



ENVIRONMENTAL

RADIATION

DATA

NUCLEAR REGULATORY COMMISSION

Docket No. 50-352/353 Official Exh. No. 163  
In the matter of PECO - Limerick 1a2  
Staff \_\_\_\_\_ IDENTIFIED   
Applicant  RECEIVED   
Intervenor \_\_\_\_\_ REJECTED   
Cont'g Off'r \_\_\_\_\_  
Contractor \_\_\_\_\_ DATE 6/19/84  
Other \_\_\_\_\_ Witness \_\_\_\_\_  
Reporter Mary Simon

REPORT 6

October 1976

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Office of Radiation Programs

8411270442 840619  
PDR ADOCK 05000352  
G PDR

Drinking Water

Alpha, Beta and Gamma Concentration

April - June 1976 - (Continued)

Annual Analyses

Indicated Activity in pCi/l

Location	Date Collected	Total Solids mg/l	Gross Beta		Gross Alpha		Indicated Activity in pCi/l		Specific Gamma Activity
			Date Ctd.	(a) (b)	Date Ctd.	(a) (c)	<sup>90</sup> Sr	<sup>226</sup> Ra	
61 Los Angeles	4/16/76	440.0	4/23/76	6.5 ± 2.6	4/23/76	(d)	.0±1.0	.4±.1	(e)
CO:Denver	4/23/76	294.0	5/04/76	2.3 ± 1.0	5/04/76	(d)	.6±.5	.4±.1	(e)
Platteville	4/22/76	880.0	5/04/76	7.8 ± 1.6	5/04/76	3.6 ± 1.7	.2±.3	.6±.1	(e)
CT:Hartford	4/05/76	80.0	4/14/76	1.5 ± 1.1	4/14/76	(d)	.0±1.0	.2±.1	(e)
CZ:Ancon	4/22/76	150.0	5/04/76	(d)	5/04/76	(d)	.1±.3	1.9±.3	(e)
DC:Washington	6/08/76	206.0	6/25/76	3.5 ± 1.2	6/25/76	(d)	.4±.5	.2±.1	(e)
DE:Wilmington	4/19/76	226.8	5/04/76	2.3 ± 1.1	5/04/76	(d)	.2±.2	.6±.1	(e)

Drinking Water  
 Alpha, Beta and Gamma Concentration  
 April - June 1976 - (Continued)  
 Annual Analyses

Location	Date Collected	Total Solids mg/l	Indicated Activity in pCi/l					
			Gross Beta Date Ctd.	(a) (b)	Gross Alpha Date Ctd.	(a) (c)	<sup>90</sup> Sr	<sup>226</sup> Ra
MD: Baltimore N	4/05/76	134.0	2.3 ± .9 4/14/76	(d)	4/14/76	.2±.1	.1±.1	(e)
Conowingo	4/15/76	188.0	1.8 ± .9 4/23/76	(d)	4/23/76	.3±.5	.4±.1	(e)
ME: Augusta	4/05/76	158.0	2.5 ± 1.0 4/20/76	(d)	4/20/76	.4±.3	.4±.1	(e)
MI: Detroit	4/06/76	198.0	1.3 ± 1.1 4/20/76	(d)	4/20/76	1.1±.8	.2±.1	(e)
Grand Rapids	4/05/76	232.0	3.2 ± 1.2 4/20/76	(d)	4/20/76	.2±.1	.2±.1	(e)
MN: Minneapolis	5/21/76	242.0	4.2 ± 1.2 6/24/76	(d)	6/24/76	.7±.4	.3±.1	(e)
Red Wing	5/20/76	674.0	15.6 ± 2.2 6/24/76	4.1±1.8 6/24/76		.0±1.	5.2±.3	(e)

Drinking Water

Alpha, Beta and Gamma Concentration

April - June 1976 - (Continued)

Annual Analyses

Location	Date Collected	Total Solids mg/l	Indicated Activity in pCi/l						
			Gross Beta Date Ctd.	(a) (b)	Gross Alpha Date Ctd.	(a) (c)	<sup>90</sup> Sr	<sup>226</sup> Ra	Specific Gamma Activity
NH:Concord 24	4/02/76	128.0	4/20/76	1.2 ± .8	(d)	4/20/76	.1±.1	.3±.1	(e)
NJ:Trenton	4/08/76	172.0	4/20/76	1.4 ± .9	(d)	4/20/76	1.6±1.2	.3±.1	(e)
Waretown	4/08/76	80.0	4/20/76	5.0 ± 1.3	2.0 ± .7	4/20/76	.1±.6	1.9±.2	(e)
NM:Santa Fe	(f)								
NV:Las Vegas	4/07/76	658.0	4/20/76	4.9 ± 1.4	(d)	4/20/76	1.3±.8	.6±.1	(e)
NY:Albany	4/06/76	78.0	4/14/76	1.3 ± .9	(d)	4/14/76	.2±.1	.2±.1	(e)
Buffalo	4/05/76	352.0	4/20/76	3.6 ± 1.2	(d)	4/20/76	1.1±.6	.3±.1	(e)



Drinking Water

Alpha, Beta and Gamma Concentration

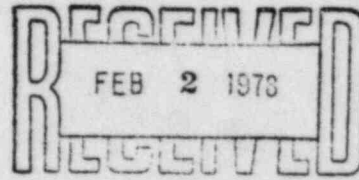
April - June 1976 - (Continued)

Annual Analyses

Indicated Activity in pCi/l

Location	Date Collected	Total Solids mg/l	Gross Beta		Gross Alpha		Indicated Activity in pCi/l		Specific Gamma Activity
			Date Ctd.	(a) (b)	Date Ctd.	(a) (c)	<sup>90</sup> Sr	<sup>226</sup> Ra	
OK:Oklahoma 26	4/06/76	725.8	9.8 ± 1.8 4/20/76	(d)	4/20/76	1.3±.7	.2±.1	(e)	
OR:Portland	4/06/76	34.0	(d) 4/20/76	(d)	4/20/76	.2±.6	.4±.1	(e)	
Columbus	4/15/76	138.0	1.2 ±1.0 4/23/76	(d)	4/23/76	.3±.5	.3±.1	(e)	
Harrisburg	4/12/76	36.0	(d) 4/23/76	(d)	4/23/76	.1±.2	.4±.1	(e)	
Pittsburgh	4/21/76	280.0	2.4 ± 1.0 4/29/76	(d)	4/29/76	.8±.6	.4±.1	(e)	
PR:San Juan	4/29/76	239.2	1.4 ± .9 5/26/76	(d)	5/26/76	.1±.1	.8±.1	(e)	
RI:Providence	4/05/76	92.0	1.4 ± .9 4/20/76	(d)	4/20/76	.5±.4	.4±.1	(e)	

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Radiological Systems

ENVIRONMENTAL

RADIATION

DATA

REPORT 10

October 1977

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Office of Radiation Programs

TABLE 11  
DRINKING WATER  
ALPHA, BETA AND GAMMA CONCENTRATION

JULY 1976 - JUNE 1977

ANNUAL ANALYSES

Indicated Activity in pCi/l  $\pm$  2 sigma counting error

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA DATE CTD.		GROSS ALPHA DATE CTD.		$^{90}\text{Sr}$		$^{226}\text{Ra}$	SPECIFIC GAMMA ACTIVITY
		(a)	(b)	(a)	(c)			(e)	
ANCHORAGE	295.4	<1.0	1.0	<2.0	2.0	0.1	0.6	(e)	(e)
		06/15/77		06/15/77					
FAIRBANKS	128.0	1.3	0.9	<2.0	2.0	-0.1	0.2	(e)	(e)
		06/17/77		06/16/77					
DOTHAN	174.0	<1.0	1.0	<2.0	2.0	-0.1	0.2	(e)	(e)
		06/09/77		06/09/77					
MONTGOMERY	104.0	1.3	0.9	<2.0	2.0	0.1	0.1	(e)	(e)
		06/09/77		06/09/77					
MUSCLE SHOALS	122.0	<1.0	1.0	<2.0	2.0	0.6	0.5	(e)	(e)
		06/09/77		06/09/77					
LITTLE ROCK	68.0	2.0	1.2	<2.0	2.0	0.4	0.4	(e)	(e)
		06/16/77		06/15/77					
BERKELEY	84.0	<1.0	1.0	<2.0	2.0	0.3	0.3	(e)	(e)
		06/16/77		06/16/77					
LOS ANGELES	314.0	2.4	1.1	<2.0	2.0	-0.1	0.2	(e)	(e)
		06/16/77		06/15/77					
DENVER	1248.0	3.5	1.6	<2.0	2.0	0.4	0.4	(e)	(e)
		06/15/77		06/15/77					
PLATTEVILLE	774.0	10.9	2.0	<2.0	2.0	-0.1	0.2	(e)	(d)
		06/15/77		06/15/77					
HARTFORD	60.0	<1.0	1.0	<2.0	2.0	0.6	0.5	(e)	(e)
		06/07/77		06/07/77					
LANCON	188.0	<1.0	1.0	<2.0	2.0	-0.1	0.1	(e)	(e)
		06/08/77		06/08/77					
INGTON	316.0	2.9	1.1	<2.0	2.0	0.5	2.2	(e)	(e)
		06/08/77		06/08/77					
ELMINGTON	168.0	3.3	1.2	<2.0	2.0	0.1	0.1	(e)	(e)
		06/03/77		06/08/77					

DRINKING WATER: ALPHA, BETA AND GAMMA CONCENTRATION  
JULY 1976 - JUNE 1977 (CONTINUED)

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA DATE CTD.		GROSS ALPHA DATE CTD.		<sup>90</sup> Sr		<sup>226</sup> Ra		SPECIFIC GAMMA ACTIVITY
		(a)	(b)	(a)	(c)					
FL:MIAMI	20.0	2.5	1.1	<2.0	2.0	0.3	0.4	(e)		(e)
		06/08/77		06/08/77						
FL:TAMPA	396.0	4.3	1.2	<2.0	2.0	0.1	0.6	(e)		(e)
		06/09/77		06/09/77						
GA:BAXLEY	(f)									
GA:SAVANNAH	146.0	2.5	1.1	<2.0	2.0	0.7	0.6	(e)		(e)
		06/08/77		06/08/77						
HI:HONOLULU	284.0	1.7	1.0	<2.0	2.0	-0.1	0.4	(e)		(e)
		06/16/77		06/15/77						
IA:CEDAR RAPIDS	310.0	2.2	1.1	<2.0	2.0	0.0	1.0	(e)		(e)
		06/16/77		06/16/77						
ID:BOISE	364.0	2.9	1.0	<2.0	2.0	0.4	0.5	(e)		(e)
		06/16/77		06/16/77						
ID:IDAHO FALLS	612.0	3.3	1.4	<2.0	2.0	0.2	0.2	(e)		(e)
		06/16/77		06/16/77						
IL:MORRIS	370.0	36.5	2.9	16.5	3.6	0.1	0.2	6.8	0.07	(d)
		06/16/77		06/15/77						
IL:CHICAGO	766.0	1.8	1.1	<2.0	2.0	0.0	1.0	(e)		(e)
		06/16/77		06/16/77						
KS:TOPEKA	284.0	6.4	1.4	<2.0	2.0	0.2	0.3	(e)		(e)
		06/16/77		06/16/77						
LA:NEW ORLEANS	234.0	5.3	1.3	<2.0	2.0	0.5	0.6	(e)		(e)
		06/17/77		06/15/77						
MA:LAWRENCE	190.0	2.1	1.1	<2.0	2.0	0.4	0.3	(e)		(e)
		06/08/77		06/08/77						
MA:ROWE	284.0	1.0	0.8	<2.0	2.0	0.1	0.1	(e)		(e)
		06/08/77		06/08/77						
MD:BALTIMORE	124.0	2.5	1.1	<2.0	2.0	0.6	0.9	(e)		(e)
		06/08/77		06/08/77						
MD:CONOWINGO	226.0	1.3	0.9	<2.0	2.0	0.2	0.2	(e)		(e)
		06/08/77		06/08/77						



DRINKING WATER: ALPHA, BETA AND GAMMA CONCENTRATION  
 JULY 1976 - JUNE 1977 (CONTINUED)

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA DATE CTD.		GROSS ALPHA DATE CTD.		<sup>90</sup> Sr		<sup>226</sup> Ra		SPECIFIC GAMMA ACTIVITY
		(a)	(b)	(a)	(c)					
ME:AUGUSTA	80.0	<1.0	1.0 06/08/77	<2.0	2.0 06/08/77	0.2	0.2	(e)		(e)
MI:DETROIT	256.0	2.8	1.1 06/09/77	<2.0	2.0 06/09/77	1.2	0.5	(e)		(e)
MI:GRAND RAPIDS	174.0	2.8	1.1 06/17/77	<2.0	2.0 06/16/77	0.5	0.8	(e)		(e)
MN:MINNEAPOLIS	168.0	3.4	1.3 06/17/77	<2.0	2.0 06/16/77	0.3		(e)		(e)
MN:RED WING	426.0	8.3	1.6 07/05/77	<2.0	2.0 07/05/77	-0.3	0.4	(e)		(e)
MO:JEFFERSON CITY	208.0	5.2	1.2 06/16/77	2.9	1.4 06/16/77	0.0	1.0	1.4	0.06	(e)
MO:JACKSON	78.0	2.5	0.9 06/08/77	<2.0	2.0 06/08/77	0.8	0.7	(e)		(e)
MT:HELENA	124.0	2.7	1.0 06/16/77	<2.0	2.0 06/15/77	0.8	0.9	(e)		(e)
NC:CHARLOTTE	404.0	1.6	1.2 06/09/77	<2.0	2.0 06/09/77	0.1	0.1	(e)		(e)
NC:WILMINGTON	148.0	1.4	0.9 06/09/77	<2.0	2.0 06/09/77	0.0	1.0	(e)		(e)
ND:BISMARCK	386.0	4.5	1.4 06/16/77	<2.0	2.0 06/16/77	0.3	0.5	(e)		(e)
NE:LINCOLN	262.0	7.8	1.4 06/16/77	<2.0	2.0 06/15/77	0.2	0.3	(e)		(e)
NH:CONCORD	102.0	<1.0	1.0 06/08/77	<2.0	2.0 06/08/77	0.1	0.1	(e)		(e)
NJ:TRENTON	178.0	1.5	1.0 06/08/77	<2.0	2.0 06/08/77	0.6	0.9	(e)		(e)
NJ:WARETOWN	226.0	4.6	1.2 06/08/77	2.8	1.4 06/07/77	-0.5	0.4	0.9	0.04	(e)
NM:SANTA FE	430.0	3.2	1.3 06/15/77	3.9	1.8 06/15/77	0.3	0.3	0.2	0.02	(e)

DK

LOCATION

DRINKING WATER: ALPHA, BETA AND GAMMA CONCENTRATION  
JULY 1976 - JUNE 1977 (CONTINUED)

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA		GROSS ALPHA		$^{90}\text{Sr}$		$^{226}\text{Ra}$	SPECIFIC GAMMA ACTIVITY
		DATE CTD. (a)	DATE CTD. (b)	DATE CTD. (a)	DATE CTD. (c)				
NV: LAS VEGAS	446.0	2.7	1.0	<2.0	2.0	0.8	0.4	(e)	(e)
		06/15/77		06/15/77					
NY: ALBANY	68.0	1.1	1.0	<2.0	2.0	0.8	2.9	(e)	(e)
		06/08/77		06/08/77					
NY: BUFFALO	340.0	2.5	1.2	<2.0	2.0	0.6	0.3	(e)	(e)
		06/08/77		06/08/77					
NY: NEW YORK	52.0	<1.0	1.0	<2.0	2.0	0.2	0.4	(e)	(e)
		06/08/77		06/08/77					
NY: SYRACUSE	192.0	2.4	1.1	<2.0	2.0	0.9	0.5	(e)	(e)
		07/08/77		07/08/77					
OH: CINCINNATI	336.0	2.6	1.1	<2.0	2.0	0.3	0.5	(e)	(e)
		06/16/77		06/15/77					
OH: COLUMBUS	620.0	6.8	1.6	<2.0	2.0	0.1	0.1	(e)	(e)
		06/16/77		06/15/77					
OH: EAST LIVERPOOL	206.0	3.4	1.1	<2.0	2.0	0.5	0.4	(e)	(e)
		06/08/77		06/08/77					
OH: PAINESVILLE	274.0	2.3	1.1	<2.0	2.0	1.1	0.5	(e)	(e)
		06/17/77		06/16/77					
OH: TOLEDO	214.0	2.2	1.2	<2.0	2.0	0.0	1.0	(e)	(e)
		06/16/77		06/15/77					
OK: OKLAHOMA CITY	802.0	7.9	1.3	<2.0	2.0	1.3	0.6	(e)	(e)
		06/15/77		06/15/77					
OR: PORTLAND	32.0	<1.0	1.0	<2.0	2.0	0.1	0.3	(e)	(e)
		06/16/77		06/15/77					
PA: COLUMBIA	178.0	1.7	1.0	<2.0	2.0	0.6	2.4	(e)	(e)
		06/09/77		06/09/77					
PA: HARRISBURG	46.0	1.0	0.9	<2.0	2.0	0.5	2.2	(e)	(e)
		06/09/77		06/09/77					
PA: PITTSBURGH	178.0	2.7	1.1	<2.0	2.0	0.1	0.1	(e)	(e)
		06/09/77		06/09/77					
PR: SAN JUAN	344.0	1.9	1.1	<2.0	2.0	0.3	0.5	(e)	(e)
		06/08/77		06/08/77					

ENVIRONMENTAL

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REPORT 15

January 1979

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Office of Radiation Programs

TABLE 10 (CONTINUED)

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA DATE CTD. pCi/l ± e		GROSS ALPHA DATE CTD. pCi/l ± e		90Sr pCi/l ± e		226Ra pCi/l ± e		SPECIFIC GAMMA ACTIVITY
CZ:ANCON	84.2	1.2	0.9	<2.0	2.0	-0.5	2.2	NA		ND
		06/23/78		06/23/78						
DC:WASHINGTON	24.6	2.2	1.0	<2.0	2.0	0.2	0.3	NA		ND
		06/23/78		06/23/78						
DE:WILMINGTON	198.4	4.4	1.3	<2.0	2.0	0.4	0.4	NA		ND
		06/23/78		06/23/78						
FL:MIAMI	290.6	2.5	1.2	<2.0	2.0	0.1	0.4	NA		ND
		06/23/78		06/23/78						
FL:TAMPA	114.8	3.3	1.1	<2.0	2.0	0.3	0.3	NA		ND
		06/23/78		06/23/78						
GA:BAXLEY	NS									
GA:SAVANNAH	94.2	2.0	0.9	<2.0	2.0	0.5	0.6	NA		ND
		07/07/78		07/07/78						
HI:HONOLULU	199.6	2.2	1.0	<2.0	2.0	0.1	0.4	NA		ND
		07/07/78		07/07/78						
IA:CEDAR RAPIDS	177.6	3.0	1.1	<2.0	2.0	0.0	1.0	NA		ND
		07/07/78		07/07/78						
ID:BOISE	100.0	1.0	0.8	<2.0	2.0	-0.1	0.3	NA		ND
		07/07/78		07/07/78						
ID:IDAHO FALLS	275.4	2.7	1.0	<2.0	2.0	0.1	0.3	NA		ND
		07/07/78		07/07/78						
IL:CHICAGO	738.0	4.4	1.4	<2.0	2.0	-0.2	0.8	NA		ND
		07/07/78		07/07/78						
IL:MORRIS	NS									
KS:TOPEKA	202.2	7.4	1.4	<2.0	2.0	0.4	0.5	NA		ND
		07/07/78		07/07/78						
LA:NEW ORLEANS	217.2	4.0	1.2	<2.0	2.0	0.4	0.7	NA		ND
		07/07/78		07/07/78						



TABLE 10 (CONTINUED)

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA DATE CTD. pCi/l ± e		GROSS ALPHA DATE CTD. pCi/l ± e		<sup>90</sup> Sr pCi/l ± e		<sup>226</sup> Ra pCi/l ± e		SPECIFIC GAMMA ACTIVITY
MA: LAWRENCE	104.8	2.4	1.0	<2.0	2.0	0.4	0.9	NA		ND
		07/10/78		07/10/78						
MA: ROWE	54.8	1.0	0.9	<2.0	2.0	0.0	0.1	NA		ND
		07/10/78		07/10/78						
MD: BALTIMORE	131.0	2.3	1.1	<2.0	2.0	0.0	0.1	NA		ND
		07/11/78		07/10/78						
MD: CONOWINGO	241.0	2.3	0.9	<2.0	2.0	0.2	0.4	NA		ND
		07/11/78		07/10/78						
ME: AUGUSTA	63.6	1.3	1.1	<2.0	2.0	0.7	1.0	NA		ND
		07/11/78		07/10/78						
MI: DETROIT	147.8	2.5	1.0	<2.0	2.0	1.0	0.6	NA		ND
		07/11/78		07/10/78						
MI: GRAND RAPIDS	172.6	1.5	1.0	<2.0	2.0	1.4	1.0	NA		ND
		07/10/78		07/10/78						
MN: MINNEAPOLIS	139.8	2.4	1.1	<2.0	2.0	0.3	0.3	NA		ND
		07/10/78		07/10/78						
MN: RED WING	338.2	14.0	2.0	2.7	2.0	0.1	0.3	4.2	0.1	ND
		07/12/78		07/12/78						
MO: JEFFERSON CITY	225.2	5.6	1.3	<2.0	2.0	0.3	0.5	NA		ND
		07/12/78		07/12/78						
MS: JACKSON	102.2	2.0	0.9	<2.0	2.0	1.1	1.1	NA		ND
		07/12/78		07/12/78						
MT: HELENA	72.4	1.2	0.9	<2.0	2.0	0.4	0.7	NA		ND
		07/12/78		07/12/78						
NC: CHARLOTTE	52.8	<1.0	1.0	<2.0	2.0	0.3	0.6	NA		ND
		07/12/78		07/12/78						
NC: WILMINGTON	122.4	2.6	1.1	<2.0	2.0	0.4	0.9	NA		ND
		07/12/78		07/12/78						
ND: BISMARCK	317.2	3.2	1.2	<2.0	2.0	0.6	1.3	NA		ND
		07/12/78		07/12/78						

TABLE 10 (CONTINUED)

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA		GROSS ALPHA		<sup>90</sup> Sr		<sup>226</sup> Ra		SPECIFIC GAMMA ACTIVITY
		DATE CTD. pCi/l ± e	DATE CTD. pCi/l ± e	DATE CTD. pCi/l ± e	DATE CTD. pCi/l ± e	DATE CTD. pCi/l ± e	DATE CTD. pCi/l ± e	DATE CTD. pCi/l ± e		
NE:LINCOLN	303.4	7.5 1.4 07/12/78	<2.0 2.0 07/12/78	0.4 0.6	NA	ND				
NH:CONCORD	68.8	1.2 0.9 07/18/78	<2.0 2.0 07/18/78	0.3 0.8	NA	ND				
NJ:TRENTON	135.4	1.9 1.0 07/18/78	<2.0 2.0 07/18/78	0.2 0.2	NA	ND				
NJ:WARETOWN	95.8	1.2 1.0 07/18/78	<2.0 2.0 07/18/78	0.1 0.3	NA	ND				
NM:SANTA FE	58.8	<1.0 1.0 07/18/78	<2.0 2.0 07/18/78	-1.7 7.3	NA	ND				
NV:LAS VEGAS	667.8	5.4 1.4 07/18/78	<2.0 2.0 07/18/78	0.8 0.8	NA	ND				
VT:ALBANY	85.8	1.0 0.9 07/18/78	<2.0 2.0 07/18/78	0.4 0.4	NA	ND				
NY:NEW YORK	56.2	1.4 0.8 07/18/78	<2.0 2.0 07/18/78	0.1 0.1	NA	ND				
NY:NIAGARA FALLS	186.0	2.8 1.3 07/18/78	<2.0 2.0 07/18/78	0.9 0.5	NA	ND				
NY:SYRACUSE	130.4	3.1 1.0 07/21/78	<2.0 2.0 07/21/78	0.5 0.4	NA	ND				
OH:CINCINNATI	286.2	4.7 1.3 07/21/78	<2.0 2.0 07/21/78	0.5 0.5	NA	ND				
OH:COLUMBUS	300.4	3.8 1.1 07/21/78	<2.0 2.0 07/21/78	0.3 0.4	NA	ND				
OH:EAST LIVERPOOL	204.8	3.8 1.1 07/21/78	<2.0 2.0 07/21/78	0.5 0.6	NA	ND				
OH:PAINESVILLE	194.4	6.1 1.3 07/21/78	<2.0 2.0 07/21/78	0.7 0.5	NA	ND				
OH:TOLEDO	136.0	5.9 1.2 07/21/78	<2.0 2.0 07/21/78	0.5 0.6	NA	ND				

TABLE 10 (CONTINUED)

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA		GROSS ALPHA		$^{90}\text{Sr}$		$^{226}\text{Ra}$	SPECIFIC GAMMA ACTIVITY
		DATE CTD.	DATE CTD.	DATE CTD.	DATE CTD.	pCi/l $\pm$ e	pCi/l $\pm$ e	pCi/l $\pm$ e	
:OKLAHOMA CITY	411.6	7.4	1.5	<2.0	2.0	0.6	0.5	NA	ND
		07/21/78		07/21/78					
:PORTLAND	23.4	1.7	0.8	<2.0	2.0	-0.3	0.6	NA	ND
		07/21/78		07/21/78					
:COLUMBIA	207.2	2.6	1.2	<2.0	2.0	0.2	0.5	NA	ND
		07/31/78		07/31/78					
:HARRISBURG	42.4	1.2	1.0	<2.0	2.0	0.3	0.7	NA	ND
		07/31/78		07/31/78					
:PITTSBURGH	240.0	3.9	1.2	<2.0	2.0	0.6	0.6	NA	ND
		07/31/78		07/31/78					
:SAN JUAN	243.4	2.9	1.2	<2.0	2.0	0.1	0.2	NA	ND
		07/31/78		07/31/78					
:PROVIDENCE	67.2	<1.0	1.0	<2.0	2.0	0.2	0.3	NA	ND
		07/31/78		07/31/78					
:ANDERSON	63.6	1.6	0.9	<2.0	2.0	0.1	0.6	NA	ND
		07/31/78		07/31/78					
:COLUMBIA	73.0	2.2	1.0	<2.0	2.0	0.0	0.0	NA	ND
		07/31/78		07/31/78					
:HARTSVILLE	57.2	<1.0	1.0	<2.0	2.0	0.2	0.9	NA	ND
		07/31/78		07/31/78					
:SENECA	30.0	1.5	1.0	<2.0	2.0	0.3	0.4	NA	ND
		08/07/78		08/07/78					
:CHATTANOOGA	98.2	2.6	1.2	<2.0	2.0	0.4	0.9	NA	ND
		08/07/78		08/07/78					
:KNOXVILLE	105.4	1.5	0.9	<2.0	2.0	0.4	1.0	NA	ND
		08/07/78		08/07/78					
:AUSTIN	201.4	3.2	1.2	<2.0	2.0	0.2	0.8	NA	ND
		08/07/78		08/07/78					
:WELL	149.4	4.7	1.3	<2.0	2.0	-0.1	0.3	NA	ND
		08/07/78		08/07/78					

ENVIRONMENTAL

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DATA

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October 1979

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Office of Radiation Programs



TABLE 10  
DRINKING WATER  
ALPHA, BETA AND GAMMA CONCENTRATION

JANUARY 1978 - DECEMBER 1978

ANNUAL ANALYSES

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA DATE CTD. pCi/l $\pm$ e		GROSS ALPHA DATE CTD. pCi/l $\pm$ e		<sup>90</sup> Sr pCi/l $\pm$ e		<sup>226</sup> Ra pCi/l $\pm$ e		SPECIFIC GAMMA ACTIVITY
AK: ANCHORAGE	74.2	<1.0	1.0	<2.0	2.0	0.0	0.1	NA		ND
		3/27/79		3/27/79						
AK: FAIRBANKS	153.0	2.8	1.1	<2.0	2.0	0.0	0.1	NA		ND
		3/27/79		3/27/79						
AL: DOTHAN	154.6	3.1	1.1	<2.0	2.0	0.0	0.1	NA		ND
		3/27/79		3/27/79						
AL: MONTGOMERY	62.2	2.1	1.0	<2.0	2.0	0.4	0.4	NA		ND
		3/27/79		3/27/79						
AL: MUSCLE SHOALS	115.8	1.9	1.0	<2.0	2.0	0.5	0.5	NA		ND
		3/27/79		3/27/79						
AR: LITTLE ROCK	41.2	1.5	0.9	<2.0	2.0	0.2	0.1	NA		ND
		3/27/79		3/27/79						
CA: BERKELEY	90.8	1.0	0.9	<2.0	2.0	0.1	0.2	NA		ND
		3/27/79		3/27/79						
CA: LOS ANGELES	100.4	4.1	1.9	<2.0	2.0	0.0	0.1	NA		ND
		3/27/79		3/27/79						
CO: DENVER	122.2	4.3	1.3	<2.0	2.0	0.1	0.1	NA		ND
		3/27/79		3/27/79						
CO: PLATTEVILLE	731.6	3.6	1.4	<2.0	2.0	0.4	0.8	NA		ND
		3/28/79		3/28/79						
CT: HARTFORD	33.4	0.8	0.8	<2.0	2.0	0.5	0.5	NA		ND
		3/28/79		3/28/79						
CZ: ANCON	80.6	<1.0	1.0	<2.0	2.0	0.2	0.9	NA		ND
		3/28/79		3/28/79						
DC: WASHINGTON	135.8	2.3	1.0	<2.0	2.0	0.5	0.5	NA		ND
		3/28/79		3/28/79						
DE: WILMINGTON	129.2	2.6	1.0	<2.0	2.0	0.2	0.3	NA		ND
		3/29/79		3/28/79						

LOCATION  
PL: BIAPI

DRINKING WATER: ALPHA, BETA AND GAMMA CONCENTRATION  
 JANUARY 1978 - DECEMBER 1978 (CONTINUED)

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA DATE CTD. pCi/l + e	GROSS ALPHA DATE CTD. pCi/l + e	<sup>90</sup> Sr pCi/l + e	<sup>226</sup> Ra pCi/l + e	SPECIFIC GAMMA ACTIVITY
FL:MIAMI	248.2	1.5 1.0 3/29/79	<2.0 2.0 3/28/79	0.1 0.4	NA	ND
FL:TAMPA	220.6	5.6 1.8 3/29/79	<2.0 2.0 3/28/79	0.5 0.6	NA	ND
GA:BAXLEY	183.6	2.8 1.1 3/29/79	<2.0 2.0 3/28/79	-0.1 0.1	NA	ND
GA:SAVANNAH	83.0	1.5 0.9 3/29/79	<2.0 2.0 3/29/79	0.7 0.5	NA	ND
HI:HONOLULU	213.0	1.7 1.2 3/29/79	<2.0 2.0 3/29/79	-0.3 1.2	NA	ND
IA:CEDAR RAPIDS	169.6	1.8 1.2 3/29/79	<2.0 2.0 3/29/79	0.1 0.4	NA	ND
ID:BOISE	78.2	2.0 1.7 3/29/79	<2.0 2.0 3/29/79	0.2 0.7	NA	ND
ID:IDAHO FALLS	234.4	3.2 1.1 3/30/79	<2.0 2.0 3/29/79	-0.1 0.3	NA	ND
IL:CHICAGO	595.8	9.0 2.2 3/30/79	<2.0 2.0 3/29/79	0.0 0.1	NA	ND
IL:NORRIS	321.8	21.3 2.1 3/30/79	<2.0 2.0 3/29/79	-0.1 0.2	NA	ND
KS:TOPEKA	272.4	8.1 1.5 3/30/79	<2.0 2.0 3/30/79	0.2 0.6	NA	ND
LA:NEW ORLEANS	192.6	4.6 1.2 3/30/79	<2.0 2.0 3/30/79	0.2 0.3	NA	ND
MA:LAWRENCE	97.4	3.0 1.1 3/30/79	<2.0 2.0 3/30/79	0.4 0.4	NA	ND
MA:ROWE	48.4	<1.0 1.0 3/30/79	<2.0 2.0 3/30/79	-0.2 0.6	NA	ND
MD:BALTIMORE	69.6	1.6 0.9 3/30/79	<2.0 2.0 3/30/79	0.2 0.3	NA	ND
MO:SPRINGFIELD	298.8	2.1 1.1 3/30/79	<2.0 2.0 3/30/79	0.3 0.7	NA	ND

DRINKING WATER: ALPHA, BETA AND GAMMA CONCENTRATION  
 JANUARY 1978 - DECEMBER 1978 (CONTINUED)

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA DATE CTD. pCi/l ± e	GROSS ALPHA DATE CTD. pCi/l ± e	<sup>90</sup> Sr pCi/l ± e	<sup>226</sup> Ra pCi/l ± e	SPECIFIC GAMMA ACTIVITY	LOCATION
ME:AUGUSTA	150.4	1.9 1.2 3/30/79	<2.0 2.0 3/30/79	0.3 0.2	NA		ME
MI:DETROIT	383.2	3.5 1.3 3/30/79	<2.0 2.0 3/30/79	0.9 0.4	NA		MI
MI:GRAND RAPIDS	168.6	2.7 1.0 3/30/79	<2.0 2.0 3/30/79	0.8 0.5	NA		MI
MN:MINNEAPOLIS	210.4	4.5 1.2 4/ 3/79	<2.0 2.0 4/ 2/79	0.5 0.3	NA		MN
MN:RED WING	285.4	12.1 1.8 4/ 3/79	<2.0 2.0 4/ 2/79	0.4 0.4	NA		MN
MO:JEFFERSON CITY	287.4	6.4 1.4 4/ 3/79	<2.0 2.0 4/ 2/79	0.1 0.3	NA		MO
MS:JACKSON	112.2	2.8 1.1 4/ 3/79	<2.0 2.0 4/ 2/79	0.8 0.7	NA		MS
MT:HELENA	63.2	1.6 0.8 4/ 2/79	<2.0 2.0 4/ 2/79	0.2 0.4	NA		MT
NC:CHARLOTTE	75.6	2.6 1.1 4/ 2/79	<2.0 2.0 4/ 2/79	0.4 0.9	NA		NC
NC:WILMINGTON	94.6	3.2 1.2 4/ 2/79	<2.0 2.0 4/ 2/79	0.6 0.4	NA		NC
ND:BISMARCK	366.6	3.9 1.3 4/ 2/79	<2.0 2.0 4/ 2/79	0.1 0.1	NA		ND
NE:LINCOLN	236.8	11.1 1.7 4/ 3/79	<2.0 2.0 4/ 3/79	0.5 0.4	NA		NE
NH:CONCORD	62.0	1.9 1.1 4/ 3/79	<2.0 2.0 4/ 3/79	0.4 0.4	NA		NH
NJ:TRENTON	118.8	2.3 1.0 4/ 3/79	<2.0 2.0 4/ 3/79	-0.2 0.3	NA		NJ
OH:COLUMBUS	86.0	3.3 1.0 4/ 3/79	<2.0 2.0 4/ 3/79	0.0 0.1	NA		OH
RI:SACATA RIVER	184.6	2.5 1.2 4/ 3/79	<2.0 2.0 4/ 3/79	-14.8 41.7	NA		RI

NV:LAS VEGAS

DRINKING WATER: ALPHA, BETA AND GAMMA CONCENTRATION  
 JANUARY 1978 - DECEMBER 1978 (CONTINUED)

SPECIAL  
 GAMMA  
 ACTIVITY

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA DATE CTD. pCi/l ± e	GROSS ALPHA DATE CTD. pCi/l ± e	<sup>90</sup> Sr pCi/l ± e	<sup>226</sup> Ra pCi/l ± e	SPECIFIC GAMMA ACTIVITY
NV:LAS VEGAS	655.2	5.1 1.4 4/ 4/79	<2.0 2.0 4/ 3/79	0.0 0.1	NA	ND
NY:ALBANY	75.8	1.1 0.8 4/ 4/79	<2.0 2.0 4/ 3/79	0.6 0.9	NA	ND
NY:NEW YORK CITY	57.4	1.7 1.0 4/ 4/79	<2.0 2.0 4/ 3/79	0.2 0.2	NA	ND
NY:NIAGARA FALLS	186.6	2.3 1.0 4/ 4/79	<2.0 2.0 4/ 4/79	1.1 0.5	NA	ND
NY:SYRACUSE	113.8	1.5 1.1 4/ 4/79	<2.0 2.0 4/ 4/79	0.7 0.5	NA	ND
OH:CINCINNATI	217.2	3.4 1.2 4/ 4/79	<2.0 2.0 4/ 4/79	0.6 0.4	NA	ND
OH:COLUMBUS	278.8	3.4 1.1 4/ 4/79	<2.0 2.0 4/ 4/79	0.3 0.4	NA	ND
OH:EAST LIVERPOOL	238.8	1.6 0.9 4/ 4/79	<2.0 2.0 4/ 4/79	0.4 0.3	NA	ND
OH:PAINESVILLE	189.8	3.1 1.2 4/ 4/79	<2.0 2.0 4/ 4/79	0.4 0.2	NA	ND
OH:TOLEDO	154.6	2.6 1.1 4/ 4/79	<2.0 2.0 4/ 4/79	0.5 0.3	NA	ND
OK:OKLAHOMA CITY	458.8	9.3 2.4 4/ 4/79	<2.0 2.0 4/ 4/79	0.2 0.1	NA	ND
OR:PORTLAND	31.2	<1.0 1.0 4/ 5/79	<2.0 2.0 4/ 5/79	0.2 0.5	NA	ND
PA:COLUMBIA	180.4	2.6 1.1 4/ 5/79	<2.0 2.0 4/ 5/79	0.2 0.2	NA	ND
PA:HARTISBURG	42.2	1.1 0.9 4/ 5/79	<2.0 2.0 4/ 5/79	0.3 0.2	NA	ND
PA:LEWISBURGH	245.8	3.0 1.1 4/ 5/79	<2.0 2.0 4/ 5/79	0.4 0.5	NA	ND
PR:SAN JUAN	210.4	2.8 1.0 4/ 5/79	<2.0 2.0 4/ 5/79	0.1 0.1	NA	ND



United States  
Environmental Protection  
Agency

Office of  
Radiation Programs  
Washington DC 20460

EPA 520/5-82-011  
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Radiation

# Environmental Radiation Data Report 23-24

(July - December 1980)

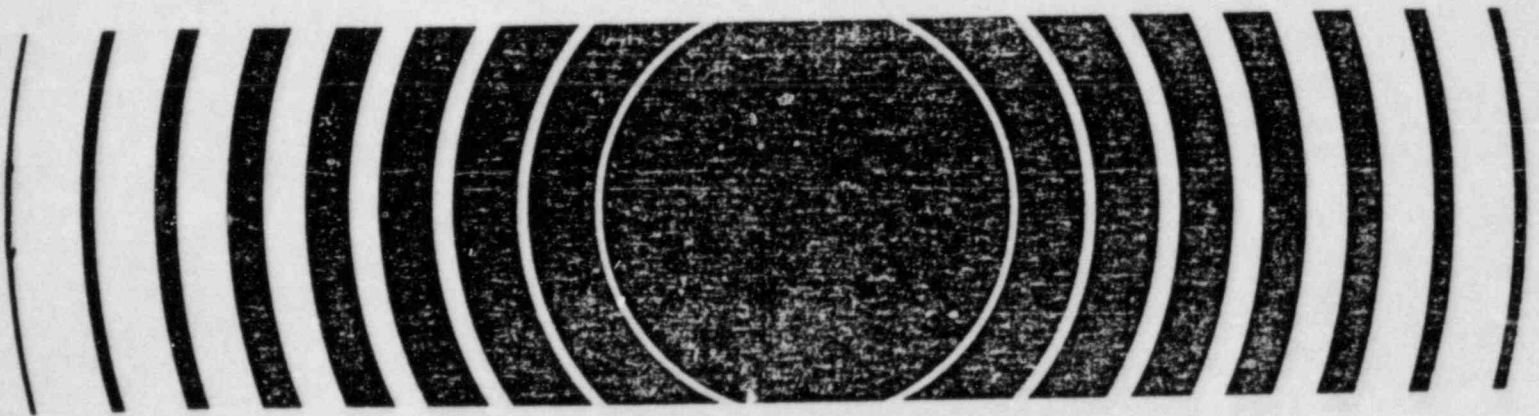


TABLE 16  
DRINKING WATER  
ALPHA, BETA AND GAMMA CONCENTRATION

1979

ANNUAL ANALYSES

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA DATE CTD. pCi/l $\pm$ e		GROSS ALPHA DATE CTD. pCi/l $\pm$ e		<sup>90</sup> Sr pCi/l $\pm$ e		<sup>226</sup> Ra pCi/l $\pm$ e		SPECIFIC GAMMA ACTIVITY
AK: ANCHORAGE	69.4	0.1	0.3	0.2	0.5	1.0	0.4	NA		ND
		4/23/80		4/23/80						
AK: FAIRBANKS	159.6	4.3	0.9	4.1	1.6	0.2	0.4	NA		ND
		4/23/80		4/23/80						
AL: DOTHAN	152.4	1.8	1.0	0.1	0.8	0.0	0.1	NA		ND
		4/23/80		4/23/80						
AL: MONTGOMERY	56.6	1.0	0.8	<2.0	2.0	0.5	0.7	NA		ND
		4/23/80		4/23/80						
AL: MUSCLE SHOALS	87.6	1.1	0.7	0.5	0.6	0.5	0.6	NA		ND
		4/23/80		4/23/80						
AL: SCOTTSBORO	104.4	2.3	0.9	<2.0	2.0	0.4	0.4	NA		ND
		4/23/80		4/23/80						
AR: LITTLE ROCK	38.2	1.0	0.7	0.3	0.4	0.7	0.5	NA		ND
		5/13/80		5/13/80						
CA: BERKELEY	43.8	0.9	0.7	0.1	0.4	0.2	0.2	NA		ND
		5/13/80		5/13/80						
CA: LOS ANGELES	341.2	4.6	1.3	0.5	0.5	0.2	0.4	NA		ND
		5/13/80		5/13/80						
CO: DENVER	53.0	0.5	0.6	0.5	0.5	0.1	0.1	NA		ND
		5/13/80		5/13/80						
CO: PLATTEVILLE	790.0	10.3	1.8	2.0	1.8	0.1	0.1	NA		ND
		5/13/80		5/13/80						
CT: HARTFORD	31.0	1.2	0.8	0.2	0.4	0.5	0.4	NA		ND
		5/13/80		5/13/80						
DC: WASHINGTON	138.2	1.6	1.0	1.8	2.1	0.3	0.3	NA		ND
		5/15/80		5/15/80						
DE: WILMINGTON	100.0	1.4	0.8	0.1	0.6	0.5	0.4	NA		ND
		5/15/80		5/15/80						

TABLE 16 (CONTINUED)

1979

## ANNUAL ANALYSES

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA DATE CTD.		GROSS ALPHA DATE CTD.		<sup>90</sup> Sr pCi/l ± e		<sup>226</sup> Ra pCi/l ± e		SPECIFIC GAMMA ACTIVITY
		pCi/l ± e	pCi/l ± e	pCi/l ± e	pCi/l ± e	pCi/l ± e	pCi/l ± e			
FL:MIAMI	230.0	1.8	1.9	0.1	0.8	0.1	0.1	NA	ND	
		5/15/80		5/15/80						
FL:TAMPA	226.6	2.7	1.1	0.4	0.9	0.5	0.3	NA	ND	
		5/15/80		5/15/80						
GA:BAXLEY	135.6	0.7	0.5	1.8	1.2	0.1	0.5	NA	ND	
		5/15/80		5/15/80						
GA:SAVANNAH	73.4	1.7	0.9	0.1	0.4	0.6	0.4	NA	ND	
		5/21/80		5/21/80						
HI:HONOLULU	190.0	1.6	0.9	<2.0	2.0	0.0	1.6	NA	ND	
		5/22/80		5/21/80						
IA:CEDAR RAPIDS	141.2	1.1	0.9	<2.0	2.0	0.1	0.2	NA	ND	
		5/22/80		5/21/80						
ID:BOISE	61.2	1.9	0.9	0.2	0.2	0.2	0.4	NA	ND	
		5/22/80		5/21/80						
ID:IDAHO FALLS	217.6	3.4	1.1	0.6	0.9	0.0	0.1	NA	ND	
		5/22/80		5/21/80						
IL:CHICAGO	176.8	25.2	2.3	<2.0	2.0	-0.2	0.5	NA	ND	
		5/22/80		5/21/80						
IL:MORRIS	277.4	18.2	1.8	12.8	4.7	0.0	0.1	NA	ND	
		7/ 8/80		7/ 8/80						
KS:TOPEKA	391.6	8.5	1.5	1.2	1.5	0.3	0.3	NA	ND	
		7/ 8/80		7/ 8/80						
LA:NEW ORLEANS	156.8	2.2	1.0	0.7	1.0	0.3	0.3	NA	ND	
		7/ 8/80		7/ 8/80						
MA:LAWRENCE	74.6	0.7	0.7	0.3	0.5	0.2	0.8	NA	ND	
		7/ 8/80		7/ 8/80						
MA:ROWE	45.0	0.1	0.4	0.2	0.5	0.3	0.4	NA	ND	
		7/ 8/80		7/ 8/80						
MD:BALTIMORE	89.2	0.1	0.4	<2.0	2.0	0.3	0.4	NA	ND	
		7/ 8/80		7/ 8/80						

TABLE 16 (CONTINUED)

1979

## ANNUAL ANALYSES

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA		GROSS ALPHA		$^{90}\text{Sr}$		$^{226}\text{Ra}$	SPECIFIC GAMMA ACTIVITY
		DATE CTD.	DATE CTD.	DATE CTD.	DATE CTD.	pCi/l $\pm$ e	pCi/l $\pm$ e	pCi/l $\pm$ e	
NH:CONCORD	44.0	0.5	0.5	0.0	0.4	0.4	0.6	NA	ND
		7/18/80	7/18/80	7/18/80	7/18/80				
NJ:TRENTON	111.8	0.5	0.6	0.3	0.6	0.4	0.6	NA	ND
		7/18/80	7/18/80	7/18/80	7/18/80				
NJ:WARETOWN	5309.4	40.5	5.3	1.3	26.0	0.1	0.3	NA	ND
		7/21/80	7/21/80	7/21/80	7/21/80				
NM:SANTA FE	131.8	2.1	0.4	12.0	2.4	0.1	0.1	NA	ND
		7/ 7/80	7/ 7/80	7/ 8/80	7/ 8/80				
NV:LAS VEGAS	657.2	6.5	1.5	1.1	1.1	0.9	0.4	NA	ND
		7/21/80	7/21/80	7/21/80	7/21/80				
NY:ALBANY	68.2	0.7	0.7	0.2	0.5	0.4	0.4	NA	ND
		7/21/80	7/21/80	7/21/80	7/21/80				
NY:NEW YORK CITY	49.2	0.8	0.7	<2.0	2.0	0.4	0.4	NA	ND
		7/18/80	7/18/80	7/18/80	7/18/80				
NY:NIAGARA FALLS	80.4	1.1	1.1	<2.0	2.0	1.1	0.7	NA	ND
		7/18/80	7/18/80	7/18/80	7/18/80				
NY:SYRACUSE	80.4	2.0	0.9	0.2	0.5	0.5	0.2	NA	ND
		7/14/80	7/14/80	7/14/80	7/14/80				
OH:CINCINNATI	92.8	3.0	1.0	<2.0	2.0	0.3	0.4	NA	ND
		7/21/80	7/21/80	7/21/80	7/21/80				
OH:COLUMBUS	203.0	2.8	1.0	<2.0	2.0	0.1	0.1	NA	ND
		7/18/80	7/18/80	7/18/80	7/18/80				
OH:EAST LIVERPOOL	111.6	1.9	0.9	<2.0	2.0	0.4	0.3	NA	ND
		7/21/80	7/21/80	7/21/80	7/21/80				
OH:PAINESVILLE	192.8	3.0	1.1	<2.0	2.0	1.0	0.4	NA	ND
		7/25/80	7/25/80	7/25/80	7/25/80				
OH:TOLEDO	51.9	1.0	1.0	<2.0	2.0	0.6	0.5	NA	ND
		7/18/80	7/18/80	7/18/80	7/18/80				



TABLE 16 (CONTINUED)

1979

## ANNUAL ANALYSES

IC TY LOCATION	TOTAL SOLIDS mg/l	GROSS BETA DATE CTD.		GROSS ALPHA DATE CTD.		$^{90}\text{Sr}$ pCi/l $\pm$ e		$^{226}\text{Ra}$ pCi/l $\pm$ e		SPECIFIC GAMMA ACTIVITY
		pCi/l $\pm$ e		pCi/l $\pm$ e						
OK:OKLAHOMA CITY	234.0	5.5	1.3	<2.0	2.0	0.9	0.4	NA		ND
		7/18/80		7/18/80						
OR:PORTLAND	21.2	0.7	0.7	0.1	0.2	0.1	0.1	NA		ND
		7/ 7/80		7/ 7/80						
PA:COLUMBIA	177.6	1.6	1.1	<2.0	2.0	0.5	0.4	NA		ND
		7/25/80		7/25/80						
PA:HARRISBURG	35.2	0.6	0.8	<2.0	2.0	0.4	0.4	NA		ND
		7/21/80		7/21/80						
PA:PITTSBURGH	104.4	1.0	0.9	<2.0	2.0	0.1	0.1	NA		ND
		7/25/80		7/25/80						
PC:ANCON	80.2	0.9	0.8	0.2	0.4	0.3	0.7	NA		ND
		5/15/80		5/15/80						
PR:SAN JUAN	104.4	IS		IS		0.1	0.3	NA		ND
		7/25/80		7/25/80						
RI:PROVIDENCE	54.2	0.5	0.6	<2.0	2.0	0.2	0.2	NA		ND
		7/25/80		7/25/80						
SC:BARNWELL	22.0	0.6	0.7	0.1	0.2	0.0	1.4	NA		ND
		7/ 7/80		7/ 8/80						
SC:COLUMBIA	43.2	2.1	0.9	<2.0	2.0	0.2	0.2	NA		ND
		7/21/80		7/21/80						
SC:HARTSVILLE	23.4	1.0	0.7	<2.0	2.0	0.2	0.3	NA		ND
		7/25/80		7/25/80						
SC:JENKINSVILLE	102.0	1.7	0.9	0.4	0.5	0.7	1.0	NA		ND
		7/21/80		7/21/80						
SC:SENECA	29.2	0.7	0.9	0.1	0.3	0.2	0.3	NA		ND
		7/21/80		7/21/80						
TN:CHATTANOOGA	89.0	1.9	0.9	<2.0	2.0	0.1	0.2	NA		ND
		7/14/80		7/14/80						



Radiation

# Environmental Radiation Data Report 25-26

(January - June 1981)

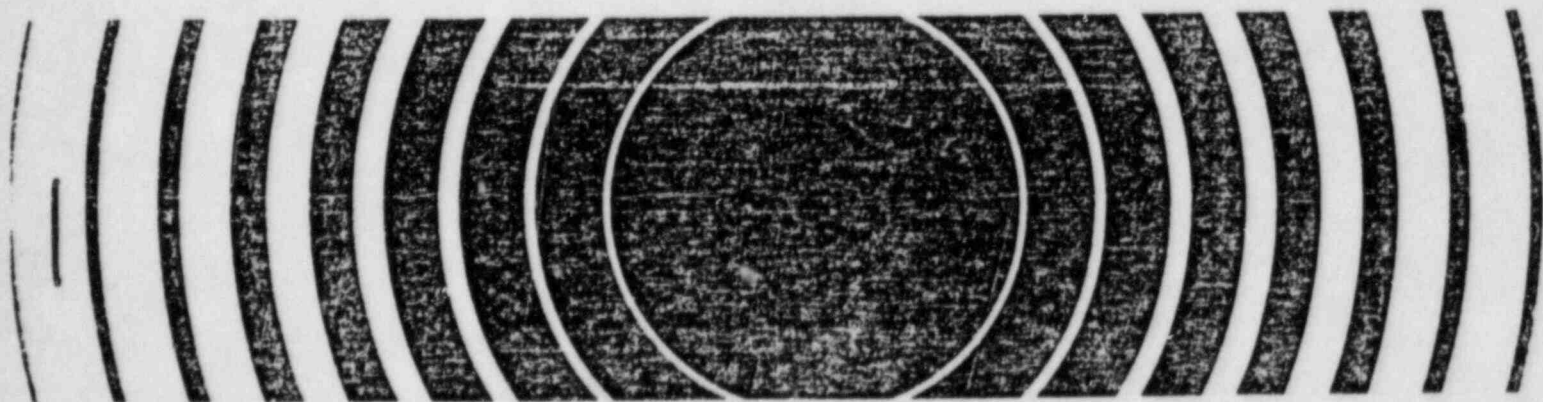


TABLE 23  
 DRINKING WATER  
 ALPHA, BETA AND GAMMA CONCENTRATION

JANUARY - DECEMBER 1980

ANNUAL ANALYSES

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA DATE CTD. pCi/l $\pm$ e	GROSS ALPHA DATE CTD. pCi/l $\pm$ e	<sup>90</sup> Sr pCi/l $\pm$ e	<sup>226</sup> Ra pCi/l $\pm$ e	SPECIFIC GAMMA ACTIVITY	
AK: ANCHORAGE	79.2	2.0 0.7 2/ 2/81	0.1 0.3 2/ 2/81	-0.1 0.1	NA	ND	
AK: FAIRBANKS	128.8	2.0 0.6 2/ 2/81	0.0 2/ 2/81	0.1 0.4	NA	ND	
AL: DOTHAN	149.0	2.0 0.8 2/ 2/81	0.0 2/ 2/81	0.2 0.5	NA	ND	
AL: MONTGOMERY	64.4	0.6 0.6 2/ 2/81	0.0 2/ 2/81	0.3 0.8	NA	ND	
AL: MUSCLE SHOALS	94.6	2.0 0.7 2/ 2/81	0.0 2/ 2/81	0.2 0.3	NA	ND	
AL: SCOTTSBORO	97.8	1.0 0.5 2/ 6/81	0.0 2/ 6/81	0.3 0.3	NA	ND	
AR: LITTLE ROCK	41.6	1.0 0.4 2/ 6/81	0.0 2/ 6/81	0.2 0.1	NA	ND	
CA: BERKELEY	41.4	0.7 0.6 2/ 6/81	0.0 2/ 6/81	0.0 0.1	NA	ND	
CA: LOS ANGELES	258.8	4.0 0.8 2/10/81	4.0 1.1 2/10/81	0.0 0.2	0.1 0.02	ND	
CO: DENVER	108.2	3.0 0.6 2/10/81	4.0 1.0 2/10/81	0.0 0.1	0.2 0.02	ND	
CO: PLATTEVILLE	703.0	9.0 1.1 2/10/81	4.0 1.4 2/10/81	0.4 0.5	0.3 0.02	ND	
CT: HARTFORD	41.0	0.7 0.6 2/10/81	0.0 2/10/81	0.1 0.1	NA	ND	
DC: WASHINGTON	106.2	2.0 0.7 2/10/81	0.1 0.3 2/10/81	0.1 0.1	NA	ND	
DE: WILMINGTON	127.8	2.0 0.7 2/10/81	0.0 2/10/81	0.2 0.4	NA	ND	

TABLE 23 (CONTINUED)

DRINKING WATER  
ALPHA, BETA AND GAMMA CONCENTRATION

JANUARY - DECEMBER 1980

## ANNUAL ANALYSES

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA DATE CTD. pCi/l $\pm$ e		GROSS ALPHA DATE CTD. pCi/l $\pm$ e		<sup>90</sup> Sr pCi/l $\pm$ e		<sup>226</sup> Ra pCi/l $\pm$ e		SPECIFIC GAMMA ACTIVITY
MD: BALTIMORE	62.8	2.0	0.7	0.0		0.1	0.2	NA		ND
		3/20/81		3/20/81						
MD: CONOWINGO	170.0	3.0	0.9	0.0		0.3	0.3	NA		ND
		3/20/81		3/20/81						
ME: AUGUSTA	69.6	2.0	0.5	0.7	0.4	0.5	1.0	NA		ND
		3/20/81		3/20/81						
MI: DETROIT	87.4	2.0	0.7	0.2	0.3	0.5	0.3	NA		ND
		3/20/81		3/20/81						
MI: GRAND RAPIDS	115.4	2.0	0.6	0.0		0.7	0.4	NA		ND
		3/20/81		3/20/81						
MN: MINNEAPOLIS	115.2	2.0	0.5	0.9	0.5	0.4	0.4	NA		ND
		3/20/81		3/20/81						
MN: RED WING	197.6	6.0	0.8	5.0	1.3	0.1	0.4	3.0	0.09	ND
		3/24/81		3/24/81						
MO: JEFFERSON CITY	240.0	2.0	0.5	2.0	1.1	0.0	0.2	1.0	0.03	ND
		3/24/81		3/24/81						
MS: JACKSON	195.6	2.0	0.5	0.9	0.7	0.4	0.4	NA		ND
		3/24/81		3/24/81						
MS: PORT GIBSON	275.0	2.0	0.6	1.0	0.6	0.1	0.2	NA		ND
		3/24/81		3/24/81						
MT: HELENA	117.8	4.0	0.8	1.0	0.6	0.2	0.7	NA		ND
		3/24/81		3/24/81						
NC: CHARLOTTE	46.6	1.0	0.4	0.0		0.3	0.4	NA		ND
		3/24/81		3/24/81						
NC: WILMINGTON	84.4	2.0	0.9	0.0		0.5	0.4	NA		ND
		3/24/81		3/24/81						
ND: BISMARCK	403.2	5.0	1.0	0.3	0.6	0.3	0.3	NA		ND
		4/ 3/81		4/ 3/81						



TABLE 23 (CONTINUED)

DRINKING WATER  
ALPHA, BETA AND GAMMA CONCENTRATION

JANUARY - DECEMBER 1980

ANNUAL ANALYSES

LOCATION	TOTAL SOLIDS <sup>a</sup> mg/l	GROSS BETA DATE CTD.		GROSS ALPHA DATE CTD.		<sup>90</sup> Sr pCi/l ± e		<sup>226</sup> Ra pCi/l ± e		SPECIFIC GAMMA ACTIVITY
		pCi/l ± e		pCi/l ± e		pCi/l ± e		pCi/l ± e		
NE:LINCOLN	314.0	9.0	1.0 4/ 3/81	4.0	1.3 4/ 3/81	0.4	0.5	0.3	0.02	ND
NH:CONCORD	60.4	0.2	0.3 3/24/81	0.4	0.3 3/24/81	0.2	0.4	NA		ND
NJ:TRENTON	103.2	1.0	0.5 4/ 3/81	0.1	0.3 4/ 3/81	0.3	0.3	NA		ND
NJ:WARETOWN	*									
NM:SANTA FE	110.8	6.0	0.8 4/ 3/81	5.0	1.0 4/ 3/81	0.0	0.1	0.1	0.02	ND
NV:LAS VEGAS	604.8	8.0	1.2 4/ 3/81	2.0	1.4 4/ 3/81	0.7	0.5	0.2	0.02	ND
NY:ALBANY	59.2	1.0	0.5 4/ 3/81	0.1	0.2 4/ 3/81	0.3	0.6	NA		ND
NY:NEW YORK CITY	46.0	1.0	0.6 4/ 3/81	0.1	0.2 4/ 3/81	0.2	0.3	NA		ND
NY:NIAGARA FALLS	142.2	2.0	0.6 4/ 3/81	0.3	0.5 4/ 3/81	0.8	0.4	NA		ND
NY:SYRACUSE	113.6	2.0	0.7 4/ 6/81	1.0	0.6 4/ 3/81	0.9	0.6	NA		ND
OH:CINCINNATI	176.8	2.0	0.7 4/ 6/81	0.6	0.6 4/ 6/81	0.4	0.4	NA		ND
OH:COLUMBUS	206.2	5.0	1.0 4/ 6/81	0.5	0.6 4/ 6/81	0.4	0.4	NA		ND
OH:EAST LIVERPOOL	220.6	3.0	0.8 4/ 6/81	0.0	 4/ 6/81	0.4	0.3	NA		ND
OH:PAINESVILLE	147.0	2.0	0.6 4/ 6/81	0.0	 4/ 6/81	0.6	0.3	NA		NA

TABLE 23 (CONTINUED)

DRINKING WATER  
ALPHA, BETA AND GAMMA CONCENTRATION

JANUARY - DECEMBER 1980

ANNUAL ANALYSES

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA DATE CTD.		GROSS ALPHA DATE CTD.		<sup>90</sup> Sr pCi/l ± e		<sup>226</sup> Ra pCi/l ± e		SPECIFIC GAMMA ACTIVITY
		pCi/l ± e		pCi/l ± e						
OH:TOLEDO	111.4	2.0	0.7	0.1	0.4	0.3	0.5	NA		ND
		4/	7/81	4/	7/81					
OK:OKLAHOMA CITY	186.0	4.0	0.8	0.0		0.2	0.1	NA		ND
		4/	7/81	4/	7/81					
OR:PORTLAND	20.0	2.0	0.7	0.0		0.3	0.3	NA		ND
		4/	7/81	4/	7/81					
PA:COLUMBIA	173.2	2.0	0.7	0.0		0.3	0.3	NA		ND
		4/	7/81	4/	7/81					
PA:HARRISBURG	28.6	0.5	0.5	0.0		0.2	0.3	NA		ND
		4/	7/81	4/	7/81					
PA:PITTSBURGH	160.8	2.0	0.7	0.1	0.5	0.3	0.3	NA		ND
		4/	7/81	4/	7/81					
PC:ANCON	64.6	0.5	0.6	0.1	0.2	0.0	0.1	NA		ND
		4/	7/81	4/	7/81					
RI:PROVIDENCE	59.0	2.0	0.7	0.3	0.3	0.4	0.4	NA		ND
		4/	7/81	4/	7/81					
SC:BARNWELL	33.8	0.4	0.5	0.1	0.2	0.3	0.4	NA		ND
		4/	8/81	4/	8/81					
SC:COLUMBIA	59.6	2.0	0.7	0.2	0.3	0.1	0.2	NA		ND
		4/	9/81	4/	9/81					
SC:HARTSVILLE	19.8	2.0	0.6	0.2	0.2	0.0	0.1	NA		ND
		4/	8/81	4/	8/81					
SC:JENKINSVILLE	122.2	4.0	0.8	2.0	0.8	0.0	0.1	NA		ND
		4/	8/81	4/	8/81					
SC:SENECA	25.6	0.7	0.6	0.0		0.1	0.1	NA		ND
		4/	8/81	4/	8/81					
TN:CHATTANOOGA	92.2	1.0	0.4	0.2	0.3	0.2	0.3	NA		ND
		4/	8/81	4/	8/81					

United States  
Environmental Protection  
Agency

Office of  
Radiation Programs  
Washington DC 20460

EPA 520/5-5-83-005  
June 1982

Radiation

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# Environmental Radiation Data Report 29

(January - March 1982)

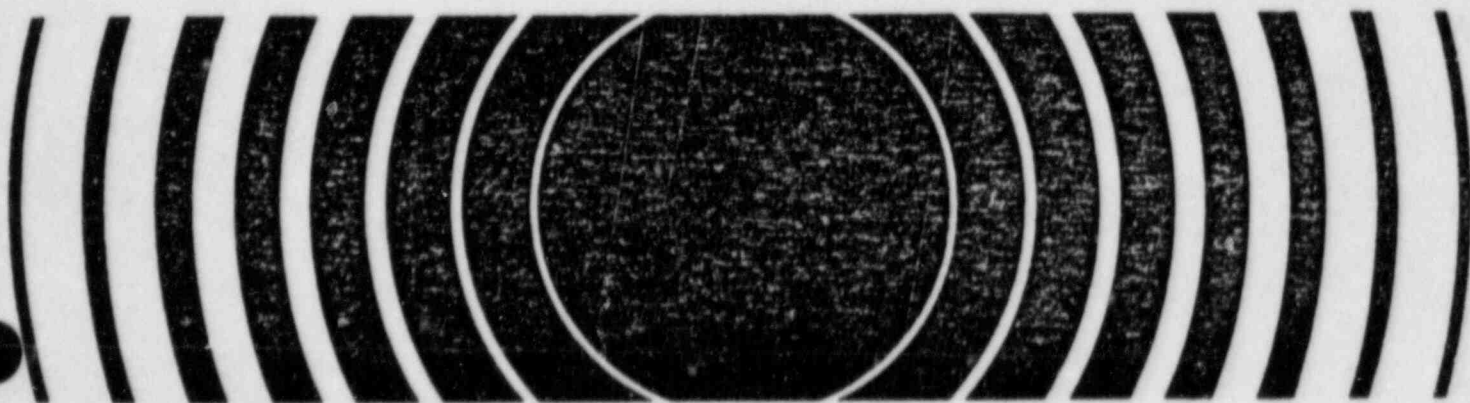


TABLE 13  
 DRINKING WATER  
 ALPHA, BETA AND GAMMA CONCENTRATION  
 1981

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA DATE CTD.		GROSS ALPHA DATE CTD.		<sup>90</sup> Sr pCi/l ± 2s		<sup>226</sup> Ra pCi/l ± 2s		SPECIFIC GAMMA ACTIVITY
		pCi/l ± 2s		pCi/l ± 2s		pCi/l ± 2s		pCi/l ± 2s		
AK:FAIRBANKS	162.0	2.2	1.2	0.0	0.0	0.2	0.5	NA		NA
		2/	4/82	2/	4/82					
AL:DOTHAN	136.2	1.7	0.9	0.5	0.6	0.1	0.2	NA		NA
		2/	4/82	2/	4/82					
AL:MONTGOMERY	58.2	1.0	0.8	0.0	0.2	0.3	0.4	NA		NA
		2/	4/82	2/	4/82					
AL:MUSCLE SHOALS	112.2	1.6	1.0	0.0	0.0	0.3	0.3	NA		NA
		2/	4/82	2/	4/82					
AL:SCOTTSBORO	120.4	1.7	0.9	-0.1	0.3	0.4	0.4	NA		NA
		2/	4/82	2/	4/82					
AR:LITTLE ROCK	26.8	0.6	0.7	0.1	0.2	0.2	0.1	NA		NA
		2/	4/82	2/	4/82					
CA:BERKELEY	37.6	0.5	0.8	-0.2	0.2	-0.1	0.1	NA		NA
		2/	4/82	2/	4/82					
CA:LOS ANGELES	332.0	3.6	2.0	2.7	1.5	0.0	0.1	0.1	0.0	NA
		2/	4/82	2/	4/82					
CO:DENVER	159.6	2.8	0.9	3.7	1.0	0.0	0.0	0.1	0.0	NA
		2/	4/82	2/	4/82					
CO:PLATTEVILLE	740.0	4.7	3.4	4.9	3.1	0.0	0.0	0.3	0.0	NA
		2/	4/82	2/	4/82					
CT:HARTFORD	41.0	1.2	0.8	0.1	0.2	0.4	0.4	NA		NA
		2/	5/82	2/	5/82					
DE:WILMINGTON	131.4	3.2	1.0	-0.2	0.4	0.1	0.1	NA		NA
		2/	5/82	2/	5/82					



TABLE 13 (CONTINUED)

 DRINKING WATER  
 ALPHA, BETA AND GAMMA CONCENTRATION

1981

## ANNUAL ANALYSES

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA DATE CTD.		GROSS ALPHA DATE CTD.		<sup>90</sup> Sr		<sup>226</sup> Ra		SPECIFIC GAMMA ACTIVITY
		pCi/l	+ 2s	pCi/l	+ 2s	pCi/l	+ 2s	pCi/l	+ 2s	
MA:ROWE	38.8	0.4	0.7	0.2	0.2	0.2	0.7	NA	NA	NA
		2/10/82		2/10/82						
MD:BALTIMORE	126.4	2.1	1.0	-0.1	0.5	0.2	0.2	NA	NA	NA
		2/10/82		2/10/82						
MD:CONOWINGO	202.0	1.2	1.3	0.5	0.8	0.1	0.1	NA	NA	NA
		2/10/82		2/10/82						
ME:AUGUSTA	39.6	2.0	0.9	0.3	0.2	0.2	0.2	NA	NA	NA
		2/10/82		2/10/82						
MI:DETROIT	108.2	1.3	0.8	0.2	0.3	0.8	0.6	NA	NA	NA
		2/10/82		2/10/82						
MI:GRAND RAPIDS	147.3	1.6	1.0	0.5	0.5	0.8	0.4	NA	NA	NA
		2/10/82		2/10/82						
MN:MINNEAPOLIS	107.2	2.4	1.0	0.1	0.4	0.3	0.3	NA	NA	NA
		2/10/82		2/10/82						
MN:RED WING *	222.5	5.8	2.1	4.1	1.5	0.0	0.1	3.9	0.1	NA
		2/10/82		2/10/82						
MO:JEFFERSON CITY	293.5	3.2	1.9	3.1	1.5	0.1	0.1	1.3	0.0	NA
		2/10/82		2/10/82						
MS:JACKSON	80.2	2.2	1.0	0.0	0.2	0.2	0.2	NA	NA	NA
		2/10/82		2/10/82						
MS:PORT GIBSON	341.0	2.6	1.9	1.3	1.2	-0.4	0.4	NA	NA	NA
		2/10/82		2/10/82						
MT:HELENA	142.4	2.7	1.0	0.7	0.6	0.1	0.1	NA	NA	NA
		2/10/82		2/10/82						
NC:CHARLOTTE	47.8	1.4	0.9	0.1	0.2	0.1	0.1	NA	NA	NA
		2/10/82		2/10/82						
NC:WILMINGTON	108.0	3.2	1.1	0.0	0.4	-0.1	0.1	NA	NA	NA
		2/17/82		2/17/82						
ND:BISMARCK	358.0	2.8	2.2	0.0	0.0	0.1	0.1	NA	NA	NA
		2/17/82		2/17/82						

TABLE 13 (CONTINUED)

DRINKING WATER  
ALPHA, BETA AND GAMMA CONCENTRATION

1981

## ANNUAL ANALYSES

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA DATE CTD. pCi/l + 2s		GROSS ALPHA DATE CTD. pCi/l + 2s		<sup>90</sup> Sr pCi/l + 2s		<sup>226</sup> Ra pCi/l + 2s		SPECIFIC GAMMA ACTIVITY
NE:LINCOLN	334.0	8.5	2.6	3.4	1.8	0.3	0.3	0.2	0.0	NA
		2/17/82		2/17/82						
NH:CONCORD	70.8	1.1	0.8	0.0	0.3	-0.4	1.4	NA		NA
		2/17/82		2/17/82						
NJ:TRENTON	130.0	1.3	0.9	0.0	0.0	0.1	0.1	NA		NA
		2/17/82		2/17/82						
NJ:WARETOWN	74.6	1.0	0.7	0.6	0.4	-0.1	0.2	NA		NA
		11/ 2/81		11/ 2/81						
NM:SANTA FE	187.0	7.3	1.2	15.3	2.1	-0.4	1.7	0.2	0.0	NA
		2/17/82		2/17/82						
NV:LAS VEGAS	699.0	7.0	4.2	2.3	3.0	0.6	0.4	0.2	0.0	NA
		2/17/82		2/17/82						
NY:ALBANY	80.0	1.7	0.9	-0.2	0.2	0.2	0.4	NA		NA
		2/17/82		2/17/82						
NY:NEW YORK CITY	44.2	2.0	0.9	-0.1	0.2	0.2	0.2	NA		NA
		2/17/82		2/17/82						
NY:NIAGARA FALLS	143.0	1.7	1.1	0.1	0.4	0.6	0.3	NA		NA
		2/17/82		2/17/82						
NY:SYRACUSE	131.0	2.0	0.9	0.3	0.5	0.7	0.4	NA		NA
		2/25/82		2/25/82						
OH:CINCINNATI	207.5	2.2	1.5	-0.2	0.6	0.4	0.3	NA		NA
		2/25/82		2/25/82						
OH:COLUMBUS	304.0	2.4	2.2	0.3	1.0	-0.1	0.1	NA		NA
		2/25/82		2/25/82						
OH:EAST LIVERPOOL	222.0	2.0	1.4	0.0	0.0	0.2	0.2	NA		NA
		2/25/82		2/25/82						
OH:PAINESVILLE	175.0	3.1	1.3	0.1	0.5	0.2	0.1	NA		NA
		2/25/82		2/25/82						

TABLE 13 (CONTINUED)

DRINKING WATER  
ALPHA, BETA AND GAMMA CONCENTRATION

1981

ANNUAL ANALYSES

LOCATION	TOTAL SOLIDS mg/l	GROSS BETA DATE CTD. pCi/l $\pm$ 2s		GROSS ALPHA DATE CTD. pCi/l $\pm$ 2s		<sup>90</sup> Sr pCi/l $\pm$ 2s		<sup>226</sup> Ra pCi/l $\pm$ 2s		SPECIFIC GAMMA ACTIVITY
OH:TOLEDO	112.4	3.0	1.1	0.3	0.3	0.2	0.2	NA		NA
		2/25/82		2/25/82						
OK:OKLAHOMA CITY	184.0	3.8	1.3	-0.1	0.4	0.2	0.1	NA		NA
		2/25/82		2/25/82						
OR:PORTLAND	22.0	1.3	0.8	0.1	0.2	0.2	0.3	NA		NA
		2/25/82		2/25/82						
PA:COLUMBIA	210.3	0.6	1.0	-0.2	0.5	0.3	0.3	NA		NA
		2/25/82		2/25/82						
PA:HARRISBURG	33.6	1.6	0.9	0.0	0.0	0.3	0.5	NA		NA
		2/25/82		2/25/82						
PA:PITTSBURGH	169.0	3.0	7.0	0.3	0.7	0.2	0.3	NA		NA
		3/ 3/82		3/ 3/82						
PC:ANCON	75.4	1.3	0.8	-0.1	0.2	0.1	0.1	NA		NA
		2/25/82		2/25/82						
RI:PROVIDENCE	66.4	1.9	0.9	-0.1	0.2	0.7	0.5	NA		NA
		2/25/82		2/25/82						
SC:BARNWELL	30.0	1.4	0.9	0.1	0.2	0.0	0.2	NA		NA
		2/25/82		2/25/82						
SC:COLUMBIA	66.8	2.5	0.9	0.0	0.0	0.1	0.1	NA		NA
		2/25/82		2/25/82						
SC:HARTSVILLE	32.2	0.4	0.5	0.3	0.2	0.1	0.1	NA		NA
		2/26/82		2/26/82						
SC:JENKINSVILLE	80.4	7.1	0.9	64.0	3.0	0.1	0.1	0.3	0.0	NA
		3/ 2/82		3/ 2/82						
SC:SENECA	28.2	5.0	1.2	0.0	0.0	0.2	0.3	NA		NA
		3/ 2/82		3/ 2/82						
TN:CHATTANOOGA	114.2	1.8	0.9	0.3	0.3	0.3	0.5	NA		NA
		3/ 2/82		3/ 2/82						