

Town of Coupeville and Fort Casey Treatment Plant
466 Keystone Hill Road
WI-CV-1RW24-1216 (Well 487)
12/06/2016
09:45
Preliminary Results Provided January 23, 2017
Validated Results Provided April 24, 2017

Below are the **validated** test results for your drinking water sampled on December 6, 2016. These results indicate that your drinking water is below the U.S. Environmental Protection Agency (EPA)'s lifetime health advisory (LHA) for Perfluorooctane Sulfonate (PFOS) and/or Perfluorooctanoic acid (PFOA). Based upon the completion of data validation no results or qualifier flags have changed for the test results listed below.

The Navy's Environmental Restoration Program analyzed for three per- and polyfluoroalkyl substances (PFAS) as part of this drinking water investigation, which include PFOA, PFOS, and Perfluorobutanesulfonic acid (PFBS). The Navy reports only these PFAS because these are the only three for which the EPA has established human health exposure information. PFOA and PFOS are the only PFAS that EPA has established a LHA. The Navy provides bottled water when the sample results exceed the EPA's LHA.

The Navy also reports PFBS in the lab reports because this compound has health effects information that can be used to evaluate potential impact in the Navy's Environmental Restoration Program. If the EPA sets a health advisory for PFBS in the future, then the Navy will evaluate necessary actions to take based on the health advisory.

Results of Laboratory Analytical Tests for PFAS with EPA Health Advisory Levels

Chemical Name	Dec 2016	Health Advisory (ppt)
	Result (ppt)	
Perfluorooctane Sulfonate (PFOS)	45 U	70
Perfluorooctanoic acid (PFOA)	22 U	70
PFOS and PFOA (cumulative) ¹	Not Detected	70

¹ Only detected values of PFOS and PFOA are summed.

J - Analyte present, but result is estimated

U - Analyte not detected in the sample

Results for other PFAS where no EPA Health Advisory Levels have been established

Chemical Name	Dec 2016	Health Advisory (ppt)
	Result (ppt)	
Perfluorobutanesulfonic acid (PFBS)	100 U	Not applicable

J - Analyte present, but result is estimated

U - Analyte not detected in the sample

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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-24178-1
 SDG No.: _____
 Client Sample ID: WI-CV-1RW24-1216 Lab Sample ID: 320-24178-4
 Matrix: Water Lab File ID: 15DEC2016A6A_012.d
 Analysis Method: 537 Date Collected: 12/06/2016 09:45
 Extraction Method: 537 Date Extracted: 12/09/2016 18:59
 Sample wt/vol: 267.4 (mL) Date Analyzed: 12/15/2016 12:59
 Con. Extract Vol.: 1.00 (mL) Dilution Factor: 1
 Injection Volume: 10 (uL) GC Column: Acquity ID: 2.1 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 142223 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.045		0.056	0.045	0.014
335-67-1	Perfluorooctanoic acid (PFCA)	0.022		0.028	0.022	0.0088
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.10		0.13	0.10	0.044

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00993	13C2 PFHxA	94		70-130
STL00996	13C2 PFDA	91		70-130

NW 1/7/17

Town of Coupeville and Fort Casey Treatment Plant
466 Keystone Hill Road
WI-CV-1RW25-1216 (Well 106)
12/06/2016
10:00
Preliminary Results Provided January 23, 2017
Validated Results Provided April 24, 2017

Below are the **validated** test results for your drinking water sampled on December 6, 2016. These results indicate that your drinking water is below the U.S. Environmental Protection Agency (EPA)'s lifetime health advisory (LHA) for Perfluorooctane Sulfonate (PFOS) and/or Perfluorooctanoic acid (PFOA). Based upon the completion of data validation no results or qualifier flags have changed for the test results listed below.

The Navy's Environmental Restoration Program analyzed for three per- and polyfluoroalkyl substances (PFAS) as part of this drinking water investigation, which include PFOA, PFOS, and Perfluorobutanesulfonic acid (PFBS). The Navy reports only these PFAS because these are the only three for which the EPA has established human health exposure information. PFOA and PFOS are the only PFAS that EPA has established a LHA. The Navy provides bottled water when the sample results exceed the EPA's LHA.

The Navy also reports PFBS in the lab reports because this compound has health effects information that can be used to evaluate potential impact in the Navy's Environmental Restoration Program. If the EPA sets a health advisory for PFBS in the future, then the Navy will evaluate necessary actions to take based on the health advisory.

Results of Laboratory Analytical Tests for PFAS with EPA Health Advisory Levels

Chemical Name	Dec 2016	Health Advisory (ppt)
	Result (ppt)	
Perfluorooctane Sulfonate (PFOS)	44 U	70
Perfluorooctanoic acid (PFOA)	22 U	70
PFOS and PFOA (cumulative) ¹	Not Detected	70

¹ Only detected values of PFOS and PFOA are summed.

J - Analyte present, but result is estimated

U - Analyte not detected in the sample

Results for other PFAS where no EPA Health Advisory Levels have been established

Chemical Name	Dec 2016	Health Advisory (ppt)
	Result (ppt)	
Perfluorobutanesulfonic acid (PFBS)	100 U	Not applicable

J - Analyte present, but result is estimated

U - Analyte not detected in the sample

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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-24178-1
 SDG No.: _____
 Client Sample ID: WI-CV-1RW25-1216 Lab Sample ID: 320-24178-6
 Matrix: Water Lab File ID: 15DEC2016A6A_014.d
 Analysis Method: 537 Date Collected: 12/06/2016 10:00
 Extraction Method: 537 Date Extracted: 12/09/2016 18:59
 Sample wt/vol: 271.7(mL) Date Analyzed: 12/15/2016 14:25
 Con. Extract Vol.: 1.00(mL) Dilution Factor: 1
 Injection Volume: 10(uL) GC Column: Acquity ID: 2.1(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 142223 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.044	0	0.055	0.044	0.014
335-67-1	Perfluorooctanoic acid (PFCA)	0.022	0	0.028	0.022	0.0087
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.10	0	0.13	0.10	0.044

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00993	13C2 PFHxA	97		70-130
STL00996	13C2 PFDA	92		70-130

NW 1/4/17

Town of Coupeville and Fort Casey Treatment Plant
466 Keystone Hill Road
WI-CV-1RW26-1216 (Well 190)
12/06/2016
10:12
Preliminary Results Provided January 23, 2017
Validated Results Provided April 24, 2017

Below are the **validated** test results for your drinking water sampled on December 6, 2016. These results indicate that your drinking water is below the U.S. Environmental Protection Agency (EPA)'s lifetime health advisory (LHA) for Perfluorooctane Sulfonate (PFOS) and/or Perfluorooctanoic acid (PFOA). Based upon the completion of data validation no results or qualifier flags have changed for the test results listed below.

The Navy's Environmental Restoration Program analyzed for three per- and polyfluoroalkyl substances (PFAS) as part of this drinking water investigation, which include PFOA, PFOS, and Perfluorobutanesulfonic acid (PFBS). The Navy reports only these PFAS because these are the only three for which the EPA has established human health exposure information. PFOA and PFOS are the only PFAS that EPA has established a LHA. The Navy provides bottled water when the sample results exceed the EPA's LHA.

The Navy also reports PFBS in the lab reports because this compound has health effects information that can be used to evaluate potential impact in the Navy's Environmental Restoration Program. If the EPA sets a health advisory for PFBS in the future, then the Navy will evaluate necessary actions to take based on the health advisory.

Results of Laboratory Analytical Tests for PFAS with EPA Health Advisory Levels

Chemical Name	Dec 2016	Health Advisory (ppt)
	Result (ppt)	
Perfluorooctane Sulfonate (PFOS)	44 U	70
Perfluorooctanoic acid (PFOA)	22 U	70
PFOS and PFOA (cumulative) ¹	Not Detected	70

¹ Only detected values of PFOS and PFOA are summed.

J - Analyte present, but result is estimated

U - Analyte not detected in the sample

Results for other PFAS where no EPA Health Advisory Levels have been established

Chemical Name	Dec 2016	Health Advisory (ppt)
	Result (ppt)	
Perfluorobutanesulfonic acid (PFBS)	100 U	Not applicable

J - Analyte present, but result is estimated

U - Analyte not detected in the sample

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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-24178-1
 SDG No.: _____
 Client Sample ID: WI-CV-1RW26-1216 Lab Sample ID: 320-24178-8
 Matrix: Water Lab File ID: 15DEC2016A6A_018.d
 Analysis Method: 537 Date Collected: 12/06/2016 10:12
 Extraction Method: 537 Date Extracted: 12/09/2016 18:59
 Sample wt/vol: 270.3(mL) Date Analyzed: 12/15/2016 16:24
 Con. Extract Vol.: 1.00(mL) Dilution Factor: 1
 Injection Volume: 10(uL) GC Column: Acquity ID: 2.1(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 142412 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.044	U	0.055	0.044	0.014
335-67-1	Perfluorooctanoic acid (PFOA)	0.022	U	0.028	0.022	0.0087
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.10	U	0.13	0.10	0.044

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00993	13C2 PFHxA	100		70-130
STL00996	13C2 PFDA	97		70-130

mw 1/4/17

Town of Coupeville and Fort Casey Treatment Plant
466 Keystone Hill Road
WI-CV-1RW27-1216 (Post-Treatment)
12/06/2016
10:24
Preliminary Results Provided January 23, 2017
Validated Results Provided April 24, 2017

Below are the **validated** test results for your drinking water sampled on December 6, 2016. These results indicate that your drinking water is below the U.S. Environmental Protection Agency (EPA)'s lifetime health advisory (LHA) for Perfluorooctane Sulfonate (PFOS) and/or Perfluorooctanoic acid (PFOA). Based upon the completion of data validation no results or qualifier flags have changed for the test results listed below.

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The Navy also reports PFBS in the lab reports because this compound has health effects information that can be used to evaluate potential impact in the Navy's Environmental Restoration Program. If the EPA sets a health advisory for PFBS in the future, then the Navy will evaluate necessary actions to take based on the health advisory.

Results of Laboratory Analytical Tests for PFAS with EPA Health Advisory Levels

Chemical Name	Dec 2016	Health Advisory (ppt)
	Result (ppt)	
Perfluorooctane Sulfonate (PFOS)	47 U	70
Perfluorooctanoic acid (PFOA)	38	70
PFOS and PFOA (cumulative) ¹	38	70

¹ Only detected values of PFOS and PFOA are summed.

J - Analyte present, but result is estimated

U - Analyte not detected in the sample

Results for other PFAS where no EPA Health Advisory Levels have been established

Chemical Name	Dec 2016	Health Advisory (ppt)
	Result (ppt)	
Perfluorobutanesulfonic acid (PFBS)	110 U	Not applicable

J - Analyte present, but result is estimated

U - Analyte not detected in the sample

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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 320-24178-1
 SDG No.: _____
 Client Sample ID: WI-CV-1RW27-1216 Lab Sample ID: 320-24178-10
 Matrix: Water Lab File ID: 15DEC2016A6A_020.d
 Analysis Method: 537 Date Collected: 12/06/2016 10:24
 Extraction Method: 537 Date Extracted: 12/09/2016 18:59
 Sample wt/vol: 254.4 (mL) Date Analyzed: 12/15/2016 17:23
 Con. Extract Vol.: 1.00 (mL) Dilution Factor: 1
 Injection Volume: 10 (uL) GC Column: Acquity ID: 2.1 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 142412 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.047		0.059	0.047	0.015
335-67-1	Perfluorooctanoic acid (PFOA)	0.038		0.029	0.024	0.0093
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.11	U	0.14	0.11	0.047

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL00993	13C2 PFHxA	114		70-130
STL00996	13C2 PFDA	112		70-130