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

Howard Backer, MD, MPH
Interim Director

EDMUND G. BROWN JR.
Governor

PRELIMINARY Analysis Results Report for Task ID. N11-0398

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

Requestor

Name: **Organization:**

Address:

City: **State:** CA **Zip Code:** **Phone:**

Site and Sample Information

Collector's Name: **Date/Time Collected:** 04/11/2011 10:05 **Date/Time Received:** 04/11/2011 11:09

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

R Number: R 91082 **Sample Type:** Air Filter

Air Filter Information

Start Volume	Start Date/Time	End Volume (M^3)	End Date/Time	Net Air Volume (M^3)
7448.2	04/09/2011 10:05	7775.6	04/11/2011 10:05	327.4

Sample ID	Sampling Point	Method	Parameter	Result ± CE	MDA95	Units
N11-0398-001	Richmond	HASL Ga-01-R	Ba-140	-0.0133 ± 0.0405	0.112	pCi/m3
N11-0398-001	Richmond	HASL Ga-01-R	Ce-141	-0.00785 ± 0.0127	0.0310	pCi/m3
N11-0398-001	Richmond	HASL Ga-01-R	Ce-144	0.0449 ± 0.0491	0.146	pCi/m3
N11-0398-001	Richmond	HASL Ga-01-R	Cs-134	0.0120 ± 0.0117	0.0401	pCi/m3
N11-0398-001	Richmond	HASL Ga-01-R	Cs-137	0.00835 ± 0.0148	0.0461	pCi/m3
N11-0398-001	Richmond	DOE RP 710	Gross Alpha	±		pCi/m3
N11-0398-001	Richmond	DOE RP 710	Gross Beta	±		pCi/m3
N11-0398-001	Richmond	HASL Ga-01-R	I-131	-0.0157 ± 0.0130	0.0339	pCi/m3
N11-0398-001	Richmond	HASL Ga-01-R	I-132	-0.00359 ± 0.0142	0.0391	pCi/m3
N11-0398-001	Richmond	HASL Ga-01-R	Ru-103	-0.0107 ± 0.0131	0.0317	pCi/m3
N11-0398-001	Richmond	HASL Ga-01-R	Ru-106	-0.0755 ± 0.128	0.316	pCi/m3
N11-0398-001	Richmond	HASL Ga-01-R	Te-132	-0.00111 ± 0.00867	0.0257	pCi/m3
N11-0398-001	Richmond	HASL Ga-01-R	Zr-95	-0.00495 ± 0.0319	0.0624	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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N11-0398-002	Richmond	HASL Ga-01-R	Iodine-131	0.0261	± 0.00949	0.0402	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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Interim Director

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Governor

PRELIMINARY Analysis Results Report for Task ID. N11-0399

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

Requestor

Name: **Organization:**

Address:

City: **State:** CA **Zip Code:** **Phone:**

Site and Sample Information

Collector's Name: **Date/Time Collected:** 04/09/2011 08:48 **Date/Time Received:** 04/11/2011 11:14

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

R Number: R 90449 **Sample Type:** Air Filter

Air Filter Information

Start Volume	Start Date/Time	End Volume (M^3)	End Date/Time	Net Air Volume (M^3)
67191.9	04/07/2011 13:10	67517.5	04/09/2011 08:48	325.6

Sample ID	Sampling Point	Method	Parameter	Result ± CE	MDA95	Units
N11-0399-001	San Luis Obispo	HASL Ga-01-R	Ba-140	0.0174 ± 0.0384	0.131	pCi/m3
N11-0399-001	San Luis Obispo	HASL Ga-01-R	Ce-141	0.0291 ± 0.00914	0.0399	pCi/m3
N11-0399-001	San Luis Obispo	HASL Ga-01-R	Ce-144	0.0377 ± 0.0443	0.135	pCi/m3
N11-0399-001	San Luis Obispo	HASL Ga-01-R	Cs-134	-0.00127 ± 0.0133	0.0388	pCi/m3
N11-0399-001	San Luis Obispo	HASL Ga-01-R	Cs-137	-0.0132 ± 0.0179	0.0405	pCi/m3
N11-0399-001	San Luis Obispo	DOE RP 710	Gross Alpha	±		pCi/m3
N11-0399-001	San Luis Obispo	DOE RP 710	Gross Beta	±		pCi/m3
N11-0399-001	San Luis Obispo	HASL Ga-01-R	I-131	-0.00756 ± 0.0118	0.0338	pCi/m3
N11-0399-001	San Luis Obispo	HASL Ga-01-R	I-132	-0.00684 ± 0.0237	0.0648	pCi/m3
N11-0399-001	San Luis Obispo	HASL Ga-01-R	Ru-103	-0.000761 ± 0.0124	0.0376	pCi/m3
N11-0399-001	San Luis Obispo	HASL Ga-01-R	Ru-106	0.0207 ± 0.121	0.378	pCi/m3
N11-0399-001	San Luis Obispo	HASL Ga-01-R	Te-132	-0.0126 ± 0.0116	0.0337	pCi/m3
N11-0399-001	San Luis Obispo	HASL Ga-01-R	Zr-95	0.0224 ± 0.0276	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. N11-0399

N11-0399-002	San Luis Obispo	HASL Ga-01-R	Iodine-131	0.0173	± 0.0153	0.0557	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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PRELIMINARY Analysis Results Report for Task ID. N11-0400

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

Requestor

Name: **Organization:**

Address:

City: **State:** CA **Zip Code:** **Phone:**

Site and Sample Information

Collector's Name: **Date/Time Collected:** 04/09/2011 11:03 **Date/Time Received:** 04/11/2011 11:19

Site Name: **Avila Beach** / Air **Source Name:**

R Number: R 90450 **Sample Type:** Air Filter

Air Filter Information

Start Volume	Start Date/Time	End Volume (M) 3	End Date/Time	Net Air Volume (M) 3
28200.0	04/07/2011 13:38	28544.3	04/09/2011 11:03	344.3

Sample ID	Sampling Point	Method	Parameter	Result ± CE	MDA95	Units
N11-0400-001	Diablo Canyon NPP	HASL Ga-01-R	Ba-140	-0.0326 ± 0.0558	0.123	pCi/m3
N11-0400-001	Diablo Canyon NPP	HASL Ga-01-R	Ce-141	0.0290 ± 0.0105	0.0406	pCi/m3
N11-0400-001	Diablo Canyon NPP	HASL Ga-01-R	Ce-144	-0.0253 ± 0.0584	0.159	pCi/m3
N11-0400-001	Diablo Canyon NPP	HASL Ga-01-R	Cs-134	-0.00864 ± 0.0116	0.0306	pCi/m3
N11-0400-001	Diablo Canyon NPP	HASL Ga-01-R	Cs-137	0.00289 ± 0.00854	0.0295	pCi/m3
N11-0400-001	Diablo Canyon NPP	DOE RP 710	Gross Alpha	±		pCi/m3
N11-0400-001	Diablo Canyon NPP	DOE RP 710	Gross Beta	±		pCi/m3
N11-0400-001	Diablo Canyon NPP	HASL Ga-01-R	I-131	0.00432 ± 0.0123	0.0365	pCi/m3
N11-0400-001	Diablo Canyon NPP	HASL Ga-01-R	I-132	0.00399 ± 0.0149	0.0494	pCi/m3
N11-0400-001	Diablo Canyon NPP	HASL Ga-01-R	Ru-103	0.00710 ± 0.0110	0.0334	pCi/m3
N11-0400-001	Diablo Canyon NPP	HASL Ga-01-R	Ru-106	-0.0551 ± 0.114	0.335	pCi/m3
N11-0400-001	Diablo Canyon NPP	HASL Ga-01-R	Te-132	0.000897 ± 0.0123	0.0356	pCi/m3
N11-0400-001	Diablo Canyon NPP	HASL Ga-01-R	Zr-95	0.0243 ± 0.0206	0.0702	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. N11-0400

N11-0400-002	Diablo Canyon NPP	HASL Ga-01-R	Iodine-131	0.0238	± 0.0150	0.0568	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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PRELIMINARY Analysis Results Report for Task ID. N11-0401

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

Requestor

Name: **Organization:**

Address:

City: **State:** CA **Zip Code:** **Phone:**

Site and Sample Information

Collector's Name: **Date/Time Collected:** 04/08/2011 14:50 **Date/Time Received:** 04/11/2011 11:25

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

R Number: R 90616 **Sample Type:** Air Filter

Air Filter Information

Start Volume	Start Date/Time	End Volume (M) ^{3}	End Date/Time	Net Air Volume (M) ^{3}
81992.8	04/06/2011 14:56	82324.6	04/08/2011 04:50	331.8

Sample ID	Sampling Point	Method	Parameter	Result ± CE	MDA95	Units
N11-0401-001	San Diego	HASL Ga-01-R	Ba-140	0.0171 ± 0.0354	0.113	pCi/m3
N11-0401-001	San Diego	HASL Ga-01-R	Ce-141	-0.00180 ± 0.0107	0.0313	pCi/m3
N11-0401-001	San Diego	HASL Ga-01-R	Ce-144	-0.0571 ± 0.0478	0.121	pCi/m3
N11-0401-001	San Diego	HASL Ga-01-R	Cs-134	-0.00990 ± 0.0154	0.0366	pCi/m3
N11-0401-001	San Diego	HASL Ga-01-R	Cs-137	0.0115 ± 0.0103	0.0368	pCi/m3
N11-0401-001	San Diego	DOE RP 710	Gross Alpha	±		pCi/m3
N11-0401-001	San Diego	DOE RP 710	Gross Beta	±		pCi/m3
N11-0401-001	San Diego	HASL Ga-01-R	I-131	0.0205 ± 0.00775	0.0354	pCi/m3
N11-0401-001	San Diego	HASL Ga-01-R	I-132	-0.0316 ± 0.0286	0.0606	pCi/m3
N11-0401-001	San Diego	HASL Ga-01-R	Ru-103	-0.000259 ± 0.00861	0.0241	pCi/m3
N11-0401-001	San Diego	HASL Ga-01-R	Ru-106	0.0406 ± 0.0767	0.247	pCi/m3
N11-0401-001	San Diego	HASL Ga-01-R	Te-132	0.0153 ± 0.0141	0.0464	pCi/m3
N11-0401-001	San Diego	HASL Ga-01-R	Zr-95	-0.0317 ± 0.0239	0.0399	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. N11-0401

N11-0401-002	San Diego	HASL Ga-01-R	Iodine-131	0.0368	± 0.0166	0.0689	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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PRELIMINARY Analysis Results Report for Task ID. N11-0402

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

Requestor

Name: **Organization:**

Address:

City: **State:** CA **Zip Code:** **Phone:**

Site and Sample Information

Collector's Name: **Date/Time Collected:** 04/11/2011 10:05 **Date/Time Received:** 04/11/2011 15:28

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

R Number: R 91054 **Sample Type:** Air Filter

Air Filter Information

Start Volume	Start Date/Time	End Volume (M) ^{3}	End Date/Time	Net Air Volume (M) ^{3}
35111.4	04/08/2011 09:26	35669.9	04/11/2011 10:05	558.5

Sample ID	Sampling Point	Method	Parameter	Result ± CE			MDA95	Units
N11-0402-001	Livermore	HASL Ga-01-R	Ba-140	-0.00496	±	0.0298	0.0856	pCi/m3
N11-0402-001	Livermore	HASL Ga-01-R	Ce-141	-0.0118	±	0.0115	0.0238	pCi/m3
N11-0402-001	Livermore	HASL Ga-01-R	Ce-144	-0.0202	±	0.0411	0.0960	pCi/m3
N11-0402-001	Livermore	HASL Ga-01-R	Cs-134	-0.00476	±	0.00942	0.0231	pCi/m3
N11-0402-001	Livermore	HASL Ga-01-R	Cs-137	-0.00437	±	0.0105	0.0283	pCi/m3
N11-0402-001	Livermore	DOE RP 710	Gross Alpha		±			pCi/m3
N11-0402-001	Livermore	DOE RP 710	Gross Beta		±			pCi/m3
N11-0402-001	Livermore	HASL Ga-01-R	I-131	0.00314	±	0.00771	0.0253	pCi/m3
N11-0402-001	Livermore	HASL Ga-01-R	I-132	-0.0119	±	0.0108	0.0240	pCi/m3
N11-0402-001	Livermore	HASL Ga-01-R	Ru-103	0.0114	±	0.00500	0.0234	pCi/m3
N11-0402-001	Livermore	HASL Ga-01-R	Ru-106	0.0920	±	0.0490	0.225	pCi/m3
N11-0402-001	Livermore	HASL Ga-01-R	Te-132	0.0111	±	0.00400	0.0183	pCi/m3
N11-0402-001	Livermore	HASL Ga-01-R	Zr-95	0.00328	±	0.0175	0.0539	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. N11-0402

N11-0402-002	Livermore	HASL Ga-01-R	Iodine-131	-0.00427	± 0.00742	0.0199	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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Governor

PRELIMINARY Analysis Results Report for Task ID. N11-0403

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

Requestor

Name: **Organization:**

Address:

City: **State:** CA **Zip Code:** **Phone:**

Site and Sample Information

Collector's Name: **Date/Time Collected:** 04/08/2011 14:15 **Date/Time Received:** 04/11/2011 15:35

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

R Number: R 87393 **Sample Type:** Air Filter

Air Filter Information

Start Volume	Start Date/Time	End Volume (M^3)	End Date/Time	Net Air Volume (M^3)
8931.5	04/06/2011 16:30	9240.8	04/08/2011 14:15	309.3

Sample ID	Sampling Point	Method	Parameter	Result ± CE	MDA95	Units
N11-0403-001	San Onofre	HASL Ga-01-R	Ba-140	0 ± 0.0489	0.134	pCi/m3
N11-0403-001	San Onofre	HASL Ga-01-R	Ce-141	0.0119 ± 0.0159	0.0482	pCi/m3
N11-0403-001	San Onofre	HASL Ga-01-R	Ce-144	-0.00743 ± 0.0658	0.183	pCi/m3
N11-0403-001	San Onofre	HASL Ga-01-R	Cs-134	-0.000734 ± 0.0134	0.0421	pCi/m3
N11-0403-001	San Onofre	HASL Ga-01-R	Cs-137	0.00437 ± 0.0129	0.0415	pCi/m3
N11-0403-001	San Onofre	DOE RP 710	Gross Alpha	±		pCi/m3
N11-0403-001	San Onofre	DOE RP 710	Gross Beta	±		pCi/m3
N11-0403-001	San Onofre	HASL Ga-01-R	I-131	-0.0200 ± 0.0197	0.0469	pCi/m3
N11-0403-001	San Onofre	HASL Ga-01-R	I-132	0.0330 ± 0.0171	0.0735	pCi/m3
N11-0403-001	San Onofre	HASL Ga-01-R	Ru-103	-0.00548 ± 0.0132	0.0331	pCi/m3
N11-0403-001	San Onofre	HASL Ga-01-R	Ru-106	0.0517 ± 0.108	0.373	pCi/m3
N11-0403-001	San Onofre	HASL Ga-01-R	Te-132	0.0344 ± 0.0142	0.0542	pCi/m3
N11-0403-001	San Onofre	HASL Ga-01-R	Zr-95	-0.0140 ± 0.0293	0.0610	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. N11-0403

N11-0403-002	San Onofre	HASL Ga-01-R	Iodine-131	0.0256	± 0.0129	0.0496	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.