Naval Facilities Engineering Command

Groundwater Sample Results, Electronic Data Deliverable, Data Validation Report, Sample Location Report, SDG C0G5477

NS

Treasure Island, CA

April 2021

CONTRACT ID	DO CTO NUMBER	PHASE	INSTALLATION ID	SAMPLE NAME	ANALYTICAL METHOD	LAB NAME	CONTRACTOR NAME	LEACHATE METHOD	SAMPLE BASIS	EXTRACTION METHOD	RESULT TYPE	SAMPLE MEDIUM	CLEANUP METHOD	QC LEVEL	LEACHATE DATE	LEACHATE TIME	EXTRACTION DATE	EXTRACTION TIME	ANALYSIS DATE	ANALYSIS TIME	LAB SAMPLE ID	LAB REPORT DATE	LAB REPORT NUMBER	FILTER SIZE	DILUTION	RUN NUMBER	PERCENT MOISTURE	PERCENT LIPID	ANALYTE ID	PARNAME	ANALYTE VALUE
N62473-16-C-2	0000	QTR3 20	00006	06-MW25-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:00:00	NAH700	20200720	C0G5477		5.00	1			4151-50-2	N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	0.095
N62473-16-C-2	0000	QTR3 20	00006	06-MW25-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:00:00	NAH700	20200720	C0G5477		5.00	1			31506-32-8	N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	0.050
N62473-16-C-2	0000	QTR3 20	00006	06-MW25-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:00:00	NAH700	20200720	C0G5477		5.00	1			375-73-5	PERFLUOROBUTANESULFONIC ACID (PFBS)	0.14
N62473-16-C-2	0000	QTR3 20	00006	06-MW25-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:00:00	NAH700	20200720	C0G5477		5.00	1			335-76-2	PERFLUORODECANOIC ACID (PFDA)	0.030
N62473-16-C-2	0000	QTR3 20	00006	06-MW25-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:00:00	NAH700	20200720	C0G5477		5.00	1			307-55-1	PERFLUORODODECANOIC ACID (PFDOA)	0.075
N62473-16-C-2	0000	QTR3 20	00006	06-MW25-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:00:00	NAH700	20200720	C0G5477		5.00	1			375-85-9	PERFLUOROHEPTANOIC ACID (PFHPA)	0.49
N62473-16-C-2	0000	QTR3 20	00006	06-MW25-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:00:00	NAH700	20200720	C0G5477		5.00	1			307-24-4	PERFLUOROHEXANOIC ACID (PFHXA)	2.1
N62473-16-C-2	0000	QTR3 20	00006	06-MW25-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:00:00	NAH700	20200720	C0G5477		5.00	1			355-46-4	PERFLUOROHEXANESULFONIC ACID (PFHXS)	1.8
N62473-16-C-2	0000	QTR3 20	00006	06-MW25-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:00:00	NAH700	20200720	C0G5477		5.00	1			375-95-1	PERFLUORONONANOIC ACID (PFNA)	0.093
N62473-16-C-2	0000	QTR3 20	00006	06-MW25-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:00:00	NAH700	20200720	C0G5477		5.00	1			335-67-1	PERFLUOROOCTANOIC ACID (PFOA)	1.8
N62473-16-C-2	0000	QTR3 20	00006	06-MW25-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:00:00	NAH700	20200720	C0G5477		5.00	1			1763-23-1	PERFLUOROOCTANESULFONIC ACID (PFOS)	14
N62473-16-C-2	0000	QTR3 20	00006	06-MW25-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:00:00	NAH700	20200720	C0G5477		5.00	1			376-06-7	PERFLUOROTETRADECANOIC ACID (PFTEDA)	0.075
N62473-16-C-2	0000	QTR3 20	00006	06-MW25-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:00:00	NAH700	20200720	C0G5477		5.00	1			72629-94-8	PERLUOROTRIDECANOIC ACID (PFTRA)	0.075
N62473-16-C-2	0000	QTR3 20	00006	06-MW25-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:00:00	NAH700	20200720	C0G5477		5.00	1			2058-94-8	PERFLUOROUNDECANOIC ACID (PFUNA)	0.050
N62473-16-C-2	0000	QTR3 20	00006	06-MW26-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:28:00	NAH701	20200720	C0G5477		1.10	1			4151-50-2	N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	0.021
N62473-16-C-2	0000	QTR3 20	00006	06-MW26-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:28:00	NAH701	20200720	C0G5477		1.10	1			31506-32-8	N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	0.011
N62473-16-C-2	0000	QTR3 20	00006	06-MW26-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:28:00	NAH701	20200720	C0G5477		1.10	1			375-73-5	PERFLUOROBUTANESULFONIC ACID (PFBS)	0.027
N62473-16-C-2	0000	QTR3 20	00006	06-MW26-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:28:00	NAH701	20200720	C0G5477		1.10	1			335-76-2	PERFLUORODECANOIC ACID (PFDA)	0.011
N62473-16-C-2	0000	QTR3 20	00006	06-MW26-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:28:00	NAH701	20200720	C0G5477		1.10	1			307-55-1	PERFLUORODODECANOIC ACID (PFDOA)	0.017
N62473-16-C-2	0000	QTR3 20	00006	06-MW26-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:28:00	NAH701	20200720	C0G5477		1.10	1			375-85-9	PERFLUOROHEPTANOIC ACID (PFHPA)	0.15
N62473-16-C-2	0000	QTR3 20	00006	06-MW26-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:28:00	NAH701	20200720	C0G5477		1.10	1			307-24-4	PERFLUOROHEXANOIC ACID (PFHXA)	0.26
N62473-16-C-2	0000	QTR3 20	00006	06-MW26-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:28:00	NAH701	20200720	C0G5477		1.10	1			355-46-4	PERFLUOROHEXANESULFONIC ACID (PFHXS)	0.62
N62473-16-C-2	0000	QTR3 20	00006	06-MW26-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:28:00	NAH701	20200720	C0G5477		1.10	1			375-95-1	PERFLUORONONANOIC ACID (PFNA)	0.021
N62473-16-C-2	0000	QTR3 20	00006	06-MW26-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:28:00	NAH701	20200720	C0G5477		1.10	1			335-67-1	PERFLUOROOCTANOIC ACID (PFOA)	0.44
N62473-16-C-2	0000	QTR3 20	00006	06-MW26-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:28:00	NAH701	20200720	C0G5477		1.10	1			1763-23-1	PERFLUOROOCTANESULFONIC ACID (PFOS)	1.8
N62473-16-C-2	0000	QTR3 20	00006	06-MW26-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:28:00	NAH701	20200720	C0G5477		1.10	1			376-06-7	PERFLUOROTETRADECANOIC ACID (PFTEDA)	0.017
N62473-16-C-2	0000	QTR3 20	00006	06-MW26-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:28:00	NAH701	20200720	C0G5477		1.10	1			72629-94-8	PERLUOROTRIDECANOIC ACID (PFTRA)	0.017
N62473-16-C-2	0000	QTR3 20	00006	06-MW26-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	14:28:00	NAH701	20200720	C0G5477		1.10	1			2058-94-8	PERFLUOROUNDECANOIC ACID (PFUNA)	0.011
N62473-16-C-2	0000	QTR3 20	00006	06-MW30-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	14:48:00	NAH702	20200720	C0G5477		1.00	1			4151-50-2	N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	0.019
N62473-16-C-2	0000	QTR3 20	00006	06-MW30-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	14:48:00	NAH702	20200720	C0G5477		1.00	1			31506-32-8	N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	0.010
N62473-16-C-2	0000	QTR3 20	00006	06-MW30-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	14:48:00	NAH702	20200720	C0G5477		1.00	1			375-73-5	PERFLUOROBUTANESULFONIC ACID (PFBS)	0.0067
N62473-16-C-2	0000	QTR3 20	00006	06-MW30-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	14:48:00	NAH702	20200720	C0G5477		1.00	1			335-76-2	PERFLUORODECANOIC ACID (PFDA)	0.010
N62473-16-C-2	0000	QTR3 20	00006	06-MW30-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	14:48:00	NAH702	20200720	C0G5477		1.00	1			307-55-1	PERFLUORODODECANOIC ACID (PFDOA)	0.015
N62473-16-C-2	0000	QTR3 20	00006	06-MW30-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	14:48:00	NAH702	20200720	C0G5477		1.00	1			375-85-9	PERFLUOROHEPTANOIC ACID (PFHPA)	0.015
N62473-16-C-2	0000	QTR3 20	00006	06-MW30-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	14:48:00	NAH702	20200720	C0G5477		1.00	1			307-24-4	PERFLUOROHEXANOIC ACID (PFHXA)	0.0076
N62473-16-C-2	0000	QTR3 20	00006	06-MW30-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	14:48:00	NAH702	20200720	C0G5477		1.00	1			355-46-4	PERFLUOROHEXANESULFONIC ACID (PFHXS)	0.023
N62473-16-C-2	0000	QTR3 20	00006	06-MW30-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	14:48:00	NAH702	20200720	C0G5477		1.00	1			375-95-1	PERFLUORONONANOIC ACID (PFNA)	0.010
N62473-16-C-2	0000	QTR3 20	00006	06-MW30-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	14:48:00	NAH702	20200720	C0G5477		1.00	1			335-67-1	PERFLUOROOCTANOIC ACID (PFOA)	0.023
N62473-16-C-2	0000	QTR3 20	00006	06-MW30-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	14:48:00	NAH702	20200720	C0G5477		1.00	1			1763-23-1	PERFLUOROOCTANESULFONIC ACID (PFOS)	0.050
N62473-16-C-2	0000	QTR3 20	00006	06-MW30-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	14:48:00	NAH702	20200720	C0G5477		1.00	1			376-06-7	PERFLUOROTETRADECANOIC ACID (PFTEDA)	0.015
N62473-16-C-2	0000	QTR3 20	00006	06-MW30-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	14:48:00	NAH702	20200720	C0G5477		1.00	1			72629-94-8	PERLUOROTRIDECANOIC ACID (PFTRA)	0.015
N62473-16-C-2	0000	QTR3 20	00006	06-MW30-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	14:48:00	NAH702	20200720	C0G5477		1.00	1			2058-94-8	PERFLUOROUNDECANOIC ACID (PFUNA)	0.010
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH703	20200720	C0G5477		1.10	1			4151-50-2	N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	0.021
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH703	20200720	C0G5477		1.10	1			31506-32-8	N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	0.011
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH703	20200720	C0G5477		1.10	1			375-73-5	PERFLUOROBUTANESULFONIC ACID (PFBS)	0.12
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH703	20200720	C0G5477		1.10	1			335-76-2	PERFLUORODECANOIC ACID (PFDA)	0.010
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH703	20200720	C0G5477		1.10	1			307-55-1	PERFLUORODODECANOIC ACID (PFDOA)	0.017
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH703	20200720	C0G5477		1.10	1			375-85-9	PERFLUOROHEPTANOIC ACID (PFHPA)	0.51
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH703	20200720	C0G5477		1.10	1			307-24-4	PERFLUOROHEXANOIC ACID (PFHXA)	1.1
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH703	20200720	C0G5477		1.10	1			355-46-4	PERFLUOROHEXANESULFONIC ACID (PFHXS)	4.1
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH703	20200720	C0G5477		1.10	1			375-95-1	PERFLUORONONANOIC ACID (PFNA)	0.049
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH703	20200720	C0G5477		1.10	1			335-67-1	PERFLUOROOCTANOIC ACID (PFOA)	0.38
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH703	20200720	C0G5477		1.10	1			1763-23-1	PERFLUOROOCTANESULFONIC ACID (PFOS)	1.9
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH703	20200720	C0G5477		1.10	1			376-06-7	PERFLUOROTETRADECANOIC ACID (PFTEDA)	0.017
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH703	20200720	C0G5477		1.10	1			72629-94-8	PERLUOROTRIDECANOIC ACID (PFTRA)	0.017
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH703	20200720	C0G5477		1.10	1			2058-94-8	PERFLUOROUNDECANOIC ACID (PFUNA)	0.011
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620 DUP	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH705	20200720	C0G5477		1.05	1			4151-50-2	N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	0.020
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620 DUP	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH705	20200720	C0G5477		1.05	1			31506-32-8	N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	0.011
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620 DUP	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH705	20200720	C0G5477		1.05	1			375-73-5	PERFLUOROBUTANESULFONIC ACID (PFBS)	0.14
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620 DUP	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH705	20200720	C0G5477		1.05	1			335-76-2	PERFLUORODECANOIC ACID (PFDA)	0.011
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620 DUP	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH705	20200720	C0G5477		1.05	1			307-55-1	PERFLUORODODECANOIC ACID (PFDOA)	0.016
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620 DUP	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH705	20200720	C0G5477		1.05	1			375-85-9	PERFLUOROHEPTANOIC ACID (PFHPA)	0.54
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620 DUP	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH705	20200720	C0G5477		1.05	1			307-24-4	PERFLUOROHEXANOIC ACID (PFHXA)	1.1
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620 DUP	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH705	20200720	C0G5477		1.05	1			355-46-4	PERFLUOROHEXANESULFONIC ACID (PFHXS)	4.1
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620 DUP	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH705	20200720	C0G5477		1.05	1			375-95-1	PERFLUORONONANOIC ACID (PFNA)	0.051
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620 DUP	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH705	20200720	C0G5477		1.05	1			335-67-1	PERFLUOROOCTANOIC ACID (PFOA)	0.39
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620 DUP	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH705	20200720	C0G5477		1.05	1			1763-23-1	PERFLUOROOCTANESULFONIC ACID (PFOS)	1.4
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620 DUP	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH705	20200720	C0G5477		1.05	1			376-06-7	PERFLUOROTETRADECANOIC ACID (PFTEDA)	0.016
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620 DUP	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH705	20200720	C0G5477		1.05	1			72629-94-8	PERLUOROTRIDECANOIC ACID (PFTRA)	0.016
N62473-16-C-2	0000	QTR3 20	00006	06-MW31-0620 DUP	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH705	20200720	C0G5477		1.05	1			2058-94-8	PERFLUOROUNDECANOIC ACID (PFUNA)	0.011
N62473-16-C-2	0000	QTR3 20	00006	06-MW32-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH706	20200720	C0G5477		5.00	1			4151-50-2	N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	0.095
N62473-16-C-2	0000	QTR3 20	00006	06-MW32-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH706	20200720	C0G5477		5.00	1			31506-32-8	N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	0.050
N62473-16-C-2	0000	QTR3 20	00006	06-MW32-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH706	20200720	C0G5477		5.00	1			375-73-5	PERFLUOROBUTANESULFONIC ACID (PFBS)	0.11
N62473-16-C-2	0000	QTR3 20	00006	06-MW32-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH706	20200720	C0G5477		5.00	1			335-76-2	PERFLUORODECANOIC ACID (PFDA)	0.025
N62473-16-C-2	0000	QTR3 20	00006	06-MW32-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH706	20200720	C0G5477		5.00	1			307-55-1	PERFLUORODODECANOIC ACID (PFDOA)	0.075
N62473-16-C-2	0000	QTR3 20	00006	06-MW32-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH706	20200720	C0G5477		5.00	1			375-85-9	PERFLUOROHEPTANOIC ACID (PFHPA)	0.90
N62473-16-C-2	0000	QTR3 20	00006	06-MW32-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH706	20200720	C0G5477		5.00	1			307-24-4	PERFLUOROHEXANOIC ACID (PFHXA)	1.3
N62473-16-C-2	0000	QTR3 20	00006	06-MW32-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH706	20200720	C0G5477		5.00	1			355-46-4	PERFLUOROHEXANESULFONIC ACID (PFHXS)	6.9
N62473-16-C-2	0000	QTR3 20	00006	06-MW32-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH706	20200720	C0G5477		5.00	1			375-95-1	PERFLUORONONANOIC ACID (PFNA)	0.098
N62473-16-C-2	0000	QTR3 20	00006	06-MW32-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH706	20200720	C0G5477		5.00	1			335-67-1	PERFLUOROOCTANOIC ACID (PFOA)	0.99
N62473-16-C-2	0000	QTR3 20	00006	06-MW32-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH706	20200720	C0G5477		5.00	1			1763-23-1	PERFLUOROOCTANESULFONIC ACID (PFOS)	18
N62473-16-C-2	0000	QTR3 20	00006	06-MW32-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH706	20200720	C0G5477		5.00	1			376-06-7	PERFLUOROTETRADECANOIC ACID (PFTEDA)	0.075
N62473-16-C-2	0000	QTR3 20	00006	06-MW32-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH706	20200720	C0G5477		5.00	1			72629-94-8	PERLUOROTRIDECANOIC ACID (PFTRA)	0.075
N62473-16-C-2	0000	QTR3 20	00006	06-MW32-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH706	20200720	C0G5477		5.00	1			2058-94-8	PERFLUOROUNDECANOIC ACID (PFUNA)	0.050
N62473-16-C-2	0000	QTR3 20	00006	06-MW33-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH707	20200720	C0G5477		2.00	1			4151-50-2	N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	0.038
N62473-16-C-2	0000	QTR3 20	00006	06-MW33-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH707	20200720	C0G5477		2.00	1			31506-32-8	N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	0.020
N62473-16-C-2	0000	QTR3 20	00006	06-MW33-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH707	20200720	C0G5477		2.00	1			375-73-5	PERFLUOROBUTANESULFONIC ACID (PFBS)	0.097
N62473-16-C-2	0000	QTR3 20	00006	06-MW33-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH707	20200720	C0G5477		2.00	1			335-76-2	PERFLUORODECANOIC ACID (PFDA)	0.018
N62473-16-C-2	0000	QTR3 20	00006	06-MW33-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH707	20200720	C0G5477		2.00	1			307-55-1	PERFLUORODODECANOIC ACID (PFDOA)	0.030
N62473-16-C-2	0000	QTR3 20	00006	06-MW33-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH707	20200720	C0G5477		2.00	1			375-85-9	PERFLUOROHEPTANOIC ACID (PFHPA)	0.62
N62473-16-C-2	0000	QTR3 20	00006	06-MW33-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH707	20200720	C0G5477		2.00	1			307-24-4	PERFLUOROHEXANOIC ACID (PFHXA)	1.3
N62473-16-C-2	0000	QTR3 20	00006	06-MW33-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH707	20200720	C0G5477		2.00	1			355-46-4	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.7
N62473-16-C-2	0000	QTR3 20	00006	06-MW33-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH707	20200720	C0G5477		2.00	1			375-95-1	PERFLUORONONANOIC ACID (PFNA)	0.059
N62473-16-C-2	0000	QTR3 20	00006	06-MW33-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH707	20200720	C0G5477		2.00	1			335-67-1	PERFLUOROOCTANOIC ACID (PFOA)	1.5
N62473-16-C-2	0000	QTR3 20	00006	06-MW33-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH707	20200720	C0G5477		2.00	1			1763-23-1	PERFLUOROOCTANESULFONIC ACID (PFOS)	8.4
N62473-16-C-2	0000	QTR3 20	00006	06-MW33-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH707	20200720	C0G5477		2.00	1			376-06-7	PERFLUOROTETRADECANOIC ACID (PFTEDA)	0.030
N62473-16-C-2	0000	QTR3 20	00006	06-MW33-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH707	20200720	C0G5477		2.00	1			72629-94-8	PERLUOROTRIDECANOIC ACID (PFTRA)	0.030
N62473-16-C-2	0000	QTR3 20	00006	06-MW33-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	12:30:00	NAH707	20200720	C0G5477		2.00	1			2058-94-8	PERFLUOROUNDECANOIC ACID (PFUNA)	0.020
N62473-16-C-2	0000	QTR3 20	00006	06-MW34-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:26:00	NAH708	20200720	C0G5477		1.10	1			4151-50-2	N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	0.021
N62473-16-C-2	0000	QTR3 20	00006	06-MW34-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:26:00	NAH708	20200720	C0G5477		1.10	1			31506-32-8	N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	0.011
N62473-16-C-2	0000	QTR3 20	00006	06-MW34-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:26:00	NAH708	20200720	C0G5477		1.10	1			375-73-5	PERFLUOROBUTANESULFONIC ACID (PFBS)	0.031
N62473-16-C-2	0000	QTR3 20	00006	06-MW34-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:26:00	NAH708	20200720	C0G5477		1.10	1			335-76-2	PERFLUORODECANOIC ACID (PFDA)	0.0054
N62473-16-C-2	0000	QTR3 20	00006	06-MW34-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:26:00	NAH708	20200720	C0G5477		1.10	1			307-55-1	PERFLUORODODECANOIC ACID (PFDOA)	0.017
N62473-16-C-2	0000	QTR3 20	00006	06-MW34-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:26:00	NAH708	20200720	C0G5477		1.10	1			375-85-9	PERFLUOROHEPTANOIC ACID (PFHPA)	0.073
N62473-16-C-2	0000	QTR3 20	00006	06-MW34-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:26:00	NAH708	20200720	C0G5477		1.10	1			307-24-4	PERFLUOROHEXANOIC ACID (PFHXA)	0.19
N62473-16-C-2	0000	QTR3 20	00006	06-MW34-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:26:00	NAH708	20200720	C0G5477		1.10	1			355-46-4	PERFLUOROHEXANESULFONIC ACID (PFHXS)	0.72
N62473-16-C-2	0000	QTR3 20	00006	06-MW34-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:26:00	NAH708	20200720	C0G5477		1.10	1			375-95-1	PERFLUORONONANOIC ACID (PFNA)	0.015
N62473-16-C-2	0000	QTR3 20	00006	06-MW34-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:26:00	NAH708	20200720	C0G5477		1.10	1			335-67-1	PERFLUOROOCTANOIC ACID (PFOA)	0.16
N62473-16-C-2	0000	QTR3 20	00006	06-MW34-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:26:00	NAH708	20200720	C0G5477		1.10	1			1763-23-1	PERFLUOROOCTANESULFONIC ACID (PFOS)	1.9
N62473-16-C-2	0000	QTR3 20	00006	06-MW34-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:26:00	NAH708	20200720	C0G5477		1.10	1			376-06-7	PERFLUOROTETRADECANOIC ACID (PFTEDA)	0.017
N62473-16-C-2	0000	QTR3 20	00006	06-MW34-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:26:00	NAH708	20200720	C0G5477		1.10	1			72629-94-8	PERLUOROTRIDECANOIC ACID (PFTRA)	0.017
N62473-16-C-2	0000	QTR3 20	00006	06-MW34-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:26:00	NAH708	20200720	C0G5477		1.10	1			2058-94-8	PERFLUOROUNDECANOIC ACID (PFUNA)	0.011
N62473-16-C-2	0000	QTR3 20	00006	06-MW35-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:46:00	NAH709	20200720	C0G5477		1.05	1			4151-50-2	N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	0.020
N62473-16-C-2	0000	QTR3 20	00006	06-MW35-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:46:00	NAH709	20200720	C0G5477		1.05	1			31506-32-8	N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	0.011
N62473-16-C-2	0000	QTR3 20	00006	06-MW35-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:46:00	NAH709	20200720	C0G5477		1.05	1			375-73-5	PERFLUOROBUTANESULFONIC ACID (PFBS)	0.037
N62473-16-C-2	0000	QTR3 20	00006	06-MW35-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:46:00	NAH709	20200720	C0G5477		1.05	1			335-76-2	PERFLUORODECANOIC ACID (PFDA)	0.0068
N62473-16-C-2	0000	QTR3 20	00006	06-MW35-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:46:00	NAH709	20200720	C0G5477		1.05	1			307-55-1	PERFLUORODODECANOIC ACID (PFDOA)	0.016
N62473-16-C-2	0000	QTR3 20	00006	06-MW35-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:46:00	NAH709	20200720	C0G5477		1.05	1			375-85-9	PERFLUOROHEPTANOIC ACID (PFHPA)	0.13
N62473-16-C-2	0000	QTR3 20	00006	06-MW35-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:46:00	NAH709	20200720	C0G5477		1.05	1			307-24-4	PERFLUOROHEXANOIC ACID (PFHXA)	0.24
N62473-16-C-2	0000	QTR3 20	00006	06-MW35-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:46:00	NAH709	20200720	C0G5477		1.05	1			355-46-4	PERFLUOROHEXANESULFONIC ACID (PFHXS)	1.0
N62473-16-C-2	0000	QTR3 20	00006	06-MW35-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:46:00	NAH709	20200720	C0G5477		1.05	1			375-95-1	PERFLUORONONANOIC ACID (PFNA)	0.031
N62473-16-C-2	0000	QTR3 20	00006	06-MW35-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:46:00	NAH709	20200720	C0G5477		1.05	1			335-67-1	PERFLUOROOCTANOIC ACID (PFOA)	0.18
N62473-16-C-2	0000	QTR3 20	00006	06-MW35-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:46:00	NAH709	20200720	C0G5477		1.05	1			1763-23-1	PERFLUOROOCTANESULFONIC ACID (PFOS)	2.9
N62473-16-C-2	0000	QTR3 20	00006	06-MW35-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:46:00	NAH709	20200720	C0G5477		1.05	1			376-06-7	PERFLUOROTETRADECANOIC ACID (PFTEDA)	0.016
N62473-16-C-2	0000	QTR3 20	00006	06-MW35-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:46:00	NAH709	20200720	C0G5477		1.05	1			72629-94-8	PERLUOROTRIDECANOIC ACID (PFTRA)	0.016
N62473-16-C-2	0000	QTR3 20	00006	06-MW35-0620	537 MOD	Maxxam Analytics			NA		DL1			4			20200706	12:32:37	20200708	16:46:00	NAH709	20200720	C0G5477		1.05	1			2058-94-8	PERFLUOROUNDECANOIC ACID (PFUNA)	0.011
N62473-16-C-2	0000	QTR3 20	00006	06-MW36-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:07:00	NAH710	20200720	C0G5477		1.00	1			4151-50-2	N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	0.019
N62473-16-C-2	0000	QTR3 20	00006	06-MW36-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:07:00	NAH710	20200720	C0G5477		1.00	1			31506-32-8	N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	0.010
N62473-16-C-2	0000	QTR3 20	00006	06-MW36-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:07:00	NAH710	20200720	C0G5477		1.00	1			375-73-5	PERFLUOROBUTANESULFONIC ACID (PFBS)	0.028
N62473-16-C-2	0000	QTR3 20	00006	06-MW36-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:07:00	NAH710	20200720	C0G5477		1.00	1			335-76-2	PERFLUORODECANOIC ACID (PFDA)	0.0047
N62473-16-C-2	0000	QTR3 20	00006	06-MW36-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:07:00	NAH710	20200720	C0G5477		1.00	1			307-55-1	PERFLUORODODECANOIC ACID (PFDOA)	0.015
N62473-16-C-2	0000	QTR3 20	00006	06-MW36-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:07:00	NAH710	20200720	C0G5477		1.00	1			375-85-9	PERFLUOROHEPTANOIC ACID (PFHPA)	0.084
N62473-16-C-2	0000	QTR3 20	00006	06-MW36-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:07:00	NAH710	20200720	C0G5477		1.00	1			307-24-4	PERFLUOROHEXANOIC ACID (PFHXA)	0.14
N62473-16-C-2	0000	QTR3 20	00006	06-MW36-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:07:00	NAH710	20200720	C0G5477		1.00	1			355-46-4	PERFLUOROHEXANESULFONIC ACID (PFHXS)	0.57
N62473-16-C-2	0000	QTR3 20	00006	06-MW36-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:07:00	NAH710	20200720	C0G5477		1.00	1			375-95-1	PERFLUORONONANOIC ACID (PFNA)	0.013
N62473-16-C-2	0000	QTR3 20	00006	06-MW36-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:07:00	NAH710	20200720	C0G5477		1.00	1			335-67-1	PERFLUOROOCTANOIC ACID (PFOA)	0.092
N62473-16-C-2	0000	QTR3 20	00006	06-MW36-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:07:00	NAH710	20200720	C0G5477		1.00	1			1763-23-1	PERFLUOROOCTANESULFONIC ACID (PFOS)	0.74
N62473-16-C-2	0000	QTR3 20	00006	06-MW36-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:07:00	NAH710	20200720	C0G5477		1.00	1			376-06-7	PERFLUOROTETRADECANOIC ACID (PFTEDA)	0.015
N62473-16-C-2	0000	QTR3 20	00006	06-MW36-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:07:00	NAH710	20200720	C0G5477		1.00	1			72629-94-8	PERLUOROTRIDECANOIC ACID (PFTRA)	0.015
N62473-16-C-2	0000	QTR3 20	00006	06-MW36-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:07:00	NAH710	20200720	C0G5477		1.00	1			2058-94-8	PERFLUOROUNDECANOIC ACID (PFUNA)	0.010
N62473-16-C-2	0000	QTR3 20	00006	QCFB-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:14:00	NAH711	20200720	C0G5477		1.00	1			4151-50-2	N-ETHYLPERFLUORO-1-OCTANESULFONAMIDE (N-ETFOSA)	0.019
N62473-16-C-2	0000	QTR3 20	00006	QCFB-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:14:00	NAH711	20200720	C0G5477		1.00	1			31506-32-8	N-METHYLPERFLUORO-1-OCTANESULFONAMIDE (N-MEFOSA)	0.010
N62473-16-C-2	0000	QTR3 20	00006	QCFB-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:14:00	NAH711	20200720	C0G5477		1.00	1			375-73-5	PERFLUOROBUTANESULFONIC ACID (PFBS)	0.015
N62473-16-C-2	0000	QTR3 20	00006	QCFB-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:14:00	NAH711	20200720	C0G5477		1.00	1			335-76-2	PERFLUORODECANOIC ACID (PFDA)	0.010
N62473-16-C-2	0000	QTR3 20	00006	QCFB-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:14:00	NAH711	20200720	C0G5477		1.00	1			307-55-1	PERFLUORODODECANOIC ACID (PFDOA)	0.015
N62473-16-C-2	0000	QTR3 20	00006	QCFB-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:14:00	NAH711	20200720	C0G5477		1.00	1			375-85-9	PERFLUOROHEPTANOIC ACID (PFHPA)	0.015
N62473-16-C-2	0000	QTR3 20	00006	QCFB-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:14:00	NAH711	20200720	C0G5477		1.00	1			307-24-4	PERFLUOROHEXANOIC ACID (PFHXA)	0.015
N62473-16-C-2	0000	QTR3 20	00006	QCFB-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:14:00	NAH711	20200720	C0G5477		1.00	1			355-46-4	PERFLUOROHEXANESULFONIC ACID (PFHXS)	0.015
N62473-16-C-2	0000	QTR3 20	00006	QCFB-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:14:00	NAH711	20200720	C0G5477		1.00	1			375-95-1	PERFLUORONONANOIC ACID (PFNA)	0.010
N62473-16-C-2	0000	QTR3 20	00006	QCFB-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:14:00	NAH711	20200720	C0G5477		1.00	1			335-67-1	PERFLUOROOCTANOIC ACID (PFOA)	0.015
N62473-16-C-2	0000	QTR3 20	00006	QCFB-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:14:00	NAH711	20200720	C0G5477		1.00	1			1763-23-1	PERFLUOROOCTANESULFONIC ACID (PFOS)	0.015
N62473-16-C-2	0000	QTR3 20	00006	QCFB-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:14:00	NAH711	20200720	C0G5477		1.00	1			376-06-7	PERFLUOROTETRADECANOIC ACID (PFTEDA)	0.015
N62473-16-C-2	0000	QTR3 20	00006	QCFB-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:14:00	NAH711	20200720	C0G5477		1.00	1			72629-94-8	PERLUOROTRIDECANOIC ACID (PFTRA)	0.015
N62473-16-C-2	0000	QTR3 20	00006	QCFB-0620	537 MOD	Maxxam Analytics			NA		000			4			20200706	12:32:37	20200708	17:14:00	NAH711	20200720	C0G5477		1.00	1			2058-94-8	PERFLUOROUNDECANOIC ACID (PFUNA)	0.010

ORIGINAL_ANALYTE_VALUE	RESULT_UNITS	LAB_QUALIFIER	VALIDATOR_QUALIFIER	FINAL_QUALIFIER	DETECTED	GC_COLUMN_TYPE	ANALYSIS_RESULT_TYPE	RADIOLOGICAL_ERROR	RESULT_NARRATIVE	RETENTION_TIME	QC_CONTROL_LIMIT_CODE	QC_ACCURACY_UPPER	QC_ACCURACY_LOWER	CONTROL_LIMIT_DATE	RELATIVE_PCT_DIFF	QC_NARRATIVE	MDL	CDL	IDL	PQL	CRQL	DETECTION_LIMIT	VALIDATOR_DET_LIMIT	VALIDATOR_MDL	DL	LOD	LOQ	SDG	LEACH_LOT	METHOD_BATCH
0.095	UG L	U	U	U	N	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.045					0.20			0.045	0.095	0.20	C0G5477		6819936
0.050	UG L	U	U	U	N	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.018					0.20			0.018	0.050	0.20	C0G5477		6819936
0.14	UG L				Y	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.026					0.10			0.026	0.075	0.10	C0G5477		6819936
0.030	UG L	J	J	J	Y	PR	TRG		Due to high concentrations of the associated target analytes. a reduced sample volume was extracted and analyzed. Detect								0.021					0.10			0.021	0.05	0.10	C0G5477		6819936
0.075	UG L	U	U	U	N	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.034					0.10			0.034	0.075	0.10	C0G5477		6819936
0.49	UG L				Y	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.036					0.10			0.036	0.075	0.10	C0G5477		6819936
2.1	UG L				Y	PR	TRG		Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was								0.032					0.10			0.032	0.075	0.10	C0G5477		6819936
1.8	UG L				Y	PR	TRG		Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was								0.026					0.10			0.026	0.075	0.10	C0G5477		6819936
0.093	UG L	J	J	J	Y	PR	TRG		Due to high concentrations of the associated target analytes. a reduced sample volume was extracted and analyzed. Detect								0.025					0.10			0.025	0.05	0.10	C0G5477		6819936
1.8	UG L				Y	PR	TRG		Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was								0.037					0.10			0.037	0.075	0.10	C0G5477		6819936
14	UG L				Y	PR	TRG		Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was								0.26					1.0			0.26	0.75	1.0	C0G5477		6819936
0.075	UG L	U	U	U	N	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.034					0.10			0.034	0.075	0.10	C0G5477		6819936
0.075	UG L	U	U	U	N	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.035					0.10			0.035	0.075	0.10	C0G5477		6819936
0.050	UG L	U	U	U	N	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.022					0.10			0.022	0.050	0.10	C0G5477		6819936
0.021	UG L	U	U	U	N	PR	TRG										0.0099					0.043			0.0099	0.021	0.043	C0G5477		6819936
0.011	UG L	U	U	U	N	PR	TRG										0.0039					0.043			0.0039	0.011	0.043	C0G5477		6819936
0.027	UG L				Y	PR	TRG										0.0056					0.022			0.0056	0.017	0.022	C0G5477		6819936
0.011	UG L	J	J	J	Y	PR	TRG										0.0045					0.022			0.0045	0.011	0.022	C0G5477		6819936
0.017	UG L	U	U	U	N	PR	TRG										0.0075					0.022			0.0075	0.017	0.022	C0G5477		6819936
0.15	UG L				Y	PR	TRG										0.0078					0.022			0.0078	0.017	0.022	C0G5477		6819936
0.26	UG L				Y	PR	TRG										0.0070					0.022			0.0070	0.017	0.022	C0G5477		6819936
0.62	UG L				Y	PR	TRG										0.0057					0.022			0.0057	0.017	0.022	C0G5477		6819936
0.021	UG L	J	J	J	Y	PR	TRG										0.0054					0.022			0.0054	0.15	0.022	C0G5477		6819936
0.44	UG L				Y	PR	TRG										0.0081					0.022			0.0081	0.017	0.022	C0G5477		6819936
1.8	UG L				Y	PR	TRG		Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was								0.052					0.20			0.052	0.017	0.20	C0G5477		6819936
0.017	UG L	U	U	U	N	PR	TRG										0.0074					0.022			0.0074	0.017	0.022	C0G5477		6819936
0.017	UG L	U	U	U	N	PR	TRG										0.0076					0.022			0.0076	0.017	0.022	C0G5477		6819936
0.011	UG L	U	U	U	N	PR	TRG										0.0047					0.022			0.0047	0.011	0.022	C0G5477		6819936
0.019	UG L	U	U	U	N	PR	TRG										0.0090					0.040			0.0090	0.019	0.040	C0G5477		6819936
0.010	UG L	U	U	U	N	PR	TRG										0.0035					0.040			0.0035	0.010	0.040	C0G5477		6819936
0.0067	UG L	J	J	J	Y	PR	TRG										0.0051					0.020			0.0051	0.015	0.020	C0G5477		6819936
0.010	UG L	U	U	U	N	PR	TRG										0.0041					0.020			0.0041	0.010	0.020	C0G5477		6819936
0.015	UG L	U	U	U	N	PR	TRG										0.0068					0.020			0.0068	0.015	0.020	C0G5477		6819936
0.015	UG L	U	U	U	N	PR	TRG										0.0071					0.020			0.0071	0.015	0.020	C0G5477		6819936
0.0076	UG L	J	J	J	Y	PR	TRG										0.0064					0.020			0.0064	0.015	0.020	C0G5477		6819936
0.023	UG L				Y	PR	TRG										0.0052					0.020			0.0052	0.015	0.020	C0G5477		6819936
0.010	UG L	U	U	U	N	PR	TRG										0.0049					0.020			0.0049	0.010	0.020	C0G5477		6819936
0.023	UG L				Y	PR	TRG										0.0074					0.020			0.0074	0.015	0.020	C0G5477		6819936
0.050	UG L				Y	PR	TRG										0.0052					0.020			0.0052	0.015	0.020	C0G5477		6819936
0.015	UG L	U	U	U	N	PR	TRG										0.0067					0.020			0.0067	0.015	0.020	C0G5477		6819936
0.015	UG L	U	U	U	N	PR	TRG										0.0069					0.020			0.0069	0.015	0.020	C0G5477		6819936
0.010	UG L	U	U	U	N	PR	TRG										0.0043					0.020			0.0043	0.010	0.020	C0G5477		6819936
0.021	UG L	U	U	U	N	PR	TRG										0.0099					0.043			0.0099	0.021	0.043	C0G5477		6819936
0.011	UG L	U	U	U	N	PR	TRG										0.0039					0.043			0.0039	0.011	0.043	C0G5477		6819936
0.12	UG L				Y	PR	TRG										0.0056					0.022			0.0056	0.017	0.022	C0G5477		6819936
0.010	UG L	J	J	J	Y	PR	TRG										0.0045					0.022			0.0045	0.011	0.022	C0G5477		6819936
0.017	UG L	U	U	U	N	PR	TRG										0.0075					0.022			0.0075	0.017	0.022	C0G5477		6819936
0.51	UG L				Y	PR	TRG										0.0078					0.022			0.0078	0.017	0.022	C0G5477		6819936
1.1	UG L				Y	PR	TRG										0.0070					0.022			0.0070	0.017	0.022	C0G5477		6819936
4.1	UG L				Y	PR	TRG		Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was								0.052					0.20			0.052	0.15	0.20	C0G5477		6819936
0.049	UG L				Y	PR	TRG										0.0054					0.022			0.0054	0.011	0.022	C0G5477		6819936
0.38	UG L				Y	PR	TRG										0.0081					0.022			0.0081	0.017	0.022	C0G5477		6819936
1.9	UG L				Y	PR	TRG		Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was								0.052					0.20			0.052	0.15	0.20	C0G5477		6819936
0.017	UG L	U	U	U	N	PR	TRG										0.0074					0.022			0.0074	0.017	0.022	C0G5477		6819936
0.017	UG L	U	U	U	N	PR	TRG										0.0076					0.022			0.0076	0.017	0.022	C0G5477		6819936
0.011	UG L	U	U	U	N	PR	TRG										0.0047					0.022			0.0047	0.011	0.022	C0G5477		6819936
0.020	UG L	U	U	U	N	PR	TRG										0.0095					0.042			0.0095	0.020	0.042	C0G5477		6819936
0.011	UG L	U	U	U	N	PR	TRG										0.0037					0.042			0.0037	0.011	0.042	C0G5477		6819936
0.14	UG L				Y	PR	TRG										0.0054					0.021			0.0054	0.016	0.021	C0G5477		6819936
0.011	UG L	J	J	J	Y	PR	TRG										0.0043					0.021			0.0043	0.016	0.021	C0G5477		6819936
0.016	UG L	U	U	U	N	PR	TRG										0.0071					0.021			0.0071	0.016	0.021	C0G5477		6819936
0.54	UG L				Y	PR	TRG										0.0075					0.021			0.0075	0.016	0.021	C0G5477		6819936
1.1	UG L				Y	PR	TRG										0.064					0.20			0.064	0.15	0.20	C0G5477		6819936
4.1	UG L				Y	PR	TRG		Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was								0.052					0.20			0.052	0.15	0.20	C0G5477		6819936
0.051	UG L				Y	PR	TRG										0.0051					0.021			0.0051	0.011	0.021	C0G5477		6819936
0.39	UG L				Y	PR	TRG										0.0078					0.021			0.0078	0.016	0.021	C0G5477		6819936
1.4	UG L				Y	PR	TRG		Due to high concentration of the tareet analyte. a reduced sample volume was extracted and analyzed. Detection limit was								0.052					0.20			0.052	0.016	0.20	C0G5477		6819936
0.016	UG L	U	U	U	N	PR	TRG										0.0070					0.021			0.0070	0.016	0.021	C0G5477		6819936
0.016	UG L	U	U	U	N	PR	TRG										0.0072					0.021			0.0072	0.016	0.021	C0G5477		6819936
0.011	UG L	U	U	U	N	PR	TRG										0.0045					0.021			0.0045	0.011	0.021	C0G5477		6819936
0.095	UG L	U	U	U	N	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.045					0.20			0.045	0.095	0.20	C0G5477		6819936
0.050	UG L	U	U	U	N	PR	TRG		Due to high concentrations of the associated target analytes. a reduced sample volume was extracted and analyzed. Detect								0.018					0.20			0.018	0.050	0.20	C0G5477		6819936
0.11	UG L				Y	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.026					0.10			0.026	0.075	0.10	C0G5477		6819936
0.025	UG L	J	J	J	Y	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.021					0.10			0.021	0.05	0.10	C0G5477		6819936
0.075	UG L	U	U	U	N	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.034					0.10			0.034	0.075	0.10	C0G5477		6819936
0.90	UG L				Y	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.036					0.10			0.036	0.075	0.10	C0G5477		6819936
1.3	UG L				Y	PR	TRG		Due to high concentration of the target analyte. a reduced sample volume was extracted and analyzed. Detection limit was								0.032					0.10			0.032	0.075	0.10	C0G5477		6819936
6.9	UG L				Y	PR	TRG		Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was								0.26					1.0			0.26	0.75	1.0	C0G5477		6819936
0.098	UG L	J	J	J	Y	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.025					0.10			0.025	0.05	0.10	C0G5477		6819936
0.099	UG L				Y	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.037					0.10			0.037	0.075	0.10	C0G5477		6819936
18	UG L				Y	PR	TRG		Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was								0.26					1.0			0.26	0.75	1.0	C0G5477		6819936
0.075	UG L	U	U	U	N	PR	TRG		Due to high concentrations of the associated target analytes. a reduced sample volume was extracted and analyzed. Detect								0.034					0.10			0.034	0.075	0.10	C0G5477		6819936
0.075	UG L	U	U	U	N	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.035					0.10			0.035	0.075	0.10	C0G5477		6819936
0.050	UG L	U	U	U	N	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.022					0.10			0.022	0.050	0.10	C0G5477		6819936
0.038	UG L	U	U	U	N	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.018					0.080			0.018	0.038	0.080	C0G5477		6819936
0.020	UG L	U	U	U	N	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.0070					0.080			0.0070	0.020	0.080	C0G5477		6819936
0.097	UG L				Y	PR	TRG		Due to high concentrations of the associated target analytes. a reduced sample volume was extracted and analyzed. Detect								0.010					0.040			0.010	0.030	0.040	C0G5477		6819936
0.018	UG L	J	J	J	Y	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.0082					0.040			0.0082	0.02	0.040	C0G5477		6819936
0.030	UG L	U	U	U	N	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.014					0.040			0.014	0.030	0.040	C0G5477		6819936
0.62	UG L				Y	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.014					0.040			0.014	0.030	0.040	C0G5477		6819936
1.3	UG L				Y	PR	TRG		Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was								0.013					0.040			0.013	0.030	0.040	C0G5477		6819936
2.7	UG L				Y	PR	TRG		Due to high concentration of the tareet analyte. a reduced sample volume was extracted and analyzed. Detection limit was								0.10					0.40			0.10	0.1	0.40	C0G5477		6819936
0.059	UG L				Y	PR	TRG										0.0098					0.040			0.0098	0.02	0.040	C0G5477		6819936
1.5	UG L				Y	PR	TRG		Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was								0.015					0.040			0.015	0.030	0.040	C0G5477		6819936
8.4	UG L				Y	PR	TRG		Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was								0.10					0.40			0.10	0.1	0.40	C0G5477		6819936
0.030	UG L	U	U	U	N	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.013					0.040			0.013	0.030	0.040	C0G5477		6819936
0.030	UG L	U	U	U	N	PR	TRG		Due to high concentrations of the associated target analytes. a reduced sample volume was extracted and analyzed. Detect								0.014					0.040			0.014	0.030	0.040	C0G5477		6819936
0.020	UG L	U	U	U	N	PR	TRG		Due to high concentrations of the associated target analytes, a reduced sample volume was extracted and analyzed. Detect								0.0086					0.040			0.0086	0.020	0.040	C0G5477		6819936
0.021	UG L	U	U	U	N	PR	TRG										0.0099					0.044			0.0099	0.021	0.044	C0G5477		6819936
0.011	UG L	U	U	U	N	PR	TRG										0.0039					0.044			0.0039	0.011	0.044	C0G5477		6819936
0.031	UG L				Y	PR	TRG										0.0056					0.022			0.0056	0.017	0.022	C0G5477		6819936
0.0054	UG L	J	J	J	Y	PR	TRG										0.0045					0.022			0.0045	0.011	0.022	C0G5477		6819936
0.017	UG L	U	U	U	N	PR	TRG										0.0075					0.022			0.0075	0.017	0.022	C0G5477		6819936
0.073	UG L				Y	PR	TRG										0.0078					0.022			0.0078	0.017	0.022	C0G5477		6819936
0.19	UG L				Y	PR	TRG										0.0070					0.022			0.0070	0.017	0.022	C0G5477		6819936
0.72	UG L				Y	PR	TRG										0.0057					0.022			0.0057	0.017	0.022	C0G5477		6819936
0.015	UG L	J	J	J	Y	PR	TRG										0.0054					0.022			0.0054	0.011	0.022	C0G5477		6819936
0.16	UG L				Y	PR	TRG										0.0081					0.022			0.0081	0.017	0.022	C0G5477		6819936
1.9	UG L				Y	PR	TRG		Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was								0.052					0.20			0.052	0.15	0.20	C0G5477		6819936
0.017	UG L	U	U	U	N	PR	TRG										0.0074					0.022			0.0074	0.017	0.022	C0G5477		6819936
0.017	UG L	U	U	U	N	PR	TRG										0.0076					0.022			0.0076	0.017	0.022	C0G5477		6819936
0.011	UG L	U	U	U	N	PR	TRG										0.0047					0.022			0.0047	0.011	0.022	C0G5477		6819936
0.020	UG L	U	U	U	N	PR	TRG										0.0095					0.043			0.0095	0.020	0.043	C0G5477		6819936
0.011	UG L	U	U	U	N	PR	TRG										0.0037					0.043			0.0037	0.011	0.043	C0G5477		6819936
0.037	UG L				Y	PR	TRG										0.0054					0.021			0.0054	0.016	0.021	C0G5477		6819936
0.0068	UG L	J	J	J	Y	PR	TRG										0.0043					0.021			0.0043	0.011	0.021	C0G5477		6819936
0.016	UG L	U	U	U	N	PR	TRG										0.0071					0.021			0.0071	0.016	0.021	C0G5477		6819936
0.13	UG L				Y	PR	TRG										0.0075					0.021			0.0075	0.016	0.021	C0G5477		6819936
0.24	UG L				Y	PR	TRG										0.0067					0.021			0.0067	0.016	0.021	C0G5477		6819936
1.0	UG L				Y	PR	TRG										0.0055					0.021			0.0055	0.016	0.021	C0G5477		6819936
0.031	UG L				Y	PR	TRG										0.0051					0.021			0.0051	0.011	0.021	C0G5477		6819936
0.18	UG L				Y	PR	TRG										0.0078					0.021			0.0078	0.016	0.021	C0G5477		6819936
2.9	UG L				Y	PR	TRG		Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was								0.052					0.20			0.052	0.15	0.20	C0G5477		6819936
0.016	UG L	U	U	U	N	PR	TRG										0.0070					0.021			0.0070	0.016	0.021	C0G5477		6819936
0.016	UG L	U	U	U	N	PR	TRG										0.0072					0.021			0.0072	0.016	0.021	C0G5477		6819936
0.011	UG L	U	U	U	N	PR	TRG										0.0045					0.021			0.0045	0.011	0.021	C0G5477		6819936
0.019	UG L	U	U	U	N	PR	TRG										0.0090					0.040			0.0090	0.019	0.040	C0G5477		6819936
0.010	UG L	U	U	U	N	PR	TRG										0.0035					0.040			0.0035	0.010	0.040	C0G5477		6819936
0.028	UG L				Y	PR	TRG										0.0051					0.020			0.0051	0.015	0.020	C0G5477		6819936
0.0047	UG L	J	J	J	Y	PR	TRG										0.0041					0.020			0.0041	0.010	0.020	C0G5477		6819936
0.015	UG L	U	U	U	N	PR	TRG										0.0068					0.020			0.0068	0.015	0.020	C0G5477		6819936
0.084	UG L				Y	PR	TRG										0.0071					0.020			0.0071	0.015	0.020	C0G5477		6819936
0.14	UG L				Y	PR	TRG										0.0064					0.020			0.0064	0.015	0.020	C0G5477		6819936
0.57	UG L				Y	PR	TRG										0.0052					0.020			0.0052	0.015	0.020	C0G5477		6819936
0.013	UG L	J	J	J	Y	PR	TRG										0.0049					0.020			0.0049	0.010	0.020	C0G5477		6819936
0.092	UG L				Y	PR	TRG										0.0074					0.020			0.0074	0.015	0.020	C0G5477		6819936
0.74	UG L				Y	PR	TRG										0.0052					0.020			0.0052	0.015	0.020	C0G5477		6819936
0.015	UG L	U	U	U	N	PR	TRG										0.0067					0.020			0.0067	0.015	0.020	C0G5477		6819936
0.015	UG L	U	U	U	N	PR	TRG										0.0069					0.020			0.0069	0.015	0.020	C0G5477		6819936
0.010	UG L	U	U	U	N	PR	TRG										0.0043					0.020			0.0043	0.010	0.020	C0G5477		6819936
0.019	UG L	U	U	U	N	PR	TRG										0.0090					0.040			0.0090	0.019	0.040	C0G5477		6819936
0.010	UG L	U	U	U	N	PR	TRG										0.0035					0.040			0.0035	0.010	0.040	C0G5477		6819936
0.015	UG L	U	U	U	N	PR	TRG										0.0051					0.020			0.0051	0.015	0.020	C0G5477		6819936
0.010	UG L	U	U	U	N	PR	TRG										0.0041					0.020			0.0041	0.010	0.020	C0G5477		6819936
0.015	UG L	U	U	U	N	PR	TRG										0.0068					0.020			0.0068	0.015	0.020	C0G5477		6819936
0.015	UG L	U	U	U	N	PR	TRG										0.0071					0.020			0.0071	0.015	0.020	C0G5477		6819936
0.015	UG L	U	U	U	N	PR	TRG										0.0064					0.020			0.0064	0.015	0.020	C0G5477		6819936
0.015	UG L	U	U	U	N	PR	TRG										0.0052					0.020			0.0052	0.015	0.020	C0G5477		6819936
0.010	UG L	U	U	U	N	PR	TRG										0.0049					0.020			0.0049	0.010	0.020	C0G5477		6819936
0.015	UG L	U	U	U	N	PR	TRG										0.0074					0.020			0.0074	0.015	0.020	C0G5477		6819936
0.015	UG L	U	U	U	N	PR	TRG										0.0052					0.020			0.0052	0.015	0.020	C0G5477		6819936
0.015	UG L	U	U	U	N	PR	TRG										0.0067					0.020			0.0067	0.015	0.020	C0G5477		6819936
0.015	UG L	U	U	U	N	PR	TRG										0.0069					0.020			0.0069	0.015	0.020	C0G5477		6819936
0.010	UG L	U	U	U	N	PR	TRG										0.0043					0.020			0.0043	0.010	0.020	C0G5477		6819936

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LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

NOREAS, Inc.
16501 Scientific Way
Irvine, CA 92618
ATTN: Ms. Sevda Aleckson
Sevda.Aleckson@noreasinc.com

September 8, 2020

SUBJECT: Treasure Island, IR Site 6, Data Validation

Dear Ms. Aleckson,

Enclosed is the final validation report for the fraction listed below. This SDG was received on July 30, 2020. Attachment 1 is a summary of the samples that were reviewed for analysis.

LDC Project #48757:

SDG #	**Fraction:**
20F214/C0G5477	Perfluoroalkyl & Polyfluoroalkyl Substances

The data validation was performed under Level IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- Final Sampling and Analysis Plan, Field Sampling Plan and Quality Assurance Project Plan, Basewide Groundwater and Soil Gas Monitoring at Installation Restoration Sites 6, 12, 21, and 24, Former Naval Station Treasure Island, San Francisco, California; April 2017
- U.S. Department of Defense Quality Systems Manual for Environmental Laboratories, Version 5.3; 2019
- USEPA National Functional Guidelines for Superfund Organic Methods Data Review; August 2014
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

Client Select IVs NEDD/NIRIS

LDC #48757 (Noreas, Inc.-Irvine, CA/ Treasure Island, IR Site 6)

LDC	SDG#	DATE REC'D	(3) DATE DUE	PFAs (537M)																																	
Matrix: Water/Soil				W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	20F214 /C0G5477	07/30/20	08/20/20	11	0																																
Total	J/PG			11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS/MSD, and DUPs

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Treasure Island, IR Site 6

LDC Report Date: September 3, 2020

Parameters: Perfluoroalkyl & Polyfluoroalkyl Substances

Validation Level: Level IV

Laboratory: EMAX Laboratories, Inc./Bureau Veritas Canada, Inc.

Sample Delivery Group (SDG): 20F214/C0G5477

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
06-MW25-0620	20F214-01/NAH700	Water	06/22/20
06-MW26-0620	20F214-02/NAH701	Water	06/22/20
06-MW30-0620	20F214-03/NAH702	Water	06/22/20
06-MW31-0620	20F214-04/NAH703	Water	06/22/20
06-MW31-0620 DUP	20F214-05/NAH705	Water	06/22/20
06-MW32-0620	20F214-06/NAH706	Water	06/22/20
06-MW33-0620	20F214-07/NAH707	Water	06/22/20
06-MW34-0620	20F214-08/NAH708	Water	06/22/20
06-MW35-0620	20F214-09/NAH709	Water	06/22/20
06-MW36-0620	20F214-10/NAH710	Water	06/22/20
QCFB-0620	20F214-11/NAH711	Water	06/22/20
06-MW30-0620MS	20F214-03/NAH702MS	Water	06/22/20
06-MW30-0620MSD	20F214-03/NAH702MSD	Water	06/22/20

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Sampling and Analysis Plan (Field Sampling Plan and Quality Assurance Project Plan), Basewide Groundwater and Soil Gas Monitoring at Installation Restoration Sites 6, 12, 21, and 24, Former Naval Station Treasure Island, San Francisco, California (April 2017), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.3 (2019), and a modified outline of the USEPA National Functional Guidelines (NFG) for Superfund Organic Methods Data Review (August 2014). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) by Environmental Protection Agency (EPA) Method 537 Modified and LC/MS/MS and Isotope Dilution Compliant with Table B-15 of DoD QSM 5.3

All sample results were subjected to Level IV data validation, which is comprised of the quality control (QC) summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Qualification Codes

1	Holding Times Exceeded
2	Sample Preservation / Cooler Temperature Exceeded Acceptance Criteria
3	Sample Custody Potentially Compromised Sample Integrity
4	Missing/Incomplete Deliverables
5	Calibration Did Not Meet Method Criteria
6	Equipment/Field Blank Contamination
7	Laboratory Method or Calibration Blank Contamination
8	Matrix Spike % Recovery Exceeded Acceptance Criteria
9	Matrix Spike Duplicate (RPD or Duplicate Sample Analysis) Exceeded Acceptance Criteria
10A	Laboratory Control Sample % Recovery Exceeded Acceptance Criteria
10B	Laboratory Control Sample Duplicate (RPD) Exceeded Acceptance Criteria
11	ICP Interference Check Analysis Exceeded Method Criteria
12	RPD Between Two Columns (Pesticides/PCBs only)
13	Surrogate Recoveries Exceeded Acceptance Criteria
14	Field Duplicates RPD Exceeded Project Criteria
15	Peak Resolution did not meet method criteria
16	Serial Dilution Analysis Exceeded Method Criteria
17	Chemical Recoveries Exceeded Acceptance Criteria
18	Trip Blank Contamination
19	Internal Standards Did Not Meet Method Criteria
20	Calibration Range exceeded Method Criteria
21	Potential False Positives
22	Do not use, other result more technically sound (overall assessment)
23	Estimated Maximum Possible Concentration
24	Trace Detection Below the LOQ (RL) and Above the DL (MDL)
25	Other

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. LC/MS Instrument Performance Check

Instrument performance was checked and the requirements were met.

III. Initial Calibration and Initial Calibration Verification

Initial calibration was performed as required by the method.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990.

For each calibration standard, all compounds were within 70-130% of their true value.

The signal to noise (S/N) ratio was within validation criteria for all compounds.

Retention time windows were established as required by the method.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 30.0% for all compounds.

The percent differences (%D) of the instrument sensitivity check (ISC) were less than or equal to 30.0% for all compounds.

The signal to noise (S/N) ratio was within validation criteria for all compounds.

Retention times of all compounds in the calibration standards were within the established retention time windows.

All compound concentrations were at the limit of quantitation (LOQ) for the ISC standard.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

Sample QCFB-0620 was identified as a field blank. No contaminants were found.

VII. Surrogates

Surrogates were added to all samples as required by the methods. All surrogate recoveries (%R) were within QC limits.

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

Samples 06-MW31-0620 and 06-MW31-0620 DUP were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/L)		RPD (Limits)	Flag	A or P
	06-MW31-0620	06-MW31-0620 DUP			
Perfluorohexanoic acid (PFHxA)	1.1	1.1	0 (≤30)	-	-
Perfluoroheptanoic acid (PFHpA)	0.51	0.54	6 (≤30)	-	-
Perfluorooctanoic acid (PFOA)	0.38	0.39	3 (≤30)	-	-
Perfluorononanoic acid (PFNA)	0.049	0.051	4 (≤30)	-	-
Perfluorodecanoic acid (PFDA)	0.010	0.011	10 (≤30)	-	-
Perfluorobutane sulfonate (PFBS)	0.12	0.14	15 (≤30)	-	-
Perfluorohexane sulfonate (PFHxS)	4.1	4.1	0 (≤30)	-	-
Perfluorooctane sulfonate (PFOS)	1.9	1.4	30 (≤30)	-	-

XI. Labeled Compounds

All percent recoveries (%R) for labeled compounds used to quantitate target compounds were within QC limits.

XII. Compound Quantitation

All compound quantitations met validation criteria.

XIII. Target Compound Identifications

All target compound identifications met validation criteria.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method, DoD QSM version 5.3 and project SAP. This review also included verification of analytes, methods, reporting limits, instrument performance and method QC acceptance limits, which were found to be compliant with the project documents. No results were rejected.

The quality control criteria reviewed were met and are considered acceptable.

Treasure Island, IR Site 6
Perfluoroalkyl & Polyfluoroalkyl Substances - Data Qualification Summary - SDG 20F214/C0G5477

No Sample Data Qualified in this SDG

Treasure Island, IR Site 6
Perfluoroalkyl & Polyfluoroalkyl Substances - Laboratory Blank Data Qualification Summary - SDG 20F214/C0G5477

No Sample Data Qualified in this SDG

Treasure Island, IR Site 6
Perfluoroalkyl & Polyfluoroalkyl Substances - Field Blank Data Qualification Summary - SDG 20F214/C0G5477

No Sample Data Qualified in this SDG

LDC #: 48757A96 **VALIDATION COMPLETENESS WORKSHEET** Date: 9/2/20

SDG #: 20F214/C0G5477 ~~Level IV~~ Stage 4 Page: 1 of 1

Laboratory: EMAX Laboratories, Inc./Bureau Veritas Canada, Inc. Reviewer: M

2nd Reviewer:

METHOD: LC/MS Perfluoroalkyl & Polyfluoroalkyl Substances (EPA Method 537M) DOD QSM 5.3 Table B-15

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	LC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A / A	r² TV/CV ≤ 30
IV.	Continuing calibration/ISC	A / A	D ≤ 30
V.	Laboratory Blanks	A	
V.I	Field blanks	ND	FB = 11
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	SW	D = 4+5
X.	Labeled Compounds	A	
XI.	Compound quantitation RL/LOQ/LODs	A	
XII.	Target compound identification	A	
XIII.	System performance	A	
XIV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Sub Lab ID	Lab ID	Matrix	Date
1	06-MW25-0620	NAH700	20F214-01	Water	06/22/20
2	06-MW26-0620	01	20F214-02	Water	06/22/20
3	06-MW30-0620	02	20F214-03	Water	06/22/20
4	06-MW31-0620	03	20F214-04	Water	06/22/20
5	06-MW31-0620 DUP	05	20F214-05	Water	06/22/20
6	06-MW32-0620	06	20F214-06	Water	06/22/20
7	06-MW33-0620	07	20F214-07	Water	06/22/20
8	06-MW34-0620	08	20F214-08	Water	06/22/20
9	06-MW35-0620	09	20F214-09	Water	06/22/20
10	06-MW36-0620	10	20F214-10	Water	06/22/20
11	QCFB-0620	11	20F214-11	Water	06/22/20
12	06-MW30-0620MS	02MS	20F214-03MS	Water	06/22/20
13	06-MW30-0620MSD	√02MSD	20F214-03MSD	Water	06/22/20
14					
15					

6819936

Method: LC/MS/MS and Isotope Dilution Compliant with Table B-15 of DoD QSM 5.3

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Were cooler temperature criteria met?	✓			
II. LC/MS Instrument performance check				
Were the instrument performance reviewed and found to be within the validation criteria?	✓			
III. Initial calibration and Initial calibration verification				
Did the laboratory perform a 5-point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?			✓	
Was a curve fit used for evaluation? If yes, did the initial calibration meet the coefficient of determination (r^2) criteria of ≥ 0.990?	✓			
Were all analytes within 70-130% or percent differences (%D) ≤30% of their true value for each calibration standard?	✓			
Was the signal to noise (S/N) ratio for all compounds within the validation criteria?	✓			
Were the retention time windows properly established?	✓			
Was an initial calibration verification (ICV) standard analyzed after each initial calibration for each instrument?	✓			
Were all ICV percent differences (%D) of the initial calibration verification ≤ 30%?	✓			
IV. Continuing calibration and Instrument sensitivity check				
Was a continuing calibration analyzed prior to sample analysis, after every 10 samples and at the end of the analytical sequence?	✓			
Were all percent differences (%D) of the continuing calibration ≤ 30%?	✓			
Were all the retention times within the acceptance windows?	✓			
Was the signal to noise (S/N) ratio for all compounds within the validation criteria?	✓			
Were all percent differences (%D) of the Instrument Sensitivity Check ≤ 30%?	✓			
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
VI. Field blanks				
Were field blanks identified in this SDG?	✓			
Were target compounds detected in the field blanks?		✓		

Validation Area	Yes	No	NA	Findings/Comments
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VIII. Laboratory control samples				
Was an LCS analyzed per extraction batch for this SDG?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?	✓			
Were target compounds detected in the field duplicates?	✓			
X. Labeled compounds				
Were labeled compound percent recoveries (%R) within the QC limits?	✓			
Were retention times within 0.4 minutes of the associated calibration standard?	✓			
XI. Compound quantitation				
Did the laboratory reporting limits (i.e. DL, LOD, LOQ) meet the QAPP?	✓			
Did reported results include both branched and linear isomers?	✓			
Were the correct ion transition, labeled compound and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound retention times within 0.1 minutes of the associated labeled compound for compounds with a labeled analog?	✓			
Were compound quantitation and reporting limits adjusted to reflect all sample dilutions and dry weight factors applicable to Stage 4 validation?	✓			
XII. Target compound identification				
Was the signal to noise (S/N) ratio for all compounds within the validation criteria?	✓			
Were two transitions and the ion transition ratio per analyte monitored and documented with the exception of PFBA and PFPeA?	✓			
Were ion ratios between 50-150%?	✓			
XIII. System performance				
System performance was found to be acceptable.	✓			
XIV. Overall assessment of Data				
Overall assessment of data was found to be acceptable.	✓			

TARGET COMPOUND WORKSHEET

METHOD: PFAS

A. Perfluorohexanoic acid (PFHxA)			
B. Perfluoroheptanoic acid (PFHpA)			
C. Perfluorooctanoic acid (PFOA)			
D. Perfluorononanoic acid (PFNA)			
E. Perfluorodecanoic acid (PFDA)			
F. Perfluoroundecanoic acid (PFUnA)			
G. Perfluorododecanoic acid (PFDoA)			
H. Perfluorotridecanoic acid (PFTriDA)			
I. Perfluorotetradecanoic acid (PFTeDA)			
J. Perfluorobutanesulfonic acid (PFBS)			
K. Perfluorohexanesulfonic acid (PFHxS)			
L. Perfluoroheptanesulfonic acid (PFHpS)			
M. Perfluorooctanesulfonic acid (PFOS)			
N.Perfluorodecanesulfonic acid (PFDS)			
O. Perfluorooctane Sulfonamide (FOSA)			
P. Perfluorobutanoic acid (PFBA)			
Q. Perfluoropentanoic acis (PFPeA)			
R. 6:2 Fluorotelomer sulfonic acid (6:2 FTS)			
S. 8:2 Fluorotelomer sulfonic acid (8:2 FTS)			
T. N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)			
U. N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)			
V. 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)			

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Method: LC/MS/MS and Isotope Dilution Compliant with Table B-15 of DoD QSM 5.3

Compound	Concentration (ug/L)		RPD (≤30)	
	4	5		
A	1.1	1.1	0	
B	0.51	0.54	6	
C	0.38	0.39	3	
D	0.049	0.051	4	
E	0.010	0.011	10	
J	0.12	0.14	15	
K	4.1	4.1	0	
M	1.9	1.4	30	

Method: LC/MS/MS and Isotope Dilution Compliant with Table B-15 of DoD QSM 5.3

Calibration Date	Instrument	Analyte	Standard	(Y) Response ratio	(X) Concentration ratio
7/8/2020	LCMS04	PFOA	1	0.14163	0.830
			2	0.50867	3.000
			3	1.48738	8.000
			4	2.95575	16.000
			5	5.65080	30.000
			6	8.24251	41.700

Linear

	Calculated	Reported
Constant	-0.097867	-0.033566
X Coefficient(s)	0.19666	0.192788
Correlation Coefficient	0.999439	
Coefficient of Determination (r^2)	0.998878	1.00000

Calibration Date	Instrument	Analyte	Standard	(Y) Response ratio	(X) Concentration ratio
7/8/2020	LCMS04	PFOS	1	0.12642	0.830
			2	0.46394	3.000
			3	1.26812	8.000
			4	2.52983	16.000
			5	4.92691	30.000
			6	6.99602	41.700

Linear

	Calculated	Reported
Constant	-0.064989	-0.019514
X Coefficient(s)	0.16780	0.165060
Correlation Coefficient	0.999766	
Coefficient of Determination (r^2)	0.999532	1.00000

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Calculation Verification

Method: LC/MS/MS and Isotope Dilution Compliant with Table B-15 of DoD QSM 5.3

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
RRF = (Ax)(Cis)/(Ais)(Cx)

Where:
ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
Ax = Area of compound
Cx = Concentration of compound,
Ais = Area of associated internal standard
Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	True Conc	Reported Conc	Recalculated Conc	Reported %R	Recalculated %R
1	6819936_27	7/8/2020	PFOA (13C4-PFOA)	16.000	15.0630	15.0630	94.1	94.1
			PFOS (13C4-PFOS)	16.000	15.5680	15.5678	97.3	97.3
2	6819936_41	7/8/2020	PFOA (13C4-PFOA)	16.000	15.4530	15.4529	96.6	96.6
			PFOS (13C4-PFOS)	16.000	15.2082	15.2094	95.1	95.1
3			PFOA (13C4-PFOA)					
			PFOS (13C4-PFOS)					

LDC #: 48757A96

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Method: LC/MS/MS and Isotope Dilution Compliant with Table B-15 of DoD QSM 5.3

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

SSC = (Area spike) (Conc IS) / (Area IS) (average RRF spike)

%Recovery = 100 * (SSC - SC)/SA

Where: SSC = Spiked concentration, SA = Spike added, SC = Sample concentration

RPD = | MS - MSD | * 2/(MS + MSD)

MS = Matrix spike recovery, MSD = Matrix spike duplicate recovery

MS/MSD ID: 12/13

Compound	SA (ug/L)		SC (ug/L)	SSC (ug/L)		MS Percent Recovery		MSD Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
PFOA	0.4800	0.4800	0.023	0.4867	0.5075	97	97	101	101	4.4	4.2
PFOS	0.4800	0.4800	0.05	0.5272	0.5135	99	99	97	97	2.9	2.6

LDC #: 48757A96

VALIDATION FINDINGS WORKSHEET
LCS Results Verification

Method: LC/MS/MS and Isotope Dilution Compliant with Table B-15 of DoD QSM 5.3

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control duplicate were recalculated for the compounds identified below using the following calculation:

SSC = (Area spike) (Conc IS) / (Area IS) (average RRF spike)
%Recovery = 100 * SSC/SA

Where:
SSC = Spiked concentration
SA = Spike added
LCS = Laboratory control spike recovery
LCSD = Laboratory control spike duplicate recovery

RPD = | LCS - LCSD | * 2/(LCS + LCSD)

LCS/LCSD ID: 6819936LCS

Compound	SA (ug/L)		SSC (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
PFOA	0.4800		0.4674		97	97				
PFOS	0.4800		0.4566		95	95				

VALIDATION FINDINGS WORKSHEET
Sample Results Verification

Method: LC/MS/MS and Isotope Dilution Compliant with Table B-15 of DoD QSM 5.3

Compound results for all Level IV samples reported with a positive detect were recalculated and verified using the following equation:

$$\text{Concentration} = \frac{(Ax)\,(Vo)\,(Df)}{(RRF)\,(Wt)\,(\%S)}$$

Where:

Ax = Area or height of the peak for the compound to be measured
Ais = Area or height of the peak for the internal standard
Cis = Concentration of the internal standard
DF = Dilution factor
Vt = Volume of extract in milliters (mL)
RRF = Average relative response factor
Vo = Volume of sample in milliters (mL)
Wt = Weight of sample in grams (g)

Sample #	Compound	Ax	Ais	Cis	DF	RRF	Vt (mL)	Vo (mL)	%S	Calculated Concentration (ug/L)	Reported Concentration (ug/L)	% Diff
1	PFOA	38298	13203	100	5		3	125		1.8	1.8	0
			y = mx + b									
			m	0.192788								
			b	-0.033566								

INSTALLATION_ID	SITE_NAME	LOCATION_NAME	LOCATION_TYPE_DESC	COORD_X	COORD_Y	SAMPLE_NAME	SAMPLE_MATRIX_DESC	COLLECT_DATE	ANALYTICAL_METHOD_GRP_DESC	SDG
TREASURE_ISLAND_NS	SITE 00006	06-MW36	Monitoring well	6021419.54	2130435.329	06-MW36-0620	Ground water	24-Jun-20	Perfluoroalkyl Compounds	C0G5477
TREASURE_ISLAND_NS	SITE 00006	06-MW34	Monitoring well	6021397.778	2130405.903	06-MW34-0620	Ground water	23-Jun-20	Perfluoroalkyl Compounds	C0G5477
TREASURE_ISLAND_NS	SITE 00006	06-MW25	Monitoring well	6021163.016	2130486.964	06-MW25-0620	Ground water	24-Jun-20	Perfluoroalkyl Compounds	C0G5477
TREASURE_ISLAND_NS	SITE 00006	06-MW26	Monitoring well	6021172.738	2130574.156	06-MW26-0620	Ground water	24-Jun-20	Perfluoroalkyl Compounds	C0G5477
TREASURE_ISLAND_NS	SITE 00006	06-MW31	Monitoring well	6021354.143	2130342.49	06-MW31-0620 DUP	Ground water	24-Jun-20	Perfluoroalkyl Compounds	C0G5477
TREASURE_ISLAND_NS	SITE 00006	06-MW35	Monitoring well	6021434.084	2130622.196	06-MW35-0620	Ground water	23-Jun-20	Perfluoroalkyl Compounds	C0G5477
TREASURE_ISLAND_NS						QCFB-0620	Water for QC samples	24-Jun-20	Perfluoroalkyl Compounds	C0G5477
TREASURE_ISLAND_NS	SITE 00006	06-MW33	Monitoring well	6021270.898	2130694.212	06-MW33-0620	Ground water	23-Jun-20	Perfluoroalkyl Compounds	C0G5477
TREASURE_ISLAND_NS	SITE 00006	06-MW31	Monitoring well	6021354.143	2130342.49	06-MW31-0620	Ground water	24-Jun-20	Perfluoroalkyl Compounds	C0G5477
TREASURE_ISLAND_NS	SITE 00006	06-MW30	Monitoring well	6021128.148	2130373.461	06-MW30-0620	Ground water	24-Jun-20	Perfluoroalkyl Compounds	C0G5477
TREASURE_ISLAND_NS	SITE 00006	06-MW32	Monitoring well	6021196.627	2130516.559	06-MW32-0620	Ground water	24-Jun-20	Perfluoroalkyl Compounds	C0G5477