
Polynomial Trendline

CHART 5

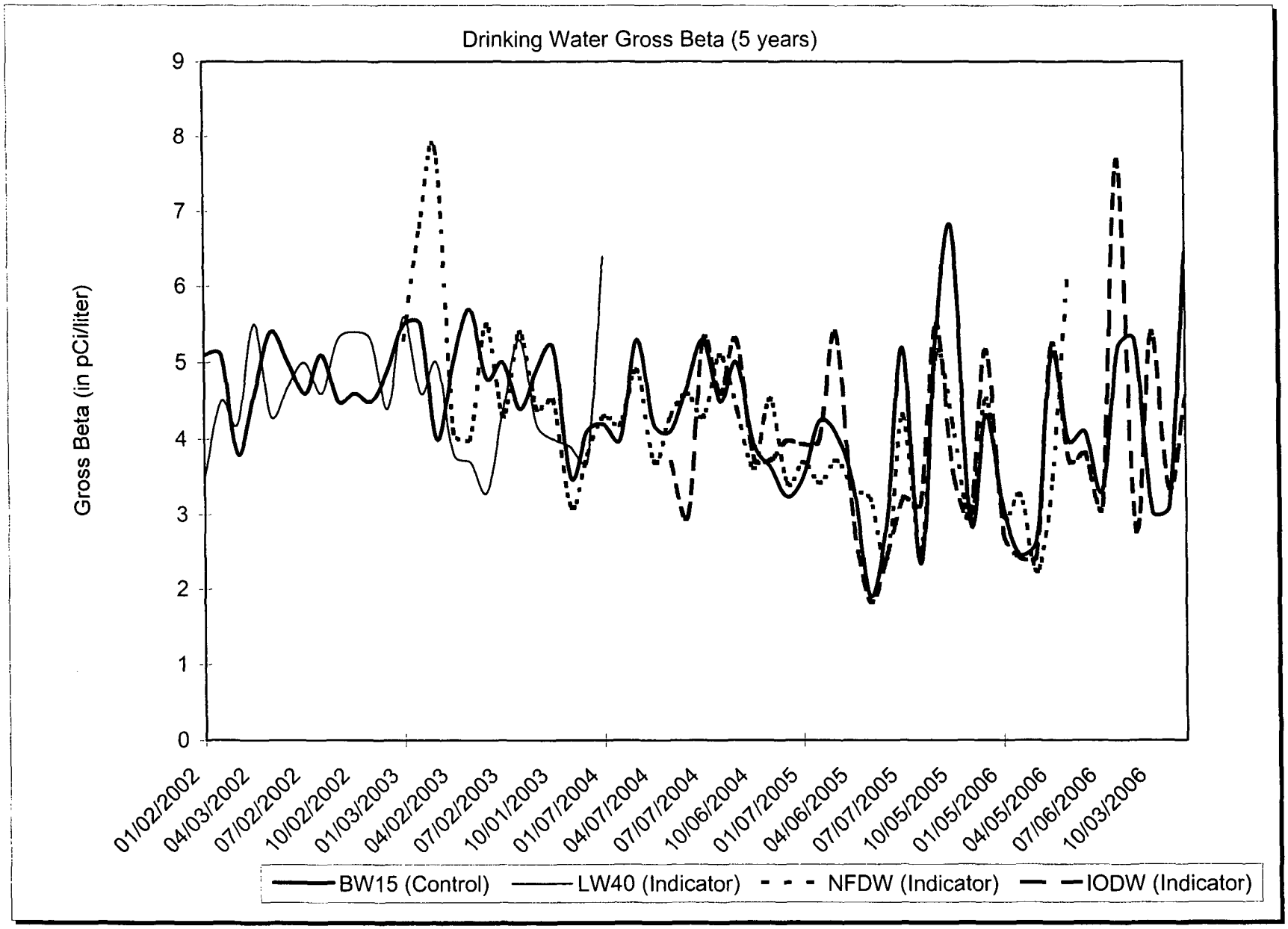

Drinking Water Gross Beta (5 years)
Gross Beta (in pCi/liter)
9
8
7
6
5
4
3
2
1
0
01/02/2002
04/03/2002
07/02/2002
10/02/2002
01/03/2003
04/02/2003
07/02/2003
10/01/2003
01/07/2004
04/07/2004
07/07/2004
10/06/2004
01/07/2005
04/06/2005
07/07/2005
10/05/2005
01/05/2006
04/05/2006
07/06/2006
10/03/2006
BW15 (Control)
LW40 (Indicator)
NFDW (Indicator)
IODW (Indicator)

CHART 6

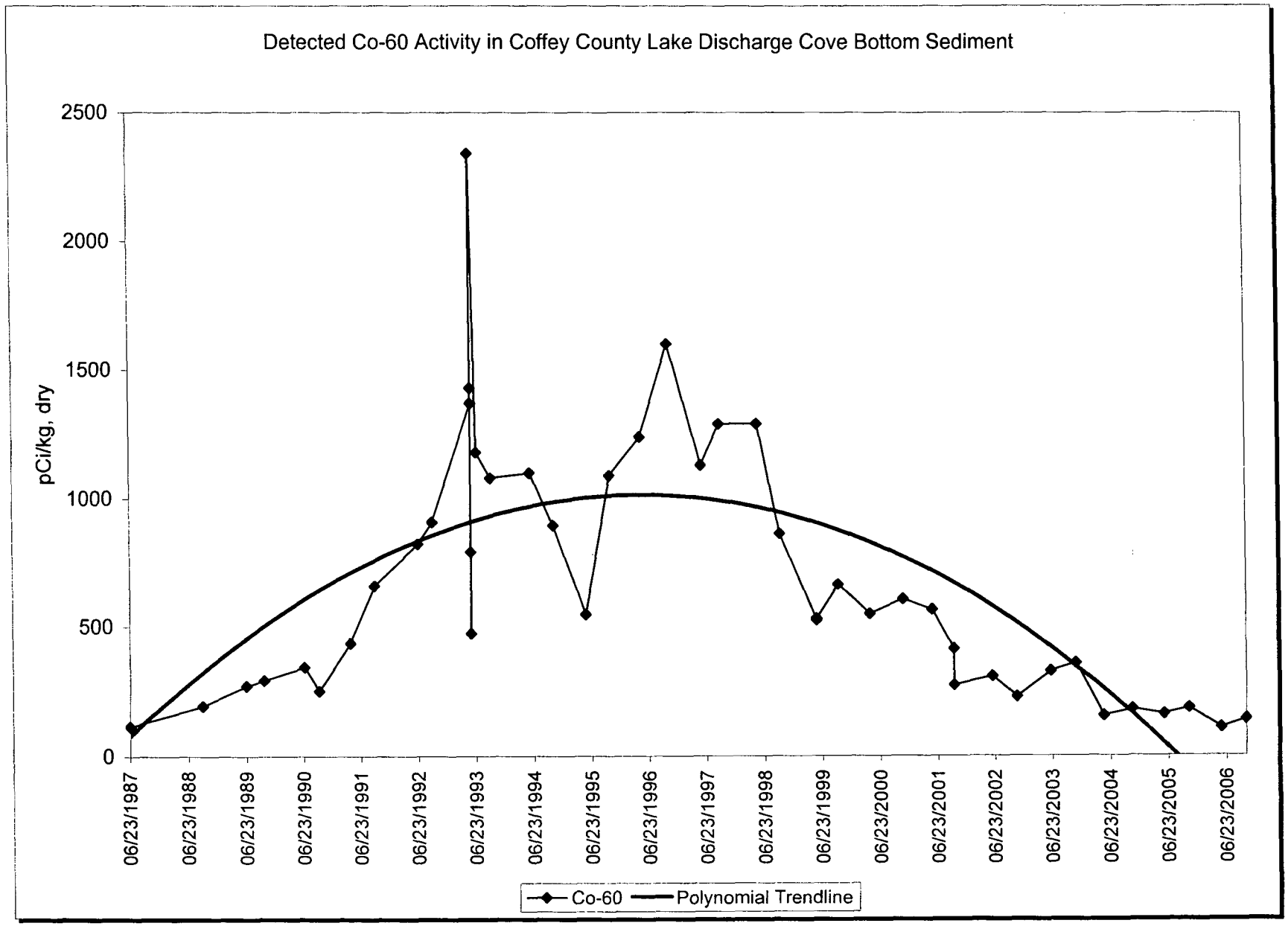
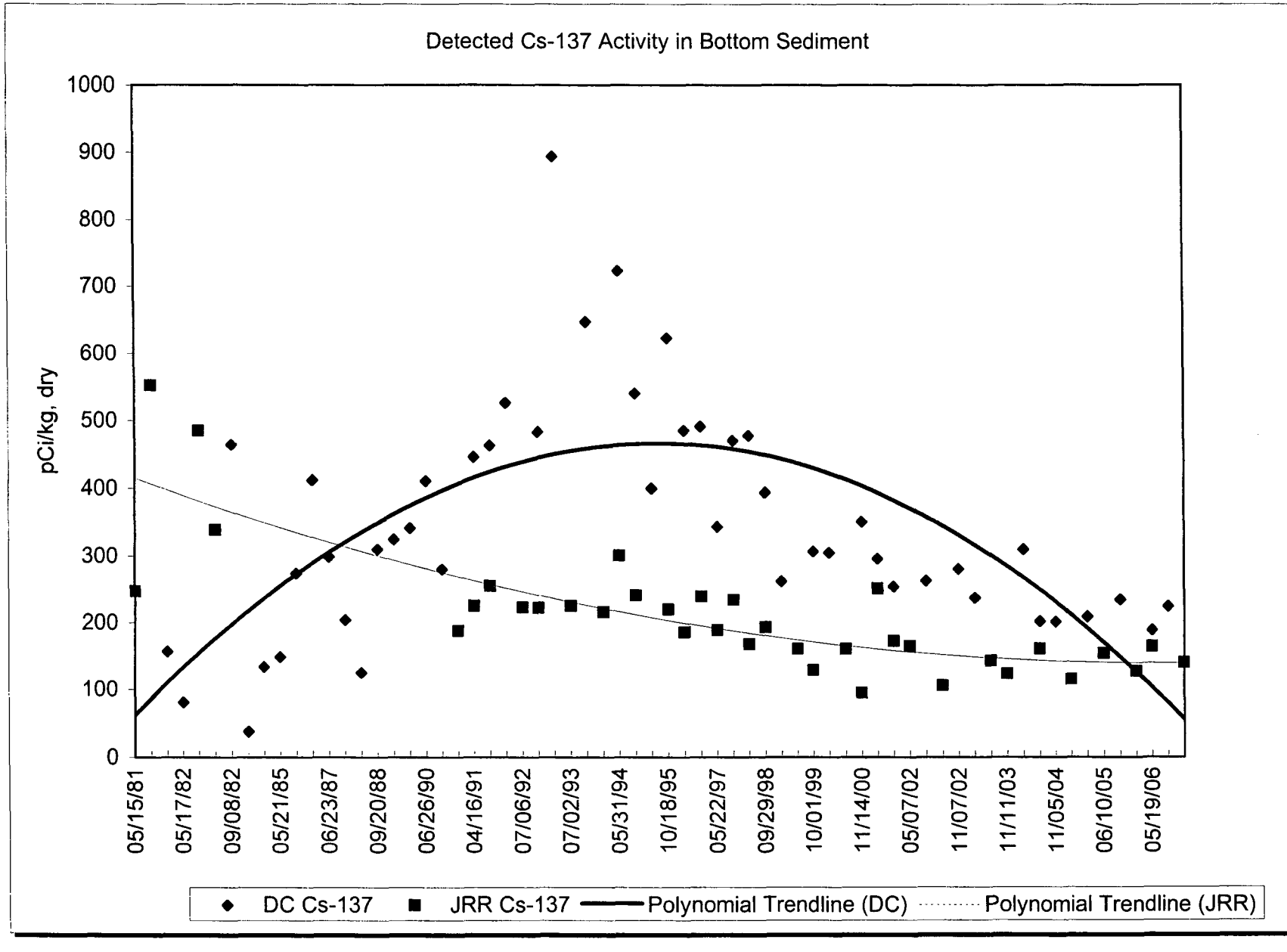

Detected Co-60 Activity in Coffey County Lake Discharge Cove Bottom Sediment
pCi/kg, dry
2500
2000
1500
1000
500
0
06/23/1987
06/23/1988
06/23/1989
06/23/1990
06/23/1991
06/23/1992
06/23/1993
06/23/1994
06/23/1995
06/23/1996
06/23/1997
06/23/1998
06/23/1999
06/23/2000
06/23/2001
06/23/2002
06/23/2003
06/23/2004
06/23/2005
06/23/2006
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
05/15/81
05/17/82
09/08/82
05/21/85
06/23/87
09/20/88
06/26/90
04/16/91
07/06/92
07/02/93
05/31/94
10/18/95
05/22/97
09/29/98
10/01/99
11/14/00
05/07/02
11/07/02
11/11/03
11/05/04
06/10/05
05/19/06
DC Cs-137
JRR Cs-137
Polynomial Trendline (DC)
Polynomial Trendline (JRR)

Environmental, Inc.
Midwest Laboratory
an Allegheny Technologies Co.

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

APPENDIX A

INTERLABORATORY COMPARISON PROGRAM RESULTS

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

January, 2006 through December, 2006

Appendix A

Interlaboratory Comparison Program Results

Environmental, Inc., Midwest Laboratory has participated in interlaboratory comparison (crosscheck) programs since the formulation of 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 list results of the in-house "duplicate" program for the past twelve months. Acceptance is based on the difference of the results being less than the sum of the errors. Data for previous years available upon request.

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

Attachment A lists acceptance criteria for "spiked" samples.

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

Attachment A

ACCEPTANCE CRITERIA FOR "SPIKED" SAMPLES

LABORATORY PRECISION: ONE STANDARD DEVIATION VALUES FOR VARIOUS ANALYSES[a]

Analysis	Level	One standard deviation for single determination
Gamma Emitters	5 to 100 pCi/liter or kg > 100 pCi/liter or kg	5.0 pCi/liter 5% of known value
Strontium-89[b]	5 to 50 pCi/liter or kg > 50 pCi/liter or kg	5.0 pCi/liter 10% of known value
Strontium-90[b]	2 to 30 pCi/liter or kg > 30 pCi/liter or kg	5.0 pCi/liter 10% of known value
Potassium-40	≥ 0.1 g/liter or kg	5% of known value
Gross alpha	≤ 20 pCi/liter > 20 pCi/liter	5.0 pCi/liter 25% of known value
Gross beta	≤ 100 pCi/liter > 100 pCi/liter	5.0 pCi/liter 5% of known value
Tritium	≤ 4,000 pCi/liter > 4,000 pCi/liter	$\pm 1\sigma$ = (pCi/liter) = $169.85 \times (\text{known})^{0.0933}$ 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	Analysis	Concentration (pCi/L) Laboratory Result[b]	ERA Result[c]	Control Limits	Acceptance
STW-1078	01/16/06	Sr-89	49.9 ± 3.5	50.2	41.5 - 58.9	Pass
STW-1078	01/16/06	Sr-90	31.5 ± 1.5	30.7	22.0 - 39.4	Pass
STW-1079	01/16/06	Ba-133	86.5 ± 4.1	95.0	78.6 - 111.0	Pass
STW-1079	01/16/06	Co-60	96.3 ± 4.1	95.3	86.6 - 104.0	Pass
STW-1079	01/16/06	Cs-134	22.6 ± 3.0	23.1	14.4 - 31.8	Pass
STW-1079	01/16/06	Cs-137	109.0 ± 5.9	111.0	101.0 - 121.0	Pass
STW-1079	01/16/06	Zn-65	198.0 ± 11.2	192.0	159.0 - 225.0	Pass
STW-1080	01/16/06	Gr. Alpha	10.8 ± 1.4	9.6	1.0 - 18.3	Pass
STW-1080	01/16/06	Gr. Beta	56.9 ± 1.9	61.9	44.6 - 79.2	Pass
STW-1081	01/16/06	Ra-226	4.3 ± 0.4	4.6	3.4 - 5.8	Pass
STW-1081	01/16/06	Ra-228	7.1 ± 1.8	6.6	3.7 - 9.5	Pass
STW-1081	01/16/06	Uranium	20.7 ± 0.5	22.1	16.9 - 27.3	Pass
STW-1088	04/10/06	Sr-89	29.0 ± 1.8	32.4	23.7 - 41.1	Pass
STW-1088	04/10/06	Sr-90	8.7 ± 1.0	9.0	0.3 - 17.7	Pass
STW-1089	04/10/06	Ba-133	10.3 ± 0.4	10.0	1.3 - 18.7	Pass
STW-1089	04/10/06	Co-60	114.0 ± 2.8	113.0	103.0 - 123.0	Pass
STW-1089	04/10/06	Cs-134	41.9 ± 1.4	43.4	34.7 - 52.1	Pass
STW-1089	04/10/06	Cs-137	208.0 ± 1.1	214.0	195.0 - 233.0	Pass
STW-1089	04/10/06	Zn-65	154.0 ± 0.8	152.0	126.0 - 178.0	Pass
STW-1090	04/10/06	Gr. Alpha	13.4 ± 1.1	21.3	12.1 - 30.5	Pass
STW-1090	04/10/06	Gr. Beta	27.7 ± 2.1	23.0	14.3 - 31.7	Pass
STW-1091	04/10/06	I-131	22.0 ± 0.3	19.1	13.9 - 24.3	Pass
STW-1092	04/10/06	H-3	7960.0 ± 57.0	8130.0	6720.0 - 9540.0	Pass
STW-1092	04/10/06	Ra-226	2.9 ± 0.4	3.0	2.2 - 3.8	Pass
STW-1092	04/10/06	Ra-228	20.9 ± 1.2	19.1	10.8 - 27.4	Pass
STW-1092	04/10/06	Uranium	68.6 ± 3.4	69.1	57.1 - 81.1	Pass
STW-1094	07/10/06	Sr-89	15.9 ± 0.7	19.7	11.0 - 28.4	Pass
STW-1094	07/10/06	Sr-90	24.3 ± 0.4	25.9	17.2 - 34.6	Pass
STW-1095	07/10/06	Ba-133	94.9 ± 8.9	88.1	72.9 - 103.0	Pass
STW-1095	07/10/06	Co-60	104.0 ± 1.8	99.7	91.0 - 108.0	Pass
STW-1095	07/10/06	Cs-134	48.7 ± 1.3	54.1	45.4 - 62.8	Pass
STW-1095	07/10/06	Cs-137	236.0 ± 3.0	238.0	217.0 - 259.0	Pass
STW-1095	07/10/06	Zn-65	126.0 ± 8.0	121.0	100.0 - 142.0	Pass
STW-1096	07/10/06	Gr. Alpha	10.9 ± 1.0	10.0	1.3 - 18.6	Pass
STW-1096	07/10/06	Gr. Beta	9.7 ± 0.4	8.9	0.2 - 17.5	Pass
STW-1097	07/10/06	Ra-226	11.0 ± 0.5	10.7	7.9 - 13.5	Pass
STW-1097	07/10/06	Ra-228	12.2 ± 0.8	10.7	6.1 - 15.3	Pass
STW-1097	07/10/06	Uranium	43.4 ± 0.1	40.3	33.3 - 47.3	Pass

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

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

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

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

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

[d] The reported result was an average of three analyses, results ranged from 25.36 to 29.23 pCi/L. A fourth analysis was performed, result of analysis, 24.89 pCi/L.

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

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

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

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

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

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

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

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

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

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

[a] Liquid sample results are reported in pCi/Liter, air filters(pCi/filter), charcoal (pCi/charcoal canister), and solid samples (pCi/kg).

[b] I-131(G); iodine-131 as analyzed by gamma spectroscopy.

[c] Activity reported is a net activity result. For gamma spectroscopic analysis, activity detected below the LLD value is not reported

[d] Low levels of Sr-90 are still detected in the environment. A concentration of (1-5 pCi/L) in milk is not unusual.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

[e] Included in the MAPEP as a false positive.

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

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

Appendix B

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 2006

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	0.029 (265/265) (0.014-0.059)	TIE: 18 3.0 miles SSE	0.029 (53/53) (0.015-0.059)	Station 48 0.028 (53/53) (0.012-0.049)	0
				TIE: 37 2.0 miles NNW	0.029 (53/53) (0.019-0.057)		
	Gamma (24) Be-7	-	0.080 (20/20) (0.058-0.113)	37 2.0 miles NNW	0.088 (4/4) (0.064-0.112)	0.080 (4/4) (0.054-0.107)	0
	I-131 (318)	0.07	- (0/265)	N/A	N/A	- (0/53)	0
External Radiation (mR/day)	TLD (376)	-	0.202 (360/360) (0.118-0.257)	22 3.9 miles SSW	0.233 (8/8) (0.215-0.243)	Stations 39 & 48 0.192 (16/16) (0.169-0.217)	0
Surface Water (pCi/l)	Gamma (24)		-(0/12)	N/A	N/A	JRR -(0/12)	0
	Tritium (24)	3000	11286 (12/12) (8624-14267)	SP 3.2 miles SSE	11286 (12/12) (8624-14267)	-(0/12)	0
Ground Water (pCi/l)	I-131 (32)	1	-(0/28)	N/A	N/A	B-12 -(0/4)	0
	Gamma (32)		-(0/28)	N/A	N/A	-(0/4)	0
	Tritium (32)	2000	-(0/28)	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 2006

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 (29)	1	-(0-17)	N/A	N/A	BW-15 -(0/12)	0
	Gross Beta (29)	4	3.9 (17/17) (2.2-7.7)	IO-DW 26.1 miles SSE	3.9 (12/12) (2.4-7.7)	4.0 (12/12) (2.5-6.5)	0
	Gamma (29)		-(0/17)	N/A	N/A	-(0/12)	0
	Tritium (10)	2000	-(0/6)	N/A	N/A	-(0/4)	0
Shoreline Sediment (pCi/kg dry)	Gamma (4)					JRR	
	K-40	-	11822.0 (2/2) (11521-12123)	DC 0.8 miles WNW	11822.0 (2/2) (11521-12123)	9207.6 (2/2) (7107-11308)	0
Fish (pCi/kg wet)	Gamma (16)					JRR	
	K-40	-	3503 (10/10) (2957.9-3939.0)	CCL 0.6 miles	3503 (10/10) (2957.9-3939.0)	3433.7 (6/6) (3210.4-3867.3)	0
	Tritium (16)	-	9471.9 (10/10) (5733-14745)	CCL 0.6 miles	9471.9 (10/10) (5733-14745)	-(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 2006

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 (17)					D-1 & D-2	
	Be-7	-	642.4 (7/9) (247.9-1261.1)	N-1 2.4 miles W	708.1 (6/7) (425.2-1261.1)	666.8 (7/8) (249.6-1831.3)	0
	K-40	-	4843.6 (9/9) (3564.7-6090.1)	N-1 2.4 miles W	4848.2 (7/7) (3990.5-6072.4)	4557.9 (8/8) (3009.4-6906.4)	0
						NR-U1	
Crops (pCi/kg wet)	Gamma (5)						
	K-40	-	13627.6 (3/3) (2372-20398)	NR-D1 8.9 miles S	18112.0 (1/1)	8610.1 (2/2) (2524.1-14696.0)	0
Bottom Sediment (pCi/kg dry)	Gamma (6)					JRR	
	K-40	-	12233.3 (4/4) (8695-14040)	DC 0.9 miles WNW	13682.0 (2/2) (13324-14040)	19574.0 (2/2) (17323-21825)	0
	Co-60	-	123.2 (2/4) (107.3-139.1)	DC 0.9 miles WNW	123.2 (2/2) (107.3-139.1)	- (0/2)	0
	Cs-137	-	170.1 (3/4) (96.9-224.1)	DC 0.9 miles WNW	206.7 (2/2) (189.3-224.1)	152.7 (2/2) (140.5-164.8)	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 2006

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 (3)					No Control	
	Be-7	-	377.1 (3/3) (224.8-653.6)	EEA 3.0 miles NNW	653.6 (1/1)		0
	K-40	-	2234.2 (3/3) (1622.3-3363.2)	MUDS 1.5 miles WNW	2540.2 (2/2) (1717.1-3363.2)		0
Terrestrial Vegetation (pCi/kg wet)	Gamma (2)					No Control	
	Be-7	-	711.0 (2/2) (357.1-1064.9)	MUDS 1.5 miles WNW	1064.9 (1/1)		0
	K-40		6876.8 (2/2) (6269.3-7484.2)	EEA 3.0 miles NNW	7484.2 (1/1)		
Soil (pCi/kg dry)	Gamma (2)					No Control	
	K-40	-	11840.5 (2/2) (10501-13180)	EEA 3.0 miles NNW	13180 (1/1)		0
Deer (pCi/kg wet)	Gamma (1)					No Control	
	K-40	-	2860.5 (1/1)	A.8 0.8 miles N	2860.5 (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
28-DEC-05	05-JAN-06	347	0.028+/- 0.004	< 0.008	
28-DEC-05	05-JAN-06	347	0.030+/- 0.004		Duplicate
05-JAN-06	11-JAN-06	265	0.033+/- 0.005	< 0.022	
11-JAN-06	18-JAN-06	303	0.027+/- 0.004	< 0.013	
18-JAN-06	25-JAN-06	307	0.023+/- 0.004	< 0.011	
25-JAN-06	01-FEB-06	312	0.018+/- 0.003	< 0.013	
25-JAN-06	01-FEB-06	312	0.020+/- 0.003		Duplicate
01-FEB-06	08-FEB-06	313	0.024+/- 0.004	< 0.010	
08-FEB-06	15-FEB-06	301	0.027+/- 0.004	< 0.015	
15-FEB-06	22-FEB-06	311	0.031+/- 0.004	< 0.012	
22-FEB-06	01-MAR-06	305	0.035+/- 0.004	< 0.011	
01-MAR-06	08-MAR-06	296	0.034+/- 0.004	< 0.016	
08-MAR-06	14-MAR-06	273	0.028+/- 0.004	< 0.018	
14-MAR-06	23-MAR-06	390	0.017+/- 0.003	< 0.012	
23-MAR-06	29-MAR-06	255	0.022+/- 0.004	< 0.018	
29-MAR-06	05-APR-06	295	0.018+/- 0.003	< 0.015	
05-APR-06	12-APR-06	309	0.026+/- 0.004	< 0.008	
12-APR-06	19-APR-06	307	0.027+/- 0.004	< 0.016	
19-APR-06	27-APR-06	350	0.020+/- 0.003	< 0.014	
27-APR-06	03-MAY-06	265	0.019+/- 0.004	< 0.016	
03-MAY-06	10-MAY-06	303	0.017+/- 0.003	< 0.016	
10-MAY-06	17-MAY-06	294	0.015+/- 0.003	< 0.014	
17-MAY-06	24-MAY-06	277	0.028+/- 0.004	< 0.008	
24-MAY-06	31-MAY-06	275	0.024+/- 0.004	< 0.007	
31-MAY-06	07-JUN-06	277	0.031+/- 0.004	< 0.007	
07-JUN-06	14-JUN-06	297	0.029+/- 0.004	< 0.011	
14-JUN-06	21-JUN-06	302	0.026+/- 0.004	< 0.013	
14-JUN-06	21-JUN-06	302	0.029+/- 0.004		Duplicate
21-JUN-06	28-JUN-06	302	0.025+/- 0.004	< 0.016	
21-JUN-06	28-JUN-06	302	0.020+/- 0.004		Duplicate
28-JUN-06	05-JUL-06	311	0.030+/- 0.004	< 0.015	
05-JUL-06	12-JUL-06	300	0.029+/- 0.004	< 0.009	
12-JUL-06	19-JUL-06	311	0.030+/- 0.004	< 0.018	
12-JUL-06	19-JUL-06	311	0.024+/- 0.004		Duplicate
19-JUL-06	27-JUL-06	351	0.032+/- 0.004	< 0.015	
27-JUL-06	02-AUG-06	252	0.020+/- 0.004	< 0.010	
02-AUG-06	09-AUG-06	301	0.027+/- 0.004	< 0.009	
09-AUG-06	16-AUG-06	302	0.023+/- 0.004	< 0.005	
16-AUG-06	24-AUG-06	346	0.038+/- 0.004	< 0.011	
24-AUG-06	30-AUG-06	259	0.031+/- 0.005	< 0.014	

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
30-AUG-06	06-SEP-06	302	0.029+/- 0.004	< 0.021	
06-SEP-06	13-SEP-06	297	0.038+/- 0.004	< 0.011	
13-SEP-06	20-SEP-06	306	0.024+/- 0.004	< 0.011	
20-SEP-06	27-SEP-06	293	0.026+/- 0.004	< 0.016	
27-SEP-06	03-OCT-06	261	0.028+/- 0.005	< 0.014	
03-OCT-06	11-OCT-06	333	0.035+/- 0.004	< 0.013	
11-OCT-06	18-OCT-06	311	0.025+/- 0.004	< 0.007	
18-OCT-06	25-OCT-06	283	0.030+/- 0.004	< 0.008	
18-OCT-06	25-OCT-06	283	0.027+/- 0.004		Duplicate
25-OCT-06	01-NOV-06	311	0.024+/- 0.004	< 0.018	
01-NOV-06	08-NOV-06	294	0.038+/- 0.005	< 0.020	
08-NOV-06	16-NOV-06	347	0.048+/- 0.004	< 0.016	
16-NOV-06	22-NOV-06	259	0.044+/- 0.005	< 0.029	
22-NOV-06	01-DEC-06	403	0.040+/- 0.004	< 0.014	
01-DEC-06	05-DEC-06	182	0.053+/- 0.007	< 0.024	
05-DEC-06	13-DEC-06	352	0.038+/- 0.004	< 0.012	
13-DEC-06	20-DEC-06	318	0.036+/- 0.004	< 0.014	
20-DEC-06	27-DEC-06	319	0.023+/- 0.004	< 0.017	
27-DEC-06	04-JAN-07	353	0.022+/- 0.003	< 0.016	

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
28-DEC-05	05-JAN-06	365	0.028+/- 0.004	< 0.008	
05-JAN-06	11-JAN-06	265	0.036+/- 0.005	< 0.022	
11-JAN-06	18-JAN-06	300	0.027+/- 0.004	< 0.014	
18-JAN-06	25-JAN-06	300	0.024+/- 0.004	< 0.011	
25-JAN-06	01-FEB-06	300	0.020+/- 0.004	< 0.013	
01-FEB-06	08-FEB-06	307	0.021+/- 0.004	< 0.010	
08-FEB-06	15-FEB-06	294	0.027+/- 0.004	< 0.015	
15-FEB-06	22-FEB-06	305	0.034+/- 0.004	< 0.012	
22-FEB-06	01-MAR-06	298	0.037+/- 0.004	< 0.011	
01-MAR-06	08-MAR-06	294	0.038+/- 0.004	< 0.016	
08-MAR-06	14-MAR-06	271	0.033+/- 0.004	< 0.019	
14-MAR-06	23-MAR-06	383	0.020+/- 0.003	< 0.012	
23-MAR-06	29-MAR-06	248	0.022+/- 0.004	< 0.019	
29-MAR-06	05-APR-06	286	0.023+/- 0.004	< 0.015	
05-APR-06	12-APR-06	304	0.029+/- 0.004	< 0.008	
12-APR-06	19-APR-06	291	0.027+/- 0.004	< 0.017	
19-APR-06	27-APR-06	348	0.025+/- 0.003	< 0.014	
27-APR-06	03-MAY-06	256	0.019+/- 0.004	< 0.017	
27-APR-06	03-MAY-06	256	0.022+/- 0.004		Duplicate
03-MAY-06	10-MAY-06	301	0.016+/- 0.003	< 0.017	
10-MAY-06	17-MAY-06	306	0.015+/- 0.003	< 0.013	
17-MAY-06	24-MAY-06	287	0.034+/- 0.004	< 0.008	
24-MAY-06	31-MAY-06	295	0.021+/- 0.004	< 0.007	
31-MAY-06	07-JUN-06	302	0.032+/- 0.004	< 0.006	
07-JUN-06	14-JUN-06	305	0.025+/- 0.004	< 0.011	
14-JUN-06	21-JUN-06	298	0.026+/- 0.004	< 0.013	
21-JUN-06	28-JUN-06	297	0.022+/- 0.004	< 0.017	
28-JUN-06	05-JUL-06	313	0.026+/- 0.004	< 0.015	
05-JUL-06	12-JUL-06	287	0.026+/- 0.004	< 0.010	
12-JUL-06	19-JUL-06	303	0.026+/- 0.004	< 0.018	
19-JUL-06	27-JUL-06	349	0.029+/- 0.004	< 0.015	
27-JUL-06	02-AUG-06	244	0.021+/- 0.004	< 0.010	
02-AUG-06	09-AUG-06	304	0.025+/- 0.004	< 0.009	
09-AUG-06	16-AUG-06	300	0.027+/- 0.004	< 0.005	
16-AUG-06	24-AUG-06	345	0.036+/- 0.004	< 0.011	
24-AUG-06	30-AUG-06	263	0.027+/- 0.004	< 0.014	
30-AUG-06	06-SEP-06	318	0.032+/- 0.004	< 0.020	
06-SEP-06	13-SEP-06	302	0.035+/- 0.004	< 0.011	
13-SEP-06	20-SEP-06	311	0.023+/- 0.004	< 0.011	
20-SEP-06	27-SEP-06	286	0.031+/- 0.004	< 0.017	

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-SEP-06	03-OCT-06	264	0.032+/- 0.005	< 0.014	
03-OCT-06	11-OCT-06	336	0.032+/- 0.004	< 0.013	
11-OCT-06	18-OCT-06	309	0.026+/- 0.004	< 0.007	
18-OCT-06	25-OCT-06	290	0.028+/- 0.004	< 0.008	
25-OCT-06	01-NOV-06	314	0.023+/- 0.004	< 0.018	
01-NOV-06	08-NOV-06	299	0.039+/- 0.005	< 0.020	
08-NOV-06	16-NOV-06	340	0.044+/- 0.004	< 0.016	
16-NOV-06	22-NOV-06	260	0.042+/- 0.005	< 0.028	
22-NOV-06	01-DEC-06	390	0.041+/- 0.004	< 0.015	
01-DEC-06	05-DEC-06	174	0.059+/- 0.007	< 0.025	
05-DEC-06	13-DEC-06	342	0.040+/- 0.004	< 0.012	
13-DEC-06	20-DEC-06	303	0.035+/- 0.004	< 0.015	
20-DEC-06	27-DEC-06	314	0.027+/- 0.004	< 0.017	
27-DEC-06	04-JAN-07	338	0.023+/- 0.003	< 0.017	

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
28-DEC-05	05-JAN-06	348	0.028+/- 0.004	< 0.008	
05-JAN-06	11-JAN-06	261	0.031+/- 0.005	< 0.022	
11-JAN-06	18-JAN-06	299	0.027+/- 0.004	< 0.014	
18-JAN-06	25-JAN-06	302	0.027+/- 0.004	< 0.011	
25-JAN-06	01-FEB-06	299	0.021+/- 0.004	< 0.013	
01-FEB-06	08-FEB-06	310	0.024+/- 0.004	< 0.010	
08-FEB-06	15-FEB-06	292	0.023+/- 0.004	< 0.016	
15-FEB-06	22-FEB-06	304	0.035+/- 0.004	< 0.012	
22-FEB-06	01-MAR-06	306	0.033+/- 0.004	< 0.011	
01-MAR-06	08-MAR-06	297	0.035+/- 0.004	< 0.016	
08-MAR-06	14-MAR-06	269	0.026+/- 0.004	< 0.019	
14-MAR-06	23-MAR-06	390	0.019+/- 0.003	< 0.012	
23-MAR-06	29-MAR-06	260	0.020+/- 0.004	< 0.018	
29-MAR-06	05-APR-06	281	0.023+/- 0.004	< 0.015	
05-APR-06	12-APR-06	292	0.027+/- 0.004	< 0.009	
12-APR-06	19-APR-06	301	0.025+/- 0.004	< 0.016	
19-APR-06	27-APR-06	351	0.021+/- 0.003	< 0.014	
27-APR-06	03-MAY-06	252	0.024+/- 0.004	< 0.017	
03-MAY-06	10-MAY-06	301	0.016+/- 0.003	< 0.017	
10-MAY-06	17-MAY-06	306	0.014+/- 0.003	< 0.013	
17-MAY-06	24-MAY-06	282	0.031+/- 0.004	< 0.008	
24-MAY-06	31-MAY-06	280	0.024+/- 0.004	< 0.007	
31-MAY-06	07-JUN-06	301	0.032+/- 0.004	< 0.006	
07-JUN-06	14-JUN-06	284	0.030+/- 0.004	< 0.011	
14-JUN-06	21-JUN-06	296	0.029+/- 0.004	< 0.013	
21-JUN-06	28-JUN-06	297	0.022+/- 0.004	< 0.017	
28-JUN-06	05-JUL-06	311	0.031+/- 0.004	< 0.015	
05-JUL-06	12-JUL-06	290	0.025+/- 0.004	< 0.009	
12-JUL-06	19-JUL-06	303	0.027+/- 0.004	< 0.018	
19-JUL-06	27-JUL-06	343	0.032+/- 0.004	< 0.015	
27-JUL-06	02-AUG-06	247	0.021+/- 0.004	< 0.010	
02-AUG-06	09-AUG-06	301	0.027+/- 0.004	< 0.009	
09-AUG-06	16-AUG-06	302	0.024+/- 0.004	< 0.005	
16-AUG-06	24-AUG-06	340	0.038+/- 0.004	< 0.011	
24-AUG-06	30-AUG-06	254	0.028+/- 0.004	< 0.014	
30-AUG-06	06-SEP-06	302	0.028+/- 0.004	< 0.021	
06-SEP-06	13-SEP-06	297	0.038+/- 0.004	< 0.011	
13-SEP-06	20-SEP-06	314	0.027+/- 0.004	< 0.011	
20-SEP-06	27-SEP-06	261	0.037+/- 0.005	< 0.018	
27-SEP-06	03-OCT-06	243	0.030+/- 0.005	< 0.015	

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-06	11-OCT-06	316	0.030+/- 0.004	< 0.013	
11-OCT-06	18-OCT-06	289	0.024+/- 0.004	< 0.007	
18-OCT-06	25-OCT-06	265	0.029+/- 0.005	< 0.009	
25-OCT-06	01-NOV-06	279	0.025+/- 0.004	< 0.020	
01-NOV-06	08-NOV-06	319	0.034+/- 0.004	< 0.019	
08-NOV-06	16-NOV-06	345	0.045+/- 0.004	< 0.016	
16-NOV-06	22-NOV-06	259	0.042+/- 0.005	< 0.029	
22-NOV-06	01-DEC-06	397	0.041+/- 0.004	< 0.014	
01-DEC-06	05-DEC-06	181	0.052+/- 0.007	< 0.024	
05-DEC-06	13-DEC-06	347	0.031+/- 0.004	< 0.012	
13-DEC-06	20-DEC-06	308	0.030+/- 0.004	< 0.015	
20-DEC-06	27-DEC-06	330	0.027+/- 0.004	< 0.016	
27-DEC-06	04-JAN-07	358	0.022+/- 0.003	< 0.016	

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
28-DEC-05	05-JAN-06	342	0.027+/- 0.004	< 0.009	
05-JAN-06	11-JAN-06	261	0.028+/- 0.004	< 0.022	
11-JAN-06	18-JAN-06	303	0.027+/- 0.004	< 0.013	
18-JAN-06	25-JAN-06	298	0.025+/- 0.004	< 0.011	
25-JAN-06	01-FEB-06	302	0.021+/- 0.004	< 0.013	
01-FEB-06	08-FEB-06	308	0.023+/- 0.004	< 0.010	
08-FEB-06	15-FEB-06	292	0.026+/- 0.004	< 0.016	
15-FEB-06	22-FEB-06	304	0.031+/- 0.004	< 0.012	
22-FEB-06	01-MAR-06	306	0.039+/- 0.004	< 0.011	
01-MAR-06	08-MAR-06	291	0.041+/- 0.005	< 0.016	
08-MAR-06	14-MAR-06	269	0.026+/- 0.004	< 0.019	
14-MAR-06	23-MAR-06	371	0.019+/- 0.003	< 0.013	
23-MAR-06	29-MAR-06	233	0.021+/- 0.004	< 0.020	
29-MAR-06	05-APR-06	270	0.022+/- 0.004	< 0.016	
05-APR-06	12-APR-06	294	0.033+/- 0.004	< 0.009	
12-APR-06	19-APR-06	291	0.024+/- 0.004	< 0.017	
19-APR-06	27-APR-06	328	0.023+/- 0.003	< 0.015	
27-APR-06	03-MAY-06	266	0.021+/- 0.004	< 0.016	
03-MAY-06	10-MAY-06	301	0.019+/- 0.003	< 0.017	
10-MAY-06	17-MAY-06	307	0.020+/- 0.003	< 0.013	
17-MAY-06	24-MAY-06	285	0.029+/- 0.004	< 0.008	
24-MAY-06	31-MAY-06	290	0.022+/- 0.004	< 0.007	
31-MAY-06	07-JUN-06	287	0.028+/- 0.004	< 0.007	
07-JUN-06	14-JUN-06	288	0.028+/- 0.004	< 0.011	
14-JUN-06	21-JUN-06	307	0.026+/- 0.004	< 0.013	
21-JUN-06	28-JUN-06	312	0.023+/- 0.004	< 0.016	
28-JUN-06	05-JUL-06	322	0.030+/- 0.004	< 0.015	
05-JUL-06	12-JUL-06	299	0.029+/- 0.004	< 0.009	
12-JUL-06	19-JUL-06	309	0.029+/- 0.004	< 0.018	
19-JUL-06	27-JUL-06	360	0.038+/- 0.004	< 0.014	
27-JUL-06	02-AUG-06	260	0.020+/- 0.004	< 0.009	
02-AUG-06	09-AUG-06	301	0.026+/- 0.004	< 0.009	
09-AUG-06	16-AUG-06	291	0.027+/- 0.004	< 0.005	
16-AUG-06	24-AUG-06	346	0.038+/- 0.004	< 0.011	
24-AUG-06	30-AUG-06	259	0.027+/- 0.004	< 0.014	
30-AUG-06	06-SEP-06	302	0.032+/- 0.004	< 0.021	
06-SEP-06	13-SEP-06	302	0.042+/- 0.005	< 0.011	
13-SEP-06	20-SEP-06	313	0.025+/- 0.004	< 0.011	
20-SEP-06	27-SEP-06	276	0.028+/- 0.004	< 0.017	
27-SEP-06	03-OCT-06	252	0.030+/- 0.005	< 0.014	

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
03-OCT-06	11-OCT-06	322	0.033+/- 0.004	< 0.013	
11-OCT-06	18-OCT-06	300	0.023+/- 0.004	< 0.007	
18-OCT-06	25-OCT-06	284	0.024+/- 0.004	< 0.008	
25-OCT-06	01-NOV-06	300	0.023+/- 0.004	< 0.018	
01-NOV-06	08-NOV-06	279	0.036+/- 0.005	< 0.021	
08-NOV-06	16-NOV-06	346	0.047+/- 0.004	< 0.016	
16-NOV-06	22-NOV-06	259	0.043+/- 0.005	< 0.029	
22-NOV-06	01-DEC-06	390	0.038+/- 0.004	< 0.015	
01-DEC-06	05-DEC-06	178	0.057+/- 0.007	< 0.024	
05-DEC-06	13-DEC-06	342	0.038+/- 0.004	< 0.012	
13-DEC-06	20-DEC-06	308	0.033+/- 0.004	< 0.015	
20-DEC-06	27-DEC-06	314	0.027+/- 0.004	< 0.017	
27-DEC-06	04-JAN-07	342	0.021+/- 0.003	< 0.017	

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
28-DEC-05	05-JAN-06	336	0.030+/- 0.004	< 0.009	
05-JAN-06	11-JAN-06	261	0.032+/- 0.005	< 0.022	
11-JAN-06	18-JAN-06	305	0.024+/- 0.004	< 0.013	
18-JAN-06	25-JAN-06	307	0.025+/- 0.004	< 0.011	
25-JAN-06	01-FEB-06	301	0.020+/- 0.004	< 0.013	
01-FEB-06	08-FEB-06	314	0.024+/- 0.004	< 0.010	
08-FEB-06	15-FEB-06	290	0.027+/- 0.004	< 0.016	
15-FEB-06	22-FEB-06	305	0.030+/- 0.004	< 0.012	
22-FEB-06	01-MAR-06	306	0.034+/- 0.004	< 0.011	
01-MAR-06	08-MAR-06	296	0.033+/- 0.004	< 0.016	
08-MAR-06	14-MAR-06	269	0.026+/- 0.004	< 0.019	
08-MAR-06	14-MAR-06	269	0.025+/- 0.004		Duplicate
14-MAR-06	23-MAR-06	385	0.021+/- 0.003	< 0.012	
23-MAR-06	29-MAR-06	258	0.020+/- 0.004	< 0.018	
29-MAR-06	05-APR-06	303	0.022+/- 0.004	< 0.014	
05-APR-06	12-APR-06	295	0.030+/- 0.004	< 0.009	
12-APR-06	19-APR-06	296	0.028+/- 0.004	< 0.016	
19-APR-06	27-APR-06	114	0.012+/- 0.006	< 0.043	
27-APR-06	03-MAY-06	261	0.018+/- 0.004	< 0.016	
03-MAY-06	10-MAY-06	305	0.017+/- 0.003	< 0.016	
10-MAY-06	17-MAY-06	302	0.016+/- 0.003	< 0.014	
17-MAY-06	24-MAY-06	286	0.032+/- 0.004	< 0.008	
24-MAY-06	31-MAY-06	280	0.024+/- 0.004	< 0.007	
31-MAY-06	07-JUN-06	296	0.029+/- 0.004	< 0.006	
07-JUN-06	14-JUN-06	284	0.031+/- 0.004	< 0.011	
14-JUN-06	21-JUN-06	301	0.026+/- 0.004	< 0.013	
21-JUN-06	28-JUN-06	307	0.027+/- 0.004	< 0.016	
28-JUN-06	05-JUL-06	327	0.027+/- 0.004	< 0.015	
05-JUL-06	12-JUL-06	290	0.025+/- 0.004	< 0.009	
12-JUL-06	19-JUL-06	291	0.031+/- 0.004	< 0.019	
19-JUL-06	27-JUL-06	349	0.029+/- 0.004	< 0.015	
27-JUL-06	02-AUG-06	249	0.024+/- 0.004	< 0.010	
02-AUG-06	09-AUG-06	297	0.028+/- 0.004	< 0.009	
09-AUG-06	16-AUG-06	304	0.028+/- 0.004	< 0.005	
16-AUG-06	24-AUG-06	337	0.038+/- 0.004	< 0.011	
24-AUG-06	30-AUG-06	250	0.025+/- 0.004	< 0.014	
30-AUG-06	06-SEP-06	302	0.035+/- 0.004	< 0.021	
06-SEP-06	13-SEP-06	298	0.039+/- 0.004	< 0.011	
13-SEP-06	20-SEP-06	313	0.027+/- 0.004	< 0.011	
20-SEP-06	27-SEP-06	295	0.029+/- 0.004	< 0.016	

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
20-SEP-06	27-SEP-06	295	0.029+/- 0.004		Duplicate
27-SEP-06	03-OCT-06	265	0.028+/- 0.004	< 0.014	
03-OCT-06	11-OCT-06	339	0.031+/- 0.004	< 0.012	
11-OCT-06	18-OCT-06	302	0.025+/- 0.004	< 0.007	
18-OCT-06	25-OCT-06	278	0.029+/- 0.004	< 0.008	
25-OCT-06	01-NOV-06	300	0.027+/- 0.004	< 0.018	
01-NOV-06	08-NOV-06	300	0.032+/- 0.004	< 0.020	
08-NOV-06	16-NOV-06	341	0.044+/- 0.004	< 0.016	
16-NOV-06	22-NOV-06	260	0.037+/- 0.005	< 0.028	
22-NOV-06	01-DEC-06	390	0.037+/- 0.004	< 0.015	
01-DEC-06	05-DEC-06	179	0.049+/- 0.007	< 0.024	
05-DEC-06	13-DEC-06	339	0.034+/- 0.004	< 0.012	
13-DEC-06	20-DEC-06	303	0.033+/- 0.004	< 0.015	
20-DEC-06	27-DEC-06	314	0.026+/- 0.004	< 0.017	
27-DEC-06	04-JAN-07	338	0.019+/- 0.003	< 0.017	

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
28-DEC-05	05-JAN-06	335	0.026+/- 0.004	< 0.009	
05-JAN-06	11-JAN-06	131	0.023+/- 0.007	< 0.044	
11-JAN-06	18-JAN-06	299	0.024+/- 0.004	< 0.014	
18-JAN-06	25-JAN-06	292	0.024+/- 0.004	< 0.011	
25-JAN-06	01-FEB-06	298	0.020+/- 0.004	< 0.013	
01-FEB-06	08-FEB-06	298	0.023+/- 0.004	< 0.011	
08-FEB-06	15-FEB-06	281	0.026+/- 0.004	< 0.016	
15-FEB-06	22-FEB-06	289	0.031+/- 0.004	< 0.013	
22-FEB-06	01-MAR-06	287	0.043+/- 0.005	< 0.011	
01-MAR-06	08-MAR-06	275	0.036+/- 0.005	< 0.017	
08-MAR-06	14-MAR-06	260	0.024+/- 0.004	< 0.019	
14-MAR-06	23-MAR-06	364	0.022+/- 0.003	< 0.013	
23-MAR-06	29-MAR-06	238	0.015+/- 0.004	< 0.020	
29-MAR-06	05-APR-06	288	0.020+/- 0.004	< 0.015	
05-APR-06	12-APR-06	280	0.028+/- 0.004	< 0.009	
12-APR-06	19-APR-06	286	0.026+/- 0.004	< 0.017	
19-APR-06	27-APR-06	316	0.025+/- 0.003	< 0.015	
27-APR-06	03-MAY-06	270	0.020+/- 0.004	< 0.016	
03-MAY-06	10-MAY-06	308	0.024+/- 0.004	< 0.016	
10-MAY-06	17-MAY-06	337	0.018+/- 0.003	< 0.012	
17-MAY-06	24-MAY-06	284	0.030+/- 0.004	< 0.008	
24-MAY-06	31-MAY-06	290	0.021+/- 0.004	< 0.007	
31-MAY-06	07-JUN-06	298	0.029+/- 0.004	< 0.006	
07-JUN-06	14-JUN-06	286	0.033+/- 0.004	< 0.011	
14-JUN-06	21-JUN-06	297	0.023+/- 0.004	< 0.013	
21-JUN-06	28-JUN-06	292	0.025+/- 0.004	< 0.017	
28-JUN-06	05-JUL-06	300	0.034+/- 0.004	< 0.016	
05-JUL-06	12-JUL-06	290	0.025+/- 0.004	< 0.009	
12-JUL-06	19-JUL-06	294	0.034+/- 0.004	< 0.019	
19-JUL-06	27-JUL-06	324	0.033+/- 0.004	< 0.016	
27-JUL-06	02-AUG-06	239	0.022+/- 0.004	< 0.010	
02-AUG-06	09-AUG-06	301	0.029+/- 0.004	< 0.009	
09-AUG-06	16-AUG-06	302	0.026+/- 0.004	< 0.005	
16-AUG-06	24-AUG-06	346	0.040+/- 0.004	< 0.011	
24-AUG-06	30-AUG-06	259	0.028+/- 0.004	< 0.014	
30-AUG-06	06-SEP-06	301	0.034+/- 0.004	< 0.021	
30-AUG-06	06-SEP-06	301	0.036+/- 0.004		Duplicate
06-SEP-06	13-SEP-06	298	0.042+/- 0.005	< 0.011	
13-SEP-06	20-SEP-06	293	0.027+/- 0.004	< 0.012	
20-SEP-06	27-SEP-06	291	0.030+/- 0.004	< 0.017	

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-SEP-06	03-OCT-06	261	0.033+/- 0.005	< 0.014	
03-OCT-06	11-OCT-06	333	0.034+/- 0.004	< 0.013	
11-OCT-06	18-OCT-06	311	0.026+/- 0.004	< 0.007	
18-OCT-06	25-OCT-06	287	0.016+/- 0.004	< 0.008	
25-OCT-06	01-NOV-06	292	0.022+/- 0.004	< 0.019	
01-NOV-06	08-NOV-06	279	0.034+/- 0.005	< 0.021	
08-NOV-06	16-NOV-06	347	0.042+/- 0.004	< 0.016	
16-NOV-06	22-NOV-06	264	0.041+/- 0.005	< 0.028	
22-NOV-06	01-DEC-06	397	0.037+/- 0.004	< 0.014	
01-DEC-06	05-DEC-06	181	0.057+/- 0.007	< 0.024	
05-DEC-06	13-DEC-06	340	0.038+/- 0.004	< 0.012	
13-DEC-06	20-DEC-06	303	0.034+/- 0.004	< 0.015	
20-DEC-06	27-DEC-06	314	0.025+/- 0.004	< 0.017	
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

Quarterly Air Particulate - Gamma

Location: 002

29-MAR-06

Nuclide	Concentration (pCi/m³)	
BE-7	.058+/-	0.010
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

28-JUN-06

Nuclide	Concentration (pCi/m³)	
BE-7	.089+/-	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-OCT-06

Nuclide	Concentration (pCi/m³)	
BE-7	.082+/-	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

27-DEC-06

Nuclide	Concentration (pCi/m³)	
BE-7	.09+/-	0.018
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: 002

27-DEC-06

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

29-MAR-06

Nuclide	Concentration (pCi/m³)	
BE-7	.071+/-	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

28-JUN-06

Nuclide	Concentration (pCi/m³)	
BE-7	.102+/-	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-06

Nuclide	Concentration (pCi/m³)	
BE-7	.076+/-	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

27-DEC-06

Nuclide	Concentration (pCi/m³)	
BE-7	.071+/-	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: 018

27-DEC-06

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

29-MAR-06

Nuclide	Concentration (pCi/m³)	
BE-7	.058+/-	0.010
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

28-JUN-06

Nuclide	Concentration (pCi/m³)	
BE-7	.1+/-	0.012
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-06

Nuclide	Concentration (pCi/m³)	
BE-7	.076+/-	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

27-DEC-06

Nuclide	Concentration (pCi/m³)	
BE-7	.061+/-	0.013
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

27-DEC-06

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

29-MAR-06

Nuclide	Concentration (pCi/m³)	
BE-7	.064+/-	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

28-JUN-06

Nuclide	Concentration (pCi/m³)	
BE-7	.11+/-	0.016
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-06

Nuclide	Concentration (pCi/m³)	
BE-7	.112+/-	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

27-DEC-06

Nuclide	Concentration (pCi/m³)	
BE-7	.064+/-	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: 037

27-DEC-06

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

29-MAR-06

Nuclide	Concentration (pCi/m³)	
BE-7	.054+/-	0.012
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

28-JUN-06

Nuclide	Concentration (pCi/m³)	
BE-7	.107+/-	0.016
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-06

Nuclide	Concentration (pCi/m³)	
BE-7	.085+/-	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

27-DEC-06

Nuclide	Concentration (pCi/m³)	
BE-7	.075+/-	0.014
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

27-DEC-06

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

29-MAR-06

Nuclide	Concentration (pCi/m3)		
BE-7	.058+/-	0.016	*
BE-7	.061+/-	0.012	
CO-58	<	0.001	*
CO-58	<	0.001	
CO-60	<	0.001	*
CO-60	<	0.001	
CS-134	<	0.001	
CS-134	<	0.002	*
CS-137	<	0.001	*
CS-137	<	0.001	
FE-59	<	0.001	
FE-59	<	0.002	*
MN-54	<	0.001	*
MN-54	<	0.001	
ZN-65	<	0.001	*
ZN-65	<	0.001	
ZR-NB-95	<	0.001	
ZR-NB-95	<	0.002	*

28-JUN-06

Nuclide	Concentration (pCi/m3)	
BE-7	.113+/-	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-06

Nuclide	Concentration (pCi/m3)		
BE-7	.084+/-	0.012	*
BE-7	.084+/-	0.016	
CO-58	<	0.001	*
CO-58	<	0.001	
CO-60	<	0.001	*
CO-60	<	0.001	
CS-134	<	0.001	*
CS-134	<	0.001	
CS-137	<	0.001	*

* Duplicate Analysis

Quarterly Air Particulate - Gamma

Location: 049

03-OCT-06

Nuclide	Concentration (pCi/m³)		
CS-137	<	0.001	
FE-59	<	0.002	*
FE-59	<	0.002	
MN-54	<	0.001	*
MN-54	<	0.001	
ZN-65	<	0.001	*
ZN-65	<	0.001	
ZR-NB-95	<	0.001	*
ZR-NB-95	<	0.001	

27-DEC-06

Nuclide	Concentration (pCi/m³)	
BE-7	.066+/-	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

* Duplicate Analysis

Exposure Pathway - Waterborne
Surface Water

Location JRR

Collection Date	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Liter)		Duplicate Analysis
12-JAN-06	MN-54	<	6.400	
12-JAN-06	CO-58	<	7.600	
12-JAN-06	FE-59	<	10.200	
12-JAN-06	CO-60	<	3.200	
12-JAN-06	ZN-65	<	5.400	
12-JAN-06	ZR-NB-95	<	4.800	
12-JAN-06	I-131	<	6.900	
12-JAN-06	CS-134	<	3.600	
12-JAN-06	CS-137	<	7.000	
12-JAN-06	BA-LA-140	<	3.300	
12-JAN-06	H-3	<	145.000	
09-FEB-06	MN-54	<	2.300	
09-FEB-06	CO-58	<	2.100	
09-FEB-06	FE-59	<	3.900	
09-FEB-06	CO-60	<	3.500	
09-FEB-06	ZN-65	<	2.500	
09-FEB-06	ZR-NB-95	<	3.600	
09-FEB-06	I-131	<	8.600	
09-FEB-06	CS-134	<	3.300	
09-FEB-06	CS-137	<	4.000	
09-FEB-06	BA-LA-140	<	3.300	
09-FEB-06	H-3	<	153.000	
16-MAR-06	MN-54	<	2.600	
16-MAR-06	CO-58	<	2.900	
16-MAR-06	FE-59	<	5.400	
16-MAR-06	CO-60	<	3.800	
16-MAR-06	ZN-65	<	5.600	
16-MAR-06	ZR-NB-95	<	3.900	
16-MAR-06	I-131	<	8.900	
16-MAR-06	CS-134	<	4.200	
16-MAR-06	CS-137	<	3.200	
16-MAR-06	BA-LA-140	<	5.200	
16-MAR-06	H-3	<	176.000	
13-APR-06	MN-54	<	4.900	
13-APR-06	CO-58	<	4.400	
13-APR-06	FE-59	<	5.100	
13-APR-06	CO-60	<	6.800	
13-APR-06	ZN-65	<	5.500	
13-APR-06	ZR-NB-95	<	3.900	
13-APR-06	I-131	<	8.900	
13-APR-06	CS-134	<	4.300	

Exposure Pathway - Waterborne
Surface Water

Location JRR

Collection Date	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Liter)		Duplicate Analysis
13-APR-06	CS-137	<	4.100	
13-APR-06	BA-LA-140	<	6.400	
13-APR-06	H-3	<	158.000	
11-MAY-06	MN-54	<	2.200	
11-MAY-06	CO-58	<	2.400	
11-MAY-06	FE-59	<	5.700	
11-MAY-06	CO-60	<	2.100	
11-MAY-06	ZN-65	<	2.600	
11-MAY-06	ZR-NB-95	<	2.400	
11-MAY-06	I-131	<	4.800	
11-MAY-06	CS-134	<	3.100	
11-MAY-06	CS-137	<	2.300	
11-MAY-06	BA-LA-140	<	2.800	
11-MAY-06	H-3	<	140.000	
08-JUN-06	MN-54	<	2.800	
08-JUN-06	CO-58	<	3.200	
08-JUN-06	FE-59	<	5.300	
08-JUN-06	CO-60	<	6.300	
08-JUN-06	ZN-65	<	7.000	
08-JUN-06	ZR-NB-95	<	5.000	
08-JUN-06	I-131	<	6.400	
08-JUN-06	CS-134	<	5.100	
08-JUN-06	CS-137	<	4.700	
08-JUN-06	BA-LA-140	<	3.800	
08-JUN-06	H-3	<	186.000	
13-JUL-06	MN-54	<	3.000	
13-JUL-06	MN-54	<	4.500	Duplicate
13-JUL-06	CO-58	<	2.500	
13-JUL-06	CO-58	<	2.900	Duplicate
13-JUL-06	FE-59	<	5.800	
13-JUL-06	FE-59	<	3.700	Duplicate
13-JUL-06	CO-60	<	2.300	
13-JUL-06	CO-60	<	2.200	Duplicate
13-JUL-06	ZN-65	<	2.500	
13-JUL-06	ZN-65	<	3.800	Duplicate
13-JUL-06	ZR-NB-95	<	4.000	
13-JUL-06	ZR-NB-95	<	4.200	Duplicate
13-JUL-06	I-131	<	4.500	
13-JUL-06	I-131	<	8.400	Duplicate
13-JUL-06	CS-134	<	2.800	
13-JUL-06	CS-134	<	4.700	Duplicate

Exposure Pathway - Waterborne
Surface Water

Location JRR

Collection Date	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Liter)		Duplicate Analysis
13-JUL-06	CS-137	<	4.500	
13-JUL-06	CS-137	<	5.200	Duplicate
13-JUL-06	BA-LA-140	<	1.600	
13-JUL-06	BA-LA-140	<	6.700	Duplicate
13-JUL-06	H-3	<	147.000	
13-JUL-06	H-3	<	147.000	Duplicate
24-AUG-06	MN-54	<	1.400	
24-AUG-06	CO-58	<	2.100	
24-AUG-06	FE-59	<	3.500	
24-AUG-06	CO-60	<	1.500	
24-AUG-06	ZN-65	<	4.200	
24-AUG-06	ZR-NB-95	<	2.900	
24-AUG-06	I-131	<	3.100	
24-AUG-06	CS-134	<	2.400	
24-AUG-06	CS-137	<	3.000	
24-AUG-06	BA-LA-140	<	1.800	
24-AUG-06	H-3	<	143.000	
14-SEP-06	MN-54	<	3.200	
14-SEP-06	CO-58	<	3.300	
14-SEP-06	FE-59	<	4.500	
14-SEP-06	CO-60	<	1.200	
14-SEP-06	ZN-65	<	4.500	
14-SEP-06	ZR-NB-95	<	3.200	
14-SEP-06	I-131	<	3.600	
14-SEP-06	CS-134	<	3.400	
14-SEP-06	CS-137	<	4.400	
14-SEP-06	BA-LA-140	<	5.700	
14-SEP-06	H-3	<	186.000	
12-OCT-06	MN-54	<	4.000	
12-OCT-06	MN-54	<	2.600	Duplicate
12-OCT-06	CO-58	<	5.100	
12-OCT-06	CO-58	<	2.900	Duplicate
12-OCT-06	FE-59	<	9.600	
12-OCT-06	FE-59	<	7.300	Duplicate
12-OCT-06	CO-60	<	3.400	
12-OCT-06	CO-60	<	4.700	Duplicate
12-OCT-06	ZN-65	<	3.800	
12-OCT-06	ZN-65	<	4.700	Duplicate
12-OCT-06	ZR-NB-95	<	4.800	
12-OCT-06	ZR-NB-95	<	2.800	Duplicate
12-OCT-06	I-131	<	5.700	

Exposure Pathway - Waterborne
Surface Water

Location JRR

Collection Date	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Liter)			Duplicate Analysis
12-OCT-06	I-131	<	8.100		Duplicate
12-OCT-06	CS-134	<	4.500		
12-OCT-06	CS-134	<	3.500		Duplicate
12-OCT-06	CS-137	<	4.200		
12-OCT-06	CS-137	<	4.200		Duplicate
12-OCT-06	BA-LA-140	<	6.400		
12-OCT-06	BA-LA-140	<	5.100		Duplicate
12-OCT-06	H-3	<	181.000		
12-OCT-06	H-3	<	181.000		Duplicate
16-NOV-06	MN-54	<	4.700		
16-NOV-06	CO-58	<	6.100		
16-NOV-06	FE-59	<	8.800		
16-NOV-06	CO-60	<	4.700		
16-NOV-06	ZN-65	<	4.200		
16-NOV-06	ZR-NB-95	<	3.600		
16-NOV-06	I-131	<	7.100		
16-NOV-06	CS-134	<	3.200		
16-NOV-06	CS-137	<	4.700		
16-NOV-06	BA-LA-140	<	3.600		
16-NOV-06	H-3	<	166.000		
14-DEC-06	MN-54	<	2.600		
14-DEC-06	CO-58	<	2.500		
14-DEC-06	FE-59	<	8.400		
14-DEC-06	CO-60	<	4.700		
14-DEC-06	ZN-65	<	7.900		
14-DEC-06	ZR-NB-95	<	3.500		
14-DEC-06	I-131	<	3.200		
14-DEC-06	CS-134	<	5.000		
14-DEC-06	CS-137	<	7.000		
14-DEC-06	BA-LA-140	<	4.300		
14-DEC-06	H-3	<	139.000		

Exposure Pathway - Waterborne
Surface Water

Location SP

Collection Date	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Liter)		Duplicate Analysis
12-JAN-06	MN-54	<	2.900	
12-JAN-06	CO-58	<	2.900	
12-JAN-06	FE-59	<	3.500	
12-JAN-06	CO-60	<	3.800	
12-JAN-06	ZN-65	<	3.700	
12-JAN-06	ZR-NB-95	<	4.000	
12-JAN-06	I-131	<	7.000	
12-JAN-06	CS-134	<	3.500	
12-JAN-06	CS-137	<	4.700	
12-JAN-06	BA-LA-140	<	3.400	
12-JAN-06	H-3	8949.000+/-	267.000	
09-FEB-06	MN-54	<	4.400	
09-FEB-06	CO-58	<	3.800	
09-FEB-06	FE-59	<	5.900	
09-FEB-06	CO-60	<	3.600	
09-FEB-06	ZN-65	<	6.700	
09-FEB-06	ZR-NB-95	<	5.700	
09-FEB-06	I-131	<	6.700	
09-FEB-06	CS-134	<	4.300	
09-FEB-06	CS-137	<	5.000	
09-FEB-06	BA-LA-140	<	3.900	
09-FEB-06	H-3	8624.000+/-	258.000	
16-MAR-06	MN-54	<	2.500	
16-MAR-06	CO-58	<	2.100	
16-MAR-06	FE-59	<	3.600	
16-MAR-06	CO-60	<	2.000	
16-MAR-06	ZN-65	<	7.000	
16-MAR-06	ZR-NB-95	<	4.300	
16-MAR-06	I-131	<	5.400	
16-MAR-06	CS-134	<	3.000	
16-MAR-06	CS-137	<	2.900	
16-MAR-06	BA-LA-140	<	2.500	
16-MAR-06	H-3	9770.000+/-	283.000	
13-APR-06	MN-54	<	3.700	
13-APR-06	CO-58	<	3.600	
13-APR-06	FE-59	<	5.100	
13-APR-06	CO-60	<	3.100	
13-APR-06	ZN-65	<	6.300	
13-APR-06	ZR-NB-95	<	5.500	
13-APR-06	I-131	<	7.400	
13-APR-06	CS-134	<	4.000	

Exposure Pathway - Waterborne
Surface Water

Location SP

Collection Date	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Liter)		Duplicate Analysis
13-APR-06	CS-137	<	4.200	
13-APR-06	BA-LA-140	<	3.300	
13-APR-06	H-3	9455.000+/-	276.000	
11-MAY-06	MN-54	<	3.300	
11-MAY-06	CO-58	<	2.700	
11-MAY-06	FE-59	<	7.000	
11-MAY-06	CO-60	<	3.100	
11-MAY-06	ZN-65	<	5.300	
11-MAY-06	ZR-NB-95	<	1.400	
11-MAY-06	I-131	<	5.400	
11-MAY-06	CS-134	<	3.100	
11-MAY-06	CS-137	<	2.900	
11-MAY-06	BA-LA-140	<	3.500	
11-MAY-06	H-3	9593.000+/-	260.000	
08-JUN-06	MN-54	<	4.800	
08-JUN-06	CO-58	<	4.800	
08-JUN-06	FE-59	<	4.300	
08-JUN-06	CO-60	<	2.900	
08-JUN-06	ZN-65	<	5.300	
08-JUN-06	ZR-NB-95	<	5.000	
08-JUN-06	I-131	<	9.300	
08-JUN-06	CS-134	<	3.600	
08-JUN-06	CS-137	<	5.300	
08-JUN-06	BA-LA-140	<	3.000	
08-JUN-06	H-3	10207.000+/-	276.000	
13-JUL-06	MN-54	<	5.300	
13-JUL-06	CO-58	<	3.200	
13-JUL-06	FE-59	<	8.000	
13-JUL-06	CO-60	<	4.400	
13-JUL-06	ZN-65	<	9.100	
13-JUL-06	ZR-NB-95	<	4.200	
13-JUL-06	I-131	<	9.300	
13-JUL-06	CS-134	<	5.200	
13-JUL-06	CS-137	<	3.900	
13-JUL-06	BA-LA-140	<	8.400	
13-JUL-06	H-3	11571.000+/-	300.000	
24-AUG-06	MN-54	<	3.900	
24-AUG-06	MN-54	<	3.600	Duplicate
24-AUG-06	CO-58	<	4.400	
24-AUG-06	CO-58	<	3.600	Duplicate
24-AUG-06	FE-59	<	5.600	

Exposure Pathway - Waterborne
Surface Water

Location SP

Collection Date	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Liter)		Duplicate Analysis
24-AUG-06	FE-59	<	3.800	Duplicate
24-AUG-06	CO-60	<	2.200	
24-AUG-06	CO-60	<	3.800	Duplicate
24-AUG-06	ZN-65	<	3.700	
24-AUG-06	ZN-65	<	6.700	Duplicate
24-AUG-06	ZR-NB-95	<	4.400	
24-AUG-06	ZR-NB-95	<	5.400	Duplicate
24-AUG-06	I-131	<	6.100	
24-AUG-06	I-131	<	5.900	Duplicate
24-AUG-06	CS-134	<	3.000	
24-AUG-06	CS-134	<	4.000	Duplicate
24-AUG-06	CS-137	<	4.500	
24-AUG-06	CS-137	<	4.200	Duplicate
24-AUG-06	BA-LA-140	<	5.600	
24-AUG-06	BA-LA-140	<	5.200	Duplicate
24-AUG-06	H-3	13661.000+/-	328.000	
24-AUG-06	H-3	13964.000+/-	332.000	Duplicate
14-SEP-06	MN-54	<	3.100	
14-SEP-06	CO-58	<	4.500	
14-SEP-06	FE-59	<	4.500	
14-SEP-06	CO-60	<	3.400	
14-SEP-06	ZN-65	<	4.800	
14-SEP-06	ZR-NB-95	<	4.600	
14-SEP-06	I-131	<	8.700	
14-SEP-06	CS-134	<	5.200	
14-SEP-06	CS-137	<	5.500	
14-SEP-06	BA-LA-140	<	3.700	
14-SEP-06	H-3	12976.000+/-	325.000	
12-OCT-06	MN-54	<	2.400	
12-OCT-06	CO-58	<	5.000	
12-OCT-06	FE-59	<	6.600	
12-OCT-06	CO-60	<	4.700	
12-OCT-06	ZN-65	<	4.500	
12-OCT-06	ZR-NB-95	<	5.400	
12-OCT-06	I-131	<	5.800	
12-OCT-06	CS-134	<	4.200	
12-OCT-06	CS-137	<	5.100	
12-OCT-06	BA-LA-140	<	3.400	
12-OCT-06	H-3	14267.000+/-	342.000	
16-NOV-06	MN-54	<	3.700	
16-NOV-06	CO-58	<	3.300	

Exposure Pathway - Waterborne
Surface Water

Location SP

Collection Date	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Liter)		Duplicate Analysis
16-NOV-06	FE-59	<	8.400	
16-NOV-06	CO-60	<	5.900	
16-NOV-06	ZN-65	<	5.200	
16-NOV-06	ZR-NB-95	<	3.500	
16-NOV-06	I-131	<	6.700	
16-NOV-06	CS-134	<	3.700	
16-NOV-06	CS-137	<	5.600	
16-NOV-06	BA-LA-140	<	6.600	
16-NOV-06	H-3	13479.000+/-	331.000	
14-DEC-06	MN-54	<	4.300	
14-DEC-06	CO-58	<	5.800	
14-DEC-06	FE-59	<	8.500	
14-DEC-06	CO-60	<	4.400	
14-DEC-06	ZN-65	<	5.700	
14-DEC-06	ZR-NB-95	<	5.700	
14-DEC-06	I-131	<	5.600	
14-DEC-06	CS-134	<	4.200	
14-DEC-06	CS-137	<	4.400	
14-DEC-06	BA-LA-140	<	6.800	
14-DEC-06	H-3	12883.000+/-	317.000	

Exposure Pathway - Waterborne
Ground Water

Location B-12

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
01-FEB-06	MN-54	<	1.900	
01-FEB-06	CO-58	<	3.200	
01-FEB-06	FE-59	<	6.500	
01-FEB-06	CO-60	<	3.500	
01-FEB-06	ZN-65	<	5.300	
01-FEB-06	ZR-NB-95	<	3.100	
01-FEB-06	CS-134	<	2.800	
01-FEB-06	CS-137	<	2.100	
01-FEB-06	BA-LA-140	<	1.900	
01-FEB-06	H-3	<	183.000	
01-FEB-06	I-131 (CHEM)	<	0.355	
10-MAY-06	MN-54	<	3.800	
10-MAY-06	CO-58	<	2.700	
10-MAY-06	FE-59	<	3.400	
10-MAY-06	CO-60	<	2.200	
10-MAY-06	ZN-65	<	4.900	
10-MAY-06	ZR-NB-95	<	3.300	
10-MAY-06	CS-134	<	3.000	
10-MAY-06	CS-137	<	3.500	
10-MAY-06	BA-LA-140	<	4.400	
10-MAY-06	H-3	<	129.000	
10-MAY-06	I-131 (CHEM)	<	0.305	
30-AUG-06	MN-54	<	2.200	
30-AUG-06	CO-58	<	3.100	
30-AUG-06	FE-59	<	4.100	
30-AUG-06	CO-60	<	1.500	
30-AUG-06	ZN-65	<	3.100	
30-AUG-06	ZR-NB-95	<	3.900	
30-AUG-06	CS-134	<	2.800	
30-AUG-06	CS-137	<	3.000	
30-AUG-06	BA-LA-140	<	3.600	
30-AUG-06	H-3	<	139.000	
30-AUG-06	I-131 (CHEM)	<	0.352	
17-NOV-06	MN-54	<	1.300	
17-NOV-06	CO-58	<	2.300	
17-NOV-06	FE-59	<	4.000	
17-NOV-06	CO-60	<	4.300	
17-NOV-06	ZN-65	<	1.800	
17-NOV-06	ZR-NB-95	<	2.300	
17-NOV-06	CS-134	<	2.600	
17-NOV-06	CS-137	<	3.100	

Exposure Pathway - Waterborne
Ground Water

Location B-12

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
17-NOV-06	BA-LA-140	<	2.000	
17-NOV-06	H-3	<	171.000	
17-NOV-06	I-131 (CHEM)	<	0.458	

Exposure Pathway - Waterborne
Ground Water

Location C-10

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
01-FEB-06	MN-54	<	2.400	
01-FEB-06	CO-58	<	3.200	
01-FEB-06	FE-59	<	4.500	
01-FEB-06	CO-60	<	2.300	
01-FEB-06	ZN-65	<	3.000	
01-FEB-06	ZR-NB-95	<	3.800	
01-FEB-06	CS-134	<	3.700	
01-FEB-06	CS-137	<	2.300	
01-FEB-06	BA-LA-140	<	1.700	
01-FEB-06	H-3	<	183.000	
01-FEB-06	I-131 (CHEM)	<	0.426	
10-MAY-06	MN-54	<	3.800	
10-MAY-06	CO-58	<	4.700	
10-MAY-06	FE-59	<	5.300	
10-MAY-06	CO-60	<	6.600	
10-MAY-06	ZN-65	<	6.500	
10-MAY-06	ZR-NB-95	<	5.000	
10-MAY-06	CS-134	<	3.300	
10-MAY-06	CS-137	<	3.700	
10-MAY-06	BA-LA-140	<	5.700	
10-MAY-06	H-3	<	167.000	
10-MAY-06	I-131 (CHEM)	<	0.340	
30-AUG-06	MN-54	<	4.100	
30-AUG-06	CO-58	<	1.800	
30-AUG-06	FE-59	<	4.000	
30-AUG-06	CO-60	<	3.500	
30-AUG-06	ZN-65	<	4.200	
30-AUG-06	ZR-NB-95	<	4.400	
30-AUG-06	CS-134	<	4.200	
30-AUG-06	CS-137	<	3.600	
30-AUG-06	BA-LA-140	<	2.300	
30-AUG-06	H-3	<	139.000	
30-AUG-06	I-131 (CHEM)	<	0.415	
17-NOV-06	MN-54	<	5.200	
17-NOV-06	CO-58	<	4.200	
17-NOV-06	FE-59	<	8.400	
17-NOV-06	CO-60	<	5.400	
17-NOV-06	ZN-65	<	5.500	
17-NOV-06	ZR-NB-95	<	5.200	
17-NOV-06	CS-134	<	4.100	
17-NOV-06	CS-137	<	5.400	

Exposure Pathway - Waterborne
Ground Water

Location C-10

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
17-NOV-06	BA-LA-140	<	5.300	
17-NOV-06	H-3	<	171.000	
17-NOV-06	I-131 (CHEM)	<	0.388	

Exposure Pathway - Waterborne
Ground Water

Location C-49

Collection Date	Nuclide		Concentration (pCi/Liter)	Duplicate Analysis
01-FEB-06	MN-54	<	5.000	
01-FEB-06	CO-58	<	6.000	
01-FEB-06	FE-59	<	14.800	
01-FEB-06	CO-60	<	3.100	
01-FEB-06	ZN-65	<	4.900	
01-FEB-06	ZR-NB-95	<	5.600	
01-FEB-06	CS-134	<	4.700	
01-FEB-06	CS-137	<	5.800	
01-FEB-06	BA-LA-140	<	5.000	
01-FEB-06	H-3	<	183.000	
01-FEB-06	I-131 (CHEM)	<	0.481	
10-MAY-06	MN-54	<	5.200	
10-MAY-06	CO-58	<	5.500	
10-MAY-06	FE-59	<	5.300	
10-MAY-06	CO-60	<	6.200	
10-MAY-06	ZN-65	<	14.300	
10-MAY-06	ZR-NB-95	<	6.000	
10-MAY-06	CS-134	<	5.800	
10-MAY-06	CS-137	<	6.100	
10-MAY-06	BA-LA-140	<	10.700	
10-MAY-06	H-3	<	167.000	
10-MAY-06	I-131 (CHEM)	<	0.352	
30-AUG-06	MN-54	<	3.600	
30-AUG-06	CO-58	<	4.600	
30-AUG-06	FE-59	<	6.200	
30-AUG-06	CO-60	<	3.500	
30-AUG-06	ZN-65	<	7.000	
30-AUG-06	ZR-NB-95	<	6.400	
30-AUG-06	CS-134	<	3.800	
30-AUG-06	CS-137	<	4.400	
30-AUG-06	BA-LA-140	<	3.400	
30-AUG-06	H-3	<	139.000	
30-AUG-06	I-131 (CHEM)	<	0.432	
17-NOV-06	MN-54	<	1.700	
17-NOV-06	MN-54	<	2.700	Duplicate
17-NOV-06	CO-58	<	2.100	
17-NOV-06	CO-58	<	2.100	Duplicate
17-NOV-06	FE-59	<	3.400	
17-NOV-06	FE-59	<	5.500	Duplicate
17-NOV-06	CO-60	<	2.100	
17-NOV-06	CO-60	<	1.700	Duplicate

Exposure Pathway - Waterborne
Ground Water

Location C-49

Collection Date	Nuclide		Concentration (pCi/Liter)	Duplicate Analysis
17-NOV-06	ZN-65	<	5.300	
17-NOV-06	ZN-65	<	4.600	Duplicate
17-NOV-06	ZR-NB-95	<	3.000	
17-NOV-06	ZR-NB-95	<	3.400	Duplicate
17-NOV-06	CS-134	<	2.300	
17-NOV-06	CS-134	<	3.100	Duplicate
17-NOV-06	CS-137	<	2.700	
17-NOV-06	CS-137	<	3.400	Duplicate
17-NOV-06	BA-LA-140	<	2.100	
17-NOV-06	BA-LA-140	<	3.900	Duplicate
17-NOV-06	H-3	<	166.000	
17-NOV-06	H-3	<	166.000	Duplicate
17-NOV-06	I-131 (CHEM)	<	0.466	
17-NOV-06	I-131 (CHEM)	<	0.465	Duplicate

Exposure Pathway - Waterborne
Ground Water

Location F-1

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
01-FEB-06	MN-54	<	4.200	
01-FEB-06	CO-58	<	5.800	
01-FEB-06	FE-59	<	5.600	
01-FEB-06	CO-60	<	2.500	
01-FEB-06	ZN-65	<	3.500	
01-FEB-06	ZR-NB-95	<	6.200	
01-FEB-06	CS-134	<	4.800	
01-FEB-06	CS-137	<	3.900	
01-FEB-06	BA-LA-140	<	5.200	
01-FEB-06	H-3	<	183.000	
01-FEB-06	I-131 (CHEM)	<	0.326	
10-MAY-06	MN-54	<	1.900	
10-MAY-06	CO-58	<	2.000	
10-MAY-06	FE-59	<	6.400	
10-MAY-06	CO-60	<	3.500	
10-MAY-06	ZN-65	<	4.300	
10-MAY-06	ZR-NB-95	<	2.000	
10-MAY-06	CS-134	<	2.400	
10-MAY-06	CS-137	<	2.400	
10-MAY-06	BA-LA-140	<	3.300	
10-MAY-06	H-3	<	129.000	
10-MAY-06	I-131 (CHEM)	<	0.319	
30-AUG-06	MN-54	<	3.100	
30-AUG-06	CO-58	<	2.900	
30-AUG-06	FE-59	<	2.100	
30-AUG-06	CO-60	<	2.400	
30-AUG-06	ZN-65	<	6.700	
30-AUG-06	ZR-NB-95	<	4.400	
30-AUG-06	CS-134	<	2.500	
30-AUG-06	CS-137	<	3.600	
30-AUG-06	BA-LA-140	<	3.500	
30-AUG-06	H-3	<	139.000	
30-AUG-06	I-131 (CHEM)	<	0.472	
17-NOV-06	MN-54	<	2.000	
17-NOV-06	CO-58	<	1.900	
17-NOV-06	FE-59	<	1.900	
17-NOV-06	CO-60	<	2.000	
17-NOV-06	ZN-65	<	2.300	
17-NOV-06	ZR-NB-95	<	2.900	
17-NOV-06	CS-134	<	2.400	
17-NOV-06	CS-137	<	2.200	

Exposure Pathway - Waterborne
Ground Water

Location F-1

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
17-NOV-06	BA-LA-140	<	3.800	
17-NOV-06	H-3	<	171.000	
17-NOV-06	I-131 (CHEM)	<	0.385	

Exposure Pathway - Waterborne
Ground Water

Location G-2

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
01-FEB-06	MN-54	<	5.300	
01-FEB-06	CO-58	<	2.800	
01-FEB-06	FE-59	<	8.300	
01-FEB-06	CO-60	<	2.900	
01-FEB-06	ZN-65	<	6.300	
01-FEB-06	ZR-NB-95	<	6.400	
01-FEB-06	CS-134	<	4.300	
01-FEB-06	CS-137	<	6.400	
01-FEB-06	BA-LA-140	<	3.400	
01-FEB-06	H-3	<	183.000	
01-FEB-06	I-131 (CHEM)	<	0.360	
10-MAY-06	MN-54	<	4.500	
10-MAY-06	CO-58	<	2.100	
10-MAY-06	FE-59	<	7.400	
10-MAY-06	CO-60	<	5.000	
10-MAY-06	ZN-65	<	7.700	
10-MAY-06	ZR-NB-95	<	4.000	
10-MAY-06	CS-134	<	3.700	
10-MAY-06	CS-137	<	5.600	
10-MAY-06	BA-LA-140	<	3.700	
10-MAY-06	H-3	<	140.000	
10-MAY-06	I-131 (CHEM)	<	0.445	
30-AUG-06	MN-54	<	2.600	
30-AUG-06	CO-58	<	2.800	
30-AUG-06	FE-59	<	7.100	
30-AUG-06	CO-60	<	2.100	
30-AUG-06	ZN-65	<	5.100	
30-AUG-06	ZR-NB-95	<	3.000	
30-AUG-06	CS-134	<	2.900	
30-AUG-06	CS-137	<	2.900	
30-AUG-06	BA-LA-140	<	2.600	
30-AUG-06	H-3	<	139.000	
30-AUG-06	I-131 (CHEM)	<	0.337	
17-NOV-06	MN-54	<	1.600	
17-NOV-06	CO-58	<	2.200	
17-NOV-06	FE-59	<	6.000	
17-NOV-06	CO-60	<	3.500	
17-NOV-06	ZN-65	<	4.500	
17-NOV-06	ZR-NB-95	<	3.500	
17-NOV-06	CS-134	<	2.500	
17-NOV-06	CS-137	<	3.100	

Exposure Pathway - Waterborne
Ground Water

Location G-2

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
17-NOV-06	BA-LA-140	<	2.500	
17-NOV-06	H-3	<	169.000	
17-NOV-06	I-131 (CHEM)	<	0.385	

Exposure Pathway - Waterborne
Ground Water

Location J-1

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
01-FEB-06	MN-54	<	2.400	
01-FEB-06	CO-58	<	2.800	
01-FEB-06	FE-59	<	5.100	
01-FEB-06	CO-60	<	2.200	
01-FEB-06	ZN-65	<	3.300	
01-FEB-06	ZR-NB-95	<	5.600	
01-FEB-06	CS-134	<	6.900	
01-FEB-06	CS-137	<	3.400	
01-FEB-06	BA-LA-140	<	3.000	
01-FEB-06	H-3	<	183.000	
01-FEB-06	I-131 (CHEM)	<	0.295	
10-MAY-06	MN-54	<	4.400	
10-MAY-06	CO-58	<	6.000	
10-MAY-06	FE-59	<	8.100	
10-MAY-06	CO-60	<	6.400	
10-MAY-06	ZN-65	<	13.000	
10-MAY-06	ZR-NB-95	<	6.800	
10-MAY-06	CS-134	<	6.200	
10-MAY-06	CS-137	<	4.800	
10-MAY-06	BA-LA-140	<	7.000	
10-MAY-06	H-3	<	129.000	
10-MAY-06	I-131 (CHEM)	<	0.296	
30-AUG-06	MN-54	<	3.400	
30-AUG-06	MN-54	<	3.300	Duplicate
30-AUG-06	CO-58	<	3.900	
30-AUG-06	CO-58	<	3.800	Duplicate
30-AUG-06	FE-59	<	8.300	
30-AUG-06	FE-59	<	3.500	Duplicate
30-AUG-06	CO-60	<	2.200	
30-AUG-06	CO-60	<	2.100	Duplicate
30-AUG-06	ZN-65	<	4.700	
30-AUG-06	ZN-65	<	4.000	Duplicate
30-AUG-06	ZR-NB-95	<	4.900	
30-AUG-06	ZR-NB-95	<	4.500	Duplicate
30-AUG-06	CS-134	<	4.600	
30-AUG-06	CS-134	<	3.300	Duplicate
30-AUG-06	CS-137	<	5.800	
30-AUG-06	CS-137	<	4.100	Duplicate
30-AUG-06	BA-LA-140	<	6.100	
30-AUG-06	BA-LA-140	<	6.000	Duplicate
30-AUG-06	H-3	<	139.000	

Exposure Pathway - Waterborne
Ground Water

Location J-1

Collection Date	Nuclide		Concentration (pCi/Liter)	Duplicate Analysis
30-AUG-06	H-3	<	139.000	Duplicate
30-AUG-06	I-131 (CHEM)	<	0.478	
30-AUG-06	I-131 (CHEM)	<	0.359	Duplicate
17-NOV-06	MN-54	<	3.500	
17-NOV-06	CO-58	<	2.900	
17-NOV-06	FE-59	<	5.800	
17-NOV-06	CO-60	<	3.300	
17-NOV-06	ZN-65	<	7.100	
17-NOV-06	ZR-NB-95	<	3.900	
17-NOV-06	CS-134	<	3.100	
17-NOV-06	CS-137	<	2.800	
17-NOV-06	BA-LA-140	<	2.900	
17-NOV-06	H-3	<	169.000	
17-NOV-06	I-131 (CHEM)	<	0.368	

Exposure Pathway - Waterborne
Ground Water

Location J-2

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
01-FEB-06	MN-54	<	4.000	
01-FEB-06	CO-58	<	3.500	
01-FEB-06	FE-59	<	13.200	
01-FEB-06	CO-60	<	4.600	
01-FEB-06	ZN-65	<	9.300	
01-FEB-06	ZR-NB-95	<	5.600	
01-FEB-06	CS-134	<	4.300	
01-FEB-06	CS-137	<	5.500	
01-FEB-06	BA-LA-140	<	4.900	
01-FEB-06	H-3	<	183.000	
01-FEB-06	I-131 (CHEM)	<	0.297	
10-MAY-06	MN-54	<	4.800	
10-MAY-06	CO-58	<	3.800	
10-MAY-06	FE-59	<	8.500	
10-MAY-06	CO-60	<	3.700	
10-MAY-06	ZN-65	<	8.400	
10-MAY-06	ZR-NB-95	<	6.900	
10-MAY-06	CS-134	<	2.700	
10-MAY-06	CS-137	<	1.800	
10-MAY-06	BA-LA-140	<	6.100	
10-MAY-06	H-3	<	140.000	
10-MAY-06	I-131 (CHEM)	<	0.234	
30-AUG-06	MN-54	<	2.200	
30-AUG-06	CO-58	<	2.700	
30-AUG-06	FE-59	<	3.800	
30-AUG-06	CO-60	<	2.100	
30-AUG-06	ZN-65	<	2.500	
30-AUG-06	ZR-NB-95	<	3.600	
30-AUG-06	CS-134	<	3.200	
30-AUG-06	CS-137	<	4.000	
30-AUG-06	BA-LA-140	<	4.000	
30-AUG-06	H-3	<	139.000	
30-AUG-06	I-131 (CHEM)	<	0.347	
17-NOV-06	MN-54	<	5.000	
17-NOV-06	CO-58	<	3.300	
17-NOV-06	FE-59	<	5.800	
17-NOV-06	CO-60	<	3.800	
17-NOV-06	ZN-65	<	4.000	
17-NOV-06	ZR-NB-95	<	4.700	
17-NOV-06	CS-134	<	3.100	
17-NOV-06	CS-137	<	4.500	

Exposure Pathway - Waterborne
Ground Water

Location J-2

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
17-NOV-06	BA-LA-140	<	6.000	
17-NOV-06	H-3	<	171.000	
17-NOV-06	I-131 (CHEM)	<	0.356	

Exposure Pathway - Waterborne
Ground Water

Location L-49

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
01-FEB-06	MN-54	<	3.000	
01-FEB-06	CO-58	<	4.600	
01-FEB-06	FE-59	<	5.200	
01-FEB-06	CO-60	<	2.800	
01-FEB-06	ZN-65	<	8.300	
01-FEB-06	ZR-NB-95	<	3.700	
01-FEB-06	CS-134	<	5.500	
01-FEB-06	CS-137	<	4.200	
01-FEB-06	BA-LA-140	<	4.100	
01-FEB-06	H-3	<	183.000	
01-FEB-06	I-131 (CHEM)	<	0.351	
10-MAY-06	MN-54	<	3.600	
10-MAY-06	CO-58	<	3.300	
10-MAY-06	FE-59	<	8.000	
10-MAY-06	CO-60	<	3.800	
10-MAY-06	ZN-65	<	6.900	
10-MAY-06	ZR-NB-95	<	5.600	
10-MAY-06	CS-134	<	5.300	
10-MAY-06	CS-137	<	5.800	
10-MAY-06	BA-LA-140	<	3.200	
10-MAY-06	H-3	<	167.000	
10-MAY-06	I-131 (CHEM)	<	0.339	
30-AUG-06	MN-54	<	5.700	
30-AUG-06	CO-58	<	3.500	
30-AUG-06	FE-59	<	5.300	
30-AUG-06	CO-60	<	2.600	
30-AUG-06	ZN-65	<	4.800	
30-AUG-06	ZR-NB-95	<	4.900	
30-AUG-06	CS-134	<	4.400	
30-AUG-06	CS-137	<	4.100	
30-AUG-06	BA-LA-140	<	3.600	
30-AUG-06	H-3	<	139.000	
30-AUG-06	I-131 (CHEM)	<	0.370	
17-NOV-06	MN-54	<	3.000	
17-NOV-06	CO-58	<	3.600	
17-NOV-06	FE-59	<	7.500	
17-NOV-06	CO-60	<	4.900	
17-NOV-06	ZN-65	<	4.800	
17-NOV-06	ZR-NB-95	<	6.000	
17-NOV-06	CS-134	<	4.800	
17-NOV-06	CS-137	<	5.000	

Exposure Pathway - Waterborne
Ground Water

Location L-49

Collection Date	Nuclide		Concentration (pCi/Liter)	Duplicate Analysis
17-NOV-06	BA-LA-140	<	7.700	
17-NOV-06	H-3	<	169.000	
17-NOV-06	I-131 (CHEM)	<	0.397	

Exposure Pathway - Waterborne
Drinking Water

Location BW-15

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
01-FEB-06	MN-54	<	3.100	
01-FEB-06	MN-54	<	5.900	Duplicate
01-FEB-06	CO-58	<	2.700	
01-FEB-06	CO-58	<	5.300	Duplicate
01-FEB-06	FE-59	<	5.400	
01-FEB-06	FE-59	<	8.700	Duplicate
01-FEB-06	CO-60	<	4.200	
01-FEB-06	CO-60	<	1.500	Duplicate
01-FEB-06	ZN-65	<	2.600	
01-FEB-06	ZN-65	<	9.400	Duplicate
01-FEB-06	ZR-NB-95	<	5.100	
01-FEB-06	ZR-NB-95	<	7.000	Duplicate
01-FEB-06	CS-134	<	3.000	
01-FEB-06	CS-134	<	5.100	Duplicate
01-FEB-06	CS-137	<	3.100	
01-FEB-06	CS-137	<	4.200	Duplicate
01-FEB-06	BA-LA-140	<	2.900	
01-FEB-06	BA-LA-140	<	4.200	Duplicate
01-FEB-06	GROSS BETA	3.072+/-	1.159	
01-FEB-06	GROSS BETA	2.552+/-	1.101	Duplicate
01-FEB-06	I-131 (CHEM)	<	0.415	
01-FEB-06	I-131 (CHEM)	<	0.422	Duplicate
01-MAR-06	MN-54	<	3.500	
01-MAR-06	CO-58	<	1.600	
01-MAR-06	FE-59	<	3.700	
01-MAR-06	CO-60	<	3.700	
01-MAR-06	ZN-65	<	5.000	
01-MAR-06	ZR-NB-95	<	5.400	
01-MAR-06	CS-134	<	3.400	
01-MAR-06	CS-137	<	2.400	
01-MAR-06	BA-LA-140	<	2.400	
01-MAR-06	GROSS BETA	2.455+/-	0.652	
01-MAR-06	I-131 (CHEM)	<	0.371	
05-APR-06	MN-54	<	4.400	
05-APR-06	CO-58	<	4.800	
05-APR-06	FE-59	<	6.800	
05-APR-06	CO-60	<	4.000	
05-APR-06	ZN-65	<	5.200	
05-APR-06	ZR-NB-95	<	3.900	
05-APR-06	CS-134	<	2.900	
05-APR-06	CS-137	<	6.300	

Exposure Pathway - Waterborne
Drinking Water

Location BW-15

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
05-APR-06	BA-LA-140	<	3.200	
05-APR-06	GROSS BETA	2.651+/-	0.519	
05-APR-06	I-131 (CHEM)	<	0.336	
03-MAY-06	MN-54	<	2.900	
03-MAY-06	CO-58	<	2.500	
03-MAY-06	FE-59	<	6.300	
03-MAY-06	CO-60	<	1.300	
03-MAY-06	ZN-65	<	3.000	
03-MAY-06	ZR-NB-95	<	2.700	
03-MAY-06	CS-134	<	2.300	
03-MAY-06	CS-137	<	3.000	
03-MAY-06	BA-LA-140	<	1.900	
03-MAY-06	GROSS BETA	5.108+/-	1.232	
03-MAY-06	I-131 (CHEM)	<	0.283	
07-JUN-06	MN-54	<	4.500	
07-JUN-06	CO-58	<	2.300	
07-JUN-06	FE-59	<	6.000	
07-JUN-06	CO-60	<	5.400	
07-JUN-06	ZN-65	<	9.000	
07-JUN-06	ZR-NB-95	<	3.500	
07-JUN-06	CS-134	<	5.700	
07-JUN-06	CS-137	<	4.000	
07-JUN-06	BA-LA-140	<	4.400	
07-JUN-06	GROSS BETA	3.982+/-	0.760	
07-JUN-06	I-131 (CHEM)	<	0.456	
06-JUL-06	MN-54	<	1.000	
06-JUL-06	CO-58	<	0.900	
06-JUL-06	FE-59	<	1.500	
06-JUL-06	CO-60	<	1.000	
06-JUL-06	ZN-65	<	2.100	
06-JUL-06	ZR-NB-95	<	1.100	
06-JUL-06	CS-134	<	0.900	
06-JUL-06	CS-137	<	1.300	
06-JUL-06	BA-LA-140	<	1.000	
06-JUL-06	GROSS BETA	4.108+/-	1.108	
06-JUL-06	I-131 (CHEM)	<	0.299	
02-AUG-06	MN-54	<	4.500	
02-AUG-06	CO-58	<	4.300	
02-AUG-06	FE-59	<	4.400	
02-AUG-06	CO-60	<	2.500	
02-AUG-06	ZN-65	<	4.700	

Exposure Pathway - Waterborne
Drinking Water

Location BW-15

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
02-AUG-06	ZR-NB-95	<	4.700	
02-AUG-06	CS-134	<	5.600	
02-AUG-06	CS-137	<	5.500	
02-AUG-06	BA-LA-140	<	3.500	
02-AUG-06	GROSS BETA	3.327+/-	0.708	
02-AUG-06	I-131 (CHEM)	<	0.259	
07-SEP-06	MN-54	<	4.500	
07-SEP-06	CO-58	<	3.300	
07-SEP-06	FE-59	<	6.800	
07-SEP-06	CO-60	<	1.700	
07-SEP-06	ZN-65	<	2.900	
07-SEP-06	ZR-NB-95	<	3.600	
07-SEP-06	CS-134	<	3.600	
07-SEP-06	CS-137	<	3.200	
07-SEP-06	BA-LA-140	<	5.000	
07-SEP-06	GROSS BETA	5.201+/-	1.073	
07-SEP-06	I-131 (CHEM)	<	0.354	
03-OCT-06	MN-54	<	3.000	
03-OCT-06	CO-58	<	3.100	
03-OCT-06	FE-59	<	6.600	
03-OCT-06	CO-60	<	2.200	
03-OCT-06	ZN-65	<	5.500	
03-OCT-06	ZR-NB-95	<	3.600	
03-OCT-06	CS-134	<	3.100	
03-OCT-06	CS-137	<	4.700	
03-OCT-06	BA-LA-140	<	2.500	
03-OCT-06	GROSS BETA	5.302+/-	0.817	
03-OCT-06	I-131 (CHEM)	<	0.475	
01-NOV-06	MN-54	<	4.900	
01-NOV-06	CO-58	<	6.900	
01-NOV-06	FE-59	<	7.700	
01-NOV-06	CO-60	<	4.700	
01-NOV-06	ZN-65	<	8.300	
01-NOV-06	ZR-NB-95	<	3.200	
01-NOV-06	CS-134	<	5.900	
01-NOV-06	CS-137	<	6.100	
01-NOV-06	BA-LA-140	<	7.100	
01-NOV-06	GROSS BETA	3.037+/-	1.087	
01-NOV-06	I-131 (CHEM)	<	0.294	
05-DEC-06	MN-54	<	2.200	
05-DEC-06	CO-58	<	3.300	

Exposure Pathway - Waterborne
Drinking Water

Location BW-15

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
05-DEC-06	FE-59	<	2.300	
05-DEC-06	CO-60	<	1.400	
05-DEC-06	ZN-65	<	1.900	
05-DEC-06	ZR-NB-95	<	4.200	
05-DEC-06	CS-134	<	3.400	
05-DEC-06	CS-137	<	4.000	
05-DEC-06	BA-LA-140	<	2.700	
05-DEC-06	GROSS BETA	3.112+/-	0.697	
05-DEC-06	I-131 (CHEM)	<	0.499	
04-JAN-07	MN-54	<	5.400	
04-JAN-07	CO-58	<	3.100	
04-JAN-07	FE-59	<	5.700	
04-JAN-07	CO-60	<	4.200	
04-JAN-07	ZN-65	<	5.600	
04-JAN-07	ZR-NB-95	<	5.100	
04-JAN-07	CS-134	<	3.500	
04-JAN-07	CS-137	<	3.200	
04-JAN-07	BA-LA-140	<	3.600	
04-JAN-07	GROSS BETA	6.460+/-	1.343	
04-JAN-07	I-131 (CHEM)	<	0.248	

Exposure Pathway - Waterborne
Drinking Water

Location IO-DW

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
01-FEB-06	MN-54	<	4.300	
01-FEB-06	CO-58	<	2.200	
01-FEB-06	FE-59	<	3.900	
01-FEB-06	CO-60	<	2.800	
01-FEB-06	ZN-65	<	9.000	
01-FEB-06	ZR-NB-95	<	4.400	
01-FEB-06	CS-134	<	4.100	
01-FEB-06	CS-137	<	4.900	
01-FEB-06	BA-LA-140	<	6.100	
01-FEB-06	GROSS BETA	2.749+/-	0.692	
01-FEB-06	I-131 (CHEM)	<	0.334	
01-MAR-06	MN-54	<	5.300	
01-MAR-06	CO-58	<	5.200	
01-MAR-06	FE-59	<	4.200	
01-MAR-06	CO-60	<	5.100	
01-MAR-06	ZN-65	<	10.800	
01-MAR-06	ZR-NB-95	<	5.000	
01-MAR-06	CS-134	<	3.900	
01-MAR-06	CS-137	<	4.900	
01-MAR-06	BA-LA-140	<	3.200	
01-MAR-06	GROSS BETA	2.417+/-	0.670	
01-MAR-06	I-131 (CHEM)	<	0.292	
05-APR-06	MN-54	<	4.500	
05-APR-06	CO-58	<	3.500	
05-APR-06	FE-59	<	9.500	
05-APR-06	CO-60	<	3.700	
05-APR-06	ZN-65	<	3.200	
05-APR-06	ZR-NB-95	<	6.400	
05-APR-06	CS-134	<	4.900	
05-APR-06	CS-137	<	5.500	
05-APR-06	BA-LA-140	<	7.100	
05-APR-06	GROSS BETA	2.447+/-	0.498	
05-APR-06	I-131 (CHEM)	<	0.321	
03-MAY-06	MN-54	<	4.100	
03-MAY-06	CO-58	<	5.000	
03-MAY-06	FE-59	<	6.000	
03-MAY-06	CO-60	<	4.900	
03-MAY-06	ZN-65	<	5.300	
03-MAY-06	ZR-NB-95	<	3.400	
03-MAY-06	CS-134	<	5.100	
03-MAY-06	CS-137	<	4.300	

Exposure Pathway - Waterborne
Drinking Water

Location IO-DW

Collection Date	Nuclide	Concentration (pCi/Liter)	Duplicate Analysis
03-MAY-06	BA-LA-140	<	3.300
03-MAY-06	GROSS BETA	5.233+/-	1.135
03-MAY-06	I-131 (CHEM)	<	0.292
07-JUN-06	MN-54	<	2.200
07-JUN-06	CO-58	<	1.500
07-JUN-06	FE-59	<	4.000
07-JUN-06	CO-60	<	3.300
07-JUN-06	ZN-65	<	2.400
07-JUN-06	ZR-NB-95	<	2.700
07-JUN-06	CS-134	<	2.700
07-JUN-06	CS-137	<	1.700
07-JUN-06	BA-LA-140	<	3.400
07-JUN-06	GROSS BETA	3.720+/-	0.755
07-JUN-06	I-131 (CHEM)	<	0.336
06-JUL-06	MN-54	<	2.000
06-JUL-06	CO-58	<	1.900
06-JUL-06	FE-59	<	3.700
06-JUL-06	CO-60	<	2.300
06-JUL-06	ZN-65	<	4.700
06-JUL-06	ZR-NB-95	<	2.500
06-JUL-06	CS-134	<	1.800
06-JUL-06	CS-137	<	2.200
06-JUL-06	BA-LA-140	<	1.800
06-JUL-06	GROSS BETA	3.824+/-	1.159
06-JUL-06	I-131 (CHEM)	<	0.365
02-AUG-06	MN-54	<	3.100
02-AUG-06	CO-58	<	3.600
02-AUG-06	FE-59	<	2.700
02-AUG-06	CO-60	<	1.800
02-AUG-06	ZN-65	<	5.200
02-AUG-06	ZR-NB-95	<	3.300
02-AUG-06	CS-134	<	3.900
02-AUG-06	CS-137	<	4.100
02-AUG-06	BA-LA-140	<	4.400
02-AUG-06	GROSS BETA	3.130+/-	0.718
02-AUG-06	I-131 (CHEM)	<	0.273
07-SEP-06	MN-54	<	3.800
07-SEP-06	CO-58	<	2.300
07-SEP-06	FE-59	<	8.800
07-SEP-06	CO-60	<	3.200
07-SEP-06	ZN-65	<	8.500

Exposure Pathway - Waterborne
Drinking Water

Location IO-DW

Collection Date	Nuclide	Concentration (pCi/Liter)	Duplicate Analysis
07-SEP-06	ZR-NB-95	< 3.000	
07-SEP-06	CS-134	< 4.600	
07-SEP-06	CS-137	< 3.500	
07-SEP-06	BA-LA-140	< 2.700	
07-SEP-06	GROSS BETA	7.692+/- 1.332	
07-SEP-06	I-131 (CHEM)	< 0.393	
03-OCT-06	MN-54	< 4.200	
03-OCT-06	CO-58	< 2.800	
03-OCT-06	FE-59	< 7.200	
03-OCT-06	CO-60	< 1.900	
03-OCT-06	ZN-65	< 3.600	
03-OCT-06	ZR-NB-95	< 3.400	
03-OCT-06	CS-134	< 3.700	
03-OCT-06	CS-137	< 3.000	
03-OCT-06	BA-LA-140	< 4.500	
03-OCT-06	GROSS BETA	2.808+/- 0.716	
03-OCT-06	I-131 (CHEM)	< 0.490	
01-NOV-06	MN-54	< 4.900	
01-NOV-06	CO-58	< 4.200	
01-NOV-06	FE-59	< 4.000	
01-NOV-06	CO-60	< 4.900	
01-NOV-06	ZN-65	< 8.300	
01-NOV-06	ZR-NB-95	< 5.500	
01-NOV-06	CS-134	< 3.300	
01-NOV-06	CS-137	< 4.500	
01-NOV-06	BA-LA-140	< 7.400	
01-NOV-06	GROSS BETA	5.403+/- 1.137	
01-NOV-06	I-131 (CHEM)	< 0.345	
05-DEC-06	MN-54	< 2.300	
05-DEC-06	CO-58	< 1.500	
05-DEC-06	FE-59	< 4.100	
05-DEC-06	CO-60	< 3.300	
05-DEC-06	ZN-65	< 5.700	
05-DEC-06	ZR-NB-95	< 3.500	
05-DEC-06	CS-134	< 3.800	
05-DEC-06	CS-137	< 3.200	
05-DEC-06	BA-LA-140	< 2.700	
05-DEC-06	GROSS BETA	3.364+/- 0.753	
05-DEC-06	I-131 (CHEM)	< 0.393	
04-JAN-07	MN-54	< 2.800	
04-JAN-07	CO-58	< 4.300	

Exposure Pathway - Waterborne
Drinking Water

Location IO-DW

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
04-JAN-07	FE-59	<	6.800	
04-JAN-07	CO-60	<	5.100	
04-JAN-07	ZN-65	<	7.800	
04-JAN-07	ZR-NB-95	<	4.800	
04-JAN-07	CS-134	<	4.300	
04-JAN-07	CS-137	<	4.200	
04-JAN-07	BA-LA-140	<	5.200	
04-JAN-07	GROSS BETA	4.562+/-	1.199	
04-JAN-07	I-131 (CHEM)	<	0.385	

Exposure Pathway - Waterborne
Drinking Water

Location NF-DW

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
01-FEB-06	MN-54	<	4.100	
01-FEB-06	CO-58	<	3.900	
01-FEB-06	FE-59	<	7.300	
01-FEB-06	CO-60	<	2.800	
01-FEB-06	ZN-65	<	6.900	
01-FEB-06	ZR-NB-95	<	5.600	
01-FEB-06	CS-134	<	6.400	
01-FEB-06	CS-137	<	5.400	
01-FEB-06	BA-LA-140	<	3.300	
01-FEB-06	GROSS BETA	2.976+/-	0.713	
01-FEB-06	I-131 (CHEM)	<	0.303	
01-MAR-06	MN-54	<	3.800	
01-MAR-06	CO-58	<	3.400	
01-MAR-06	FE-59	<	6.200	
01-MAR-06	CO-60	<	2.700	
01-MAR-06	ZN-65	<	4.200	
01-MAR-06	ZR-NB-95	<	4.500	
01-MAR-06	CS-134	<	2.600	
01-MAR-06	CS-137	<	3.000	
01-MAR-06	BA-LA-140	<	3.200	
01-MAR-06	GROSS BETA	3.270+/-	0.742	
01-MAR-06	I-131 (CHEM)	<	0.297	
05-APR-06	MN-54	<	4.200	
05-APR-06	CO-58	<	4.500	
05-APR-06	FE-59	<	3.600	
05-APR-06	CO-60	<	6.000	
05-APR-06	ZN-65	<	5.900	
05-APR-06	ZR-NB-95	<	3.700	
05-APR-06	CS-134	<	3.300	
05-APR-06	CS-137	<	3.800	
05-APR-06	BA-LA-140	<	6.100	
05-APR-06	GROSS BETA	2.232+/-	0.486	
05-APR-06	I-131 (CHEM)	<	0.329	
03-MAY-06	MN-54	<	4.100	
03-MAY-06	CO-58	<	3.900	
03-MAY-06	FE-59	<	7.500	
03-MAY-06	CO-60	<	5.700	
03-MAY-06	ZN-65	<	5.700	
03-MAY-06	ZR-NB-95	<	3.300	
03-MAY-06	CS-134	<	3.700	
03-MAY-06	CS-137	<	3.200	

Exposure Pathway - Waterborne
Drinking Water

Location NF-DW

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
03-MAY-06	BA-LA-140	<	5.700	
03-MAY-06	GROSS BETA	3.476+/-	1.150	
03-MAY-06	I-131 (CHEM)	<	0.356	
07-JUN-06	MN-54	<	5.000	
07-JUN-06	CO-58	<	3.200	
07-JUN-06	FE-59	<	7.300	
07-JUN-06	CO-60	<	3.900	
07-JUN-06	ZN-65	<	12.900	
07-JUN-06	ZR-NB-95	<	4.300	
07-JUN-06	CS-134	<	2.200	
07-JUN-06	CS-137	<	5.100	
07-JUN-06	BA-LA-140	<	3.500	
07-JUN-06	GROSS BETA	6.164+/-	1.278	
07-JUN-06	I-131 (CHEM)	<	0.347	

Exposure Pathway - Waterborne
Drinking Water
Quarterly Tritium Analysis

Location BW-15

Collection Date	Nuclide	Concentration (pCi/Liter)	Duplicate Analysis
05-APR-06	H-3	< 130.000	
06-JUL-06	H-3	< 171.000	
03-OCT-06	H-3	< 161.000	
04-JAN-07	H-3	< 152.000	

Exposure Pathway - Waterborne
Drinking Water
Quarterly Tritium Analysis

Location IO-DW

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
05-APR-06	H-3	<	130.000	
06-JUL-06	H-3	<	171.000	
03-OCT-06	H-3	<	161.000	
04-JAN-07	H-3	<	152.000	

Exposure Pathway - Waterborne
Drinking Water
Quarterly Tritium Analysis

Location NF-DW

Collection Date	Nuclide	Concentration (pCi/Liter)		Duplicate Analysis
05-APR-06	H-3	<	130.000	
07-JUN-06	H-3	<	172.000	

Exposure Pathway - Waterborne
Shoreline Sediment

Location DC

Collection Date	Nuclide	Gamma Spectrum Concentration (pCi/Kg Dry)		Duplicate Analysis
19-MAY-06	K-40	12123.000 +/-	735.200	
19-MAY-06	MN-54	<	25.600	
19-MAY-06	CO-58	<	18.900	
19-MAY-06	FE-59	<	38.600	
19-MAY-06	CO-60	<	17.400	
19-MAY-06	ZN-65	<	52.800	
19-MAY-06	CS-134	<	40.400	
19-MAY-06	CS-137	<	27.600	
25-OCT-06	K-40	11521.000 +/-	965.700	
25-OCT-06	MN-54	<	27.500	
25-OCT-06	CO-58	<	34.300	
25-OCT-06	FE-59	<	95.500	
25-OCT-06	CO-60	<	16.700	
25-OCT-06	ZN-65	<	84.400	
25-OCT-06	CS-134	<	53.500	
25-OCT-06	CS-137	<	35.600	

Exposure Pathway - Waterborne
Shoreline Sediment

Location JRR

Collection Date	Nuclide	Gamma Spectrum Concentration (pCi/Kg Dry)		Duplicate Analysis
19-MAY-06	K-40	7107.100 +/-	856.900	
19-MAY-06	MN-54	<	38.200	
19-MAY-06	CO-58	<	31.800	
19-MAY-06	FE-59	<	26.300	
19-MAY-06	CO-60	<	34.100	
19-MAY-06	ZN-65	<	57.600	
19-MAY-06	CS-134	<	44.400	
19-MAY-06	CS-137	<	39.000	
27-NOV-06	K-40	11308.000 +/-	792.800	
27-NOV-06	MN-54	<	31.200	
27-NOV-06	CO-58	<	35.900	
27-NOV-06	FE-59	<	65.000	
27-NOV-06	CO-60	<	23.600	
27-NOV-06	ZN-65	<	77.100	
27-NOV-06	CS-134	<	45.200	
27-NOV-06	CS-137	<	21.300	

Exposure Pathway - Ingestion
Fish

Location CCL

Collection Date	Sample Description	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Kg Wet)		Duplicate Analysis
19-MAY-06	CHANNEL CATFISH	K-40	3603.200+/-	437.500	
19-MAY-06	CHANNEL CATFISH	MN-54	<	21.200	
19-MAY-06	CHANNEL CATFISH	CO-58	<	17.800	
19-MAY-06	CHANNEL CATFISH	FE-59	<	22.900	
19-MAY-06	CHANNEL CATFISH	CO-60	<	18.400	
19-MAY-06	CHANNEL CATFISH	ZN-65	<	23.500	
19-MAY-06	CHANNEL CATFISH	CS-134	<	18.500	
19-MAY-06	CHANNEL CATFISH	CS-137	<	16.600	
19-MAY-06	CHANNEL CATFISH	H-3	6534.000+/-	197.000	
19-MAY-06	COMMON CARP	K-40	3369.400+/-	589.000	
19-MAY-06	COMMON CARP	K-40	3051.000+/-	396.000	Duplicate
19-MAY-06	COMMON CARP	MN-54	<	19.300	
19-MAY-06	COMMON CARP	MN-54	<	17.700	Duplicate
19-MAY-06	COMMON CARP	CO-58	<	26.000	
19-MAY-06	COMMON CARP	CO-58	<	9.200	Duplicate
19-MAY-06	COMMON CARP	FE-59	<	51.700	
19-MAY-06	COMMON CARP	FE-59	<	25.300	Duplicate
19-MAY-06	COMMON CARP	CO-60	<	25.000	
19-MAY-06	COMMON CARP	CO-60	<	20.000	Duplicate
19-MAY-06	COMMON CARP	ZN-65	<	27.500	
19-MAY-06	COMMON CARP	ZN-65	<	21.500	Duplicate
19-MAY-06	COMMON CARP	CS-134	<	17.200	
19-MAY-06	COMMON CARP	CS-134	<	11.300	Duplicate
19-MAY-06	COMMON CARP	CS-137	<	18.800	
19-MAY-06	COMMON CARP	CS-137	<	16.500	Duplicate
19-MAY-06	COMMON CARP	H-3	6389.000+/-	197.000	
19-MAY-06	COMMON CARP	H-3	6462.000+/-	198.000	Duplicate
19-MAY-06	FRESHWATER DRUM	K-40	3777.300+/-	637.300	
19-MAY-06	FRESHWATER DRUM	MN-54	<	27.600	
19-MAY-06	FRESHWATER DRUM	CO-58	<	21.600	
19-MAY-06	FRESHWATER DRUM	FE-59	<	73.600	
19-MAY-06	FRESHWATER DRUM	CO-60	<	28.100	
19-MAY-06	FRESHWATER DRUM	ZN-65	<	44.400	
19-MAY-06	FRESHWATER DRUM	CS-134	<	11.600	
19-MAY-06	FRESHWATER DRUM	CS-137	<	11.800	
19-MAY-06	FRESHWATER DRUM	H-3	5733.000+/-	175.000	
19-MAY-06	SMALLMOUTH BASS	K-40	3939.000+/-	682.200	
19-MAY-06	SMALLMOUTH BASS	MN-54	<	29.300	
19-MAY-06	SMALLMOUTH BASS	CO-58	<	14.800	
19-MAY-06	SMALLMOUTH BASS	FE-59	<	36.400	
19-MAY-06	SMALLMOUTH BASS	CO-60	<	21.300	

Exposure Pathway - Ingestion
Fish

Location CCL

Collection Date	Sample Description	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Kg Wet)		Duplicate Analysis
19-MAY-06	SMALLMOUTH BASS	ZN-65	<	31.200	
19-MAY-06	SMALLMOUTH BASS	CS-134	<	19.400	
19-MAY-06	SMALLMOUTH BASS	CS-137	<	21.900	
19-MAY-06	SMALLMOUTH BASS	H-3	7175.000+/-	209.000	
19-MAY-06	SMALLMOUTH BUFFALO	K-40	3126.500+/-	532.300	
19-MAY-06	SMALLMOUTH BUFFALO	MN-54	<	25.600	
19-MAY-06	SMALLMOUTH BUFFALO	CO-58	<	19.000	
19-MAY-06	SMALLMOUTH BUFFALO	FE-59	<	29.400	
19-MAY-06	SMALLMOUTH BUFFALO	CO-60	<	18.900	
19-MAY-06	SMALLMOUTH BUFFALO	ZN-65	<	55.600	
19-MAY-06	SMALLMOUTH BUFFALO	CS-134	<	16.000	
19-MAY-06	SMALLMOUTH BUFFALO	CS-137	<	24.300	
19-MAY-06	SMALLMOUTH BUFFALO	H-3	6273.000+/-	188.000	
12-OCT-06	CHANNEL CATFISH	K-40	3519.400+/-	474.100	
12-OCT-06	CHANNEL CATFISH	MN-54	<	13.700	
12-OCT-06	CHANNEL CATFISH	CO-58	<	22.200	
12-OCT-06	CHANNEL CATFISH	FE-59	<	68.800	
12-OCT-06	CHANNEL CATFISH	CO-60	<	20.000	
12-OCT-06	CHANNEL CATFISH	ZN-65	<	25.700	
12-OCT-06	CHANNEL CATFISH	CS-134	<	15.500	
12-OCT-06	CHANNEL CATFISH	CS-137	<	16.700	
12-OCT-06	CHANNEL CATFISH	H-3	12694.000+/-	270.000	
12-OCT-06	COMMON CARP	K-40	2957.900+/-	495.200	
12-OCT-06	COMMON CARP	MN-54	<	20.200	
12-OCT-06	COMMON CARP	CO-58	<	24.100	
12-OCT-06	COMMON CARP	FE-59	<	55.500	
12-OCT-06	COMMON CARP	CO-60	<	23.400	
12-OCT-06	COMMON CARP	ZN-65	<	58.900	
12-OCT-06	COMMON CARP	CS-134	<	16.200	
12-OCT-06	COMMON CARP	CS-137	<	20.000	
12-OCT-06	COMMON CARP	H-3	9642.000+/-	241.000	
12-OCT-06	SMALLMOUTH BUFFALO	K-40	3476.500+/-	569.600	
12-OCT-06	SMALLMOUTH BUFFALO	K-40	3056.700+/-	405.700	Duplicate
12-OCT-06	SMALLMOUTH BUFFALO	MN-54	<	15.900	
12-OCT-06	SMALLMOUTH BUFFALO	MN-54	<	15.100	Duplicate
12-OCT-06	SMALLMOUTH BUFFALO	CO-58	<	15.600	
12-OCT-06	SMALLMOUTH BUFFALO	CO-58	<	15.800	Duplicate
12-OCT-06	SMALLMOUTH BUFFALO	FE-59	<	33.700	
12-OCT-06	SMALLMOUTH BUFFALO	FE-59	<	28.800	Duplicate
12-OCT-06	SMALLMOUTH BUFFALO	CO-60	<	24.800	
12-OCT-06	SMALLMOUTH BUFFALO	CO-60	<	12.400	Duplicate

Exposure Pathway - Ingestion
Fish

Location CCL

Collection Date	Sample Description	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Kg Wet)		Duplicate Analysis
12-OCT-06	SMALLMOUTH BUFFALO	ZN-65	<	37.900	
12-OCT-06	SMALLMOUTH BUFFALO	ZN-65	<	37.500	Duplicate
12-OCT-06	SMALLMOUTH BUFFALO	CS-134	<	16.000	
12-OCT-06	SMALLMOUTH BUFFALO	CS-134	<	11.900	Duplicate
12-OCT-06	SMALLMOUTH BUFFALO	CS-137	<	21.200	
12-OCT-06	SMALLMOUTH BUFFALO	CS-137	<	13.300	Duplicate
12-OCT-06	SMALLMOUTH BUFFALO	H-3	12513.000+/-	247.000	
12-OCT-06	SMALLMOUTH BUFFALO	H-3	13366.000+/-	254.000	Duplicate
12-OCT-06	WHITE BASS	K-40	3757.100+/-	647.000	
12-OCT-06	WHITE BASS	MN-54	<	18.200	
12-OCT-06	WHITE BASS	CO-58	<	19.500	
12-OCT-06	WHITE BASS	FE-59	<	51.400	
12-OCT-06	WHITE BASS	CO-60	<	26.800	
12-OCT-06	WHITE BASS	ZN-65	<	21.700	
12-OCT-06	WHITE BASS	CS-134	<	19.000	
12-OCT-06	WHITE BASS	CS-137	<	22.500	
12-OCT-06	WHITE BASS	H-3	14745.000+/-	291.000	
12-OCT-06	WIPER	K-40	3503.800+/-	417.500	
12-OCT-06	WIPER	MN-54	<	12.100	
12-OCT-06	WIPER	CO-58	<	9.700	
12-OCT-06	WIPER	FE-59	<	41.900	
12-OCT-06	WIPER	CO-60	<	10.500	
12-OCT-06	WIPER	ZN-65	<	15.800	
12-OCT-06	WIPER	CS-134	<	13.400	
12-OCT-06	WIPER	CS-137	<	8.900	
12-OCT-06	WIPER	H-3	13021.000+/-	263.000	

Exposure Pathway - Ingestion
Fish

Location JRR

Collection Date	Sample Description	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Kg Wet)		Duplicate Analysis
19-MAY-06	CHANNEL CATFISH	K-40	3867.300+/-	456.800	
19-MAY-06	CHANNEL CATFISH	MN-54	<	15.300	
19-MAY-06	CHANNEL CATFISH	CO-58	<	11.700	
19-MAY-06	CHANNEL CATFISH	FE-59	<	18.100	
19-MAY-06	CHANNEL CATFISH	CO-60	<	19.700	
19-MAY-06	CHANNEL CATFISH	ZN-65	<	16.700	
19-MAY-06	CHANNEL CATFISH	CS-134	<	14.200	
19-MAY-06	CHANNEL CATFISH	CS-137	<	14.900	
19-MAY-06	CHANNEL CATFISH	H-3	<	108.000	
19-MAY-06	COMMON CARP	K-40	3210.400+/-	417.400	
19-MAY-06	COMMON CARP	MN-54	<	16.600	
19-MAY-06	COMMON CARP	CO-58	<	16.400	
19-MAY-06	COMMON CARP	FE-59	<	36.100	
19-MAY-06	COMMON CARP	CO-60	<	10.100	
19-MAY-06	COMMON CARP	ZN-65	<	28.100	
19-MAY-06	COMMON CARP	CS-134	<	14.200	
19-MAY-06	COMMON CARP	CS-137	<	10.300	
19-MAY-06	COMMON CARP	H-3	<	101.000	
19-MAY-06	WHITE CRAPPIE	K-40	3429.100+/-	452.000	
19-MAY-06	WHITE CRAPPIE	MN-54	<	16.600	
19-MAY-06	WHITE CRAPPIE	CO-58	<	19.200	
19-MAY-06	WHITE CRAPPIE	FE-59	<	23.500	
19-MAY-06	WHITE CRAPPIE	CO-60	<	16.100	
19-MAY-06	WHITE CRAPPIE	ZN-65	<	28.100	
19-MAY-06	WHITE CRAPPIE	CS-134	<	23.700	
19-MAY-06	WHITE CRAPPIE	CS-137	<	17.500	
19-MAY-06	WHITE CRAPPIE	H-3	<	106.000	
27-NOV-06	CHANNEL CATFISH	K-40	3394.700+/-	397.600	
27-NOV-06	CHANNEL CATFISH	MN-54	<	12.700	
27-NOV-06	CHANNEL CATFISH	CO-58	<	11.100	
27-NOV-06	CHANNEL CATFISH	FE-59	<	38.400	
27-NOV-06	CHANNEL CATFISH	CO-60	<	7.100	
27-NOV-06	CHANNEL CATFISH	ZN-65	<	27.300	
27-NOV-06	CHANNEL CATFISH	CS-134	<	9.900	
27-NOV-06	CHANNEL CATFISH	CS-137	<	9.200	
27-NOV-06	CHANNEL CATFISH	H-3	<	122.000	
27-NOV-06	LARGEMOUTH BASS	K-40	3472.600+/-	417.800	
27-NOV-06	LARGEMOUTH BASS	MN-54	<	15.200	
27-NOV-06	LARGEMOUTH BASS	CO-58	<	9.700	
27-NOV-06	LARGEMOUTH BASS	FE-59	<	25.300	
27-NOV-06	LARGEMOUTH BASS	CO-60	<	17.400	

Exposure Pathway - Ingestion
Fish

Location JRR

Collection Date	Sample Description	Nuclide	Gamma Spectrum & H-3 Concentration (pCi/Kg Wet)		Duplicate Analysis
27-NOV-06	LARGEMOUTH BASS	ZN-65	<	30.200	
27-NOV-06	LARGEMOUTH BASS	CS-134	<	5.900	
27-NOV-06	LARGEMOUTH BASS	CS-137	<	11.600	
27-NOV-06	LARGEMOUTH BASS	H-3	<	141.000	
27-NOV-06	SMALLMOUTH BUFFALO	K-40	3228.200+/-	411.800	
27-NOV-06	SMALLMOUTH BUFFALO	MN-54	<	9.800	
27-NOV-06	SMALLMOUTH BUFFALO	CO-58	<	8.800	
27-NOV-06	SMALLMOUTH BUFFALO	FE-59	<	28.900	
27-NOV-06	SMALLMOUTH BUFFALO	CO-60	<	10.100	
27-NOV-06	SMALLMOUTH BUFFALO	ZN-65	<	18.200	
27-NOV-06	SMALLMOUTH BUFFALO	CS-134	<	13.600	
27-NOV-06	SMALLMOUTH BUFFALO	CS-137	<	11.700	
27-NOV-06	SMALLMOUTH BUFFALO	H-3	<	150.000	

Exposure Pathway - Ingestion
Food/Garden

Location D-1

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)		Duplicate Analysis
17-MAY-06	RHUBARB	BE-7	455.500 +/-	95.200	
17-MAY-06	RHUBARB	K-40	6906.400 +/-	225.600	
17-MAY-06	RHUBARB	MN-54	<	8.700	
17-MAY-06	RHUBARB	CO-58	<	7.000	
17-MAY-06	RHUBARB	FE-59	<	16.700	
17-MAY-06	RHUBARB	CO-60	<	10.200	
17-MAY-06	RHUBARB	ZN-65	<	15.600	
17-MAY-06	RHUBARB	ZR-NB-95	<	7.400	
17-MAY-06	RHUBARB	I-131	<	9.400	
17-MAY-06	RHUBARB	CS-134	<	9.100	
17-MAY-06	RHUBARB	CS-137	<	10.800	
14-JUN-06	RHUBARB	BE-7	<	245.000	
14-JUN-06	RHUBARB	K-40	4090.400 +/-	668.500	
14-JUN-06	RHUBARB	MN-54	<	22.200	
14-JUN-06	RHUBARB	CO-58	<	23.400	
14-JUN-06	RHUBARB	FE-59	<	25.600	
14-JUN-06	RHUBARB	CO-60	<	31.000	
14-JUN-06	RHUBARB	ZN-65	<	51.600	
14-JUN-06	RHUBARB	ZR-NB-95	<	15.600	
14-JUN-06	RHUBARB	I-131	<	41.700	
14-JUN-06	RHUBARB	CS-134	<	20.300	
14-JUN-06	RHUBARB	CS-137	<	21.400	
12-JUL-06	RHUBARB	BE-7	249.600 +/-	117.900	
12-JUL-06	RHUBARB	K-40	3110.200 +/-	302.500	
12-JUL-06	RHUBARB	MN-54	<	8.500	
12-JUL-06	RHUBARB	CO-58	<	6.400	
12-JUL-06	RHUBARB	FE-59	<	25.700	
12-JUL-06	RHUBARB	CO-60	<	12.200	
12-JUL-06	RHUBARB	ZN-65	<	12.200	
12-JUL-06	RHUBARB	ZR-NB-95	<	11.500	
12-JUL-06	RHUBARB	I-131	<	27.100	
12-JUL-06	RHUBARB	CS-134	<	10.700	
12-JUL-06	RHUBARB	CS-137	<	13.100	

Exposure Pathway - Ingestion
Food/Garden

Location D-2

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)		Duplicate Analysis
14-JUN-06	RHUBARB	BE-7	539.700 +/-	148.800	
14-JUN-06	RHUBARB	K-40	3969.000 +/-	363.100	
14-JUN-06	RHUBARB	MN-54	<	7.800	
14-JUN-06	RHUBARB	CO-58	<	7.800	
14-JUN-06	RHUBARB	FE-59	<	20.500	
14-JUN-06	RHUBARB	CO-60	<	9.400	
14-JUN-06	RHUBARB	ZN-65	<	10.900	
14-JUN-06	RHUBARB	ZR-NB-95	<	12.300	
14-JUN-06	RHUBARB	I-131	<	16.300	
14-JUN-06	RHUBARB	CS-134	<	10.400	
14-JUN-06	RHUBARB	CS-137	<	8.300	
12-JUL-06	HORSERADISH LEAVES	BE-7	613.000 +/-	172.400	
12-JUL-06	HORSERADISH LEAVES	K-40	4226.100 +/-	362.200	
12-JUL-06	HORSERADISH LEAVES	MN-54	<	11.200	
12-JUL-06	HORSERADISH LEAVES	CO-58	<	10.000	
12-JUL-06	HORSERADISH LEAVES	FE-59	<	24.600	
12-JUL-06	HORSERADISH LEAVES	CO-60	<	11.000	
12-JUL-06	HORSERADISH LEAVES	ZN-65	<	29.900	
12-JUL-06	HORSERADISH LEAVES	ZR-NB-95	<	20.500	
12-JUL-06	HORSERADISH LEAVES	I-131	<	33.900	
12-JUL-06	HORSERADISH LEAVES	CS-134	<	11.700	
12-JUL-06	HORSERADISH LEAVES	CS-137	<	15.500	
09-AUG-06	HORSERADISH LEAVES	BE-7	319.900 +/-	104.900	
09-AUG-06	HORSERADISH LEAVES	K-40	3009.400 +/-	229.500	
09-AUG-06	HORSERADISH LEAVES	MN-54	<	8.000	
09-AUG-06	HORSERADISH LEAVES	CO-58	<	5.400	
09-AUG-06	HORSERADISH LEAVES	FE-59	<	12.200	
09-AUG-06	HORSERADISH LEAVES	CO-60	<	9.000	
09-AUG-06	HORSERADISH LEAVES	ZN-65	<	15.100	
09-AUG-06	HORSERADISH LEAVES	ZR-NB-95	<	10.100	
09-AUG-06	HORSERADISH LEAVES	I-131	<	56.900	
09-AUG-06	HORSERADISH LEAVES	CS-134	<	5.900	
09-AUG-06	HORSERADISH LEAVES	CS-137	<	5.900	
13-SEP-06	HORSERADISH LEAVES	BE-7	658.800 +/-	228.500	
13-SEP-06	HORSERADISH LEAVES	K-40	5165.800 +/-	564.900	
13-SEP-06	HORSERADISH LEAVES	MN-54	<	15.700	
13-SEP-06	HORSERADISH LEAVES	CO-58	<	16.400	
13-SEP-06	HORSERADISH LEAVES	FE-59	<	28.800	
13-SEP-06	HORSERADISH LEAVES	CO-60	<	15.000	
13-SEP-06	HORSERADISH LEAVES	ZN-65	<	36.200	
13-SEP-06	HORSERADISH LEAVES	ZR-NB-95	<	14.900	

Exposure Pathway - Ingestion
Food/Garden

Location D-2

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)			Duplicate Analysis
13-SEP-06	HORSERADISH LEAVES	I-131	<		38.400	
13-SEP-06	HORSERADISH LEAVES	CS-134	<		22.000	
13-SEP-06	HORSERADISH LEAVES	CS-137	<		24.300	
08-NOV-06	HORSERADISH LEAVES	BE-7	1831.300	+/-	247.800	
08-NOV-06	HORSERADISH LEAVES	K-40	5985.800	+/-	494.100	
08-NOV-06	HORSERADISH LEAVES	MN-54	<		16.600	
08-NOV-06	HORSERADISH LEAVES	CO-58	<		11.000	
08-NOV-06	HORSERADISH LEAVES	FE-59	<		29.500	
08-NOV-06	HORSERADISH LEAVES	CO-60	<		11.300	
08-NOV-06	HORSERADISH LEAVES	ZN-65	<		21.600	
08-NOV-06	HORSERADISH LEAVES	ZR-NB-95	<		11.300	
08-NOV-06	HORSERADISH LEAVES	I-131	<		28.500	
08-NOV-06	HORSERADISH LEAVES	CS-134	<		11.200	
08-NOV-06	HORSERADISH LEAVES	CS-137	<		12.100	

Exposure Pathway - Ingestion
Food/Garden

Location N-1

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)		Duplicate Analysis
17-MAY-06	RHUBARB	BE-7	781.300 +/-	96.700	
17-MAY-06	RHUBARB	K-40	6072.400 +/-	223.600	
17-MAY-06	RHUBARB	MN-54	<	5.600	
17-MAY-06	RHUBARB	CO-58	<	5.400	
17-MAY-06	RHUBARB	FE-59	<	15.100	
17-MAY-06	RHUBARB	CO-60	<	8.000	
17-MAY-06	RHUBARB	ZN-65	<	19.000	
17-MAY-06	RHUBARB	ZR-NB-95	<	8.400	
17-MAY-06	RHUBARB	I-131	<	9.700	
17-MAY-06	RHUBARB	CS-134	<	6.300	
17-MAY-06	RHUBARB	CS-137	<	8.200	
14-JUN-06	HORSERADISH LEAVES	BE-7	727.500 +/-	346.500	
14-JUN-06	HORSERADISH LEAVES	K-40	5288.300 +/-	565.500	
14-JUN-06	HORSERADISH LEAVES	MN-54	<	21.800	
14-JUN-06	HORSERADISH LEAVES	CO-58	<	23.300	
14-JUN-06	HORSERADISH LEAVES	FE-59	<	21.500	
14-JUN-06	HORSERADISH LEAVES	CO-60	<	22.000	
14-JUN-06	HORSERADISH LEAVES	ZN-65	<	29.000	
14-JUN-06	HORSERADISH LEAVES	ZR-NB-95	<	28.500	
14-JUN-06	HORSERADISH LEAVES	I-131	<	46.600	
14-JUN-06	HORSERADISH LEAVES	CS-134	<	22.400	
14-JUN-06	HORSERADISH LEAVES	CS-137	<	25.500	
12-JUL-06	HORSERADISH LEAVES	BE-7	570.000 +/-	225.200	
12-JUL-06	HORSERADISH LEAVES	K-40	4856.400 +/-	544.200	
12-JUL-06	HORSERADISH LEAVES	MN-54	<	22.200	
12-JUL-06	HORSERADISH LEAVES	CO-58	<	16.600	
12-JUL-06	HORSERADISH LEAVES	FE-59	<	24.000	
12-JUL-06	HORSERADISH LEAVES	CO-60	<	7.900	
12-JUL-06	HORSERADISH LEAVES	ZN-65	<	30.600	
12-JUL-06	HORSERADISH LEAVES	ZR-NB-95	<	19.900	
12-JUL-06	HORSERADISH LEAVES	I-131	<	42.700	
12-JUL-06	HORSERADISH LEAVES	CS-134	<	15.200	
12-JUL-06	HORSERADISH LEAVES	CS-137	<	17.400	
09-AUG-06	HORSERADISH LEAVES	BE-7	425.200 +/-	187.400	
09-AUG-06	HORSERADISH LEAVES	K-40	3990.500 +/-	458.400	
09-AUG-06	HORSERADISH LEAVES	MN-54	<	13.300	
09-AUG-06	HORSERADISH LEAVES	CO-58	<	10.500	
09-AUG-06	HORSERADISH LEAVES	FE-59	<	26.300	
09-AUG-06	HORSERADISH LEAVES	CO-60	<	17.300	
09-AUG-06	HORSERADISH LEAVES	ZN-65	<	20.600	
09-AUG-06	HORSERADISH LEAVES	ZR-NB-95	<	20.100	

Exposure Pathway - Ingestion
Food/Garden

Location N-1

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)			Duplicate Analysis
09-AUG-06	HORSERADISH LEAVES	I-131	<		39.000	
09-AUG-06	HORSERADISH LEAVES	CS-134	<		15.600	
09-AUG-06	HORSERADISH LEAVES	CS-137	<		20.600	
13-SEP-06	HORSERADISH LEAVES	BE-7	<		188.600	
13-SEP-06	HORSERADISH LEAVES	K-40	4301.000	+/-	459.100	
13-SEP-06	HORSERADISH LEAVES	MN-54	<		11.800	
13-SEP-06	HORSERADISH LEAVES	CO-58	<		13.800	
13-SEP-06	HORSERADISH LEAVES	FE-59	<		30.900	
13-SEP-06	HORSERADISH LEAVES	CO-60	<		8.300	
13-SEP-06	HORSERADISH LEAVES	ZN-65	<		33.900	
13-SEP-06	HORSERADISH LEAVES	ZR-NB-95	<		10.400	
13-SEP-06	HORSERADISH LEAVES	I-131	<		24.800	
13-SEP-06	HORSERADISH LEAVES	CS-134	<		11.300	
13-SEP-06	HORSERADISH LEAVES	CS-137	<		15.600	
11-OCT-06	HORSERADISH LEAVES	BE-7	483.700	+/-	289.900	
11-OCT-06	HORSERADISH LEAVES	K-40	5263.400	+/-	637.200	
11-OCT-06	HORSERADISH LEAVES	MN-54	<		17.600	
11-OCT-06	HORSERADISH LEAVES	CO-58	<		11.800	
11-OCT-06	HORSERADISH LEAVES	FE-59	<		20.300	
11-OCT-06	HORSERADISH LEAVES	CO-60	<		16.000	
11-OCT-06	HORSERADISH LEAVES	ZN-65	<		44.300	
11-OCT-06	HORSERADISH LEAVES	ZR-NB-95	<		16.500	
11-OCT-06	HORSERADISH LEAVES	I-131	<		34.800	
11-OCT-06	HORSERADISH LEAVES	CS-134	<		19.500	
11-OCT-06	HORSERADISH LEAVES	CS-137	<		14.800	
08-NOV-06	HORSERADISH LEAVES	BE-7	1261.100	+/-	241.100	
08-NOV-06	HORSERADISH LEAVES	BE-7	1253.100	+/-	217.800	Duplicate
08-NOV-06	HORSERADISH LEAVES	K-40	4165.700	+/-	469.500	
08-NOV-06	HORSERADISH LEAVES	K-40	4487.300	+/-	451.400	Duplicate
08-NOV-06	HORSERADISH LEAVES	MN-54	<		17.300	
08-NOV-06	HORSERADISH LEAVES	MN-54	<		15.400	Duplicate
08-NOV-06	HORSERADISH LEAVES	CO-58	<		12.600	
08-NOV-06	HORSERADISH LEAVES	CO-58	<		15.200	Duplicate
08-NOV-06	HORSERADISH LEAVES	FE-59	<		24.400	
08-NOV-06	HORSERADISH LEAVES	FE-59	<		28.000	Duplicate
08-NOV-06	HORSERADISH LEAVES	CO-60	<		13.400	
08-NOV-06	HORSERADISH LEAVES	CO-60	<		8.800	Duplicate
08-NOV-06	HORSERADISH LEAVES	ZN-65	<		32.100	
08-NOV-06	HORSERADISH LEAVES	ZN-65	<		32.900	Duplicate
08-NOV-06	HORSERADISH LEAVES	ZR-NB-95	<		14.100	
08-NOV-06	HORSERADISH LEAVES	ZR-NB-95	<		15.100	Duplicate

Exposure Pathway - Ingestion
Food/Garden

Location N-1

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)		Duplicate Analysis
08-NOV-06	HORSERADISH LEAVES	I-131	<	24.300	
08-NOV-06	HORSERADISH LEAVES	I-131	<	24.200	Duplicate
08-NOV-06	HORSERADISH LEAVES	CS-134	<	12.400	
08-NOV-06	HORSERADISH LEAVES	CS-134	<	9.200	Duplicate
08-NOV-06	HORSERADISH LEAVES	CS-137	<	17.100	
08-NOV-06	HORSERADISH LEAVES	CS-137	<	11.900	Duplicate

Exposure Pathway - Ingestion
Food/Garden

Location Q-6

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)		Duplicate Analysis
14-JUN-06	HORSERADISH LEAVES	BE-7	<	640.000	
14-JUN-06	HORSERADISH LEAVES	K-40	6090.100 +/-	925.500	
14-JUN-06	HORSERADISH LEAVES	MN-54	<	31.400	
14-JUN-06	HORSERADISH LEAVES	CO-58	<	41.300	
14-JUN-06	HORSERADISH LEAVES	FE-59	<	90.100	
14-JUN-06	HORSERADISH LEAVES	CO-60	<	35.200	
14-JUN-06	HORSERADISH LEAVES	ZN-65	<	45.800	
14-JUN-06	HORSERADISH LEAVES	ZR-NB-95	<	42.500	
14-JUN-06	HORSERADISH LEAVES	I-131	<	44.800	
14-JUN-06	HORSERADISH LEAVES	CS-134	<	37.900	
14-JUN-06	HORSERADISH LEAVES	CS-137	<	44.400	
12-JUL-06	HORSERADISH LEAVES	BE-7	247.900 +/-	140.700	
12-JUL-06	HORSERADISH LEAVES	K-40	3564.700 +/-	333.800	
12-JUL-06	HORSERADISH LEAVES	MN-54	<	6.200	
12-JUL-06	HORSERADISH LEAVES	CO-58	<	8.100	
12-JUL-06	HORSERADISH LEAVES	FE-59	<	14.200	
12-JUL-06	HORSERADISH LEAVES	CO-60	<	8.600	
12-JUL-06	HORSERADISH LEAVES	ZN-65	<	22.200	
12-JUL-06	HORSERADISH LEAVES	ZR-NB-95	<	12.700	
12-JUL-06	HORSERADISH LEAVES	I-131	<	27.400	
12-JUL-06	HORSERADISH LEAVES	CS-134	<	10.600	
12-JUL-06	HORSERADISH LEAVES	CS-137	<	13.900	

Exposure Pathway - Ingestion
Feed and Forage

Location NR-D1

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)			Duplicate Analysis
08-NOV-06	IRRIGATED SOYBEANS	BE-7		<	137.300	
08-NOV-06	IRRIGATED SOYBEANS	K-40	18112.000	+/-	756.000	
08-NOV-06	IRRIGATED SOYBEANS	MN-54		<	18.500	
08-NOV-06	IRRIGATED SOYBEANS	CO-58		<	15.700	
08-NOV-06	IRRIGATED SOYBEANS	FE-59		<	56.500	
08-NOV-06	IRRIGATED SOYBEANS	CO-60		<	22.100	
08-NOV-06	IRRIGATED SOYBEANS	ZN-65		<	54.800	
08-NOV-06	IRRIGATED SOYBEANS	ZR-NB-95		<	19.100	
08-NOV-06	IRRIGATED SOYBEANS	I-131		<	26.800	
08-NOV-06	IRRIGATED SOYBEANS	CS-134		<	13.800	
08-NOV-06	IRRIGATED SOYBEANS	CS-137		<	14.400	

Exposure Pathway - Ingestion
Feed and Forage

Location NR-D2

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)			Duplicate Analysis
22-SEP-06	IRRIGATED CORN	BE-7		<	78.600	
22-SEP-06	IRRIGATED CORN	K-40	2372.700	+/-	250.400	
22-SEP-06	IRRIGATED CORN	MN-54		<	6.400	
22-SEP-06	IRRIGATED CORN	CO-58		<	5.500	
22-SEP-06	IRRIGATED CORN	FE-59		<	13.000	
22-SEP-06	IRRIGATED CORN	CO-60		<	6.400	
22-SEP-06	IRRIGATED CORN	ZN-65		<	22.000	
22-SEP-06	IRRIGATED CORN	ZR-NB-95		<	5.600	
22-SEP-06	IRRIGATED CORN	I-131		<	14.300	
22-SEP-06	IRRIGATED CORN	CS-134		<	7.400	
22-SEP-06	IRRIGATED CORN	CS-137		<	9.900	
18-OCT-06	IRRIGATED SOYBEANS	BE-7		<	108.100	
18-OCT-06	IRRIGATED SOYBEANS	BE-7		<	81.200	Duplicate
18-OCT-06	IRRIGATED SOYBEANS	K-40	20398.000	+/-	841.000	
18-OCT-06	IRRIGATED SOYBEANS	K-40	19537.000	+/-	987.400	Duplicate
18-OCT-06	IRRIGATED SOYBEANS	MN-54		<	16.900	
18-OCT-06	IRRIGATED SOYBEANS	MN-54		<	18.400	Duplicate
18-OCT-06	IRRIGATED SOYBEANS	CO-58		<	10.300	
18-OCT-06	IRRIGATED SOYBEANS	CO-58		<	26.900	Duplicate
18-OCT-06	IRRIGATED SOYBEANS	FE-59		<	32.500	
18-OCT-06	IRRIGATED SOYBEANS	FE-59		<	63.400	Duplicate
18-OCT-06	IRRIGATED SOYBEANS	CO-60		<	17.900	
18-OCT-06	IRRIGATED SOYBEANS	CO-60		<	17.100	Duplicate
18-OCT-06	IRRIGATED SOYBEANS	ZN-65		<	58.000	
18-OCT-06	IRRIGATED SOYBEANS	ZN-65		<	76.900	Duplicate
18-OCT-06	IRRIGATED SOYBEANS	ZR-NB-95		<	24.000	
18-OCT-06	IRRIGATED SOYBEANS	ZR-NB-95		<	27.300	Duplicate
18-OCT-06	IRRIGATED SOYBEANS	I-131		<	23.400	
18-OCT-06	IRRIGATED SOYBEANS	I-131		<	25.200	Duplicate
18-OCT-06	IRRIGATED SOYBEANS	CS-134		<	10.500	
18-OCT-06	IRRIGATED SOYBEANS	CS-134		<	24.700	Duplicate
18-OCT-06	IRRIGATED SOYBEANS	CS-137		<	16.000	
18-OCT-06	IRRIGATED SOYBEANS	CS-137		<	28.300	Duplicate

Exposure Pathway - Ingestion
Feed and Forage

Location NR-U1

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)			Duplicate Analysis
08-NOV-06	NON-IRRIGATED CORN	BE-7		<	121.400	
08-NOV-06	NON-IRRIGATED CORN	K-40	2524.100	+/-	360.000	
08-NOV-06	NON-IRRIGATED CORN	MN-54		<	9.000	
08-NOV-06	NON-IRRIGATED CORN	CO-58		<	5.000	
08-NOV-06	NON-IRRIGATED CORN	FE-59		<	16.300	
08-NOV-06	NON-IRRIGATED CORN	CO-60		<	7.100	
08-NOV-06	NON-IRRIGATED CORN	ZN-65		<	18.800	
08-NOV-06	NON-IRRIGATED CORN	ZR-NB-95		<	8.300	
08-NOV-06	NON-IRRIGATED CORN	I-131		<	9.900	
08-NOV-06	NON-IRRIGATED CORN	CS-134		<	8.600	
08-NOV-06	NON-IRRIGATED CORN	CS-137		<	10.000	
08-NOV-06	NON-IRRIGATED SOYBEANS	BE-7		<	107.100	
08-NOV-06	NON-IRRIGATED SOYBEANS	K-40	14696.000	+/-	609.300	
08-NOV-06	NON-IRRIGATED SOYBEANS	MN-54		<	11.400	
08-NOV-06	NON-IRRIGATED SOYBEANS	CO-58		<	7.800	
08-NOV-06	NON-IRRIGATED SOYBEANS	FE-59		<	25.800	
08-NOV-06	NON-IRRIGATED SOYBEANS	CO-60		<	8.900	
08-NOV-06	NON-IRRIGATED SOYBEANS	ZN-65		<	25.100	
08-NOV-06	NON-IRRIGATED SOYBEANS	ZR-NB-95		<	9.700	
08-NOV-06	NON-IRRIGATED SOYBEANS	I-131		<	18.300	
08-NOV-06	NON-IRRIGATED SOYBEANS	CS-134		<	13.000	
08-NOV-06	NON-IRRIGATED SOYBEANS	CS-137		<	17.200	

Exposure Pathway - Aquatic
Bottom Sediment

Location DC

Collection Date	Nuclide	Gamma Spectrum Concentration (pCi/Kg Dry)			Duplicate Analysis
19-MAY-06	K-40	13324.000	+/-	827.600	
19-MAY-06	MN-54		<	34.600	
19-MAY-06	CO-58		<	22.000	
19-MAY-06	FE-59		<	65.900	
19-MAY-06	CO-60	107.300	+/-	32.000	
19-MAY-06	ZN-65		<	58.100	
19-MAY-06	CS-134		<	28.400	
19-MAY-06	CS-137	189.300	+/-	40.900	
25-OCT-06	K-40	14040.000	+/-	1221.000	
25-OCT-06	MN-54		<	49.700	
25-OCT-06	CO-58		<	49.100	
25-OCT-06	FE-59		<	131.600	
25-OCT-06	CO-60	139.100	+/-	50.600	
25-OCT-06	ZN-65		<	109.100	
25-OCT-06	CS-134		<	60.100	
25-OCT-06	CS-137	224.100	+/-	64.400	

Exposure Pathway - Aquatic
Bottom Sediment

Location EEA

Collection Date	Nuclide	Gamma Spectrum Concentration (pCi/Kg Dry)	Duplicate Analysis
26-MAY-06	K-40	12874.000 +/- 715.700	
26-MAY-06	MN-54	< 21.700	
26-MAY-06	CO-58	< 20.800	
26-MAY-06	FE-59	< 44.200	
26-MAY-06	CO-60	< 16.800	
26-MAY-06	ZN-65	< 41.700	
26-MAY-06	CS-134	< 17.100	
26-MAY-06	CS-137	96.900 +/- 33.600	

Exposure Pathway - Aquatic
Bottom Sediment

Location JRR

Collection Date	Nuclide	Gamma Spectrum Concentration (pCi/Kg Dry)			Duplicate Analysis
19-MAY-06	K-40	21825.000	+/-	1128.000	
19-MAY-06	MN-54		<	48.700	
19-MAY-06	CO-58		<	35.700	
19-MAY-06	FE-59		<	46.500	
19-MAY-06	CO-60		<	33.400	
19-MAY-06	ZN-65		<	97.600	
19-MAY-06	CS-134		<	66.700	
19-MAY-06	CS-137	164.800	+/-	62.900	
27-NOV-06	K-40	17323.000	+/-	846.300	
27-NOV-06	K-40	17213.000	+/-	1126.000	Duplicate
27-NOV-06	MN-54		<	28.500	
27-NOV-06	MN-54		<	42.000	Duplicate
27-NOV-06	CO-58		<	22.900	
27-NOV-06	CO-58		<	32.200	Duplicate
27-NOV-06	FE-59		<	50.400	
27-NOV-06	FE-59		<	58.600	Duplicate
27-NOV-06	CO-60		<	20.700	
27-NOV-06	CO-60		<	33.000	Duplicate
27-NOV-06	ZN-65		<	63.800	
27-NOV-06	ZN-65		<	107.500	Duplicate
27-NOV-06	CS-134		<	18.400	
27-NOV-06	CS-134		<	61.900	Duplicate
27-NOV-06	CS-137	140.500	+/-	45.600	
27-NOV-06	CS-137	135.800	+/-	44.100	Duplicate

Exposure Pathway - Aquatic
Bottom Sediment

Location MUDS

Collection Date	Nuclide	Gamma Spectrum Concentration (pCi/Kg Dry)			Duplicate Analysis
26-JUN-06	K-40	8695.100	+/-	816.000	
26-JUN-06	MN-54		<	34.700	
26-JUN-06	CO-58		<	19.700	
26-JUN-06	FE-59		<	92.200	
26-JUN-06	CO-60		<	39.300	
26-JUN-06	ZN-65		<	86.500	
26-JUN-06	CS-134		<	53.700	
26-JUN-06	CS-137		<	41.100	

Exposure Pathway - Aquatic Vegetation

Location EEA

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)	Duplicate Sample
26-MAY-06	ALGAE & PONDWEED	BE-7	653.600 +/- 70.500	
26-MAY-06	ALGAE & PONDWEED	K-40	1622.300 +/- 113.800	
26-MAY-06	ALGAE & PONDWEED	MN-54	< 4.800	
26-MAY-06	ALGAE & PONDWEED	CO-58	< 3.400	
26-MAY-06	ALGAE & PONDWEED	FE-59	< 11.500	
26-MAY-06	ALGAE & PONDWEED	CO-60	< 4.600	
26-MAY-06	ALGAE & PONDWEED	ZN-65	< 9.700	
26-MAY-06	ALGAE & PONDWEED	ZR-NB-95	< 10.200	
26-MAY-06	ALGAE & PONDWEED	I-131	< 55.700	
26-MAY-06	ALGAE & PONDWEED	CS-134	< 5.500	
26-MAY-06	ALGAE & PONDWEED	CS-137	< 6.800	

Exposure Pathway - Aquatic Vegetation

Location MUDS

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)	Duplicate Sample
26-JUN-06	PONDWEED	BE-7	224.800 +/- 120.800	
26-JUN-06	PONDWEED	BE-7	< 149.600	Duplicate
26-JUN-06	PONDWEED	K-40	1717.100 +/- 244.300	
26-JUN-06	PONDWEED	K-40	1893.100 +/- 223.300	Duplicate
26-JUN-06	PONDWEED	MN-54	< 10.000	
26-JUN-06	PONDWEED	MN-54	< 10.600	Duplicate
26-JUN-06	PONDWEED	CO-58	< 11.200	
26-JUN-06	PONDWEED	CO-58	< 5.800	Duplicate
26-JUN-06	PONDWEED	FE-59	< 20.700	
26-JUN-06	PONDWEED	FE-59	< 19.800	Duplicate
26-JUN-06	PONDWEED	CO-60	< 8.700	
26-JUN-06	PONDWEED	CO-60	< 10.200	Duplicate
26-JUN-06	PONDWEED	ZN-65	< 12.800	
26-JUN-06	PONDWEED	ZN-65	< 10.200	Duplicate
26-JUN-06	PONDWEED	ZR-NB-95	< 9.900	
26-JUN-06	PONDWEED	ZR-NB-95	< 14.100	Duplicate
26-JUN-06	PONDWEED	I-131	< 30.700	
26-JUN-06	PONDWEED	I-131	< 32.900	Duplicate
26-JUN-06	PONDWEED	CS-134	< 9.300	
26-JUN-06	PONDWEED	CS-134	< 10.500	Duplicate
26-JUN-06	PONDWEED	CS-137	< 10.400	
26-JUN-06	PONDWEED	CS-137	< 7.100	Duplicate
14-NOV-06	WATER NAIAD	BE-7	252.800 +/- 124.800	
14-NOV-06	WATER NAIAD	K-40	3363.200 +/- 335.700	
14-NOV-06	WATER NAIAD	MN-54	< 12.500	
14-NOV-06	WATER NAIAD	CO-58	< 14.500	
14-NOV-06	WATER NAIAD	FE-59	< 22.900	
14-NOV-06	WATER NAIAD	CO-60	< 12.100	
14-NOV-06	WATER NAIAD	ZN-65	< 24.200	

Exposure Pathway - Aquatic Vegetation

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)	Duplicate Sample
14-NOV-06	WATER NAIAD	ZR-NB-95	< 13.500	
14-NOV-06	WATER NAIAD	I-131	< 25.100	
14-NOV-06	WATER NAIAD	CS-134	< 11.400	
14-NOV-06	WATER NAIAD	CS-137	< 14.400	

Exposure Pathway - Terrestrial Vegetation

Location EEA

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)		Duplicate Analysis
26-MAY-06	PASTURAGE	BE-7	357.100+/-	202.500	
26-MAY-06	PASTURAGE	K-40	7484.200+/-	638.200	
26-MAY-06	PASTURAGE	MN-54	<	17.800	
26-MAY-06	PASTURAGE	CO-58	<	20.600	
26-MAY-06	PASTURAGE	FE-59	<	41.100	
26-MAY-06	PASTURAGE	CO-60	<	19.300	
26-MAY-06	PASTURAGE	ZN-65	<	42.400	
26-MAY-06	PASTURAGE	ZR-NB-95	<	19.200	
26-MAY-06	PASTURAGE	I-131	<	34.100	
26-MAY-06	PASTURAGE	CS-134	<	18.200	
26-MAY-06	PASTURAGE	CS-137	<	20.800	

Exposure Pathway - Terrestrial
Vegetation

Location MUDS

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)		Duplicate Analysis
26-JUN-06	PASTURAGE	BE-7	1064.900+/-	216.900	
26-JUN-06	PASTURAGE	K-40	6269.300+/-	522.200	
26-JUN-06	PASTURAGE	MN-54	<	10.100	
26-JUN-06	PASTURAGE	CO-58	<	17.600	
26-JUN-06	PASTURAGE	FE-59	<	40.600	
26-JUN-06	PASTURAGE	CO-60	<	12.000	
26-JUN-06	PASTURAGE	ZN-65	<	21.700	
26-JUN-06	PASTURAGE	ZR-NB-95	<	11.800	
26-JUN-06	PASTURAGE	I-131	<	38.000	
26-JUN-06	PASTURAGE	CS-134	<	10.800	
26-JUN-06	PASTURAGE	CS-137	<	17.500	

Exposure Pathway - Terrestrial
Soil

Location EEA

Collection Date	Nuclide	Gamma Spectrum Concentration (pCi/Kg Dry)		Duplicate Analysis
26-MAY-06	K-40	13180.000+/-	690.400	
26-MAY-06	MN-54	<	22.900	
26-MAY-06	CO-58	<	21.400	
26-MAY-06	FE-59	<	43.300	
26-MAY-06	CO-60	<	7.900	
26-MAY-06	ZN-65	<	50.200	
26-MAY-06	CS-134	<	19.200	
26-MAY-06	CS-137	<	21.800	

Exposure Pathway - Terrestrial
Soil

Location MUDS

Collection Date	Nuclide	Gamma Spectrum Concentration (pCi/Kg Dry)		Duplicate Analysis
26-JUN-06	K-40	10501.000+/-	939.800	
26-JUN-06	MN-54	<	36.200	
26-JUN-06	CO-58	<	23.000	
26-JUN-06	FE-59	<	77.500	
26-JUN-06	CO-60	<	38.200	
26-JUN-06	ZN-65	<	86.200	
26-JUN-06	CS-134	<	48.000	
26-JUN-06	CS-137	<	46.300	

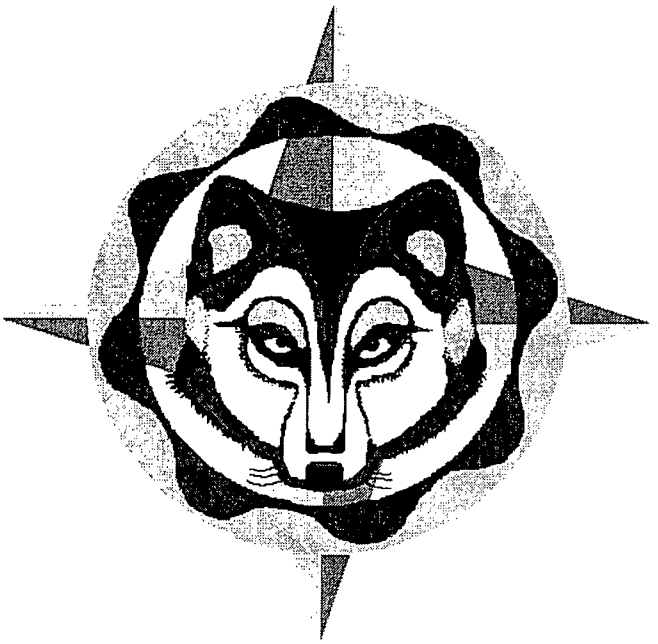
Exposure Pathway - Ingestion
Deer

Location A.8

Collection Date	Sample Description	Nuclide	Gamma Spectrum Concentration (pCi/Kg Wet)		Duplicate Analysis
27-OCT-06	DEER	K-40	2860.500+/-	401.700	
27-OCT-06	DEER	MN-54	<	18.700	
27-OCT-06	DEER	CO-58	<	18.900	
27-OCT-06	DEER	FE-59	<	52.700	
27-OCT-06	DEER	CO-60	<	10.700	
27-OCT-06	DEER	ZN-65	<	32.000	
27-OCT-06	DEER	CS-134	<	13.900	
27-OCT-06	DEER	CS-137	<	13.400	

WOLF CREEK GENERATING STATION

2006 LAND USE CENSUS REPORT



Prepared by:	Teresa L. Rice	09-20-06
	Teresa L. Rice	Date
Peer Review:	Ralph L Logsdon	09-21-06
	Ralph L. Logsdon	Date
Approved by:	Robert Hammond	9/21/06
	Robert A. Hammond	Date
Approved by:	Kevin J Moles	09/21/06
	Kevin J. Moles	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 2006 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 may be necessary for the Radiological Environmental Monitoring Program (REMP) broadleaf vegetation sample locations for 2007. The two broadleaf vegetation locations with the highest calculated annual average D/Q rankings have changed to R2.08-NALN1650 and Q2.35-MILA1619. AP 07B-004 specifies that an "alternate location may be used to provide continued monitoring". The third-ranked garden is location N2.38-RRDR9. The residents will be contacted prior to the 2007 growing season and based upon their cooperation; the REMP will be revised accordingly. It should be noted that locations Q2.35-MILA1619 and N2.38-RRDR9 were established sampling locations for the 2006-growing season.

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 ten 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 "G" was the only sector that experienced a change in the nearest residence. The residence located at G1.56-QURD1384 is currently vacant, thus, the nearest residence in sector "G" is now G3.03-13RD1820.

Three 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

2006 Land Use Census Data

Location of Nearest:

Sector	Residence	Milking Animals	Broadleaf Garden
A	A2.60-17TE1520	None	None
B	B3.53-QURD1755	None	None
C	C1.92-16RD1655	None	C1.92-16RD1655
D	D2.03-QULA1571	None	D3.00-16RD1829
E	E1.77-QULA1485	None	E4.40-TRRD1551
F	F1.76-14RD1730	None	F2.44-RERD1391
G	G3.03-13RD1820	None	G3.66-12RD1814
H	H3.09-12RD1711	None	H3.30-QURD1175
J	J3.70-11RD1540	None	J3.90-11RD1531
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	R2.08-NALN1650

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	2005 NEAREST RESIDENCE	2006 NEAREST RESIDENCE
A	A2.60-17TE1520	A2.60-17TE1520
B	B3.53-QURD1755	B3.53-QURD1755
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	G1.56-QURD1384	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 2005 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

2006 Land Use Census Milk and Garden Data

SECTOR	2005 MILKING ANIMALS	2006 MILKING ANIMALS	2005 CLOSEST GARDEN PRODUCING BROADLEAF VEGETATION	2006 CLOSEST GARDEN PRODUCING BROADLEAF VEGETATION
A	None	None	None	None
B	None	None	B3.53-QURD1755	None
C	None	None	C1.92-16RD1655	C1.92-16RD1655
D	None	None	D3.00-16RD1829	D3.00-16RD1829
E	None	None	E4.40-TRRD1551	E4.40-TRRD1551
F	None	None	F2.44-RERD1391	F2.44-RERD1391
G	None	None	G1.56-QURD1384	G3.66-12RD1814
H	None	None	H3.30-QURD1175	H3.30-QURD1175
J	None	None	J3.90-11RD1531	J3.90-11RD1531
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	None	R2.08-NALN1650

NOTE: Underlined entries indicate changes from the 2005 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	0	0							
C	1.92	3091	3000	7.26E-10	4000	4.36E-10	7.00E-10	4	8.40E-10
D	3.00	4830	4000	3.20E-10	5000	2.18E-10	2.35E-10	13	2.82E-10
E	4.40	7084	7000	1.14E-10	8000	9.23E-11	1.12E-10	14	1.34E-10
F	2.44	3928	3000	6.41E-10	4000	3.84E-10	4.03E-10	8	4.84E-10
G	3.66	5893	5000	4.97E-10	6000	3.65E-10	3.79E-10	10	4.55E-10
H	3.30	5313	5000	5.84E-10	6000	4.29E-10	5.35E-10	7	6.42E-10
J	3.90	6279	6000	3.72E-10	7000	2.76E-10	3.45E-10	11	4.14E-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	5	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	3	8.72E-10
P	2.76	4444	4000	7.30E-10	5000	4.97E-10	6.27E-10	6	7.52E-10
Q	2.35	3784	3000	1.75E-09	4000	1.05E-09	1.20E-09	2	1.44E-09
R	2.08	3349	3000	2.54E-09	4000	1.52E-09	2.18E-09	1	2.62E-09

Originated by: Teresa L. Rice Date: 09-20-06

Verified by: Ralph I Ingalsbe Date: 09-21-06