

**Table X-X**  
**AFFF Assessment Sampling GW 2022 December**  
**Chemistry Results - Non-Approved**  
RH Fire Suppression System

Location ID:	RHMW02	RHMW03	RHMW04	RHMW04	RHMW04	RHMW06	RHMW06	RHMW06	RHMW10	RHMW10
Field Sample ID:	AF-RHMW02-WGN01LF-2212W3	AF-RHMW03-WGN01LF-2212W3	AF-RHMW04-WGN01LF-2212W1	AF-RHMW04-WGN01B-2212W2	AF-RHMW04-WGN01LF-2212W3	AF-RHMW06-WGN01B-2212W1	AF-RHMW06-WGN01B-2212W2	AF-RHMW06-WGN01LF-2212W3	AF-RHMW10-WGN01B-2212W1	AF-RHMW10-WGN01B-2212W1
Lab Sample ID:	22L0141-01	22L0141-02	580-121306-1	580-121381-1	580-121547-4	580-121247-2	580-121385-2	580-121547-3	22L0078-02	580-121247-4
Sample Date:	12/19/2022	12/19/2022	12/7/2022	12/15/2022	12/22/2022	12/8/2022	12/14/2022	12/22/2022	12/11/2022	12/11/2022
Sample Type:	N	N	N	N	N	N	N	N	N	N

			Hawaii Department of Health Ground Water Environmental Action Levels (Table A) PFAS									
PFAS (NG/L)	2022 Nov EPA Tapwater (THQ 0.1)											
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	NA	NA	0.340 U	0.350 U	NA	NA	NA	NA	NA	NA	0.400 U	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NA	NA	0.690 U	0.700 U	NA	NA	NA	NA	NA	NA	0.800 U	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NA	NA	0.690 U	0.700 U	NA	NA	NA	NA	NA	NA	0.800 U	NA
3-Perfluoropropyl propanoic acid (3:3FTCA)	NA	NA	0.690 U	0.700 U	NA	NA	NA	NA	NA	NA	0.800 U	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NA	NA	0.340 U	0.350 U	NA	NA	NA	NA	NA	NA	0.400 U	NA
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	NA	NA	0.690 U	0.700 U	NA	NA	NA	NA	NA	NA	0.800 U	NA
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NA	NA	<b>10.0</b>	<b>3.60</b>	NA	NA	NA	NA	NA	NA	<b>33.0 J</b>	NA
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NA	NA	0.690 U	0.700 U	NA	NA	NA	NA	NA	NA	0.800 U	NA
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	NA	NA	0.340 U	0.350 U	NA	NA	NA	NA	NA	NA	0.400 U	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	6	160	0.340 U	0.350 U	NA	NA	NA	NA	NA	NA	0.400 U	NA
N-Ethyl perfluorooctanesulfonamide (NEtFOSA)	NA	NA	0.690 U	0.700 U	NA	NA	NA	NA	NA	NA	0.800 U	NA
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NA	NA	0.170 U	0.180 U	NA	NA	NA	NA	NA	NA	0.200 U	NA
N-Ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NA	NA	1.00 U	1.10 U	NA	NA	NA	NA	NA	NA	1.20 U	NA
N-Methyl heptafluorooctanesulfonamide (NMeFOSA)	NA	NA	0.690 U	0.700 U	NA	NA	NA	NA	NA	NA	0.800 U	NA
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NA	NA	0.170 U	0.180 U	NA	NA	NA	NA	NA	NA	0.200 U	NA
N-Methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NA	NA	1.00 U	1.10 U	NA	NA	NA	NA	NA	NA	1.20 U	NA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NA	NA	0.340 U	0.350 U	NA	NA	NA	NA	NA	NA	0.400 U	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NA	NA	0.340 U	0.350 U	NA	NA	NA	NA	NA	NA	0.400 U	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NA	NA	0.340 U	0.350 U	NA	NA	NA	NA	NA	NA	<b>0.530 J</b>	NA

**Table X-X**  
**AFFF Assessment Sampling GW 2022 December**  
**Chemistry Results - Non-Approved**  
RH Fire Suppression System

Location ID:	RHMW10	RHMW12A	RHMW12A	RHMW12A	RHMW16	RHMW16	RHMW16	RHMW17	RHMW17	RHMW17
Field Sample ID:	AF-RHMW10-WGN01B-2212W2	AF-RHMW12A-WGN01B-2212W1	AF-RHMW12A-WGN01B-2212W1	AF-RHMW12A-WGN01B-2212W2	AF-RHMW16-WGN01B-2212W1	AF-RHMW16-WGN01B-2212W1	AF-RHMW16-WGN01B-2212W2	AF-RHMW17-WGN01LF-2212W1	AF-RHMW17-WGN01B-2212W2	AF-RHMW17-WGN01LF-2212W3
Lab Sample ID:	580-121381-2	22L0078-01	580-121247-5	580-121385-1	22L0078-03	580-121247-1	22L0134-01	580-121306-2	580-121295-1	580-121547-2
Sample Date:	12/15/2022	12/9/2022	12/9/2022	12/14/2022	12/10/2022	12/10/2022	12/16/2022	12/7/2022	12/13/2022	12/22/2022
Sample Type:	N	N	N	N	N	N	N	N	N	N

													Hawaii Department of Health Ground Water Environmental Action Levels (Table A) PFAS
PFAS (NG/L)	2022 Nov EPA Tapwater (THQ 0.1)												
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	NA	NA	NA	0.400 U	NA	NA	0.400 U	NA	0.400 U	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NA	NA	NA	0.800 U	NA	NA	0.800 U	NA	0.800 U	NA	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NA	NA	NA	0.800 U	NA	NA	0.800 U	NA	0.800 U	NA	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3FTCA)	NA	NA	NA	0.800 U	NA	NA	0.800 U	NA	0.800 U	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NA	NA	NA	0.400 U	NA	NA	0.400 U	NA	0.400 U	NA	NA	NA	NA
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	NA	NA	NA	0.800 U	NA	NA	0.800 U	NA	0.800 U	NA	NA	NA	NA
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NA	NA	NA	16.0 J	NA	NA	48.0 J	NA	22.0	NA	NA	NA	NA
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NA	NA	NA	0.800 U	NA	NA	0.800 U	NA	0.800 U	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	NA	NA	NA	0.400 U	NA	NA	0.400 U	NA	0.400 U	NA	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	6	160	NA	0.400 U	NA	NA	0.400 U	NA	0.400 U	NA	NA	NA	NA
N-Ethyl perfluorooctanesulfonamide (NEtFOSA)	NA	NA	NA	0.800 UJ	NA	NA	0.800 U	NA	0.800 U	NA	NA	NA	NA
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NA	NA	NA	0.200 U	NA	NA	0.200 U	NA	0.200 U	NA	NA	NA	NA
N-Ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NA	NA	NA	1.20 U	NA	NA	1.20 U	NA	1.20 U	NA	NA	NA	NA
N-Methyl heptafluorooctanesulfonamide (NMeFOSA)	NA	NA	NA	0.800 U	NA	NA	0.800 U	NA	0.800 U	NA	NA	NA	NA
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NA	NA	NA	0.200 U	NA	NA	0.200 U	NA	0.200 U	NA	NA	NA	NA
N-Methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NA	NA	NA	1.20 U	NA	NA	1.20 U	NA	1.20 U	NA	NA	NA	NA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NA	NA	NA	0.400 U	NA	NA	0.400 U	NA	0.400 U	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NA	NA	NA	0.400 U	NA	NA	0.400 U	NA	0.400 U	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NA	NA	NA	0.400 U	NA	NA	0.400 U	NA	0.400 U	NA	NA	NA	NA

**Table X-X**  
**AFFF Assessment Sampling GW 2022 December**  
**Chemistry Results - Non-Approved**  
RH Fire Suppression System

Location ID:	RHMW17D	RHMW17D	RHMW17D	RHMW2254-01	RHMW2254-01
Field Sample ID:	AF-RHMW17D- WGN01B-2212W2	AF-RHMW17D- WGN02B-2212W2	AF-RHMW17D- WGN01LF-2212W3	AF-RHMW225401- WGN01B-2212W1	AF-RHMW225401- WGN01B-2212W3
Lab Sample ID:	22L0134-02	22L0134-03	580-121547-1	22L0023-10	22L0141-03
Sample Date:	12/16/2022	12/16/2022	12/22/2022	12/2/2022	12/19/2022
Sample Type:	N	N	N	N	N

PFAS (NG/L)	2022 Nov EPA Tapwater (THQ 0.1)	Hawaii Department of Health Ground Water Environmental Action Levels (Table A) PFAS					
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	NA	NA	0.390 U	0.380 U	NA	0.370 U	0.360 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NA	NA	0.780 U	0.760 U	NA	0.730 U	0.710 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NA	NA	0.780 U	0.760 U	NA	0.730 U	0.710 U
3-Perfluoropropyl propanoic acid (3:3FTCA)	NA	NA	0.780 U	0.760 U	NA	0.730 U	0.710 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NA	NA	0.390 U	0.380 U	NA	0.370 U	0.360 U
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	NA	NA	0.780 U	0.760 U	NA	0.730 U	0.710 U
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NA	NA	<b>120 J</b>	<b>54.0 J</b>	NA	<b>0.470 J</b>	0.710 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NA	NA	0.780 U	0.760 U	NA	0.730 U	0.710 U
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	NA	NA	0.390 U	0.380 U	NA	0.370 U	0.360 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	6	160	0.390 U	0.380 U	NA	0.370 U	0.360 U
N-Ethyl perfluorooctanesulfonamide (NEtFOSA)	NA	NA	0.780 UJ	0.760 U	NA	0.730 U	0.710 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NA	NA	0.200 U	0.190 U	NA	0.180 U	0.180 U
N-Ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NA	NA	1.20 UJ	1.10 U	NA	1.10 U	1.10 U
N-Methyl heptafluorooctanesulfonamide (NMeFOSA)	NA	NA	0.780 UJ	0.760 U	NA	0.730 U	0.710 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NA	NA	0.200 U	0.190 U	NA	0.180 U	0.180 U
N-Methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NA	NA	1.20 UJ	1.10 U	NA	1.10 U	1.10 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NA	NA	0.390 U	0.380 U	NA	0.370 U	0.360 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NA	NA	0.390 U	0.380 U	NA	0.370 U	0.360 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	NA	NA	0.390 U	0.380 U	NA	0.370 X	0.360 U

**Table X-X**  
**AFFF Assessment Sampling GW 2022 December**  
**Chemistry Results - Non-Approved**  
RH Fire Suppression System

Location ID:	RHMW02	RHMW03	RHMW04	RHMW04	RHMW04	RHMW06	RHMW06	RHMW06	RHMW10	RHMW10
Field Sample ID:	AF-RHMW02-WGN01LF-2212W3	AF-RHMW03-WGN01LF-2212W3	AF-RHMW04-WGN01LF-2212W1	AF-RHMW04-WGN01B-2212W2	AF-RHMW04-WGN01LF-2212W3	AF-RHMW06-WGN01B-2212W1	AF-RHMW06-WGN01B-2212W2	AF-RHMW06-WGN01LF-2212W3	AF-RHMW10-WGN01B-2212W1	AF-RHMW10-WGN01B-2212W1
Lab Sample ID:	22L0141-01	22L0141-02	580-121306-1	580-121381-1	580-121547-4	580-121247-2	580-121385-2	580-121547-3	22L0078-02	580-121247-4
Sample Date:	12/19/2022	12/19/2022	12/7/2022	12/15/2022	12/22/2022	12/8/2022	12/14/2022	12/22/2022	12/11/2022	12/11/2022
Sample Type:	N	N	N	N	N	N	N	N	N	N

PFAS (NG/L)	Hawaii Department of Health Ground Water Environmental Action Levels (Table A) PFAS											
	2022 Nov EPA Tapwater (THQ 0.1)											
Perfluoro-4-methoxybutanoic acid (PFMBA)	NA	NA	0.340 U	0.350 U	NA	NA	NA	NA	NA	NA	0.110 J	NA
Perfluorobutanesulfonic acid	600	602	0.170 U	0.180 U	NA	NA	NA	NA	NA	NA	0.110 J	NA
Perfluorobutanoic acid (PFBA)	NA	7,621	0.690 U	2.90	NA	NA	NA	NA	NA	NA	48.0	NA
Perfluorodecanesulfonic acid (PFDS)	NA	20.1	0.170 U	0.180 U	NA	NA	NA	NA	NA	NA	0.200 U	NA
Perfluorodecanoic acid (PFDA)	NA	4.01	0.170 U	0.120 J	NA	NA	NA	NA	NA	NA	0.790	NA
Perfluorododecanesulfonic acid (PFDoS)	NA	NA	0.170 U	0.180 U	NA	NA	NA	NA	NA	NA	0.200 U	NA
Perfluorododecanoic acid (PFDoA)	NA	13.4	0.170 U	0.120 J	NA	NA	NA	NA	NA	NA	0.470	NA
Perfluoroheptanesulfonic acid (PFHpS)	NA	20.1	0.170 U	0.180 U	NA	NA	NA	NA	NA	NA	0.200 U	NA
Perfluoroheptanoic acid (PFHpA)	NA	40.1	0.200 J	1.10	NA	NA	NA	NA	NA	NA	2.90	NA
Perfluorohexanesulfonic acid	39	19.5	0.0360 J	0.0390 J	NA	NA	NA	NA	NA	NA	0.0680 J	NA
Perfluorohexanoic acid (PFHxA)	NA	4,011	0.240 J	1.40	NA	NA	NA	NA	NA	NA	5.60	NA
Perfluorononanesulfonic acid (PFNS)	NA	NA	0.170 U	0.180 U	NA	NA	NA	NA	NA	NA	0.200 U	NA
Perfluorononanoic acid (PFNA)	5.9	4.41	0.170 U	0.170 J	NA	NA	NA	NA	NA	NA	2.20	NA
Perfluorooctanesulfonamide (PFOSA)	NA	24.1	0.170 U	0.180 U	NA	NA	NA	NA	NA	NA	0.200 U	NA
Perfluorooctanesulfonic acid (PFOS)	4	40.1	0.170 U	0.180 U	NA	NA	NA	NA	NA	NA	0.410 J	NA
Perfluorooctanoic acid (PFOA)	6	40.1	0.170 U	0.320 J	NA	NA	NA	NA	NA	NA	1.60	NA
Perfluoropentanesulfonic acid (PFPeS)	NA	NA	0.170 U	0.180 U	NA	NA	NA	NA	NA	NA	0.200 U	NA
Perfluoropentanoic acid (PFPeA)	NA	802	1.40	3.70	NA	NA	NA	NA	NA	NA	43.0	NA
Perfluorotetradecanoic acid (PFTeDA)	NA	134	0.170 U	0.180 U	NA	NA	NA	NA	NA	NA	0.200 U	NA
Perfluorotridecanoic acid (PFTTrDA)	NA	13.4	0.260 U	0.260 U	NA	NA	NA	NA	NA	NA	0.450	NA
Perfluoroundecanoic acid (PFUnA)	NA	10	0.170 U	0.180 J	NA	NA	NA	NA	NA	NA	0.990	NA

SVOC (MG/L)	Hawaii Department of Health Ground Water Environmental Action Levels (Table A) PFAS											
	2022 Nov EPA Tapwater (THQ 0.1)											
2-(2-Butoxyethoxy)ethanol	0.06	NA	NA	NA	3.00 X	3.00 X	3.00 U	3.00 X	3.00 X	3.00 U	NA	3.00 U

**Notes:**  
Results highlighted blue exceed the first selected limit.  
Results highlighted pink exceed the second selected limit.  
Results highlighted purple exceed both limits.

NG/L = Nanograms per Liter

**Table X-X**  
**AFFF Assessment Sampling GW 2022 December**  
**Chemistry Results - Non-Approved**  
RH Fire Suppression System

Location ID:	RHMW10	RHMW12A	RHMW12A	RHMW12A	RHMW16	RHMW16	RHMW16	RHMW17	RHMW17	RHMW17
Field Sample ID:	AF-RHMW10-WGN01B-2212W2	AF-RHMW12A-WGN01B-2212W1	AF-RHMW12A-WGN01B-2212W1	AF-RHMW12A-WGN01B-2212W2	AF-RHMW16-WGN01B-2212W1	AF-RHMW16-WGN01B-2212W1	AF-RHMW16-WGN01B-2212W2	AF-RHMW17-WGN01LF-2212W1	AF-RHMW17-WGN01B-2212W2	AF-RHMW17-WGN01LF-2212W3
Lab Sample ID:	580-121381-2	22L0078-01	580-121247-5	580-121385-1	22L0078-03	580-121247-1	22L0134-01	580-121306-2	580-121295-1	580-121547-2
Sample Date:	12/15/2022	12/9/2022	12/9/2022	12/14/2022	12/10/2022	12/10/2022	12/16/2022	12/7/2022	12/13/2022	12/22/2022
Sample Type:	N	N	N	N	N	N	N	N	N	N

PFAS (NG/L)	Hawaii Department of Health Ground Water Environmental Action Levels (Table A) PFAS											
	2022 Nov EPA Tapwater (THQ 0.1)											
Perfluoro-4-methoxybutanoic acid (PFMBA)	NA	NA	NA	0.400 U	NA	NA	0.400 U	NA	0.400 U	NA	NA	NA
Perfluorobutanesulfonic acid	600	602	NA	<b>0.0550 J</b>	NA	NA	0.200 U	NA	<b>0.0590 J</b>	NA	NA	NA
Perfluorobutanoic acid (PFBA)	NA	7,621	NA	<b>19.0</b>	NA	NA	<b>15.0</b>	NA	<b>8.50</b>	NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	NA	20.1	NA	0.200 U	NA	NA	0.200 U	NA	0.200 U	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NA	4.01	NA	0.200 U	NA	NA	<b>0.100 J</b>	NA	0.200 U	NA	NA	NA
Perfluorododecanesulfonic acid (PFDoS)	NA	NA	NA	0.200 U	NA	NA	0.200 U	NA	0.200 U	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NA	13.4	NA	0.200 U	NA	NA	<b>0.110 J</b>	NA	0.200 U	NA	NA	NA
Perfluoroheptanesulfonic acid (PFHpS)	NA	20.1	NA	0.200 U	NA	NA	0.200 U	NA	0.200 U	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NA	40.1	NA	<b>1.50</b>	NA	NA	<b>1.70 J</b>	NA	<b>1.50</b>	NA	NA	NA
Perfluorohexanesulfonic acid	39	19.5	NA	0.200 U	NA	NA	<b>0.0440 J</b>	NA	0.200 U	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NA	4,011	NA	<b>7.70</b>	NA	NA	<b>4.40</b>	NA	<b>2.80</b>	NA	NA	NA
Perfluorononanesulfonic acid (PFNS)	NA	NA	NA	0.200 U	NA	NA	0.200 U	NA	0.200 U	NA	NA	NA
Perfluorononanoic acid (PFNA)	5.9	4.41	NA	<b>0.140 J</b>	NA	NA	<b>0.150 J</b>	NA	<b>0.0850 J</b>	NA	NA	NA
Perfluorooctanesulfonamide (PFOSA)	NA	24.1	NA	<b>0.890</b>	NA	NA	<b>0.130 J</b>	NA	0.200 U	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	4	40.1	NA	0.200 U	NA	NA	0.200 U	NA	0.200 U	NA	NA	NA
Perfluorooctanoic acid (PFOA)	6	40.1	NA	<b>0.400</b>	NA	NA	<b>0.400</b>	NA	<b>0.320 J</b>	NA	NA	NA
Perfluoropentanesulfonic acid (PFPeS)	NA	NA	NA	0.200 U	NA	NA	0.200 U	NA	0.200 U	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	NA	802	NA	<b>34.0</b>	NA	NA	<b>25.0</b>	NA	<b>15.0</b>	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	NA	134	NA	0.200 U	NA	NA	0.200 U	NA	0.200 U	NA	NA	NA
Perfluorotridecanoic acid (PFTrDA)	NA	13.4	NA	0.300 U	NA	NA	0.300 U	NA	0.300 U	NA	NA	NA
Perfluoroundecanoic acid (PFUnA)	NA	10	NA	0.200 U	NA	NA	0.200 U	NA	0.200 U	NA	NA	NA

SVOC (MG/L)	Hawaii Department of Health Ground Water Environmental Action Levels (Table A) PFAS											
	2022 Nov EPA Tapwater (THQ 0.1)											
2-(2-Butoxyethoxy)ethanol	0.06	NA	3.00 X	NA	3.00 UJ	3.00 X	NA	3.00 U	NA	3.00 X	3.00 U	3.00 U

**Table X-X**  
**AFFF Assessment Sampling GW 2022 December**  
**Chemistry Results - Non-Approved**  
RH Fire Suppression System

Location ID:	RHMW17D	RHMW17D	RHMW17D	RHMW2254-01	RHMW2254-01
Field Sample ID:	AF-RHMW17D- WGN01B-2212W2	AF-RHMW17D- WGN02B-2212W2	AF-RHMW17D- WGN01LF-2212W3	AF-RHMW225401- WGN01B-2212W1	AF-RHMW225401- WGN01B-2212W3
Lab Sample ID:	22L0134-02	22L0134-03	580-121547-1	22L0023-10	22L0141-03
Sample Date:	12/16/2022	12/16/2022	12/22/2022	12/2/2022	12/19/2022
Sample Type:	N	N	N	N	N

	Hawaii Department of Health Ground Water Environmental Action Levels (Table A) PFAS						
PFAS (NG/L)	2022 Nov EPA Tapwater (THQ 0.1)						
Perfluoro-4-methoxybutanoic acid (PFMBA)	NA	NA	0.390 U	0.380 U	NA	0.370 U	0.360 U
Perfluorobutanesulfonic acid	600	602	<b>0.160 J</b>	<b>0.110 J</b>	NA	<b>0.660</b>	<b>0.680</b>
Perfluorobutanoic acid (PFBA)	NA	7,621	0.780 U	0.760 U	NA	<b>0.540 J</b>	<b>0.600 J</b>
Perfluorodecanesulfonic acid (PFDS)	NA	20.1	0.200 U	0.190 U	NA	0.180 U	0.180 U
Perfluorodecanoic acid (PFDA)	NA	4.01	<b>0.430</b>	<b>0.160 J</b>	NA	0.180 U	0.180 U
Perfluorododecanesulfonic acid (PFDoS)	NA	NA	0.200 U	0.190 U	NA	0.180 U	0.180 U
Perfluorododecanoic acid (PFDoA)	NA	13.4	<b>0.270 J</b>	0.190 U	NA	0.180 U	0.180 U
Perfluoroheptanesulfonic acid (PFHpS)	NA	20.1	0.200 U	0.190 U	NA	<b>0.0550 J</b>	0.180 U
Perfluoroheptanoic acid (PFHpA)	NA	40.1	<b>0.290 J</b>	<b>0.200 J</b>	NA	<b>0.820</b>	<b>0.730</b>
Perfluorohexanesulfonic acid	39	19.5	<b>0.150 J</b>	<b>0.0910 J</b>	NA	<b>1.10</b>	<b>1.20</b>
Perfluorohexanoic acid (PFHxA)	NA	4,011	<b>1.60</b>	<b>0.830</b>	NA	<b>0.950</b>	<b>0.960</b>
Perfluorononanesulfonic acid (PFNS)	NA	NA	0.200 U	0.190 U	NA	0.180 U	0.180 U
Perfluorononanoic acid (PFNA)	5.9	4.41	<b>0.330 J</b>	<b>0.140 J</b>	NA	<b>0.150 J</b>	<b>0.180 J</b>
Perfluorooctanesulfonamide (PFOSA)	NA	24.1	<b>0.110 J</b>	0.190 U	NA	0.180 U	0.180 U
Perfluorooctanesulfonic acid (PFOS)	4	40.1	<b>1.10</b>	<b>0.530</b>	NA	<b>1.10</b>	<b>0.980</b>
Perfluorooctanoic acid (PFOA)	6	40.1	<b>0.790</b>	<b>0.360 J</b>	NA	<b>1.20</b>	<b>1.00</b>
Perfluoropentanesulfonic acid (PFPeS)	NA	NA	0.200 U	0.190 U	NA	<b>0.130 J</b>	<b>0.110 J</b>
Perfluoropentanoic acid (PFPeA)	NA	802	<b>0.940</b>	<b>0.700 J</b>	NA	<b>1.20</b>	<b>1.20</b>
Perfluorotetradecanoic acid (PFTeDA)	NA	134	<b>0.230 J</b>	0.190 U	NA	0.180 U	0.180 U
Perfluorotridecanoic acid (PFTTrDA)	NA	13.4	0.290 U	0.290 U	NA	0.270 U	0.270 U
Perfluoroundecanoic acid (PFUnA)	NA	10	0.200 U	0.190 U	NA	0.180 U	0.180 U

	Hawaii Department of Health Ground Water Environmental Action Levels (Table A) PFAS						
SVOC (MG/L)	2022 Nov EPA Tapwater (THQ 0.1)						
2-(2-Butoxyethoxy)ethanol	0.06	NA	NA	NA	3.00 U	NA	NA