

APPENDIX C-2
SUMMARY OF AIR MONITORING DATA

TABLE C-2.1.1

1987 AIRBORNE RADIOACTIVE EFFLUENT ACTIVITY MONTHLY TOTALS
FROM MAIN VENTILATION STACK (ANSTACK)
(CURIES)

MONTH	ALPHA	BETA	TRITIUM (H-3)
JAN	2.00 ± 0.8 E-07	5.19 ± 0.3 E-05	2.94 ± 0.3 E-02
FEB	4.09 ± 1.0 E-07	4.00 ± 0.2 E-05	3.12 ± 0.3 E-02
MAR	4.12 ± 1.0 E-07	3.19 ± 0.2 E-05	9.45 ± 0.9 E-02
APR	2.08 ± 0.7 E-07	1.52 ± 0.2 E-05	3.71 ± 0.3 E-02
MAY	2.32 ± 0.9 E-07	4.35 ± 0.3 E-05	4.09 ± 0.3 E-02
JUN	2.58 ± 0.8 E-07	2.56 ± 0.2 E-05	2.01 ± 0.2 E-02
JUL	1.66 ± 0.6 E-07	3.28 ± 0.2 E-05	3.14 ± 0.3 E-02
AUG	1.69 ± 0.2 E-06	8.73 ± 0.5 E-05	3.06 ± 0.3 E-02
SEP	1.70 ± 0.2 E-06	7.84 ± 0.5 E-05	2.51 ± 0.3 E-02
OCT	7.22 ± 1.4 E-07	6.60 ± 0.3 E-05	1.78 ± 0.2 E-02
NOV	3.69 ± 1.1 E-07	5.65 ± 0.3 E-05	2.81 ± 0.3 E-02
DEC	2.83 ± 0.9 E-07	1.36 ± 0.2 E-05	2.75 ± 0.3 E-02
TOTAL FOR 1987	6.65 ± 0.4 E-06	5.43 ± 0.1 E-04	4.14 ± 0.1 E-01

TABLE C-2.1.2

1987 AIRBORNE RADIOACTIVE EFFLUENT ACTIVITY QUARTERLY TOTALS
FROM MAIN VENTILATION STACK (ANSTACK)
(CURIES)

	CO-60	SR-90	I-129	CS-134	CS-137	EU-154
1ST QTR	6.33 ± 1.1 E-07	2.24 ± 0.3 E-05	5.97 ± 0.8 E-06	< 1.1 E-07	5.20 ± 0.05 E-05	2.57 ± 1.7 E-07
2ND QTR	2.35 ± 0.9 E-07	1.97 ± 0.2 E-05	9.89 ± 1.4 E-06	< 8.4 E-08	3.08 ± 0.04 E-05	< 2.7 E-07
3RD QTR	2.82 ± 0.6 E-07	5.23 ± 0.6 E-05	1.20 ± 0.2 E-05	1.12 ± 0.7 E-07	5.36 ± 0.04 E-05	4.67 ± 1.7 E-07
4TH QTR	1.55 ± 0.8 E-07	3.72 ± 0.4 E-05	1.50 ± 0.3 E-05	< 1.5 E-07	6.86 ± 0.07 E-05	3.08 ± 1.4 E-07
1987 TOTALS	1.31 ± 0.2 E-06	1.32 ± 0.1 E-04	4.29 ± 0.4 E-05	2.61 ± 2.2 E-07	2.05 ± 0.01 E-04	1.30 ± 0.4 E-06
	U-234	U-235	U-238	PU-238	PU-239	AM-241
1ST QTR	7.05 ± 1.9 E-09	9.88 ± 7.4 E-10	6.21 ± 1.7 E-09	9.98 ± 1.0 E-08	2.33 ± 0.2 E-07	2.72 ± 0.2 E-07
2ND QTR	9.51 ± 1.7 E-09	9.26 ± 6.5 E-10	5.91 ± 1.3 E-09	7.51 ± 0.7 E-08	1.43 ± 0.1 E-07	1.72 ± 0.2 E-07
3RD QTR	8.37 ± 1.8 E-09	8.63 ± 8.5 E-10	6.86 ± 1.6 E-09	4.91 ± 0.4 E-07	5.35 ± 0.4 E-07	1.16 ± 0.1 E-06
4TH QTR	1.49 ± 0.3 E-08	<9.23 E-10	1.37 ± 0.3 E-08	2.02 ± 0.2 E-07	2.51 ± 0.2 E-07	6.02 ± 0.5 E-07
1987 TOTALS	3.98 ± 0.4 E-08	3.41 ± 1.6 E-09	3.27 ± 0.4 E-08	8.68 ± 0.5 E-07	1.16 ± 0.1 E-06	2.21 ± 0.1 E-06

TABLE C-2.1.3

COMPARISON OF 1987 MAIN STACK EXHAUST RADIOACTIVITY
CONCENTRATIONS WITH DOE GUIDELINES

ISOTOPE	TOTAL μCi RELEASED	AVG CONC ($\mu\text{Ci/mL}$)	DCG ($\mu\text{Ci/mL}$)	PERCENT OF DCG
Alpha	6.65 E+00	7.4 E-15	2 E-14 ^a	37
Beta	5.43 E+02	6.1 E-13	9 E-12 ^b	6.8
H-3	4.14 E+05	4.6 E-10	1 E-07	0.4
Co-60	1.31 E+00	1.5 E-15	8 E-11	<0.1
Sr-90	1.32 E+02	1.5 E-13	9 E-12	1.7
I-129	4.29 E+01	4.8 E-14	7 E-11	<0.1
Cs-134	2.61 E-01	2.9 E-16	2 E-10	<0.1
Cs-137	2.05 E+02	2.3 E-13	4 E-10	<0.1
Eu-154	1.30 E+00	1.5 E-15	5 E-11	<0.1
U-234 ^c	3.98 E-02	4.5 E-17	9 E-14	<0.1
U-235 ^c	3.41 E-03	3.8 E-18	1 E-13	<0.1
U-238 ^c	3.27 E-02	3.7 E-17	1 E-13	<0.1
Pu-238	8.68 E-01	9.7 E-16	3 E-14	3.2
Pu-239	1.16 E+00	1.3 E-15	2 E-14	6.5
Am-241	2.21 E+00	2.5 E-15	2 E-14	12.5

				24.6 ^d

Notes:

Total volume released at 60,000 cfm = 8.93 E+14 mL/yr

^a Am-241^b Sr-90^c U total (μg) = 9.888 E+4 Avg U $\mu\text{g/m}^3$ = 1.107 E-04^d Total percent DCG for specific measured radionuclides

TABLE C-2.1.4

1987 AIRBORNE RADIOACTIVE EFFLUENT ACTIVITY MONTHLY TOTALS
 FROM CEMENT SOLIDIFICATION SYSTEM VENTILATION STACK (ANCSSTK)
 (CURIES)

MONTH	ALPHA	BETA
JAN	< 7.8 E-09	1.64 ± 0.4 E-07
FEB	< 4.2 E-09	6.87 ± 2.4 E-08
MAR	< 5.4 E-09	1.43 ± 0.3 E-07
APR	< 5.0 E-09	1.09 ± 0.3 E-07
MAY	< 7.4 E-09	1.13 ± 0.3 E-07
JUN	< 4.8 E-09	4.42 ± 1.8 E-08
JUL	< 5.6 E-09	8.10 ± 2.2 E-08
AUG	< 6.8 E-09	1.43 ± 0.3 E-07
SEP	< 5.0 E-09	1.35 ± 0.3 E-07
OCT	< 7.1 E-09	6.86 ± 2.6 E-08
NOV	< 7.3 E-09	8.04 ± 2.7 E-08
DEC	< 7.8 E-09	< 1.9 E-08
TOTAL FOR 1987	< 2.2 E-08	1.16 ± 0.1 E-06

TABLE C-2.1.5

1987 AIRBORNE RADIOACTIVE EFFLUENT ACTIVITY QUARTERLY TOTALS
 FROM CEMENT SOLIDIFICATION SYSTEM VENTILATION STACK (ANCSSTK)
 (CURIES)

	CO-60	SR-90	I-129	CS-134	CS-137	EU-154
1ST QTR	1.90 ± 1.4 E-08	5.58 ± 0.7 E-07	9.49 ± 2.6 E-08	< 1.2 E-08	4.57 ± 0.3 E-07	< 3.8 E-08
2ND QTR	< 1.2 E-08	1.90 ± 0.2 E-07	< 1.9 E-08	< 1.1 E-08	2.14 ± 0.2 E-07	< 4.0 E-08
3RD QTR	< 1.4 E-08	1.48 ± 0.2 E-06	< 3.1 E-08	< 1.1 E-08	2.65 ± 0.1 E-06	< 4.5 E-08
4TH QTR	< 1.7 E-08	4.62 ± 0.8 E-08	< 1.7 E-08	< 1.2 E-08	< 2.3 E-08	< 5.5 E-08
1987 TOTALS	< 2.9 E-08	2.27 ± 0.2 E-06	9.49 ± 4.8 E-08	< 2.3 E-08	3.32 ± 0.1 E-06	< 9.0 E-08
	U-234	U-235	U-238	PU-238	PU-239	AM-241
1ST QTR	1.69 ± 0.5 E-09	< 6.7 E-11	1.35 ± 0.4 E-09	1.43 ± 0.3 E-09	2.21 ± 0.4 E-09	9.15 ± 1.1 E-09
2ND QTR	1.84 ± 0.4 E-09	< 1.4 E-10	1.80 ± 0.4 E-09	3.04 ± 1.8 E-10	6.07 ± 2.1 E-10	1.70 ± 0.5 E-09
3RD QTR	1.76 ± 0.4 E-09	2.29 ± 1.9 E-10	1.59 ± 0.4 E-09	4.40 ± 0.3 E-08	4.34 ± 0.3 E-08	8.65 ± 0.7 E-08
4TH QTR	1.65 ± 0.5 E-09	< 1.5 E-10	1.18 ± 0.4 E-09	3.90 ± 2.1 E-10	3.38 ± 2.1 E-10	5.00 ± 2.6 E-10
1987 TOTALS	6.94 ± 0.9 E-09	< 2.9 E-10	5.92 ± 0.8 E-09	4.61 ± 0.3 E-08	4.66 ± 0.3 E-08	9.79 ± 0.7 E-08

TABLE C-2.1.6

1987 AIRBORNE RADIOACTIVE EFFLUENT ACTIVITY MONTHLY TOTALS
 FROM CONTACT SIZE REDUCTION FACILITY VENTILATION STACK (ANCSRFK)
 (CURIES)

MONTH	ALPHA	BETA
JAN		
FEB	***NOT IN OPERATION***	
MAR		
APR		
MAY	***NOT IN OPERATION***	
JUN		
JUL		
AUG	***NOT IN OPERATION***	
SEP		
OCT	< 2.5 E-09	2.97 ± 0.9 E-08
NOV	< 3.2 E-09	3.75 ± 1.3 E-08
DEC	< 3.2 E-09	< 1.2 E-08
TOTAL FOR 1987	< 5.2 E-09	6.72 ± 2.0 E-08

TABLE C-2.1.7

1987 AIRBORNE RADIOACTIVE EFFLUENT ACTIVITY QUARTERLY TOTALS
 FROM CONTACT SIZE REDUCTION FACILITY VENTILATION STACK (ANCSRFK)
 (CURIES)

	CO-60	SR-90	I-129	CS-134	CS-137	EU-154
1ST QTR			***NOT IN OPERATION***			
2ND QTR			***NOT IN OPERATION***			
3RD QTR			***NOT IN OPERATION***			
4TH QTR	< 1.4 E-08	5.51 ± 1.0 E-09	1.70 ± 0.7 E-08	< 1.1 E-08	< 1.3 E-08	< 3.2 E-08
1987 TOTALS	< 1.4 E-08	5.51 ± 1.0 E-09	1.70 ± 0.7 E-08	< 1.1 E-08	< 1.3 E-08	< 3.2 E-08
	U-234	U-235	U-238	PU-238	PU-239	AM-241
1ST QTR			***NOT IN OPERATION***			
2ND QTR			***NOT IN OPERATION***			
3RD QTR			***NOT IN OPERATION***			
4TH QTR	1.36 ± 0.4 E-09	< 2.5 E-11	1.10 ± 0.3 E-09	1.69 ± 0.9 E-10	1.23 ± 0.7 E-10	1.14 ± 0.6 E-10
1987 TOTALS	1.36 ± 0.4 E-09	< 2.5 E-11	1.10 ± 0.3 E-09	1.69 ± 0.9 E-10	1.23 ± 0.7 E-10	1.14 ± 0.6 E-10

TABLE C-2.2.1
 1987 RADIOACTIVITY CONCENTRATIONS IN AIRBORNE PARTICULATE
 AT FOX VALLEY AIR SAMPLER (AFFXVRD)
 $\mu\text{Ci/mL}$

	ALPHA	BETA	SR-90	CS-137
JAN	< 9.1 E-16	2.82 \pm 0.5 E-14		
FEB	< 1.1 E-15	1.68 \pm 0.5 E-14		
MAR	1.25 \pm 1.2 E-15	2.59 \pm 0.5 E-14		
1ST QTR			9.42 \pm 2.8 E-17	< 6.5 E-16
APR	< 1.0 E-15	1.43 \pm 0.5 E-14		
MAY	< 9.7 E-16	1.27 \pm 0.3 E-14		
JUNE	< 1.0 E-15	1.94 \pm 0.5 E-14		
2ND QTR			4.61 \pm 2.7 E-17	6.27 \pm 3.3 E-16
JUL	< 1.0 E-15	1.85 \pm 0.4 E-14		
AUG	< 8.9 E-16	2.27 \pm 0.5 E-14		
SEP	< 8.0 E-16	1.93 \pm 0.4 E-14		
3RD QTR			9.74 \pm 4.6 E-17	< 4.6 E-16
OCT	< 9.0 E-16	2.30 \pm 0.5 E-14		
NOV	< 9.3 E-16	2.07 \pm 0.4 E-14		
DEC	< 9.1 E-16	1.40 \pm 0.5 E-14		
4TH QTR			6.91 \pm 2.3 E-17	< 2.7 E-16

TABLE C-2.2.2
 1987 RADIOACTIVITY CONCENTRATIONS IN AIRBORNE PARTICULATE
 AT ROCK SPRINGS ROAD AIR SAMPLER (AFRSPRD)
 $\mu\text{Ci/mL}$

	ALPHA	BETA	SR-90	I-129	CS-137
JAN	< 8.1 E-16	2.41 \pm 0.5 E-14			
FEB	1.06 \pm 1.0 E-15	1.84 \pm 0.5 E-14			
MAR	< 9.9 E-16	2.37 \pm 0.5 E-14			
1ST QTR			5.02 \pm 2.5 E-17	< 6.8 E-16	< 6.1 E-16
APR	< 6.8 E-16	1.42 \pm 0.4 E-14			
MAY	< 1.0 E-15	1.86 \pm 0.4 E-14			
JUNE	1.04 \pm 1.0 E-15	1.67 \pm 0.4 E-14			
2ND QTR			< 2.4 E-17	< 5.9 E-16	< 5.8 E-16
JUL	< 8.4 E-16	2.16 \pm 0.4 E-14			
AUG	< 6.6 E-16	1.83 \pm 0.4 E-14			
SEP	< 8.4 E-16	2.02 \pm 0.4 E-14			
3RD QTR			1.40 \pm 0.2 E-16	< 6.8 E-16	< 4.0 E-16
OCT	< 1.0 E-15	2.65 \pm 0.5 E-14			
NOV	< 1.1 E-15	2.39 \pm 0.5 E-14			
DEC	< 8.2 E-16	1.79 \pm 0.5 E-14			
4TH QTR			< 4.0 E-17	< 4.6 E-16	< 5.3 E-16

TABLE C-2.2.3
 1987 RADIOACTIVITY CONCENTRATIONS IN AIRBORNE PARTICULATE
 AT ROUTE 240 AIR SAMPLER (AFRT240)
 $\mu\text{Ci/mL}$

	ALPHA	BETA	SR-90	CS-137
JAN	< 1.6 E-15	3.07 \pm 0.7 E-14		
FEB	< 1.2 E-15	2.05 \pm 0.6 E-14		
MAR	< 1.2 E-15	3.44 \pm 0.7 E-14		
1ST QTR			1.22 \pm 0.9 E-16	< 6.4 E-16
APR	< 1.5 E-15	1.95 \pm 0.6 E-14		
MAY	< 1.6 E-15	2.98 \pm 0.6 E-14		
JUNE	< 1.5 E-15	2.30 \pm 0.6 E-14		
2ND QTR			5.31 \pm 4.0 E-17	< 8.4 E-16
JUL	< 9.6 E-16	2.12 \pm 0.5 E-14		
AUG	1.43 \pm 1.4 E-15	2.92 \pm 0.6 E-14		
SEP	< 9.7 E-16	1.94 \pm 0.5 E-14		
3RD QTR			4.39 \pm 0.9 E-16	5.70 \pm 5.0 E-16
OCT	1.0 \pm 1.0 E-15	2.20 \pm 0.5 E-14		
NOV	< 1.2 E-15	1.88 \pm 0.5 E-14		
DEC	< 9.4 E-16	1.06 \pm 0.3 E-14		
4TH QTR			< 8.3 E-17	< 6.9 E-16

TABLE C-2.2.4
 1987 RADIOACTIVITY CONCENTRATIONS IN AIRBORNE PARTICULATE
 AT SPRINGVILLE AIR SAMPLER (AFSPRVL)
 $\mu\text{Ci/mL}$

	ALPHA	BETA	SR-90	CS-137
JAN	< 8.8 E-16	2.62 \pm 0.5 E-14		
FEB	< 9.0 E-16	1.97 \pm 0.4 E-14		
MAR	1.09 \pm 1.0 E-15	2.13 \pm 0.5 E-14		
1ST QTR			6.20 \pm 2.4 E-17	< 4.4 E-16
APR	< 8.0 E-16	1.59 \pm 0.4 E-14		
MAY	< 1.0 E-15	2.15 \pm 0.4 E-14		
JUNE	1.01 \pm 1.0 E-15	1.95 \pm 0.4 E-14		
2ND QTR			4.70 \pm 2.1 E-17	< 3.5 E-16
JUL	< 8.3 E-16	2.03 \pm 0.4 E-14		
AUG	< 9.2 E-16	2.05 \pm 0.4 E-14		
SEP	< 9.1 E-16	2.43 \pm 0.4 E-14		
3RD QTR			1.48 \pm 0.4 E-16	< 4.6 E-16
OCT	1.11 \pm 1.1 E-15	2.28 \pm 0.4 E-14		
NOV	1.10 \pm 1.1 E-15	2.62 \pm 0.5 E-14		
DEC	< 1.0 E-15	1.63 \pm 0.4 E-14		
4TH QTR			< 3.7 E-17	< 3.9 E-16

TABLE C-2.2.5
 1987 RADIOACTIVITY CONCENTRATIONS IN AIRBORNE PARTICULATE
 AT THOMAS CORNERS AIR SAMPLER (AFTCORD)
 $\mu\text{Ci}/\text{mL}$

	ALPHA	BETA	SR-90	CS-137
JAN	< 1.3 E-15	3.61 \pm 0.7 E-14		
FEB	< 1.5 E-15	2.25 \pm 0.5 E-14		
MAR	< 1.7 E-15	3.06 \pm 0.7 E-14		
1ST QTR			< 9.7 E-17	< 6.0 E-16
APR	< 1.9 E-15	3.60 \pm 0.5 E-14		
MAY	< 1.2 E-15	2.27 \pm 0.5 E-14		
JUNE	2.18 \pm 1.8 E-15	2.50 \pm 0.5 E-14		
2ND QTR			< 5.2 E-17	< 6.2 E-16
JUL	1.03 \pm 1.0 E-15	1.95 \pm 0.4 E-14		
AUG	< 9.0 E-16	1.69 \pm 0.4 E-14		
SEP	< 8.6 E-16	1.89 \pm 0.4 E-14		
3RD QTR			4.90 \pm 1.5 E-17	< 3.9 E-16
OCT	< 8.7 E-16	2.10 \pm 0.4 E-14		
NOV	1.06 \pm 1.0 E-15	2.14 \pm 0.5 E-14		
DEC	< 1.1 E-15	1.55 \pm 0.5 E-14		
4TH QTR			< 3.9 E-17	< 4.3 E-16

TABLE C-2.2.6
 1987 RADIOACTIVITY CONCENTRATIONS IN AIRBORNE PARTICULATE
 AT WEST VALLEY AIR SAMPLER (AFWEAL)
 $\mu\text{Ci}/\text{mL}$

	ALPHA	BETA	SR-90	CS-137
JAN	< 9.7 E-16	2.49 \pm 0.5 E-14		
FEB	< 8.0 E-16	2.00 \pm 0.5 E-14		
MAR	< 1.0 E-15	2.36 \pm 0.5 E-14		
1ST QTR			5.28 \pm 2.3 E-17	< 4.4 E-16
APR	< 9.1 E-16	1.32 \pm 0.3 E-14		
MAY	< 1.0 E-15	1.83 \pm 0.4 E-14		
JUNE	1.38 \pm 1.2 E-15	2.34 \pm 0.5 E-14		
2ND QTR			4.73 \pm 2.2 E-17	< 4.5 E-16
JUL	< 7.5 E-16	2.29 \pm 0.4 E-14		
AUG	< 8.3 E-16	2.04 \pm 0.4 E-14		
SEP	9.30 \pm 9.3 E-16	2.17 \pm 0.4 E-14		
3RD QTR			< 3.1 E-17	< 5.3 E-16
OCT	9.91 \pm 9.5 E-16	1.98 \pm 0.5 E-14		
NOV	1.42 \pm 1.3 E-15	2.48 \pm 0.5 E-14		
DEC	< 7.3 E-16	1.50 \pm 0.4 E-14		
4TH QTR			< 3.7 E-17	< 5.5 E-16

TABLE C-2.2.7
 1987 RADIOACTIVITY CONCENTRATIONS IN AIRBORNE PARTICULATE
 AT GREAT VALLEY AIR SAMPLER (AFGRVAL)
 $\mu\text{Ci}/\text{mL}$

	ALPHA	BETA	SR-90	I-129	CS-137
JAN	< 1.0 E-15	2.41 \pm 0.5 E-14			
FEB	< 8.3 E-16	1.90 \pm 0.5 E-14			
MAR	< 1.2 E-15	1.97 \pm 0.5 E-14			
1ST QTR			4.60 \pm 2.2 E-17	< 6.9 E-16	< 4.9 E-16
APR	< 9.5 E-16	2.00 \pm 0.5 E-14			
MAY	1.06 \pm 1.0 E-15	1.67 \pm 0.4 E-14			
JUNE	1.24 \pm 1.1 E-15	1.90 \pm 0.4 E-14			
2ND QTR			< 3.7 E-17	< 5.7 E-16	5.38 \pm 3.2 E-16
JUL	< 7.9 E-16	2.29 \pm 0.4 E-14			
AUG	< 8.2 E-16	2.07 \pm 0.4 E-14			
SEP	< 8.6 E-16	1.99 \pm 0.4 E-14			
3RD QTR			5.53 \pm 1.6 E-17	< 7.7 E-16	< 3.1 E-16
OCT	< 9.5 E-16	2.90 \pm 0.5 E-14			
NOV	1.05 \pm 1.0 E-15	2.79 \pm 0.5 E-14			
DEC	< 1.1 E-15	1.82 \pm 0.4 E-14			
4TH QTR			3.96 \pm 2.1 E-17	< 5.7 E-16	< 5.0 E-16

TABLE C-2.2.8
 1987 RADIOACTIVITY CONCENTRATIONS IN AIRBORNE PARTICULATE
 AT DUNKIRK AIR SAMPLER (AFDNKRK)
 $\mu\text{Ci}/\text{mL}$

	ALPHA	BETA	SR-90	CS-137
JAN				
FEB		***NOT IN OPERATION***		
MAR				
1ST QTR				
APR				
MAY		***NOT IN OPERATION***		
JUNE				
2ND QTR				
JUL				
AUG		***NOT IN OPERATION***		
SEP				
3RD QTR				
OCT	9.13 \pm 9.1 E-16	1.85 \pm 0.4 E-14		
NOV	< 8.7 E-16	2.17 \pm 0.4 E-14		
DEC	< 7.1 E-16	1.29 \pm 0.3 E-14		
4TH QTR			3.56 \pm 2.0 E-17	< 5.4 E-16

TABLE C-2.3.1

 RADIOACTIVITY IN FALLOUT DURING 1987
 (nCi/m²/mo)

DUTCH HILL (AFDHFOP)				FOX VALLEY ROAD (AFFXFOP)			
MONTH - 1987	GROSS ALPHA	GROSS BETA	H-3 (μ Ci/mL)	MONTH - 1987	GROSS ALPHA	GROSS BETA	H-3 (μ Ci/mL)
JANUARY	4.11 E-02	0.28 \pm 0.04	1.11 \pm 0.1 E-06	JANUARY	7.17 E-02	0.49 \pm 0.05	4.80 \pm 1.3 E-07
FEBRUARY	1.44 E-02	0.10 \pm 0.02	1.74 \pm 1.2 E-07	FEBRUARY	4.40 E-02	0.20 \pm 0.04	2.16 \pm 1.2 E-07
MARCH	1.20 E-02	0.14 \pm 0.02	< 1.0 E-07	MARCH	3.21 E-02	0.14 \pm 0.03	< 1.0 E-07
APRIL	1.23 E-02	0.22 \pm 0.04	< 1.0 E-07	APRIL	1.53 E-02	0.24 \pm 0.04	4.05 \pm 1.2 E-07
MAY	1.22 E-02	0.13 \pm 0.02	< 1.0 E-07	MAY	2.67 E-02	0.21 \pm 0.04	1.19 \pm 1.1 E-07
JUNE	6.63 E-02	0.47 \pm 0.05	< 1.0 E-07	JUNE	5.08 E-02	0.44 \pm 0.05	< 1.0 E-07
JULY	1.05 E-01	0.94 \pm 0.07	< 1.0 E-07	JULY	1.02 E-01	0.48 \pm 0.05	< 1.0 E-07
AUGUST	2.00 E-02	0.25 \pm 0.04	< 1.0 E-07	AUGUST	1.41 E-02	0.14 \pm 0.02	< 1.0 E-07
SEPTEMBER	2.26 E-02	0.22 \pm 0.04	< 1.0 E-07	SEPTEMBER	2.96 E-02	0.21 \pm 0.03	< 1.0 E-07
OCTOBER	2.49 E-02	0.26 \pm 0.04	< 1.0 E-07	OCTOBER	2.40 E-02	0.33 \pm 0.04	< 1.0 E-07
NOVEMBER	2.67 E-02	0.24 \pm 0.04	< 1.0 E-07	NOVEMBER	1.48 E-02	0.21 \pm 0.04	< 1.0 E-07
DECEMBER	2.10 E-02	0.13 \pm 0.02	2.54 \pm 1.2 E-07	DECEMBER	5.01 E-02	0.34 \pm 0.04	6.24 \pm 1.5 E-07

ROUTE 240 (AF24FOP)				THOMAS CORNERS ROAD (AFTCFOP)			
MONTH - 1987	GROSS ALPHA	GROSS BETA	H-3 (μ Ci/mL)	MONTH - 1987	GROSS ALPHA	GROSS BETA	H-3 (μ Ci/mL)
JANUARY	4.37 E-02	0.40 \pm 0.04	1.10 \pm 1.0 E-07	JANUARY	8.29 E-02	0.53 \pm 0.05	1.07 \pm 1.0 E-07
FEBRUARY	2.27 E-02	0.12 \pm 0.02	1.50 \pm 1.1 E-07	FEBRUARY	5.25 E-02	0.27 \pm 0.04	2.32 \pm 1.2 E-07
MARCH	1.11 E-02	0.10 \pm 0.02	< 1.0 E-07	MARCH	2.93 E-02	0.16 \pm 0.02	< 1.0 E-07
APRIL	8.77 E-03	0.18 \pm 0.02	4.26 \pm 1.2 E-07	APRIL	2.58 E-02	0.29 \pm 0.04	6.18 \pm 1.4 E-07
MAY	2.38 E-02	0.11 \pm 0.02	< 1.0 E-07	MAY	3.14 E-02	0.21 \pm 0.03	< 1.0 E-07
JUNE	4.29 E-02	0.59 \pm 0.05	1.30 \pm 1.2 E-07	JUNE	8.34 E-02	0.50 \pm 0.05	< 1.0 E-07
JULY	5.70 E-02	0.51 \pm 0.05	< 1.0 E-07	JULY	7.85 E-02	0.66 \pm 0.06	< 1.0 E-07
AUGUST	4.80 E-02	0.71 \pm 0.07	< 1.0 E-07	AUGUST	1.56 E-02	0.19 \pm 0.02	< 1.0 E-07
SEPTEMBER	2.73 E-02	0.54 \pm 0.05	< 1.0 E-07	SEPTEMBER	5.51 E-02	0.38 \pm 0.04	1.18 \pm 1.1 E-07
OCTOBER	3.44 E-02	0.46 \pm 0.05	< 1.0 E-07	OCTOBER	3.26 E-02	0.42 \pm 0.05	< 1.0 E-07
NOVEMBER	2.15 E-02	0.31 \pm 0.04	< 1.0 E-07	NOVEMBER	1.45 E-02	0.22 \pm 0.04	2.29 \pm 1.2 E-07
DECEMBER	2.75 E-02	0.26 \pm 0.04	< 1.0 E-07	DECEMBER	4.62 E-02	0.32 \pm 0.04	4.51 \pm 1.2 E-07

TABLE C - 2.3.2
pH OF PRECIPITATION FALLOUT COLLECTIONS

MONTH - 1987	DUTCH HILL (AFDHFOP)	FOX VALLEY ROAD (AFFXFOP)	ROUTE 240 (AF24FOP)	THOMAS CORNERS ROAD (AFTCFOP)
JANUARY	4.03	4.13	3.99	4.04
FEBRUARY	4.43	5.51	4.71	5.96
MARCH	4.39	6.08	4.69	6.31
APRIL	3.44	4.65	3.73	5.69
MAY	3.75	3.97	4.76	4.14
JUNE	3.72	4.00	3.77	3.85
JULY	6.69	4.01	3.68	4.08
AUGUST	4.27	4.11	6.71	3.94
SEPTEMBER	4.27	4.12	5.92	3.95
OCTOBER	4.19	4.83	6.65	3.97
NOVEMBER	4.16	4.70	4.28	4.28
DECEMBER	4.03	4.57	4.05	4.52