



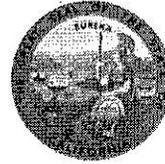
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California Department of Public Health

Drinking Water and Radiation Laboratory Branch

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FINAL Analysis Results Report for Task ID. 14-0733

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0733-01	Sample ID: R 94760	Time Collected: 10/27/2014 13:40	Sampling Point: Sediment	
	Sample Type: Soil/Sediment			
Dry Wt/Wet Wt		0.817		
K-40	HASL Ga-01-R	16.1 +/- 1.35	0.116	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 Sb is the square root of the instrument background count rate.



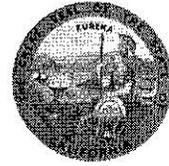
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FINAL Analysis Results Report for Task ID. 14-0736

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0736-01	Sample ID: R 94763	Time Collected: 10/27/2014 11:32	Sampling Point: Sediment	
	Sample Type: Soil/Sediment			
Dry Wt/Wet Wt		0.771		
K-40	HASL Ga-01-R	15.3 +/- 0.708	0.271	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. 14-0734

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0734-01	Sample ID: R 94761 Sample Type: Soil/Sediment	Time Collected: 10/27/2014 10:42	Sampling Point: Sediment	
Dry Wt/Wet Wt		0.781		
K-40	HASL Ga-01-R	16.9 +/- 1.42	0.199	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 Sb is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0735

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0735-01	Sample ID: R 94762 Sample Type: Soil/Sediment	Time Collected: 10/27/2014 9:55	Sampling Point: Sediment	
Dry Wt/Wet Wt		0.274		
K-40	HASL Ga-01-R	15.7 +/- 1.35	0.320	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. 14-0692

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0692-01				
Sample ID: R 94680 Time Collected: 10/9/2014 8:20 Sampling Point: Sediment				
Sample Type: Soil/Sediment				
Dry Wt/Wet Wt		0.784		
K-40	HASL Ga-01-R	17.7 +/- 1.49	0.179	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 Sb is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0645

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0645-01	Sample ID: R 94642	Time Collected: 9/10/2014 12:00	Sampling Point: Sediment	
	Sample Type: Soil/Sediment			
Dry Wt/Wet Wt		0.984		
K-40	HASL Ga-01-R	7.98 +/- 0.252	0.288	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. 14-0641

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0641-01	Sample ID: R 87661 Sample Type: Soil/Sediment	Time Collected: 9/10/2014 11:17	Sampling Point: Sediment	
Dry Wt/Wet Wt		1.00		
K-40	HASL Ga-01-R	21.7 +/- 0.912	0.163	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 Sb is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0644

Parameter	Method	Result +/- CE	MDA ₉₅	Units
Lab No: 14-0644-01	Sample ID: R 94635 Sample Type: Soil/Sediment	Time Collected: 9/10/2014 10:20	Sampling Point: Sediment	
Dry Wt/Wet Wt		0.995		
K-40	HASL Ga-01-R	15.7 +/- 0.356	0.203	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 Sb is the square root of the instrument background count rate.



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FINAL Analysis Results Report for Task ID. 14-0642

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0642-01	Sample ID: R 87660 Sample Type: Soil/Sediment	Time Collected: 9/10/2014 9:40	Sampling Point: Sediment	
Dry Wt/Wet Wt		0.997		
K-40	HASL Ga-01-R	6.63 +/- 0.222	0.304	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. 14-0643

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0643-01	Sample ID: R 94617 Sample Type: Soil/Sediment	Time Collected: 9/10/2014 9:00	Sampling Point: Sediment	
Dry Wt/Wet Wt		0.998		
K-40	HASL Ga-01-R	15.5 +/- 0.665	0.239	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. 14-0276

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0276-01	Sample ID: R 94375	Time Collected: 4/15/2014 13:30	Sampling Point: Sediment	
	Sample Type: Soil/Sediment			
Dry Wt/Wet Wt		0.764		
K-40	HASL Ga-01-R	19.0 +/- 0.797	0.154	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. 14-0277

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0277-01	Sample ID: R 94376 Sample Type: Soil/Sediment	Time Collected: 4/10/2014 9:15	Sampling Point: Sediment	
Dry Wt/Wet Wt		0.790		
K-40	HASL Ga-01-R	11.1 +/- 0.339	0.267	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. 14-0247

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0247-01	Sample ID: R 94367 Sample Type: Soil/Sediment	Time Collected: 4/8/2014 8:35	Sampling Point: Sediment	
Dry Wt/Wet Wt		0.742		
K-40	HASL Ga-01-R	18.4 +/- 0.770	0.185	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. 14-0158

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0158-01	Sample ID: R 91836 Sample Type: Soil/Sediment	Time Collected: 3/5/2014 13:20	Sampling Point: Sediment	
Dry Wt/Wet Wt		0.887		
K-40	HASL Ga-01-R	17.8 +/- 0.759	0.251	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. 14-0157

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0157-01	Sample ID: R 91834 Sample Type: Soil/Sediment	Time Collected: 3/5/2014 11:10	Sampling Point: Sediment	
Dry Wt/Wet Wt		0.981		
K-40	HASL Ga-01-R	11.9 +/- 0.500	0.103	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. 14-0155

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0155-01	Sample ID: R 91833	Time Collected: 3/5/2014	10:00	Sampling Point: Sediment
	Sample Type: Soil/Sediment			
Dry Wt/Wet Wt		0.945		
K-40	HASL Ga-01-R	16.2 +/- 0.366	0.210	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. 14-0156

Parameter	Method	Result +/- CE	MDA 95	Units
Lab No: 14-0156-01	Sample ID: R 91835 Sample Type: Soil/Sediment	Time Collected: 3/5/2014 9:45	Sampling Point: Sediment	
Dry Wt/Wet Wt		0.955		
K-40	HASL Ga-01-R	16.5 +/- 0.373	0.213	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.