Howard Backer, MD, MPH
Interim Director

State of California - Health and Human Services Agency
California Department of Public Health

Drinking Water and Radiation Laboratory Branch

850 Marina Bay Parkway, Richmond, CA 94804

EDMUND G. BROWN JR.
Governor

PRELIMINARY Analysis Results Report for Task ID. N11-0322

Analyst: _____ **Analysis Approved By:** **Analysis Approval Date:**

Requestor

Name: **Organization:** Radiologic Health Branch

Address:

City: Sacramento **State:** CA **Zip Code:** 95814-5006 **Phone:**

Site and Sample Information

Collector's Name: **Date/Time Collected:** 03/25/2011 11:55 **Date/Time Received:** 03/25/2011 14:10

Site Name: Livermore / Air **Source Name:**

R Number: R 91048 **Sample Type:** Air Filter

Air Filter Information

Start Volume	Start Date/Time	End Volume (M^3)	End Date/Time	Net Air Volume (M^3)
32182.1	03/23/2011 09:58	32567.8	03/25/2011 11:55	385.7

Sample ID	Sampling Point	Method	Parameter	Result	±	CE	MDA_{95}	Units
N11-0322-001	Livermore	HASL Ga-01-R	Ba-140	-0.0302	±	0.0507	0.110	pCi/m3
N11-0322-001	Livermore	HASL Ga-01-R	Ce-141	0.00711	±	0.0137	0.0402	pCi/m3
N11-0322-001	Livermore	HASL Ga-01-R	Ce-144	0.0239	±	0.0625	0.184	pCi/m3
N11-0322-001	Livermore	HASL Ga-01-R	Cs-134	0.0331	±	0.0124	0.0490	pCi/m3
N11-0322-001	Livermore	HASL Ga-01-R	Cs-137	0.0200	±	0.0172	0.0568	pCi/m3
N11-0322-001	Livermore	DOE RP 710	Gross Alpha		±			pCi/m3
N11-0322-001	Livermore	DOE RP 710	Gross Beta		±			pCi/m3
N11-0322-001	Livermore	HASL Ga-01-R	I-131	0.115	±	0.0110	0.0333	pCi/m3
N11-0322-001	Livermore	HASL Ga-01-R	I-132	0.0357	±	0.0128	0.0511	pCi/m3
N11-0322-001	Livermore	HASL Ga-01-R	Ru-103	-0.00544	±	0.0111	0.0273	pCi/m3
N11-0322-001	Livermore	HASL Ga-01-R	Ru-106	0.154	±	0.0697	0.307	pCi/m3
N11-0322-001	Livermore	HASL Ga-01-R	Te-132	0.0233	±	0.00989	0.0338	pCi/m3
N11-0322-001	Livermore	HASL Ga-01-R	Zr-95	-0.00135	±	0.0181	0.0559	pCi/m3

1. Precision criteria for these methods were determined to be acceptable.
2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
3. MDA95 is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD95 divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD95 is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.

PRELIMINARY Analysis Results Report for Task ID. N11-0322

N11-0322-002	Livermore	HASL Ga-01-R	Iodine-131	0.450	± 0.0211	0.0320	pCi/m3

1. Precision criteria for these methods were determined to be acceptable.
2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
3. MDA95 is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD95 divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD95 is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.

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Drinking Water and Radiation Laboratory Branch

850 Marina Bay Parkway, Richmond, CA 94804

EDMUND G. BROWN JR.
Governor

PRELIMINARY Analysis Results Report for Task ID. N11-0323

Analyst: _____ **Analysis Approved By:** **Analysis Approval Date:**

Requestor

Name: **Organization:** Radiologic Health Branch

Address:

City: Sacramento **State:** CA **Zip Code:** 95814-5006 **Phone:**

Site and Sample Information

Collector's Name: **Date/Time Collected:** 03/26/2011 12:30 **Date/Time Received:** 03/26/2011 12:30

Site Name: Richmond / Air **Source Name:**

R Number: R 91069 **Sample Type:** Air Filter

Air Filter Information

Start Volume	Start Date/Time	End Volume (M^3)	End Date/Time	Net Air Volume (M^3)
4870.0	03/24/2011 13:00	5192.0	03/26/2011 12:30	322.0

Sample ID	Sampling Point	Method	Parameter	Result	±	CE	MDA_{95}	Units
N11-0323-001	Richmond	HASL Ga-01-R	Ba-140	0.0430	±	0.0333	0.125	pCi/m3
N11-0323-001	Richmond	HASL Ga-01-R	Ce-141	-0.00735	±	0.0140	0.0344	pCi/m3
N11-0323-001	Richmond	HASL Ga-01-R	Ce-144	0.0938	±	0.0438	0.150	pCi/m3
N11-0323-001	Richmond	HASL Ga-01-R	Cs-134	0.0313	±	0.0172	0.0601	pCi/m3
N11-0323-001	Richmond	HASL Ga-01-R	Cs-137	0.0281	±	0.0140	0.0553	pCi/m3
N11-0323-001	Richmond	DOE RP 710	Gross Alpha		±			pCi/m3
N11-0323-001	Richmond	DOE RP 710	Gross Beta		±			pCi/m3
N11-0323-001	Richmond	HASL Ga-01-R	I-131	0.0684	±	0.00901	0.0272	pCi/m3
N11-0323-001	Richmond	HASL Ga-01-R	I-132	0.0165	±	0.0153	0.0504	pCi/m3
N11-0323-001	Richmond	HASL Ga-01-R	Ru-103	-0.00609	±	0.0142	0.0364	pCi/m3
N11-0323-001	Richmond	HASL Ga-01-R	Ru-106	-0.220	±	0.152	0.286	pCi/m3
N11-0323-001	Richmond	HASL Ga-01-R	Te-132	0.0124	±	0.00812	0.0285	pCi/m3
N11-0323-001	Richmond	HASL Ga-01-R	Zr-95	0.0396	±	0.0237	0.0710	pCi/m3

1. Precision criteria for these methods were determined to be acceptable.
2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
3. MDA95 is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD95 divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD95 is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.

PRELIMINARY Analysis Results Report for Task ID. N11-0323

N11-0323-002	Richmond	HASL Ga-01-R	Iodine-131	0.469	± 0.0279	0.0597	pCi/m3

1. Precision criteria for these methods were determined to be acceptable.
2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
3. MDA95 is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD95 divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD95 is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.

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EDMUND G. BROWN JR.
Governor

PRELIMINARY Analysis Results Report for Task ID. N11-0324

Analyst: _____ **Analysis Approved By:** **Analysis Approval Date:**

Requestor

Name: **Organization:** Radiologic Health Branch

Address:

City: Sacramento **State:** CA **Zip Code:** 95814-5006 **Phone:**

Site and Sample Information

Collector's Name: **Date/Time Collected:** 03/26/2011 08:23 **Date/Time Received:** 03/28/2011 09:45

Site Name: San Luis Obispo / Air **Source Name:**

R Number: R 90435 **Sample Type:** Air Filter

Air Filter Information

Start Volume	Start Date/Time	End Volume (M^3)	End Date/Time	Net Air Volume (M^3)
64680.1	03/24/2011 10:27	65015.2	03/26/2011 08:23	335.1

Sample ID	Sampling Point	Method	Parameter	Result	±	CE	MDA_{95}	Units
N11-0324-001	San Luis Obispo	HASL Ga-01-R	Ba-140	0.0408	±	0.0391	0.147	pCi/m3
N11-0324-001	San Luis Obispo	HASL Ga-01-R	Ce-141	0.00923	±	0.0137	0.0383	pCi/m3
N11-0324-001	San Luis Obispo	HASL Ga-01-R	Ce-144	-0.189	±	0.0853	0.139	pCi/m3
N11-0324-001	San Luis Obispo	HASL Ga-01-R	Cs-134	0.0226	±	0.0153	0.0558	pCi/m3
N11-0324-001	San Luis Obispo	HASL Ga-01-R	Cs-137	0.0405	±	0.0169	0.0692	pCi/m3
N11-0324-001	San Luis Obispo	DOE RP 710	Gross Alpha		±			pCi/m3
N11-0324-001	San Luis Obispo	DOE RP 710	Gross Beta		±			pCi/m3
N11-0324-001	San Luis Obispo	HASL Ga-01-R	I-131	0.120	±	0.0160	0.0529	pCi/m3
N11-0324-001	San Luis Obispo	HASL Ga-01-R	I-132	-0.0621	±	0.0448	0.0739	pCi/m3
N11-0324-001	San Luis Obispo	HASL Ga-01-R	Ru-103	-0.0122	±	0.0145	0.0364	pCi/m3
N11-0324-001	San Luis Obispo	HASL Ga-01-R	Ru-106	-0.0799	±	0.143	0.377	pCi/m3
N11-0324-001	San Luis Obispo	HASL Ga-01-R	Te-132	0.0359	±	0.0103	0.0492	pCi/m3
N11-0324-001	San Luis Obispo	HASL Ga-01-R	Zr-95	-0.0200	±	0.0342	0.0810	pCi/m3

1. Precision criteria for these methods were determined to be acceptable.
2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
3. MDA95 is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD95 divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD95 is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.

PRELIMINARY Analysis Results Report for Task ID. N11-0324

N11-0324-002	San Luis Obispo	HASL Ga-01-R	Iodine-131	0.414	± 0.0288	0.0563	pCi/m3

1. Precision criteria for these methods were determined to be acceptable.
2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
3. MDA95 is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD95 divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD95 is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.

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850 Marina Bay Parkway, Richmond, CA 94804

EDMUND G. BROWN JR.
Governor

PRELIMINARY Analysis Results Report for Task ID. N11-0325

Analyst: _____ **Analysis Approved By:** **Analysis Approval Date:**

Requestor

Name: **Organization:** Radiologic Health Branch

Address:

City: Sacramento **State:** CA **Zip Code:** 95814-5006 **Phone:**

Site and Sample Information

Collector's Name: **Date/Time Collected:** 03/26/2011 08:53 **Date/Time Received:** 03/28/2011 09:53

Site Name: Diablo Canyon / Air **Source Name:**

R Number: R 90436 **Sample Type:** Air Filter

Air Filter Information

Start Volume	Start Date/Time	End Volume (M^3)	End Date/Time	Net Air Volume (M^3)
25718.9	03/24/2011 09:37	26062.4	03/26/2011 08:53	343.5

Sample ID	Sampling Point	Method	Parameter	Result ± CE			MDA95	Units
N11-0325-001	Diablo Canyon NPP	HASL Ga-01-R	Ba-140	0.0237	±	0.0374	0.121	pCi/m3
N11-0325-001	Diablo Canyon NPP	HASL Ga-01-R	Ce-141	-0.0161	±	0.0145	0.0329	pCi/m3
N11-0325-001	Diablo Canyon NPP	HASL Ga-01-R	Ce-144	-0.0155	±	0.0515	0.129	pCi/m3
N11-0325-001	Diablo Canyon NPP	HASL Ga-01-R	Cs-134	0.00639	±	0.0134	0.0420	pCi/m3
N11-0325-001	Diablo Canyon NPP	HASL Ga-01-R	Cs-137	0.00425	±	0.0168	0.0484	pCi/m3
N11-0325-001	Diablo Canyon NPP	DOE RP 710	Gross Alpha		±			pCi/m3
N11-0325-001	Diablo Canyon NPP	DOE RP 710	Gross Beta		±			pCi/m3
N11-0325-001	Diablo Canyon NPP	HASL Ga-01-R	I-131	0.0412	±	0.00802	0.0276	pCi/m3
N11-0325-001	Diablo Canyon NPP	HASL Ga-01-R	I-132	0.0457	±	0.0152	0.0717	pCi/m3
N11-0325-001	Diablo Canyon NPP	HASL Ga-01-R	Ru-103	0.0101	±	0.00964	0.0339	pCi/m3
N11-0325-001	Diablo Canyon NPP	HASL Ga-01-R	Ru-106	-0.0159	±	0.0875	0.252	pCi/m3
N11-0325-001	Diablo Canyon NPP	HASL Ga-01-R	Te-132	-0.00317	±	0.0129	0.0376	pCi/m3
N11-0325-001	Diablo Canyon NPP	HASL Ga-01-R	Zr-95	0.00297	±	0.0170	0.0545	pCi/m3

1. Precision criteria for these methods were determined to be acceptable.
2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
3. MDA95 is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD95 divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD95 is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.

PRELIMINARY Analysis Results Report for Task ID. N11-0325

N11-0325-002	Diablo Canyon NPP	HASL Ga-01-R	Iodine-131	0.308	± 0.0248	0.0550	pCi/m3

1. Precision criteria for these methods were determined to be acceptable.
2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
3. MDA95 is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD95 divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD95 is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.

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California Department of Public Health

Drinking Water and Radiation Laboratory Branch

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EDMUND G. BROWN JR.
Governor

PRELIMINARY Analysis Results Report for Task ID. N11-0327

Analyst: _____ **Analysis Approved By:** **Analysis Approval Date:**

Requestor

Name: **Organization:** Radiologic Health Branch

Address:

City: Sacramento **State:** CA **Zip Code:** 95814-5006 **Phone:**

Site and Sample Information

Collector's Name: **Date/Time Collected:** 03/25/2011 11:57 **Date/Time Received:** 03/28/2011 10:06

Site Name: San Diego / Air **Source Name:**

R Number: R 90611 **Sample Type:** Air Filter

Air Filter Information

Start Volume	Start Date/Time	End Volume (M^3)	End Date/Time	Net Air Volume (M^3)
79675.2	03/23/2011 13:33	79991.0	03/25/2011 11:57	315.8

Sample ID	Sampling Point	Method	Parameter	Result ± CE	MDA95	Units
N11-0327-001	San Diego	HASL Ga-01-R	Ba-140	0.0227 ± 0.0637	0.201	pCi/m3
N11-0327-001	San Diego	HASL Ga-01-R	Ce-141	0.00824 ± 0.0189	0.0503	pCi/m3
N11-0327-001	San Diego	HASL Ga-01-R	Ce-144	-0.0956 ± 0.0840	0.176	pCi/m3
N11-0327-001	San Diego	HASL Ga-01-R	Cs-134	0.0243 ± 0.0228	0.0740	pCi/m3
N11-0327-001	San Diego	HASL Ga-01-R	Cs-137	0.0324 ± 0.0238	0.0829	pCi/m3
N11-0327-001	San Diego	DOE RP 710	Gross Alpha	±		pCi/m3
N11-0327-001	San Diego	DOE RP 710	Gross Beta	±		pCi/m3
N11-0327-001	San Diego	HASL Ga-01-R	I-131	0.323 ± 0.0233	0.0453	pCi/m3
N11-0327-001	San Diego	HASL Ga-01-R	I-132	-0.188 ± 0.0789	0.111	pCi/m3
N11-0327-001	San Diego	HASL Ga-01-R	Ru-103	-0.00264 ± 0.0128	0.0384	pCi/m3
N11-0327-001	San Diego	HASL Ga-01-R	Ru-106	0.00564 ± 0.165	0.478	pCi/m3
N11-0327-001	San Diego	HASL Ga-01-R	Te-132	0.0538 ± 0.0155	0.0707	pCi/m3
N11-0327-001	San Diego	HASL Ga-01-R	Zr-95	-0.0247 ± 0.0412	0.0734	pCi/m3

1. Precision criteria for these methods were determined to be acceptable.
2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
3. MDA95 is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD95 divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD95 is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.

PRELIMINARY Analysis Results Report for Task ID. N11-0327

N11-0327-002	San Diego	HASL Ga-01-R	Iodine-131	0.559	± 0.0362	0.0677	pCi/m3

1. Precision criteria for these methods were determined to be acceptable.
2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
3. MDA95 is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD95 divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD95 is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.

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Drinking Water and Radiation Laboratory Branch

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EDMUND G. BROWN JR.
Governor

PRELIMINARY Analysis Results Report for Task ID. N11-0328

Analyst: _____ **Analysis Approved By:** **Analysis Approval Date:**

Requestor

Name: **Organization:** Radiologic Health Branch

Address:

City: Sacramento **State:** CA **Zip Code:** 95814-5006 **Phone:**

Site and Sample Information

Collector's Name: i **Date/Time Collected:** 03/25/2011 15:20 **Date/Time Received:** 03/28/2011 10:12

Site Name: San Onofre / Air **Source Name:**

R Number: R 82312 **Sample Type:** Air Filter

Air Filter Information

Start Volume	Start Date/Time	End Volume (M^3)	End Date/Time	Net Air Volume (M^3)
6848.9	03/24/2011 15:15	7006.1	03/25/2011 15:20	157.2

Sample ID	Sampling Point	Method	Parameter	Result ± CE	MDA95	Units
N11-0328-001	San Onofre	HASL Ga-01-R	Ba-140	0.145 ± 0.0767	0.309	pCi/m3
N11-0328-001	San Onofre	HASL Ga-01-R	Ce-141	0.0144 ± 0.0267	0.0754	pCi/m3
N11-0328-001	San Onofre	HASL Ga-01-R	Ce-144	-0.0579 ± 0.122	0.298	pCi/m3
N11-0328-001	San Onofre	HASL Ga-01-R	Cs-134	0.0967 ± 0.0245	0.113	pCi/m3
N11-0328-001	San Onofre	HASL Ga-01-R	Cs-137	0.0893 ± 0.0287	0.128	pCi/m3
N11-0328-001	San Onofre	DOE RP 710	Gross Alpha	±		pCi/m3
N11-0328-001	San Onofre	DOE RP 710	Gross Beta	±		pCi/m3
N11-0328-001	San Onofre	HASL Ga-01-R	I-131	0.277 ± 0.0260	0.0553	pCi/m3
N11-0328-001	San Onofre	HASL Ga-01-R	I-132	0.176 ± 0.0447	0.211	pCi/m3
N11-0328-001	San Onofre	HASL Ga-01-R	Ru-103	0.0304 ± 0.0185	0.0705	pCi/m3
N11-0328-001	San Onofre	HASL Ga-01-R	Ru-106	0.287 ± 0.159	0.678	pCi/m3
N11-0328-001	San Onofre	HASL Ga-01-R	Te-132	0.0162 ± 0.0351	0.111	pCi/m3
N11-0328-001	San Onofre	HASL Ga-01-R	Zr-95	-0.109 ± 0.0807	0.138	pCi/m3

1. Precision criteria for these methods were determined to be acceptable.
2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
3. MDA95 is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD95 divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD95 is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.

PRELIMINARY Analysis Results Report for Task ID. N11-0328

N11-0328-002	San Onofre	HASL Ga-01-R	Iodine-131	0.811	± 0.0627	0.143	pCi/m3

1. Precision criteria for these methods were determined to be acceptable.
2. CE is the counting error at the 95% confidence level as defined in Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA-600/4-80-032, August 1980
3. MDA95 is the sample specific minimum detectable activity at the 95% confidence level, which is the LLD95 divided by 2.22, the efficiency and the yield, and may include factors for abundance, decay and ingrowth, depending on the particular radionuclide. LLD95 is defined in section 7020C, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where Sb is the square root of the instrument background count rate.