



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

Phone: (510) 620-2911 Fax: (510) 620-2940



FINAL Analysis Results Report for Task ID. 14-0695

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0695-01	Sample ID: R 94751 Sample Type: Fish/Shellfish	Time Collected: 10/9/2014 11:20	Sampling Point: Cal Spiny Lobster	
Dry Wt/Wet Wt		0.268		
K-40	HASL Ga-01-R	14.1 +/- 0.690	0.448	pCi/g dry wt

- (1) Precision criteria for these method 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, dependent on the particular radio-nuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where S_b is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0693

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0693-01	Sample ID: R 94681	Time Collected: 10/9/2014 9:55	Sampling Point: Calif Sheephead	
	Sample Type: Fish/Shellfish			
Dry Wt/Wet Wt		0.184		
K-40	HASL Ga-01-R	16.4 +/- 1.07	0.383	pCi/g dry wt

- (1) Precision criteria for these method 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, dependent on the particular radionuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where S_b is the square root of the instrument background count rate.



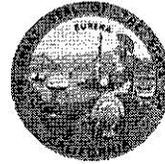
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FINAL Analysis Results Report for Task ID. 14-0694

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0694-01	Sample ID: R 94682 Sample Type: Fish/Shellfish	Time Collected: 10/9/2014 9:35	Sampling Point: Calif Mussels	
Dry Wt/Wet Wt		0.133		
K-40	HASL Ga-01-R	9.97 +/- 0.674	0.701	pCi/g dry wt

- (1) Precision criteria for these method 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, dependent on the particular radio-nuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where S_b is the square root of the instrument background count rate.



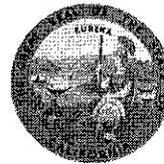
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FINAL Analysis Results Report for Task ID. 14-0676

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0676-01				
	Sample ID: R 94677	Time Collected: 10/1/2014 11:40	Sampling Point: Calif Mussel	
	Sample Type: Fish/Shellfish			
Dry Wt/Wet Wt		0.143		
K-40	HASL Ga-01-R	12.0 +/- 0.868	0.557	pCi/g dry wt

- (1) Precision criteria for these method 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, dependent on the particular radionuclide. LLD95 is defined in section 7010G, 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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FINAL Analysis Results Report for Task ID. 14-0675

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0675-01	Sample ID: R 94676 Sample Type: Fish/Shellfish	Time Collected: 10/1/2014 9:35	Sampling Point: Calif Sheephead	
Dry Wt/Wet Wt		0.247		
K-40	HASL Ga-01-R	14.2 +/- 0.774	.687	pCi/g dry wt

- (1) Precision criteria for these method 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, dependent on the particular radio-nuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where S_b is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0674

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0674-01	Sample ID: R 94875	Time Collected: 10/1/2014 9:20	Sampling Point: Black Perch	
	Sample Type: Fish/Shellfish			
Dry Wt/Wet Wt		0.264		
K-40	HASL Ga-01-R	12.7 +/- 0.764	0.604	pCi/g dry wt

- (1) Precision criteria for these method 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, dependent on the particular radionuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where S_b is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0293

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0293-01	Sample ID: R 94495	Time Collected: 4/24/2014 12:45	Sampling Point: Bass	
	Sample Type: Fish/Shellfish			
Dry Wt/Wet Wt		0.237		
K-40	HASL Ga-01-R	14.5 +/- 0.393	0.369	pCi/g dry wt

- (1) Precision criteria for these method 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, dependent on the particular radio-nuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where S_b is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0292

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0292-01	Sample ID: R 94494 Sample Type: Biota	Time Collected: 4/24/2014 10:45	Sampling Point: Barred Sand Bass	
Dry Wt/Wet Wt		0.244		
K-40	HASL Ga-01-R	15.7 +/- 0.444	0.536	pCi/g dry wt

- (1) Precision criteria for these method 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.
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FINAL Analysis Results Report for Task ID. 14-0250

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0250-01	Sample ID: R 94368 Sample Type: Biota	Time Collected: 4/10/2014 11:50	Sampling Point: Calif Spiny Lobster	
Dry Wt/Wet Wt		0.2617		
K-40	HASL Ga-01-R	13.4 +/- 0.374	0.419	pCi/g dry wt

- (1) Precision criteria for these method 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, dependent on the particular radio-nuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where S_b is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0251

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0251-01	Sample ID: R 94369 Sample Type: Biota	Time Collected: 4/10/2014 11:15	Sampling Point: Calif Mussel	
Dry Wt/Wet Wt		0.1517		
K-40	HASL Ga-01-R	14.7 +/- 0.407	0.710	pCi/g dry wt

- (1) Precision criteria for these method 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.
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FINAL Analysis Results Report for Task ID. 14-0244

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0244-01	Sample ID: R 94364 Sample Type: Biota	Time Collected: 4/8/2014 10:40	Sampling Point: Calif. Sheephead	
Dry Wt/Wet Wt		0.226		
K-40	HASL Ga-01-R	7.72 +/- 0.213	0.228	pCi/g dry wt

- (1) Precision criteria for these method 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.
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FINAL Analysis Results Report for Task ID. 14-0245

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0245-01	Sample ID: R 94365 Sample Type: Biota	Time Collected: 9/4/2014 10:30	Sampling Point: Calif Spiny Lobster	
Dry Wt/Wet Wt		0.275		
K-40	HASL Ga-01-R	12.9 +/- 0.321	0.433	pCi/g dry wt

- (1) Precision criteria for these method 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, dependent on the particular radionuclide. LLD95 is defined in section 7010G, Standard Methods for the Examination of Water and Wastewater, American Water Works Association, 21st Ed., 2005, where S_b is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0246

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0246-01	Sample ID: R 94366 Sample Type: Biota	Time Collected: 4/8/2014 10:15	Sampling Point: Calif Mussel	
Dry Wt/Wet Wt		0.1058		
K-40	HASL Ga-01-R	13.5 +/- 0.438	0.840	pCi/g dry wt

- (1) Precision criteria for these method 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.
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