



**Groundwater Sample Results,  
Electronic Data Deliverable, Data Validation Report,  
and the Sample Location Report, SDG SC38678**

*Naval Station Newport  
Newport, Rhode Island*

August 2019

"1714902-BLK1","EPA 300.0","RES","1714902-BLK1","ESAI","14797-55-8","Nitrate as N","0.100","mg/l","U","0.009","MDL","TARGET","0.100","RDL","YES","-99","5","5","0.100",  
"1714902-BLK1","EPA 300.0","RES","1714902-BLK1","ESAI","14808-79-8","Sulfate as SO4","1.00","mg/l","U","0.307","MDL","TARGET","1.00","RDL","YES","-99","5","5","1.00",  
"1714902-BLK1","EPA 300.0","RES","1714902-BLK1","ESAI","16887-00-6","Chloride","0.100","mg/l","U","0.0897","MDL","TARGET","1.00","RDL","YES","-99","5","5","0.100",  
"1714902-BS1","EPA 300.0","RES","1714902-BS1","ESAI","14797-55-8","Nitrate as N","2.03","mg/l","0.009","MDL","TARGET","101","0.100","RDL","YES","2.00","5","5","0.100",  
"1714902-BS1","EPA 300.0","RES","1714902-BS1","ESAI","14808-79-8","Sulfate as SO4","20.3","mg/l","0.307","MDL","TARGET","101","1.00","RDL","YES","20.0","5","5","1.00",  
"1714902-BS1","EPA 300.0","RES","1714902-BS1","ESAI","16887-00-6","Chloride","20.3","mg/l","0.0897","MDL","TARGET","102","1.00","RDL","YES","20.0","5","5","0.100",  
"1714902-SRM1","EPA 300.0","RES","1714902-SRM1","ESAI","14797-55-8","Nitrate as N","2.66","mg/l","0.009","MDL","TARGET","106","0.100","RDL","YES","2.50","5","5","0.100",  
"1714902-SRM1","EPA 300.0","RES","1714902-SRM1","ESAI","14808-79-8","Sulfate as SO4","26.1","mg/l","0.307","MDL","TARGET","104","1.00","RDL","YES","25.0","5","5","1.00",  
"1714902-SRM1","EPA 300.0","RES","1714902-SRM1","ESAI","16887-00-6","Chloride","25.2","mg/l","0.0897","MDL","TARGET","101","1.00","RDL","YES","25.0","5","5","0.100",  
"1714942-BLK1","SM2320B (97, 11)","RES","1714942-BLK1","ESAI","NA","Total Alkalinity","1.87","mg/l CaCO3","J","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00",  
"1714942-BLK2","SM2320B (97, 11)","RES","1714942-BLK2","ESAI","NA","Total Alkalinity","3.00","mg/l CaCO3","U","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00",  
"1714942-BLK3","SM2320B (97, 11)","RES","1714942-BLK3","ESAI","NA","Total Alkalinity","3.00","mg/l CaCO3","U","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00",  
"1714942-BLK4","SM2320B (97, 11)","RES","1714942-BLK4","ESAI","NA","Total Alkalinity","3.00","mg/l CaCO3","U","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00",  
"1714942-BS1","SM2320B (97, 11)","RES","1714942-BS1","ESAI","NA","Total Alkalinity","50.9","mg/l CaCO3","1.05","MDL","TARGET","102","4.00","RDL","YES","50.0","50","50","3.00",  
"1714942-BS2","SM2320B (97, 11)","RES","1714942-BS2","ESAI","NA","Total Alkalinity","50.9","mg/l CaCO3","1.05","MDL","TARGET","102","4.00","RDL","YES","50.0","50","50","3.00",  
"1714942-BS3","SM2320B (97, 11)","RES","1714942-BS3","ESAI","NA","Total Alkalinity","51.3","mg/l CaCO3","1.05","MDL","TARGET","103","4.00","RDL","YES","50.0","50","50","3.00",  
"1714942-BS4","SM2320B (97, 11)","RES","1714942-BS4","ESAI","NA","Total Alkalinity","50.8","mg/l CaCO3","1.05","MDL","TARGET","102","4.00","RDL","YES","50.0","50","50","3.00",  
"1714942-SRM1","SM2320B (97, 11)","RES","1714942-SRM1","ESAI","NA","Total Alkalinity","132","mg/l CaCO3","2.62","MDL","TARGET","107","10.0","RDL","YES","124","20","50","7.50",  
"1714966-BLK1","SM18-22 5210B","RES","1714966-BLK1","ESAI","NA","Biochemical Oxygen Demand (5-day)","2.97","mg/l","BOD1, U","2.74","MDL","TARGET","3.00","RDL","YES","-99","300","300","2.97",  
"1714966-BLK2","SM18-22 5210B","RES","1714966-BLK2","ESAI","NA","Biochemical Oxygen Demand (5-day)","2.97","mg/l","U","2.74","MDL","TARGET","3.00","RDL","YES","-99","300","300","2.97",  
"1714966-BS1","SM18-22 5210B","RES","1714966-BS1","ESAI","NA","Biochemical Oxygen Demand (5-day)","183","mg/l","2.74","MDL","TARGET","92","100","RDL","YES","198","300","300","2.97",  
"1714966-SRM1","SM18-22 5210B","RES","1714966-SRM1","ESAI","NA","Biochemical Oxygen Demand (5-day)","52.0","mg/l","2.74","MDL","TARGET","81","30.0","RDL","YES","64.5","300","300","2.97",  
"1714966-SRM2","SM18-22 5210B","RES","1714966-SRM2","ESAI","NA","Biochemical Oxygen Demand (5-day)","54.0","mg/l","2.74","MDL","TARGET","84","30.0","RDL","YES","64.5","300","300","2.97",  
"1714974-BLK1","EPA 300.0","RES","1714974-BLK1","ESAI","16887-00-6","Chloride","0.100","mg/l","U","0.0897","MDL","TARGET","1.00","RDL","YES","-99","5","5","0.100",  
"1714974-BS1","EPA 300.0","RES","1714974-BS1","ESAI","16887-00-6","Chloride","20.3","mg/l","0.0897","MDL","TARGET","102","1.00","RDL","YES","20.0","5","5","0.100",  
"1714974-SRM1","EPA 300.0","RES","1714974-SRM1","ESAI","16887-00-6","Chloride","23.5","mg/l","0.0897","MDL","TARGET","94","1.00","RDL","YES","25.0","5","5","0.100",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","1146-65-2","Naphthalene-d8","40.0","mg/ml","-99","NA","ISTD","173","-99","NA","YES","40.0","980","1","-99",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","120-12-7","Anthracene","1.02","mg/l","U","0.620","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",

"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","129-00-0","Pyrene","1.02","g/l","U","0.622","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","15067-26-2","Acenaphthene-d10","40.0","g/ml","-99","NA","ISTD","156","-99","NA","YES","40.0","980","1","-99",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","1517-22-2","Phenanthrene-d10","40.0","g/ml","-99","NA","ISTD","143","-99","NA","YES","40.0","980","1","-99",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","1520-96-3","Perylene-d12","40.0","g/ml","-99","NA","ISTD","131","-99","NA","YES","40.0","980","1","-99",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","1718-51-0","Terphenyl-d14","31.8","g/l","-99","NA","SUR","62","-99","NA","YES","51.0","980","1","-99",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","1719-03-5","Chrysene-d12","40.0","g/ml","-99","NA","ISTD","136","-99","NA","YES","40.0","980","1","-99",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","191-24-2","Benzo (g,h,i) perylene","1.02","g/l","U","0.541","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","193-39-5","Indeno (1,2,3-cd) pyrene","1.02","g/l","U","0.592","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","205-99-2","Benzo (b) fluoranthene","1.02","g/l","U","0.446","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","206-44-0","Fluoranthene","1.02","g/l","U","0.651","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","207-08-9","Benzo (k) fluoranthene","1.02","g/l","U","0.490","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","208-96-8","Acenaphthylene","1.02","g/l","U","0.697","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","218-01-9","Chrysene","1.02","g/l","U","0.543","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","321-60-8","2-Fluorobiphenyl","19.9","g/l","SGC","-99","NA","SUR","39","-99","NA","YES","51.0","980","1","-99",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","4165-60-0","Nitrobenzene-d5","22.2","g/l","-99","NA","SUR","43","-99","NA","YES","51.0","980","1","-99",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","50-32-8","Benzo (a) pyrene","1.02","g/l","U","0.573","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","53-70-3","Dibenzo (a,h) anthracene","1.02","g/l","U","0.459","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","56-55-3","Benzo (a) anthracene","1.02","g/l","U","0.547","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","83-32-9","Acenaphthene","1.02","g/l","U","0.705","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","85-01-8","Phenanthrene","1.02","g/l","U","0.598","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","86-73-7","Fluorene","1.02","g/l","U","0.624","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","90-12-0","1-Methylnaphthalene","1.02","g/l","U","0.748","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","91-20-3","Naphthalene","1.02","g/l","U","0.699","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715009-BLK1","SW846 8270D","RES","1715009-BLK1","ESAI","91-57-6","2-Methylnaphthalene","1.02","g/l","U","0.586","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"1715009-BS1","SW846 8270D","RES","1715009-BS1","ESAI","1146-65-2","Naphthalene-d8","40.0","g/ml","-99","NA","ISTD","164","-99","NA","YES","40.0","990","1","-99",  
"1715009-BS1","SW846 8270D","RES","1715009-BS1","ESAI","120-12-7","Anthracene","27.0","g/l","QC2","0.614","MDL","TARGET","53","5.05","RDL","YES","50.5","990","1","1.01",  
"1715009-BS1","SW846 8270D","RES","1715009-BS1","ESAI","129-00-

0", "Pyrene", "28.8", "g/l", "0.616", "MDL", "TARGET", "57", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "15067-26-2", "Acenaphthene-  
d10", "40.0", "g/ml", "-99", "NA", "ISTD", "177", "-99", "NA", "YES", "40.0", "990", "1", "-99",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "1517-22-2", "Phenanthrene-  
d10", "40.0", "g/ml", "-99", "NA", "ISTD", "152", "-99", "NA", "YES", "40.0", "990", "1", "-99",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "1520-96-3", "Perylene-  
d12", "40.0", "g/ml", "-99", "NA", "ISTD", "142", "-99", "NA", "YES", "40.0", "990", "1", "-99",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "1718-51-0", "Terphenyl-  
dl4", "41.3", "g/l", "-99", "NA", "SUR", "82", "-99", "NA", "YES", "50.5", "990", "1", "-99",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "1719-03-5", "Chrysene-  
d12", "40.0", "g/ml", "-99", "NA", "ISTD", "171", "-99", "NA", "YES", "40.0", "990", "1", "-99",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "191-24-2", "Benzo (g,h,i)  
perylene", "24.3", "g/l", "QC2", "0.535", "MDL", "TARGET", "48", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "193-39-5", "Indeno (1,2,3-cd)  
pyrene", "26.7", "g/l", "0.586", "MDL", "TARGET", "53", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "205-99-2", "Benzo (b)  
fluoranthene", "41.3", "g/l", "0.441", "MDL", "TARGET", "82", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "206-44-  
0", "Fluoranthene", "28.6", "g/l", "0.644", "MDL", "TARGET", "57", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "207-08-9", "Benzo (k)  
fluoranthene", "33.8", "g/l", "0.485", "MDL", "TARGET", "67", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "208-96-  
8", "Acenaphthylene", "25.2", "g/l", "0.690", "MDL", "TARGET", "50", "5.05", "RDL", "YES", "50.5", "990", "1", "1.  
01",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "218-01-  
9", "Chrysene", "30.3", "g/l", "0.537", "MDL", "TARGET", "60", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "321-60-8", "2-  
Fluorobiphenyl", "30.6", "g/l", "-99", "NA", "SUR", "61", "-99", "NA", "YES", "50.5", "990", "1", "-99",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "4165-60-0", "Nitrobenzene-  
d5", "32.2", "g/l", "-99", "NA", "SUR", "64", "-99", "NA", "YES", "50.5", "990", "1", "-99",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "50-32-8", "Benzo (a)  
pyrene", "34.3", "g/l", "0.568", "MDL", "TARGET", "68", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "53-70-3", "Dibenzo (a,h)  
anthracene", "28.8", "g/l", "0.455", "MDL", "TARGET", "57", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "56-55-3", "Benzo (a)  
anthracene", "30.4", "g/l", "0.541", "MDL", "TARGET", "60", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "83-32-  
9", "Acenaphthene", "24.6", "g/l", "0.698", "MDL", "TARGET", "49", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "85-01-  
8", "Phenanthrene", "26.6", "g/l", "QC2", "0.592", "MDL", "TARGET", "53", "5.05", "RDL", "YES", "50.5", "990", "1",  
"1.01",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "86-73-  
7", "Fluorene", "27.1", "g/l", "0.618", "MDL", "TARGET", "54", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "90-12-0", "1-  
Methylnaphthalene", "22.7", "g/l", "0.740", "MDL", "TARGET", "45", "5.05", "RDL", "YES", "50.5", "990", "1", "1.0  
1",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "91-20-  
3", "Naphthalene", "21.5", "g/l", "0.692", "MDL", "TARGET", "43", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715009-BS1", "SW846 8270D", "RES", "1715009-BS1", "ESAI", "91-57-6", "2-  
Methylnaphthalene", "29.7", "g/l", "0.580", "MDL", "TARGET", "59", "5.05", "RDL", "YES", "50.5", "990", "1", "1.0  
1",  
"1715009-BSD1", "SW846 8270D", "RES", "1715009-BSD1", "ESAI", "1146-65-2", "Naphthalene-  
d8", "40.0", "g/ml", "-99", "NA", "ISTD", "146", "-99", "NA", "YES", "40.0", "990", "1", "-99",  
"1715009-BSD1", "SW846 8270D", "RES", "1715009-BSD1", "ESAI", "120-12-  
7", "Anthracene", "30.4", "g/l", "0.614", "MDL", "TARGET", "60", "12", "5.05", "RDL", "YES", "50.5", "990", "1", "1.0

1",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","129-00-0","Pyrene","29.6","g/l","0.616","MDL","TARGET","59","3","5.05","RDL","YES","50.5","990","1","1.01",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","15067-26-2","Acenaphthene-d10","40.0","g/ml","-99","NA","ISTD","141","-99","NA","YES","40.0","990","1","-99",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","1517-22-2","Phenanthrene-d10","40.0","g/ml","-99","NA","ISTD","123","-99","NA","YES","40.0","990","1","-99",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","1520-96-3","Perylene-d12","40.0","g/ml","-99","NA","ISTD","94","-99","NA","YES","40.0","990","1","-99",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","1718-51-0","Terphenyl-d14","47.1","g/l","-99","NA","SUR","93","-99","NA","YES","50.5","990","1","-99",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","1719-03-5","Chrysene-d12","40.0","g/ml","-99","NA","ISTD","132","-99","NA","YES","40.0","990","1","-99",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","191-24-2","Benzo (g,h,i) perylene","25.5","g/l","0.535","MDL","TARGET","50","5","5.05","RDL","YES","50.5","990","1","1.01",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","193-39-5","Indeno (1,2,3-cd) pyrene","29.0","g/l","0.586","MDL","TARGET","57","8","5.05","RDL","YES","50.5","990","1","1.01",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","205-99-2","Benzo (b) fluoranthene","46.5","g/l","0.441","MDL","TARGET","92","12","5.05","RDL","YES","50.5","990","1","1.01",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","206-44-0","Fluoranthene","29.1","g/l","0.644","MDL","TARGET","58","2","5.05","RDL","YES","50.5","990","1","1.01",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","207-08-9","Benzo (k) fluoranthene","45.6","g/l","QR2","0.485","MDL","TARGET","90","30","5.05","RDL","YES","50.5","990","1","1.01",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","208-96-8","Acenaphthylene","28.2","g/l","0.690","MDL","TARGET","56","11","5.05","RDL","YES","50.5","990","1","1.01",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","218-01-9","Chrysene","33.8","g/l","0.537","MDL","TARGET","67","11","5.05","RDL","YES","50.5","990","1","1.01",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","321-60-8","2-Fluorobiphenyl","33.5","g/l","-99","NA","SUR","66","-99","NA","YES","50.5","990","1","-99",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","4165-60-0","Nitrobenzene-d5","35.1","g/l","-99","NA","SUR","70","-99","NA","YES","50.5","990","1","-99",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","50-32-8","Benzo (a) pyrene","37.4","g/l","0.568","MDL","TARGET","74","9","5.05","RDL","YES","50.5","990","1","1.01",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","53-70-3","Dibenzo (a,h) anthracene","29.9","g/l","0.455","MDL","TARGET","59","4","5.05","RDL","YES","50.5","990","1","1.01",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","56-55-3","Benzo (a) anthracene","32.4","g/l","0.541","MDL","TARGET","64","6","5.05","RDL","YES","50.5","990","1","1.01",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","83-32-9","Acenaphthene","25.3","g/l","0.698","MDL","TARGET","50","3","5.05","RDL","YES","50.5","990","1","1.01",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","85-01-8","Phenanthrene","28.3","g/l","QC2","0.592","MDL","TARGET","56","6","5.05","RDL","YES","50.5","990","1","1.01",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","86-73-7","Fluorene","28.7","g/l","0.618","MDL","TARGET","57","5","5.05","RDL","YES","50.5","990","1","1.01",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","90-12-0","1-Methylnaphthalene","24.9","g/l","0.740","MDL","TARGET","49","9","5.05","RDL","YES","50.5","990","1","1.01",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","91-20-3","Naphthalene","22.7","g/l","0.692","MDL","TARGET","45","5","5.05","RDL","YES","50.5","990","1","1.01",  
"1715009-BSD1","SW846 8270D","RES","1715009-BSD1","ESAI","91-57-6","2-

Methylnaphthalene", "29.9", "g/l", "0.580", "MDL", "TARGET", "59", "0.7", "5.05", "RDL", "YES", "50.5", "990", "1", "1.01",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "1024-57-3", "Heptachlor  
epoxide", "0.020", "g/l", "U", "0.015", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "1024-57-3", "Heptachlor epoxide  
[2C]", "0.020", "g/l", "U", "0.015", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "1031-07-8", "Endosulfan  
sulfate", "0.020", "g/l", "U", "0.020", "MDL", "TARGET", "0.040", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "1031-07-8", "Endosulfan sulfate  
[2C]", "0.020", "g/l", "U", "0.017", "MDL", "TARGET", "0.040", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "10386-84-2", "4,4-DB-Octafluorobiphenyl  
(Sr)", "0.212", "g/l", "-99", "NA", "SUR", "105", "-99", "NA", "YES", "0.202", "990", "10", "-99",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "10386-84-2", "4,4-DB-Octafluorobiphenyl  
(Sr) [2C]", "0.214", "g/l", "-99", "NA", "SUR", "106", "-99", "NA", "YES", "0.202", "990", "10", "-99",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "15972-60-  
8", "Alachlor", "0.020", "g/l", "U", "0.019", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "15972-60-8", "Alachlor  
[2C]", "0.020", "g/l", "U", "0.018", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "2051-24-3", "Decachlorobiphenyl  
(Sr)", "0.158", "g/l", "-99", "NA", "SUR", "78", "-99", "NA", "YES", "0.202", "990", "10", "-99",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "2051-24-3", "Decachlorobiphenyl (Sr)  
[2C]", "0.143", "g/l", "-99", "NA", "SUR", "71", "-99", "NA", "YES", "0.202", "990", "10", "-99",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "309-00-  
2", "Aldrin", "0.020", "g/l", "U", "0.016", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "309-00-2", "Aldrin  
[2C]", "0.020", "g/l", "U", "0.019", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "319-84-6", "alpha-  
BHC", "0.020", "g/l", "U", "0.012", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "319-84-6", "alpha-BHC  
[2C]", "0.020", "g/l", "U", "0.018", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "319-85-7", "beta-  
BHC", "0.020", "g/l", "U", "0.015", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "319-85-7", "beta-BHC  
[2C]", "0.020", "g/l", "U", "0.019", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "319-86-8", "delta-  
BHC", "0.020", "g/l", "U", "0.016", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "319-86-8", "delta-BHC  
[2C]", "0.020", "g/l", "U", "0.019", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "33213-65-9", "Endosulfan  
II", "0.020", "g/l", "U", "0.020", "MDL", "TARGET", "0.040", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "33213-65-9", "Endosulfan II  
[2C]", "0.020", "g/l", "U", "0.016", "MDL", "TARGET", "0.040", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "50-29-3", "4,4'-DDT  
(p,p)", "0.030", "g/l", "U", "0.018", "MDL", "TARGET", "0.040", "RDL", "YES", "-99", "990", "10", "0.030",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "50-29-3", "4,4'-DDT (p,p)  
[2C]", "0.030", "g/l", "U", "0.022", "MDL", "TARGET", "0.040", "RDL", "YES", "-99", "990", "10", "0.030",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "5103-71-9", "alpha-  
Chlordane", "0.020", "g/l", "U", "0.016", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "5103-71-9", "alpha-Chlordane  
[2C]", "0.020", "g/l", "U", "0.017", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "5103-74-2", "Chlordane (gamma)  
(trans)", "0.020", "g/l", "U", "0.016", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "5103-74-2", "Chlordane (gamma)(trans)  
[2C]", "0.020", "g/l", "U", "0.014", "MDL", "TARGET", "0.020", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "53494-70-5", "Endrin  
ketone", "0.020", "g/l", "U", "0.017", "MDL", "TARGET", "0.040", "RDL", "YES", "-99", "990", "10", "0.020",  
"1715010-BLK1", "SW846 8081B", "RES", "1715010-BLK1", "ESAI", "53494-70-5", "Endrin ketone

[2C]","0.020","g/l","U","0.018","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","57-74-9","Chlordane",  
9,"Chlordane","0.066","g/l","U","0.052","MDL","TARGET","0.066","RDL","YES","-99","990","10","0.066",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","57-74-9","Chlordane",  
[2C]","0.066","g/l","U","0.062","MDL","TARGET","0.066","RDL","YES","-99","990","10","0.066",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","58-89-9","gamma-BHC  
(Lindane)","0.020","g/l","U","0.017","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","58-89-9","gamma-BHC (Lindane)",  
[2C]","0.020","g/l","U","0.018","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","60-57-1",  
1,"Dieldrin","0.020","g/l","U","0.017","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","60-57-1","Dieldrin",  
[2C]","0.020","g/l","U","0.019","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","72-20-8",  
8,"Endrin","0.020","g/l","U","0.019","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","72-20-8","Endrin",  
[2C]","0.020","g/l","U","0.020","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","72-43-5",  
5,"Methoxychlor","0.020","g/l","U","0.018","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","72-43-5","Methoxychlor",  
[2C]","0.020","g/l","U","0.018","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","72-54-8",  
4,4'-DDD (p,p')","0.020","g/l","U","0.019","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","72-54-8",  
4,4'-DDD (p,p')",  
[2C]","0.020","g/l","U","0.018","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","72-55-9",  
4,4'-DDE (p,p')","0.020","g/l","U","0.018","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","72-55-9",  
4,4'-DDE (p,p')",  
[2C]","0.020","g/l","U","0.018","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","7421-93-4",  
Endrin aldehyde","0.020","g/l","U","0.019","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","7421-93-4",  
Endrin aldehyde",  
[2C]","0.020","g/l","U","0.018","MDL","TARGET","0.040","RDL","YES","-99","990","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","76-44-8",  
8,"Heptachlor","0.020","g/l","U","0.020","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","76-44-8",  
Heptachlor",  
[2C]","0.020","g/l","U","0.020","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","8001-35-2",  
2,"Toxaphene","0.505","g/l","U","0.331","MDL","TARGET","0.505","RDL","YES","-99","990","10","0.505",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","8001-35-2",  
Toxaphene",  
[2C]","0.505","g/l","U","0.290","MDL","TARGET","0.505","RDL","YES","-99","990","10","0.505",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","877-09-8",  
2,4,5,6-TC-M-Xylene (IS)","0.020","g/ml","-99","NA","ISTD","113","-99","NA","YES","10.0","990","10","-99",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","877-09-8",  
2,4,5,6-TC-M-Xylene (IS)",  
[2C]","0.020","g/ml","-99","NA","ISTD","109","-99","NA","YES","10.0","990","10","-99",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","959-98-8",  
Endosulfan I","0.020","g/l","U","0.016","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","959-98-8",  
Endosulfan I",  
[2C]","0.020","g/l","U","0.016","MDL","TARGET","0.020","RDL","YES","-99","990","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","1024-57-3",  
Heptachlor epoxide","0.388","g/l","0.016","MDL","TARGET","76","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BLK1","SW846 8081B","RES","1715010-BLK1","ESAI","1024-57-3",  
Heptachlor epoxide",  
[2C]","0.383","g/l","0.015","MDL","TARGET","75","0.020","RDL","YES","0.510","980","10","0.020",

"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","1031-07-8","Endosulfan sulfate","0.415","g/l","0.020","MDL","TARGET","81","0.041","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","1031-07-8","Endosulfan sulfate [2C]","0.367","g/l","0.017","MDL","TARGET","72","0.041","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr)","0.205","g/l","-99","NA","SUR","101","-99","NA","YES","0.204","980","10","-99",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr) [2C]","0.206","g/l","-99","NA","SUR","101","-99","NA","YES","0.204","980","10","-99",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","15972-60-8","Alachlor","0.468","g/l","0.019","MDL","TARGET","92","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","15972-60-8","Alachlor [2C]","0.387","g/l","0.018","MDL","TARGET","76","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","2051-24-3","Decachlorobiphenyl (Sr)","0.180","g/l","-99","NA","SUR","88","-99","NA","YES","0.204","980","10","-99",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","2051-24-3","Decachlorobiphenyl (Sr) [2C]","0.145","g/l","-99","NA","SUR","71","-99","NA","YES","0.204","980","10","-99",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","309-00-2","Aldrin","0.372","g/l","0.016","MDL","TARGET","73","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","309-00-2","Aldrin [2C]","0.392","g/l","0.019","MDL","TARGET","77","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","319-84-6","alpha-BHC","0.377","g/l","0.012","MDL","TARGET","74","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","319-84-6","alpha-BHC [2C]","0.352","g/l","0.018","MDL","TARGET","69","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","319-85-7","beta-BHC","0.388","g/l","0.015","MDL","TARGET","76","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","319-85-7","beta-BHC [2C]","0.392","g/l","0.019","MDL","TARGET","77","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","319-86-8","delta-BHC","0.381","g/l","0.016","MDL","TARGET","75","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","319-86-8","delta-BHC [2C]","0.360","g/l","0.020","MDL","TARGET","71","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","33213-65-9","Endosulfan II","0.410","g/l","0.020","MDL","TARGET","80","0.041","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","33213-65-9","Endosulfan II [2C]","0.371","g/l","0.016","MDL","TARGET","73","0.041","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","50-29-3","4,4'-DDT (p,p')","0.398","g/l","0.018","MDL","TARGET","78","0.041","RDL","YES","0.510","980","10","0.031",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","50-29-3","4,4'-DDT (p,p') [2C]","0.334","g/l","0.022","MDL","TARGET","65","0.041","RDL","YES","0.510","980","10","0.031",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","5103-71-9","alpha-Chlordane","0.393","g/l","0.016","MDL","TARGET","77","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","5103-71-9","alpha-Chlordane [2C]","0.390","g/l","0.017","MDL","TARGET","76","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","5103-74-2","Chlordane (gamma (trans))","0.385","g/l","0.016","MDL","TARGET","75","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","5103-74-2","Chlordane (gamma (trans)) [2C]","0.381","g/l","0.014","MDL","TARGET","75","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","53494-70-5","Endrin ketone","0.407","g/l","0.018","MDL","TARGET","80","0.041","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","53494-70-5","Endrin ketone [2C]","0.343","g/l","0.018","MDL","TARGET","67","0.041","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","58-89-9","gamma-BHC (Lindane)","0.390","g/l","0.018","MDL","TARGET","76","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","58-89-9","gamma-BHC (Lindane) [2C]","0.400","g/l","0.018","MDL","TARGET","78","0.020","RDL","YES","0.510","980","10","0.020",



"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","60-57-1","Dieldrin","0.389","g/l","0.017","MDL","TARGET","76","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","60-57-1","Dieldrin [2C]","0.376","g/l","0.019","MDL","TARGET","74","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","72-20-8","Endrin","0.436","g/l","0.020","MDL","TARGET","85","0.041","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","72-20-8","Endrin [2C]","0.423","g/l","0.020","MDL","TARGET","83","0.041","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","72-43-5","Methoxychlor","0.447","g/l","0.019","MDL","TARGET","88","0.041","RDL","YES","0.510","980","10",  
"0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","72-43-5","Methoxychlor [2C]","0.355","g/l","0.019","MDL","TARGET","70","0.041","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","72-54-8","4,4'-DDD (p,p)","0.394","g/l","0.019","MDL","TARGET","77","0.041","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","72-54-8","4,4'-DDD (p,p) [2C]","0.379","g/l","0.018","MDL","TARGET","74","0.041","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","72-55-9","4,4'-DDE (p,p)","0.385","g/l","0.018","MDL","TARGET","75","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","72-55-9","4,4'-DDE (p,p) [2C]","0.385","g/l","0.018","MDL","TARGET","75","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","7421-93-4","Endrin aldehyde","0.445","g/l","0.020","MDL","TARGET","87","0.041","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","7421-93-4","Endrin aldehyde [2C]","0.400","g/l","0.018","MDL","TARGET","78","0.041","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","76-44-8","Heptachlor","0.376","g/l","0.020","MDL","TARGET","74","0.020","RDL","YES","0.510","980","10",  
"0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","76-44-8","Heptachlor [2C]","0.376","g/l","0.020","MDL","TARGET","74","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)","0.020","g/ml","-99","NA","ISTD","112","-99","NA","YES","10.0","980","10","-99",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS) [2C]","0.020","g/ml","-99","NA","ISTD","109","-99","NA","YES","10.0","980","10","-99",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","959-98-8","Endosulfan I","0.396","g/l","0.017","MDL","TARGET","78","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BS1","SW846 8081B","RES","1715010-BS1","ESAI","959-98-8","Endosulfan I [2C]","0.396","g/l","0.016","MDL","TARGET","78","0.020","RDL","YES","0.510","980","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","1024-57-3","Heptachlor epoxide","0.384","g/l","0.015","MDL","TARGET","76","1","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","1024-57-3","Heptachlor epoxide [2C]","0.378","g/l","0.015","MDL","TARGET","75","1","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","1031-07-8","Endosulfan sulfate","0.401","g/l","0.020","MDL","TARGET","79","3","0.040","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","1031-07-8","Endosulfan sulfate [2C]","0.357","g/l","0.017","MDL","TARGET","71","3","0.040","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr)","0.204","g/l","-99","NA","SUR","101","-99","NA","YES","0.202","990","10","-99",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr) [2C]","0.205","g/l","-99","NA","SUR","101","-99","NA","YES","0.202","990","10","-99",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","15972-60-8","Alachlor","0.460","g/l","0.019","MDL","TARGET","91","2","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","15972-60-8","Alachlor [2C]","0.387","g/l","0.018","MDL","TARGET","77","0.1","0.020","RDL","YES","0.505","990","10","0.020",

"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","2051-24-3","Decachlorobiphenyl (Sr)","0.172","g/l","-99","NA","SUR","85","-99","NA","YES","0.202","990","10","-99",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","2051-24-3","Decachlorobiphenyl (Sr) [2C]","0.144","g/l","-99","NA","SUR","71","-99","NA","YES","0.202","990","10","-99",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","309-00-2","Aldrin","0.369","g/l","0.016","MDL","TARGET","73","0.7","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","309-00-2","Aldrin [2C]","0.390","g/l","0.019","MDL","TARGET","77","0.6","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","319-84-6","alpha-BHC","0.376","g/l","0.012","MDL","TARGET","74","0.3","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","319-84-6","alpha-BHC [2C]","0.351","g/l","0.018","MDL","TARGET","69","0.5","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","319-85-7","beta-BHC","0.385","g/l","0.015","MDL","TARGET","76","0.8","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","319-85-7","beta-BHC [2C]","0.386","g/l","0.019","MDL","TARGET","76","2","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","319-86-8","delta-BHC","0.380","g/l","0.016","MDL","TARGET","75","0.3","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","319-86-8","delta-BHC [2C]","0.356","g/l","0.019","MDL","TARGET","70","1","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","33213-65-9","Endosulfan II","0.397","g/l","0.020","MDL","TARGET","79","3","0.040","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","33213-65-9","Endosulfan II [2C]","0.363","g/l","0.016","MDL","TARGET","72","2","0.040","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","50-29-3","4,4'-DDT (p,p')","0.390","g/l","0.018","MDL","TARGET","77","2","0.040","RDL","YES","0.505","990","10","0.030",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","50-29-3","4,4'-DDT (p,p') [2C]","0.330","g/l","0.022","MDL","TARGET","65","1","0.040","RDL","YES","0.505","990","10","0.030",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","5103-71-9","alpha-Chlordane","0.391","g/l","0.016","MDL","TARGET","77","0.4","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","5103-71-9","alpha-Chlordane [2C]","0.387","g/l","0.017","MDL","TARGET","77","0.9","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","5103-74-2","Chlordane (gamma) (trans)","0.381","g/l","0.016","MDL","TARGET","75","1","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","5103-74-2","Chlordane (gamma)(trans) [2C]","0.377","g/l","0.014","MDL","TARGET","75","1","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","53494-70-5","Endrin ketone","0.400","g/l","0.017","MDL","TARGET","79","2","0.040","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","53494-70-5","Endrin ketone [2C]","0.336","g/l","0.018","MDL","TARGET","66","2","0.040","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","58-89-9","gamma-BHC (Lindane)","0.388","g/l","0.017","MDL","TARGET","77","0.5","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","58-89-9","gamma-BHC (Lindane) [2C]","0.397","g/l","0.018","MDL","TARGET","79","0.6","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","60-57-1","Dieldrin","0.383","g/l","0.017","MDL","TARGET","76","2","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","60-57-1","Dieldrin [2C]","0.375","g/l","0.019","MDL","TARGET","74","0.3","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","72-20-8","Endrin","0.418","g/l","0.019","MDL","TARGET","83","4","0.040","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","72-20-8","Endrin [2C]","0.422","g/l","0.020","MDL","TARGET","84","0.2","0.040","RDL","YES","0.505","990","10","0.020",

"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","72-43-5","Methoxychlor","0.421","g/l","0.018","MDL","TARGET","83","6","0.040","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","72-43-5","Methoxychlor [2C]","0.350","g/l","0.018","MDL","TARGET","69","2","0.040","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","72-54-8","4,4'-DDD (p,p')","0.384","g/l","0.019","MDL","TARGET","76","3","0.040","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","72-54-8","4,4'-DDD (p,p') [2C]","0.368","g/l","0.018","MDL","TARGET","73","3","0.040","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","72-55-9","4,4'-DDE (p,p')","0.381","g/l","0.018","MDL","TARGET","75","1","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","72-55-9","4,4'-DDE (p,p') [2C]","0.382","g/l","0.018","MDL","TARGET","76","0.7","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","7421-93-4","Endrin aldehyde","0.435","g/l","0.019","MDL","TARGET","86","2","0.040","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","7421-93-4","Endrin aldehyde [2C]","0.392","g/l","0.018","MDL","TARGET","78","2","0.040","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","76-44-8","Heptachlor","0.374","g/l","0.020","MDL","TARGET","74","0.7","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","76-44-8","Heptachlor [2C]","0.376","g/l","0.020","MDL","TARGET","75","0.05","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)","0.020","g/ml","-99","NA","ISTD","113","-99","NA","YES","10.0","990","10","-99",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS) [2C]","0.020","g/ml","-99","NA","ISTD","109","-99","NA","YES","10.0","990","10","-99",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","959-98-8","Endosulfan I","0.392","g/l","0.016","MDL","TARGET","78","1","0.020","RDL","YES","0.505","990","10","0.020",  
"1715010-BSD1","SW846 8081B","RES","1715010-BSD1","ESAI","959-98-8","Endosulfan I [2C]","0.389","g/l","0.016","MDL","TARGET","77","2","0.020","RDL","YES","0.505","990","10","0.020",  
"1715035-BLK1","SM2320B (97, 11)","RES","1715035-BLK1","ESAI","NA","Total Alkalinity","3.00","mg/l CaCO3","U","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00",  
"1715035-BLK2","SM2320B (97, 11)","RES","1715035-BLK2","ESAI","NA","Total Alkalinity","3.00","mg/l CaCO3","U","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00",  
"1715035-BLK3","SM2320B (97, 11)","RES","1715035-BLK3","ESAI","NA","Total Alkalinity","3.00","mg/l CaCO3","U","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00",  
"1715035-BLK4","SM2320B (97, 11)","RES","1715035-BLK4","ESAI","NA","Total Alkalinity","3.00","mg/l CaCO3","U","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00",  
"1715035-BS1","SM2320B (97, 11)","RES","1715035-BS1","ESAI","NA","Total Alkalinity","52.6","mg/l CaCO3","1.05","MDL","TARGET","105","4.00","RDL","YES","50.0","50","50","3.00",  
"1715035-BS2","SM2320B (97, 11)","RES","1715035-BS2","ESAI","NA","Total Alkalinity","53.4","mg/l CaCO3","1.05","MDL","TARGET","107","4.00","RDL","YES","50.0","50","50","3.00",  
"1715035-BS3","SM2320B (97, 11)","RES","1715035-BS3","ESAI","NA","Total Alkalinity","52.1","mg/l CaCO3","1.05","MDL","TARGET","104","4.00","RDL","YES","50.0","50","50","3.00",  
"1715035-BS4","SM2320B (97, 11)","RES","1715035-BS4","ESAI","NA","Total Alkalinity","52.9","mg/l CaCO3","1.05","MDL","TARGET","106","4.00","RDL","YES","50.0","50","50","3.00",  
"1715035-SRM1","SM2320B (97, 11)","RES","1715035-SRM1","ESAI","NA","Total Alkalinity","122","mg/l CaCO3","2.62","MDL","TARGET","98","10.0","RDL","YES","124","20","50","7.50",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr)","0.165","g/l","-99","NA","SUR","80","-99","NA","YES","0.206","970","10","-99",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr) [2C]","0.186","g/l","-99","NA","SUR","90","-99","NA","YES","0.206","970","10","-99",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","11096-82-5","Aroclor-1260","0.206","g/l","U","0.0877","MDL","TARGET","0.206","RDL","YES","-99","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","11096-82-5","Aroclor-1260

[2C]","0.206","g/l","U","0.119","MDL","TARGET","0.206","RDL","YES","-99","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","11097-69-1","Aroclor-  
1254","0.206","g/l","U","0.120","MDL","TARGET","0.206","RDL","YES","-99","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","11097-69-1","Aroclor-1254  
[2C]","0.206","g/l","U","0.117","MDL","TARGET","0.206","RDL","YES","-99","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","11100-14-4","Aroclor-  
1268","0.206","g/l","U","0.0943","MDL","TARGET","0.206","RDL","YES","-99","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","11100-14-4","Aroclor-1268  
[2C]","0.206","g/l","U","0.123","MDL","TARGET","0.206","RDL","YES","-99","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","11104-28-2","Aroclor-  
1221","0.206","g/l","U","0.119","MDL","TARGET","0.206","RDL","YES","-99","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","11104-28-2","Aroclor-1221  
[2C]","0.206","g/l","U","0.186","MDL","TARGET","0.206","RDL","YES","-99","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","11141-16-5","Aroclor-  
1232","0.206","g/l","U","0.114","MDL","TARGET","0.206","RDL","YES","-99","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","11141-16-5","Aroclor-1232  
[2C]","0.206","g/l","U","0.0874","MDL","TARGET","0.206","RDL","YES","-99","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","12672-29-6","Aroclor-  
1248","0.206","g/l","U","0.140","MDL","TARGET","0.206","RDL","YES","-99","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","12672-29-6","Aroclor-1248  
[2C]","0.206","g/l","U","0.129","MDL","TARGET","0.206","RDL","YES","-99","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","12674-11-2","Aroclor-  
1016","0.206","g/l","U","0.107","MDL","TARGET","0.206","RDL","YES","-99","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","12674-11-2","Aroclor-1016  
[2C]","0.206","g/l","U","0.125","MDL","TARGET","0.206","RDL","YES","-99","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","2051-24-3","Decachlorobiphenyl  
(Sr)","0.186","g/l","-99","NA","SUR","90","-99","NA","YES","0.206","970","10","-99",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","2051-24-3","Decachlorobiphenyl (Sr)  
[2C]","0.227","g/l","-99","NA","SUR","110","-99","NA","YES","0.206","970","10","-99",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","37324-23-5","Aroclor-  
1262","0.206","g/l","U","0.0924","MDL","TARGET","0.206","RDL","YES","-99","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","37324-23-5","Aroclor-1262  
[2C]","0.206","g/l","U","0.131","MDL","TARGET","0.206","RDL","YES","-99","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","53469-21-9","Aroclor-  
1242","0.206","g/l","U","0.111","MDL","TARGET","0.206","RDL","YES","-99","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","53469-21-9","Aroclor-1242  
[2C]","0.206","g/l","U","0.109","MDL","TARGET","0.206","RDL","YES","-99","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene  
(IS)","0.0200","g/ml","-99","NA","ISTD","98","-99","NA","YES","10.0","970","10","-99",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)  
[2C]","0.0200","g/ml","-99","NA","ISTD","99","-99","NA","YES","10.0","970","10","-99",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl  
(Sr)","0.186","g/l","-99","NA","SUR","90","-99","NA","YES","0.206","970","10","-99",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr)  
[2C]","0.186","g/l","-99","NA","SUR","90","-99","NA","YES","0.206","970","10","-99",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","11096-82-5","Aroclor-  
1260","2.54","g/l","0.0877","MDL","TARGET","98","0.206","RDL","YES","2.58","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","11096-82-5","Aroclor-1260  
[2C]","2.75","g/l","0.119","MDL","TARGET","107","0.206","RDL","YES","2.58","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","12674-11-2","Aroclor-  
1016","2.69","g/l","0.107","MDL","TARGET","104","0.206","RDL","YES","2.58","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","12674-11-2","Aroclor-1016  
[2C]","2.60","g/l","0.125","MDL","TARGET","101","0.206","RDL","YES","2.58","970","10","0.206",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","2051-24-3","Decachlorobiphenyl  
(Sr)","0.227","g/l","-99","NA","SUR","110","-99","NA","YES","0.206","970","10","-99",  
"1715132-BLK1","SW846 8082A","RES","1715132-BLK1","ESAI","2051-24-3","Decachlorobiphenyl (Sr)  
[2C]","0.216","g/l","-99","NA","SUR","105","-99","NA","YES","0.206","970","10","-99",

"1715132-BS1","SW846 8082A","RES","1715132-BS1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)","0.0200","◆g/ml","-99","NA","ISTD","92","-99","NA","YES","10.0","970","10","-99",  
"1715132-BS1","SW846 8082A","RES","1715132-BS1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS) [2C]","0.0200","◆g/ml","-99","NA","ISTD","90","-99","NA","YES","10.0","970","10","-99",  
"1715132-BSD1","SW846 8082A","RES","1715132-BSD1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr)","0.180","◆g/l","-99","NA","SUR","90","-99","NA","YES","0.200","1000","10","-99",  
"1715132-BSD1","SW846 8082A","RES","1715132-BSD1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr) [2C]","0.180","◆g/l","-99","NA","SUR","90","-99","NA","YES","0.200","1000","10","-99",  
"1715132-BSD1","SW846 8082A","RES","1715132-BSD1","ESAI","11096-82-5","Aroclor-1260","2.37","◆g/l","0.0851","MDL","TARGET","95","7","0.200","RDL","YES","2.50","1000","10","0.200",  
"1715132-BSD1","SW846 8082A","RES","1715132-BSD1","ESAI","11096-82-5","Aroclor-1260 [2C]","2.91","◆g/l","0.115","MDL","TARGET","116","6","0.200","RDL","YES","2.50","1000","10","0.200",  
"1715132-BSD1","SW846 8082A","RES","1715132-BSD1","ESAI","12674-11-2","Aroclor-1016","2.58","◆g/l","0.104","MDL","TARGET","103","4","0.200","RDL","YES","2.50","1000","10","0.200",  
"1715132-BSD1","SW846 8082A","RES","1715132-BSD1","ESAI","12674-11-2","Aroclor-1016 [2C]","2.67","◆g/l","0.122","MDL","TARGET","107","3","0.200","RDL","YES","2.50","1000","10","0.200",  
"1715132-BSD1","SW846 8082A","RES","1715132-BSD1","ESAI","2051-24-3","Decachlorobiphenyl (Sr)","0.190","◆g/l","-99","NA","SUR","95","-99","NA","YES","0.200","1000","10","-99",  
"1715132-BSD1","SW846 8082A","RES","1715132-BSD1","ESAI","2051-24-3","Decachlorobiphenyl (Sr) [2C]","0.230","◆g/l","-99","NA","SUR","115","-99","NA","YES","0.200","1000","10","-99",  
"1715132-BSD1","SW846 8082A","RES","1715132-BSD1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)","0.0200","◆g/ml","-99","NA","ISTD","96","-99","NA","YES","10.0","1000","10","-99",  
"1715132-BSD1","SW846 8082A","RES","1715132-BSD1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS) [2C]","0.0200","◆g/ml","-99","NA","ISTD","84","-99","NA","YES","10.0","1000","10","-99",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","100-41-4","Ethylbenzene","0.5","◆g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","100-42-5","Styrene","1.0","◆g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","10061-01-5","cis-1,3-Dichloropropene","0.5","◆g/l","U","0.4","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","10061-02-6","trans-1,3-Dichloropropene","0.5","◆g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","106-46-7","1,4-Dichlorobenzene","0.5","◆g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","106-93-4","1,2-Dibromoethane (EDB)","0.5","◆g/l","U","0.2","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","107-06-2","1,2-Dichloroethane","1.0","◆g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","2.0","◆g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","108-87-2","Methylcyclohexane","2.0","◆g/l","U","0.7","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","108-88-3","Toluene","1.0","◆g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","108-90-7","Chlorobenzene","0.5","◆g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","110-82-7","Cyclohexane","2.0","◆g/l","U","0.8","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","120-82-1","1,2,4-Trichlorobenzene","1.0","◆g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","124-48-1","Dibromochloromethane","0.5","◆g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","127-18-4","Tetrachloroethene","1.0","◆g/l","U","0.6","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","156-59-2","cis-1,2-Dichloroethene","0.5","◆g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","156-60-5","trans-1,2-

Dichloroethene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "1634-04-4", "Methyl tert-butyl  
ether", "0.5", "g/l", "U", "0.2", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "17060-07-0", "1,2-Dichloroethane-  
d4", "51.0", "g/l", "-99", "NA", "SUR", "102", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "179601-23-1", "m,p-  
Xylene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "1868-53-  
7", "Dibromofluoromethane", "51.2", "g/l", "-99", "NA", "SUR", "102", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "2037-26-5", "Toluene-  
d8", "52.1", "g/l", "-99", "NA", "SUR", "104", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "3114-55-4", "Chlorobenzene-  
d5", "50.0", "g/l", "-99", "NA", "ISTD", "97", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "3855-82-1", "1,4-Dichlorobenzene-  
d4", "50.0", "g/l", "-99", "NA", "ISTD", "101", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "460-00-4", "4-  
Bromofluorobenzene", "52.2", "g/l", "-99", "NA", "SUR", "104", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "462-06-  
6", "Fluorobenzene", "50.0", "g/l", "-99", "NA", "ISTD", "93", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "541-73-1", "1,3-  
Dichlorobenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "56-23-5", "Carbon  
tetrachloride", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "591-78-6", "2-Hexanone  
(MBK)", "2.0", "g/l", "U", "0.5", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "67-64-  
1", "Acetone", "2.0", "g/l", "U", "0.8", "MDL", "TARGET", "10.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "67-66-  
3", "Chloroform", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "71-43-  
2", "Benzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "71-55-6", "1,1,1-  
Trichloroethane", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "74-83-  
9", "Bromomethane", "2.0", "g/l", "U", "0.9", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "74-87-  
3", "Chloromethane", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "74-97-  
5", "Bromochloromethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "75-00-  
3", "Chloroethane", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "75-01-4", "Vinyl  
chloride", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "75-09-2", "Methylene  
chloride", "2.0", "g/l", "U", "0.7", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "75-15-0", "Carbon  
disulfide", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "75-25-  
2", "Bromoform", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "75-27-  
4", "Bromodichloromethane", "0.5", "g/l", "U", "0.4", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "75-34-3", "1,1-  
Dichloroethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "75-35-4", "1,1-  
Dichloroethene", "1.0", "g/l", "U", "0.7", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"1715197-BLK1", "SW846 8260C", "RES", "1715197-BLK1", "ESAI", "75-69-4", "Trichlorofluoromethane (Freon  
11)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",

"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","75-71-8","Dichlorodifluoromethane (Freon12)","2.0","g/l","U","0.6","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane (Freon 113)","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","78-87-5","1,2-Dichloropropane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","78-93-3","2-Butanone (MEK)","2.0","g/l","U","1.1","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","79-00-5","1,1,2-Trichloroethane","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","79-01-6","Trichloroethene","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","79-20-9","Methyl acetate","2.0","g/l","U","0.6","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","79-34-5","1,1,2,2-Tetrachloroethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","87-61-6","1,2,3-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","95-47-6","o-Xylene","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","95-50-1","1,2-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","96-12-8","1,2-Dibromo-3-chloropropane","2.0","g/l","U","0.9","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"1715197-BLK1","SW846 8260C","RES","1715197-BLK1","ESAI","98-82-8","Isopropylbenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","100-41-4","Ethylbenzene","21.0","g/l","-99","NA","TARGET","105","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","100-42-5","Styrene","21.5","g/l","-99","NA","TARGET","108","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","10061-01-5","cis-1,3-Dichloropropene","20.7","g/l","-99","NA","TARGET","103","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","10061-02-6","trans-1,3-Dichloropropene","21.6","g/l","-99","NA","TARGET","108","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","106-46-7","1,4-Dichlorobenzene","19.1","g/l","-99","NA","TARGET","95","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","106-93-4","1,2-Dibromoethane (EDB)","23.2","g/l","-99","NA","TARGET","116","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","107-06-2","1,2-Dichloroethane","21.7","g/l","-99","NA","TARGET","109","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","22.1","g/l","-99","NA","TARGET","111","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","108-87-2","Methylcyclohexane","22.2","g/l","-99","NA","TARGET","111","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","108-88-3","Toluene","22.7","g/l","-99","NA","TARGET","114","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","108-90-7","Chlorobenzene","20.5","g/l","-99","NA","TARGET","103","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","110-82-7","Cyclohexane","22.4","g/l","-99","NA","TARGET","112","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","120-82-1","1,2,4-Trichlorobenzene","19.8","g/l","-99","NA","TARGET","99","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","124-48-1","Dibromochloromethane","21.8","g/l","-99","NA","TARGET","109","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","127-18-4","Tetrachloroethene","22.3","g/l","-99","NA","TARGET","112","-99","NA","YES","20.0","5","5","-99",

"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","156-59-2","cis-1,2-Dichloroethene","21.7","g/l","-99","NA","TARGET","108","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","156-60-5","trans-1,2-Dichloroethene","23.4","g/l","-99","NA","TARGET","117","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","1634-04-4","Methyl tert-butyl ether","22.7","g/l","-99","NA","TARGET","113","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","17060-07-0","1,2-Dichloroethane-d4","49.4","g/l","-99","NA","SUR","99","-99","NA","YES","50.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","179601-23-1","m,p-Xylene","21.3","g/l","-99","NA","TARGET","106","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","1868-53-7","Dibromofluoromethane","50.7","g/l","-99","NA","SUR","101","-99","NA","YES","50.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","2037-26-5","Toluene-d8","52.2","g/l","-99","NA","SUR","104","-99","NA","YES","50.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","3114-55-4","Chlorobenzene-d5","50.0","g/l","-99","NA","ISTD","103","-99","NA","YES","50.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","g/l","-99","NA","ISTD","108","-99","NA","YES","50.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","460-00-4","4-Bromofluorobenzene","50.6","g/l","-99","NA","SUR","101","-99","NA","YES","50.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","462-06-6","Fluorobenzene","50.0","g/l","-99","NA","ISTD","95","-99","NA","YES","50.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","541-73-1","1,3-Dichlorobenzene","21.0","g/l","-99","NA","TARGET","105","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","56-23-5","Carbon tetrachloride","21.7","g/l","-99","NA","TARGET","108","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","591-78-6","2-Hexanone (MBK)","21.8","g/l","-99","NA","TARGET","109","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","67-64-1","Acetone","22.9","g/l","-99","NA","TARGET","115","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","67-66-3","Chloroform","21.9","g/l","-99","NA","TARGET","110","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","71-43-2","Benzene","22.7","g/l","-99","NA","TARGET","114","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","71-55-6","1,1,1-Trichloroethane","22.5","g/l","-99","NA","TARGET","112","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","74-83-9","Bromomethane","20.0","g/l","-99","NA","TARGET","100","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","74-87-3","Chloromethane","21.0","g/l","-99","NA","TARGET","105","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","74-97-5","Bromochloromethane","22.4","g/l","-99","NA","TARGET","112","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","75-00-3","Chloroethane","20.4","g/l","-99","NA","TARGET","102","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","75-01-4","Vinyl chloride","21.5","g/l","-99","NA","TARGET","108","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","75-09-2","Methylene chloride","22.3","g/l","-99","NA","TARGET","112","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","75-15-0","Carbon disulfide","21.8","g/l","-99","NA","TARGET","109","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","75-25-2","Bromoform","21.1","g/l","-99","NA","TARGET","106","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","75-27-4","Bromodichloromethane","21.9","g/l","-99","NA","TARGET","110","-99","NA","YES","20.0","5","5","-99",  
"1715197-BS1","SW846 8260C","RES","1715197-BS1","ESAI","75-34-3","1,1-



Dichloroethane", "22.1", "g/l", "-99", "NA", "TARGET", "111", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BS1", "SW846 8260C", "RES", "1715197-BS1", "ESAI", "75-35-4", "1,1-  
Dichloroethene", "21.9", "g/l", "-99", "NA", "TARGET", "110", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BS1", "SW846 8260C", "RES", "1715197-BS1", "ESAI", "75-69-4", "Trichlorofluoromethane (Freon  
11)", "22.6", "g/l", "-99", "NA", "TARGET", "113", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BS1", "SW846 8260C", "RES", "1715197-BS1", "ESAI", "75-71-8", "Dichlorodifluoromethane  
(Freon12)", "20.7", "g/l", "-99", "NA", "TARGET", "104", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BS1", "SW846 8260C", "RES", "1715197-BS1", "ESAI", "76-13-1", "1,1,2-Trichlorotrifluoroethane  
(Freon 113)", "21.5", "g/l", "-99", "NA", "TARGET", "107", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BS1", "SW846 8260C", "RES", "1715197-BS1", "ESAI", "78-87-5", "1,2-  
Dichloropropane", "20.9", "g/l", "-99", "NA", "TARGET", "105", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BS1", "SW846 8260C", "RES", "1715197-BS1", "ESAI", "78-93-3", "2-Butanone  
(MEK)", "23.2", "g/l", "-99", "NA", "TARGET", "116", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BS1", "SW846 8260C", "RES", "1715197-BS1", "ESAI", "79-00-5", "1,1,2-  
Trichloroethane", "23.0", "g/l", "-99", "NA", "TARGET", "115", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BS1", "SW846 8260C", "RES", "1715197-BS1", "ESAI", "79-01-  
6", "Trichloroethene", "21.8", "g/l", "-99", "NA", "TARGET", "109", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BS1", "SW846 8260C", "RES", "1715197-BS1", "ESAI", "79-20-9", "Methyl  
acetate", "19.9", "g/l", "-99", "NA", "TARGET", "100", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BS1", "SW846 8260C", "RES", "1715197-BS1", "ESAI", "79-34-5", "1,1,2,2-  
Tetrachloroethane", "21.2", "g/l", "-99", "NA", "TARGET", "106", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BS1", "SW846 8260C", "RES", "1715197-BS1", "ESAI", "87-61-6", "1,2,3-  
Trichlorobenzene", "20.3", "g/l", "-99", "NA", "TARGET", "102", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BS1", "SW846 8260C", "RES", "1715197-BS1", "ESAI", "95-47-6", "o-  
Xylene", "20.9", "g/l", "-99", "NA", "TARGET", "104", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BS1", "SW846 8260C", "RES", "1715197-BS1", "ESAI", "95-50-1", "1,2-  
Dichlorobenzene", "20.0", "g/l", "-99", "NA", "TARGET", "100", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BS1", "SW846 8260C", "RES", "1715197-BS1", "ESAI", "96-12-8", "1,2-Dibromo-3-  
chloropropane", "19.8", "g/l", "-99", "NA", "TARGET", "99", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BS1", "SW846 8260C", "RES", "1715197-BS1", "ESAI", "98-82-  
8", "Isopropylbenzene", "20.4", "g/l", "-99", "NA", "TARGET", "102", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "100-41-  
4", "Ethylbenzene", "20.9", "g/l", "-99", "NA", "TARGET", "105", "0.4", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "100-42-  
5", "Styrene", "21.5", "g/l", "-99", "NA", "TARGET", "107", "0.2", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "10061-01-5", "cis-1,3-  
Dichloropropene", "20.8", "g/l", "-99", "NA", "TARGET", "104", "0.4", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "10061-02-6", "trans-1,3-  
Dichloropropene", "20.5", "g/l", "-99", "NA", "TARGET", "102", "5", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "106-46-7", "1,4-  
Dichlorobenzene", "18.7", "g/l", "-99", "NA", "TARGET", "93", "2", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "106-93-4", "1,2-Dibromoethane  
(EDB)", "23.0", "g/l", "-99", "NA", "TARGET", "115", "0.8", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "107-06-2", "1,2-  
Dichloroethane", "21.6", "g/l", "-99", "NA", "TARGET", "108", "0.6", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "108-10-1", "4-Methyl-2-pentanone  
(MIBK)", "21.8", "g/l", "-99", "NA", "TARGET", "109", "2", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "108-87-  
2", "Methylcyclohexane", "21.0", "g/l", "-99", "NA", "TARGET", "105", "5", "-99", "NA", "YES", "20.0", "5", "5", "-99"  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "108-88-  
3", "Toluene", "21.4", "g/l", "-99", "NA", "TARGET", "107", "6", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "108-90-  
7", "Chlorobenzene", "20.2", "g/l", "-99", "NA", "TARGET", "101", "2", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "110-82-  
7", "Cyclohexane", "21.2", "g/l", "-99", "NA", "TARGET", "106", "5", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "120-82-1", "1,2,4-

Trichlorobenzene", "18.8", "g/l", "-99", "NA", "TARGET", "94", "5", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "124-48-  
1", "Dibromochloromethane", "21.3", "g/l", "-99", "NA", "TARGET", "107", "2", "-99", "NA", "YES", "20.0", "5", "5",  
"-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "127-18-  
4", "Tetrachloroethene", "21.0", "g/l", "-99", "NA", "TARGET", "105", "6", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "156-59-2", "cis-1,2-  
Dichloroethene", "21.9", "g/l", "-99", "NA", "TARGET", "109", "0.8", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "156-60-5", "trans-1,2-  
Dichloroethene", "22.5", "g/l", "-99", "NA", "TARGET", "113", "4", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "1634-04-4", "Methyl tert-butyl  
ether", "22.8", "g/l", "-99", "NA", "TARGET", "114", "0.6", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "17060-07-0", "1,2-Dichloroethane-  
d4", "50.3", "g/l", "-99", "NA", "SUR", "101", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "179601-23-1", "m,p-  
Xylene", "20.7", "g/l", "-99", "NA", "TARGET", "103", "3", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "1868-53-  
7", "Dibromofluoromethane", "50.3", "g/l", "-99", "NA", "SUR", "101", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "2037-26-5", "Toluene-  
d8", "52.1", "g/l", "-99", "NA", "SUR", "104", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "3114-55-4", "Chlorobenzene-  
d5", "50.0", "g/l", "-99", "NA", "ISTD", "99", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "3855-82-1", "1,4-Dichlorobenzene-  
d4", "50.0", "g/l", "-99", "NA", "ISTD", "101", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "460-00-4", "4-  
Bromofluorobenzene", "52.3", "g/l", "-99", "NA", "SUR", "105", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "462-06-  
6", "Fluorobenzene", "50.0", "g/l", "-99", "NA", "ISTD", "101", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "541-73-1", "1,3-  
Dichlorobenzene", "20.8", "g/l", "-99", "NA", "TARGET", "104", "1", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "56-23-5", "Carbon  
tetrachloride", "20.6", "g/l", "-99", "NA", "TARGET", "103", "5", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "591-78-6", "2-Hexanone  
(MBK)", "23.2", "g/l", "-99", "NA", "TARGET", "116", "6", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "67-64-  
1", "Acetone", "21.8", "g/l", "-99", "NA", "TARGET", "109", "5", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "67-66-  
3", "Chloroform", "21.6", "g/l", "-99", "NA", "TARGET", "108", "2", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "71-43-  
2", "Benzene", "21.8", "g/l", "-99", "NA", "TARGET", "109", "4", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "71-55-6", "1,1,1-  
Trichloroethane", "21.5", "g/l", "-99", "NA", "TARGET", "107", "5", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "74-83-  
9", "Bromomethane", "20.6", "g/l", "-99", "NA", "TARGET", "103", "3", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "74-87-  
3", "Chloromethane", "20.7", "g/l", "-99", "NA", "TARGET", "103", "2", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "74-97-  
5", "Bromochloromethane", "22.1", "g/l", "-99", "NA", "TARGET", "110", "1", "-99", "NA", "YES", "20.0", "5", "5", "-  
99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "75-00-  
3", "Chloroethane", "19.9", "g/l", "-99", "NA", "TARGET", "100", "2", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "75-01-4", "Vinyl  
chloride", "20.8", "g/l", "-99", "NA", "TARGET", "104", "3", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "75-09-2", "Methylene  
chloride", "20.8", "g/l", "-99", "NA", "TARGET", "104", "7", "-99", "NA", "YES", "20.0", "5", "5", "-99",  
"1715197-BSD1", "SW846 8260C", "RES", "1715197-BSD1", "ESAI", "75-15-0", "Carbon  
disulfide", "21.1", "g/l", "-99", "NA", "TARGET", "105", "3", "-99", "NA", "YES", "20.0", "5", "5", "-99",

"1715197-BSD1","SW846 8260C","RES","1715197-BSD1","ESAI","75-25-2","Bromoform","21.4","g/l","-99","NA","TARGET","107","1","-99","NA","YES","20.0","5","5","-99",  
"1715197-BSD1","SW846 8260C","RES","1715197-BSD1","ESAI","75-27-4","Bromodichloromethane","22.4","g/l","-99","NA","TARGET","112","2","-99","NA","YES","20.0","5","5","-99",  
"1715197-BSD1","SW846 8260C","RES","1715197-BSD1","ESAI","75-34-3","1,1-Dichloroethane","21.6","g/l","-99","NA","TARGET","108","2","-99","NA","YES","20.0","5","5","-99",  
"1715197-BSD1","SW846 8260C","RES","1715197-BSD1","ESAI","75-35-4","1,1-Dichloroethene","21.2","g/l","-99","NA","TARGET","106","3","-99","NA","YES","20.0","5","5","-99",  
"1715197-BSD1","SW846 8260C","RES","1715197-BSD1","ESAI","75-69-4","Trichlorofluoromethane (Freon 11)","21.4","g/l","-99","NA","TARGET","107","5","-99","NA","YES","20.0","5","5","-99",  
"1715197-BSD1","SW846 8260C","RES","1715197-BSD1","ESAI","75-71-8","Dichlorodifluoromethane (Freon12)","19.6","g/l","-99","NA","TARGET","98","6","-99","NA","YES","20.0","5","5","-99",  
"1715197-BSD1","SW846 8260C","RES","1715197-BSD1","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane (Freon 113)","20.5","g/l","-99","NA","TARGET","102","5","-99","NA","YES","20.0","5","5","-99",  
"1715197-BSD1","SW846 8260C","RES","1715197-BSD1","ESAI","78-87-5","1,2-Dichloropropane","21.6","g/l","-99","NA","TARGET","108","3","-99","NA","YES","20.0","5","5","-99",  
"1715197-BSD1","SW846 8260C","RES","1715197-BSD1","ESAI","78-93-3","2-Butanone (MEK)","19.8","g/l","-99","NA","TARGET","99","16","-99","NA","YES","20.0","5","5","-99",  
"1715197-BSD1","SW846 8260C","RES","1715197-BSD1","ESAI","79-00-5","1,1,2-Trichloroethane","22.3","g/l","-99","NA","TARGET","111","3","-99","NA","YES","20.0","5","5","-99",  
"1715197-BSD1","SW846 8260C","RES","1715197-BSD1","ESAI","79-01-6","Trichloroethene","21.0","g/l","-99","NA","TARGET","105","4","-99","NA","YES","20.0","5","5","-99",  
"1715197-BSD1","SW846 8260C","RES","1715197-BSD1","ESAI","79-20-9","Methyl acetate","19.8","g/l","-99","NA","TARGET","99","0.5","-99","NA","YES","20.0","5","5","-99",  
"1715197-BSD1","SW846 8260C","RES","1715197-BSD1","ESAI","79-34-5","1,1,2,2-Tetrachloroethane","21.1","g/l","-99","NA","TARGET","105","0.6","-99","NA","YES","20.0","5","5","-99",  
"1715197-BSD1","SW846 8260C","RES","1715197-BSD1","ESAI","87-61-6","1,2,3-Trichlorobenzene","20.8","g/l","-99","NA","TARGET","104","2","-99","NA","YES","20.0","5","5","-99",  
"1715197-BSD1","SW846 8260C","RES","1715197-BSD1","ESAI","95-47-6","o-Xylene","21.4","g/l","-99","NA","TARGET","107","2","-99","NA","YES","20.0","5","5","-99",  
"1715197-BSD1","SW846 8260C","RES","1715197-BSD1","ESAI","95-50-1","1,2-Dichlorobenzene","19.7","g/l","-99","NA","TARGET","99","1","-99","NA","YES","20.0","5","5","-99",  
"1715197-BSD1","SW846 8260C","RES","1715197-BSD1","ESAI","96-12-8","1,2-Dibromo-3-chloropropane","22.1","g/l","-99","NA","TARGET","111","11","-99","NA","YES","20.0","5","5","-99",  
"1715197-BSD1","SW846 8260C","RES","1715197-BSD1","ESAI","98-82-8","Isopropylbenzene","20.2","g/l","-99","NA","TARGET","101","1","-99","NA","YES","20.0","5","5","-99",  
"1715310-BLK1","Mod EPA 3C/SOP RSK-175","RES","1715310-BLK1","ESAI","74-82-8","Methane","2.20","g/l","U","2.16","MDL","TARGET","2.20","RDL","YES","-99","10","10","2.20",  
"1715310-BLK1","Mod EPA 3C/SOP RSK-175","RES","1715310-BLK1","ESAI","74-84-0","Ethane","5.00","g/l","U","3.48","MDL","TARGET","5.00","RDL","YES","-99","10","10","5.00",  
"1715310-BL1","Mod EPA 3C/SOP RSK-175","RES","1715310-BL1","ESAI","74-82-8","Methane","527","mg/l","-99","NA","TARGET","105","-99","NA","YES","500","10","10","-99",  
"1715310-BL1","Mod EPA 3C/SOP RSK-175","RES","1715310-BL1","ESAI","74-84-0","Ethane","596","mg/l","-99","NA","TARGET","119","-99","NA","YES","500","10","10","-99",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","1146-65-2","Naphthalene-d8","40.0","g/ml","-99","NA","ISTD","160","-99","NA","YES","40.0","990","1","-99",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","120-12-7","Anthracene","1.01","g/l","U","0.614","MDL","TARGET","5.05","RDL","YES","-99","990","1","1.01",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","129-00-0","Pyrene","1.01","g/l","U","0.616","MDL","TARGET","5.05","RDL","YES","-99","990","1","1.01",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","15067-26-2","Acenaphthene-d10","40.0","g/ml","-99","NA","ISTD","183","-99","NA","YES","40.0","990","1","-99",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","1517-22-2","Phenanthrene-d10","40.0","g/ml","-99","NA","ISTD","165","-99","NA","YES","40.0","990","1","-99",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","1520-96-3","Perylene-d12","40.0","g/ml","-99","NA","ISTD","157","-99","NA","YES","40.0","990","1","-99",

"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","1718-51-0","Terphenyl-  
di4","38.0","g/l","-99","NA","SUR","75","-99","NA","YES","50.5","990","1","-99",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","1719-03-5","Chrysene-  
d12","40.0","g/ml","-99","NA","ISTD","150","-99","NA","YES","40.0","990","1","-99",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","191-24-2","Benzo (g,h,i)  
perylene","1.01","g/l","U","0.535","MDL","TARGET","5.05","RDL","YES","-99","990","1","1.01",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","193-39-5","Indeno (1,2,3-cd)  
pyrene","1.01","g/l","U","0.586","MDL","TARGET","5.05","RDL","YES","-99","990","1","1.01",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","205-99-2","Benzo (b)  
fluoranthene","1.01","g/l","U","0.441","MDL","TARGET","5.05","RDL","YES","-99","990","1","1.01",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","206-44-  
0","Fluoranthene","1.01","g/l","U","0.644","MDL","TARGET","5.05","RDL","YES","-99","990","1","1.01",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","207-08-9","Benzo (k)  
fluoranthene","1.01","g/l","U","0.485","MDL","TARGET","5.05","RDL","YES","-99","990","1","1.01",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","208-96-  
8","Acenaphthylene","1.01","g/l","U","0.690","MDL","TARGET","5.05","RDL","YES","-99","990","1","1.01",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","218-01-  
9","Chrysene","1.01","g/l","U","0.537","MDL","TARGET","5.05","RDL","YES","-99","990","1","1.01",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","321-60-8","2-  
Fluorobiphenyl","22.0","g/l","-99","NA","SUR","44","-99","NA","YES","50.5","990","1","-99",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","4165-60-0","Nitrobenzene-  
d5","25.2","g/l","-99","NA","SUR","50","-99","NA","YES","50.5","990","1","-99",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","50-32-8","Benzo (a)  
pyrene","1.01","g/l","U","0.568","MDL","TARGET","5.05","RDL","YES","-99","990","1","1.01",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","53-70-3","Dibenzo (a,h)  
anthracene","1.01","g/l","U","0.455","MDL","TARGET","5.05","RDL","YES","-99","990","1","1.01",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","56-55-3","Benzo (a)  
anthracene","1.01","g/l","U","0.541","MDL","TARGET","5.05","RDL","YES","-99","990","1","1.01",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","83-32-  
9","Acenaphthene","1.01","g/l","U","0.698","MDL","TARGET","5.05","RDL","YES","-99","990","1","1.01",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","85-01-  
8","Phenanthrene","1.01","g/l","U","0.592","MDL","TARGET","5.05","RDL","YES","-99","990","1","1.01",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","86-73-  
7","Fluorene","1.01","g/l","U","0.618","MDL","TARGET","5.05","RDL","YES","-99","990","1","1.01",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","90-12-0","1-  
Methylnaphthalene","1.01","g/l","U","0.740","MDL","TARGET","5.05","RDL","YES","-99","990","1","1.01",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","91-20-  
3","Naphthalene","1.01","g/l","U","0.692","MDL","TARGET","5.05","RDL","YES","-99","990","1","1.01",  
"1715314-BLK1","SW846 8270D","RES","1715314-BLK1","ESAI","91-57-6","2-  
Methylnaphthalene","1.01","g/l","U","0.580","MDL","TARGET","5.05","RDL","YES","-99","990","1","1.01",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","1146-65-2","Naphthalene-  
d8","40.0","g/ml","-99","NA","ISTD","136","-99","NA","YES","40.0","990","1","-99",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","120-12-  
7","Anthracene","33.1","g/l","0.614","MDL","TARGET","66","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","129-00-  
0","Pyrene","36.6","g/l","0.616","MDL","TARGET","72","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","15067-26-2","Acenaphthene-  
d10","40.0","g/ml","-99","NA","ISTD","146","-99","NA","YES","40.0","990","1","-99",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","1517-22-2","Phenanthrene-  
d10","40.0","g/ml","-99","NA","ISTD","137","-99","NA","YES","40.0","990","1","-99",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","1520-96-3","Perylene-  
d12","40.0","g/ml","-99","NA","ISTD","135","-99","NA","YES","40.0","990","1","-99",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","1718-51-0","Terphenyl-  
di4","53.1","g/l","-99","NA","SUR","105","-99","NA","YES","50.5","990","1","-99",

"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","1719-03-5","Chrysene-  
d12","40.0","g/ml","-99","NA","ISTD","130","-99","NA","YES","40.0","990","1","-99",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","191-24-2","Benzo (g,h,i)  
perylene","43.9","g/l","0.535","MDL","TARGET","87","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","193-39-5","Indeno (1,2,3-cd)  
pyrene","44.2","g/l","0.586","MDL","TARGET","87","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","205-99-2","Benzo (b)  
fluoranthene","42.1","g/l","0.441","MDL","TARGET","83","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","206-44-  
0","Fluoranthene","37.1","g/l","0.644","MDL","TARGET","73","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","207-08-9","Benzo (k)  
fluoranthene","41.4","g/l","0.485","MDL","TARGET","82","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","208-96-  
8","Acenaphthylene","32.3","g/l","0.690","MDL","TARGET","64","5.05","RDL","YES","50.5","990","1","1.  
01",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","218-01-  
9","Chrysene","37.5","g/l","0.537","MDL","TARGET","74","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","321-60-8","2-  
Fluorobiphenyl","38.4","g/l","-99","NA","SUR","76","-99","NA","YES","50.5","990","1","-99",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","4165-60-0","Nitrobenzene-  
d5","37.4","g/l","-99","NA","SUR","74","-99","NA","YES","50.5","990","1","-99",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","50-32-8","Benzo (a)  
pyrene","41.0","g/l","0.568","MDL","TARGET","81","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","53-70-3","Dibenzo (a,h)  
anthracene","48.6","g/l","0.455","MDL","TARGET","96","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","56-55-3","Benzo (a)  
anthracene","35.7","g/l","0.541","MDL","TARGET","71","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","83-32-  
9","Acenaphthene","29.7","g/l","0.698","MDL","TARGET","59","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","85-01-  
8","Phenanthrene","32.4","g/l","0.592","MDL","TARGET","64","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","86-73-  
7","Fluorene","32.3","g/l","0.618","MDL","TARGET","64","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","90-12-0","1-  
Methylnaphthalene","29.4","g/l","0.740","MDL","TARGET","58","5.05","RDL","YES","50.5","990","1","1.0  
1",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","91-20-  
3","Naphthalene","25.0","g/l","0.692","MDL","TARGET","50","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BS1","SW846 8270D","RES","1715314-BS1","ESAI","91-57-6","2-  
Methylnaphthalene","36.7","g/l","0.580","MDL","TARGET","73","5.05","RDL","YES","50.5","990","1","1.0  
1",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","1146-65-2","Naphthalene-  
d8","40.0","g/ml","-99","NA","ISTD","138","-99","NA","YES","40.0","990","1","-99",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","120-12-  
7","Anthracene","33.0","g/l","0.614","MDL","TARGET","65","0.4","5.05","RDL","YES","50.5","990","1","1.  
01",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","129-00-  
0","Pyrene","34.0","g/l","0.616","MDL","TARGET","67","7","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","15067-26-2","Acenaphthene-  
d10","40.0","g/ml","-99","NA","ISTD","154","-99","NA","YES","40.0","990","1","-99",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","1517-22-2","Phenanthrene-  
d10","40.0","g/ml","-99","NA","ISTD","142","-99","NA","YES","40.0","990","1","-99",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","1520-96-3","Perylene-  
d12","40.0","g/ml","-99","NA","ISTD","134","-99","NA","YES","40.0","990","1","-99",

"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","1718-51-0","Terphenyl-  
di4","49.9","g/l","-99","NA","SUR","99","-99","NA","YES","50.5","990","1","-99",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","1719-03-5","Chrysene-  
d12","40.0","g/ml","-99","NA","ISTD","137","-99","NA","YES","40.0","990","1","-99",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","191-24-2","Benzo (g,h,i)  
perylene","41.8","g/l","0.535","MDL","TARGET","83","5","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","193-39-5","Indeno (1,2,3-cd)  
pyrene","43.8","g/l","0.586","MDL","TARGET","87","0.9","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","205-99-2","Benzo (b)  
fluoranthene","49.1","g/l","0.441","MDL","TARGET","97","15","5.05","RDL","YES","50.5","990","1","1.01",  
/,"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","206-44-  
0","Fluoranthene","35.5","g/l","0.644","MDL","TARGET","70","4","5.05","RDL","YES","50.5","990","1","1.  
01",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","207-08-9","Benzo (k)  
fluoranthene","39.3","g/l","0.485","MDL","TARGET","78","5","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","208-96-  
8","Acenaphthylene","34.2","g/l","0.690","MDL","TARGET","68","6","5.05","RDL","YES","50.5","990","1",  
"1.01",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","218-01-  
9","Chrysene","38.0","g/l","0.537","MDL","TARGET","75","1","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","321-60-8","2-  
Fluorobiphenyl","42.5","g/l","-99","NA","SUR","84","-99","NA","YES","50.5","990","1","-99",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","4165-60-0","Nitrobenzene-  
d5","40.5","g/l","-99","NA","SUR","80","-99","NA","YES","50.5","990","1","-99",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","50-32-8","Benzo (a)  
pyrene","42.2","g/l","0.568","MDL","TARGET","84","3","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","53-70-3","Dibenzo (a,h)  
anthracene","47.0","g/l","0.455","MDL","TARGET","93","3","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","56-55-3","Benzo (a)  
anthracene","35.6","g/l","0.541","MDL","TARGET","70","0.3","5.05","RDL","YES","50.5","990","1","1.01",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","83-32-  
9","Acenaphthene","32.6","g/l","0.698","MDL","TARGET","65","9","5.05","RDL","YES","50.5","990","1","1  
.01",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","85-01-  
8","Phenanthrene","31.3","g/l","0.592","MDL","TARGET","62","3","5.05","RDL","YES","50.5","990","1","1  
.01",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","86-73-  
7","Fluorene","35.7","g/l","0.618","MDL","TARGET","71","10","5.05","RDL","YES","50.5","990","1","1.01",  
/,"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","90-12-0","1-  
Methylnaphthalene","31.3","g/l","0.740","MDL","TARGET","62","6","5.05","RDL","YES","50.5","990","1",  
1.01",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","91-20-  
3","Naphthalene","28.2","g/l","0.692","MDL","TARGET","56","12","5.05","RDL","YES","50.5","990","1","1.  
01",  
"1715314-BSD1","SW846 8270D","RES","1715314-BSD1","ESAI","91-57-6","2-  
Methylnaphthalene","31.2","g/l","0.580","MDL","TARGET","62","16","5.05","RDL","YES","50.5","990","1",  
"1.01",  
"1715538-BLK1","SM5310B (00, 11)","RES","1715538-BLK1","ESAI","NA","Total Organic  
Carbon","0.500","mg/l","U","0.238","MDL","TARGET","1.00","RDL","YES","-99","40","40","0.500",  
"1715538-BS1","SM5310B (00, 11)","RES","1715538-BS1","ESAI","NA","Total Organic  
Carbon","16.9","mg/l","0.238","MDL","TARGET","113","1.00","RDL","YES","15.0","40","40","0.500",  
"1715538-CCB1","SM5310B (00, 11)","RES","1715538-CCB1","ESAI","NA","Total Organic  
Carbon","0.171","mg/l","-99","NA","TARGET","-99","NA","YES","-99","40","40","-99",  
"1715538-CCB2","SM5310B (00, 11)","RES","1715538-CCB2","ESAI","NA","Total Organic  
Carbon","0.130","mg/l","-99","NA","TARGET","-99","NA","YES","-99","40","40","-99",

"1715538-CCB3","SM5310B (00, 11)","RES","1715538-CCB3","ESAI","NA","Total Organic Carbon","0.335","mg/l","J","-99","NA","TARGET","-99","NA","YES","-99","40","40","-99",  
"1715538-CCB4","SM5310B (00, 11)","RES","1715538-CCB4","ESAI","NA","Total Organic Carbon","0.316","mg/l","J","-99","NA","TARGET","-99","NA","YES","-99","40","40","-99",  
"1715538-CCV1","SM5310B (00, 11)","RES","1715538-CCV1","ESAI","NA","Total Organic Carbon","14.0","mg/l","0.238","MDL","TARGET","93","1.00","RDL","YES","15.0","40","40","0.500",  
"1715538-CCV2","SM5310B (00, 11)","RES","1715538-CCV2","ESAI","NA","Total Organic Carbon","17.0","mg/l","0.238","MDL","TARGET","113","1.00","RDL","YES","15.0","40","40","0.500",  
"1715538-CCV3","SM5310B (00, 11)","RES","1715538-CCV3","ESAI","NA","Total Organic Carbon","17.0","mg/l","0.238","MDL","TARGET","114","1.00","RDL","YES","15.0","40","40","0.500",  
"1715538-CCV4","SM5310B (00, 11)","RES","1715538-CCV4","ESAI","NA","Total Organic Carbon","16.9","mg/l","0.238","MDL","TARGET","113","1.00","RDL","YES","15.0","40","40","0.500",  
"1715538-SRM1","SM5310B (00, 11)","RES","1715538-SRM1","ESAI","NA","Total Organic Carbon","17.5","mg/l","QM9","0.238","MDL","TARGET","121","1.00","RDL","YES","14.6","40","40","0.500",  
"1715587-BLK1","SW846 6010C","RES","1715587-BLK1","ESAI","7429-90-5","Aluminum","0.0500","mg/l","U","0.0206","MDL","TARGET","0.0500","RDL","YES","-99","50","50","0.0500",  
"1715587-BLK1","SW846 6010C","RES","1715587-BLK1","ESAI","7439-89-6","Iron","0.0300","mg/l","U","0.0089","MDL","TARGET","0.0300","RDL","YES","-99","50","50","0.0300",  
"1715587-BLK1","SW846 6010C","RES","1715587-BLK1","ESAI","7439-95-4","Magnesium","0.0100","mg/l","U","0.0088","MDL","TARGET","0.0200","RDL","YES","-99","50","50","0.0100",  
"1715587-BLK1","SW846 6010C","RES","1715587-BLK1","ESAI","7440-09-7","Potassium","0.250","mg/l","U","0.120","MDL","TARGET","1.00","RDL","YES","-99","50","50","0.250",  
"1715587-BLK1","SW846 6010C","RES","1715587-BLK1","ESAI","7440-23-5","Sodium","0.250","mg/l","U","0.0785","MDL","TARGET","0.500","RDL","YES","-99","50","50","0.250",  
"1715587-BLK1","SW846 6010C","RES","1715587-BLK1","ESAI","7440-70-2","Calcium","0.0500","mg/l","U","0.0142","MDL","TARGET","0.200","RDL","YES","-99","50","50","0.0500",  
"1715587-BS1","SW846 6010C","RES","1715587-BS1","ESAI","7429-90-5","Aluminum","2.51","mg/l","0.0206","MDL","TARGET","101","0.0500","RDL","YES","2.50","50","50","0.0500",  
"1715587-BS1","SW846 6010C","RES","1715587-BS1","ESAI","7439-89-6","Iron","2.51","mg/l","0.0089","MDL","TARGET","101","0.0300","RDL","YES","2.50","50","50","0.0300",  
"1715587-BS1","SW846 6010C","RES","1715587-BS1","ESAI","7439-95-4","Magnesium","2.48","mg/l","0.0088","MDL","TARGET","99","0.0200","RDL","YES","2.50","50","50","0.0200",  
"1715587-BS1","SW846 6010C","RES","1715587-BS1","ESAI","7440-09-7","Potassium","24.4","mg/l","0.120","MDL","TARGET","98","1.00","RDL","YES","25.0","50","50","0.250",  
"1715587-BS1","SW846 6010C","RES","1715587-BS1","ESAI","7440-23-5","Sodium","12.0","mg/l","0.0785","MDL","TARGET","96","0.500","RDL","YES","12.5","50","50","0.250",  
"1715587-BS1","SW846 6010C","RES","1715587-BS1","ESAI","7440-70-2","Calcium","12.5","mg/l","0.0142","MDL","TARGET","100","0.200","RDL","YES","12.5","50","50","0.0500",  
"1715587-BSD1","SW846 6010C","RES","1715587-BSD1","ESAI","7429-90-5","Aluminum","2.53","mg/l","0.0206","MDL","TARGET","101","0.5","0.0500","RDL","YES","2.50","50","50","0.0500",  
"1715587-BSD1","SW846 6010C","RES","1715587-BSD1","ESAI","7439-89-6","Iron","2.60","mg/l","0.0089","MDL","TARGET","104","3","0.0300","RDL","YES","2.50","50","50","0.0300",  
"1715587-BSD1","SW846 6010C","RES","1715587-BSD1","ESAI","7439-95-4","Magnesium","2.57","mg/l","0.0088","MDL","TARGET","103","4","0.0200","RDL","YES","2.50","50","50","0.0200",  
"1715587-BSD1","SW846 6010C","RES","1715587-BSD1","ESAI","7440-09-7","Potassium","25.0","mg/l","0.120","MDL","TARGET","100","2","1.00","RDL","YES","25.0","50","50","0.250",  
"1715587-BSD1","SW846 6010C","RES","1715587-BSD1","ESAI","7440-23-

5", "Sodium", "12.3", "mg/l", "0.0785", "MDL", "TARGET", "98", "2", "0.500", "RDL", "YES", "12.5", "50", "50", "0.250",  
"1715587-BSD1", "SW846 6010C", "RES", "1715587-BSD1", "ESAI", "7440-70-2", "Calcium", "12.9", "mg/l", "0.0142", "MDL", "TARGET", "103", "3", "0.200", "RDL", "YES", "12.5", "50", "50", "0.0500",  
"1715589-BLK1", "EPA 245.1/7470A", "RES", "1715589-BLK1", "ESAI", "7439-97-6", "Mercury", "0.00013", "mg/l", "J", "0.00013", "MDL", "TARGET", "0.00020", "RDL", "YES", "-99", "20", "20", "0.00020",  
"1715589-BS1", "EPA 245.1/7470A", "RES", "1715589-BS1", "ESAI", "7439-97-6", "Mercury", "0.00526", "mg/l", "0.00013", "MDL", "TARGET", "105", "0.00020", "RDL", "YES", "0.00500", "20", "20", "0.00020",  
"TF1-DUP-01-082917", "EPA 200/6000 methods", "RES", "SC38678-06", "ESAI", "NA", "Preservation", "0", "N/A", "-99", "NA", "TARGET", "-99", "NA", "YES", "-99", "1", "1", "-99", "Field Preserved; pH<2 confirmed",  
"TF1-DUP-01-082917", "EPA 245.1/7470A", "RES", "SC38678-06", "ESAI", "7439-97-6", "Mercury", "0.00020", "mg/l", "U", "0.00013", "MDL", "TARGET", "0.00020", "RDL", "YES", "-99", "20", "20", "0.00020",  
"TF1-DUP-01-082917", "EPA 300.0", "RES", "SC38678-06", "ESAI", "14797-55-8", "Nitrate as N", "0.100", "mg/l", "U", "0.009", "MDL", "TARGET", "0.100", "RDL", "YES", "-99", "5", "5", "0.100",  
"TF1-DUP-01-082917", "EPA 300.0", "RES", "SC38678-06", "ESAI", "14808-79-8", "Sulfate as SO4", "17.4", "mg/l", "0.307", "MDL", "TARGET", "1.00", "RDL", "YES", "-99", "5", "5", "1.00",  
"TF1-DUP-01-082917", "EPA 300.0", "RES", "SC38678-06", "ESAI", "16887-00-6", "Chloride", "40.0", "mg/l", "0.0897", "MDL", "TARGET", "1.00", "RDL", "YES", "-99", "5", "5", "0.100",  
"TF1-DUP-01-082917", "EPA 537 Modified", "RES", "SC38678-06", "ESAI", "1763-23-1", "Perfluorooctanesulfonate", "8", "ng/l", "2", "MDL", "TARGET", "6", "RDL", "YES", "-99", "-99",  
"TF1-DUP-01-082917", "EPA 537 Modified", "RES", "SC38678-06", "ESAI", "1763-23-1L", "13C8-PFOS", "40", "ng/l", "-99", "NA", "SUR", "84", "-99", "NA", "YES", "48", "-99",  
"TF1-DUP-01-082917", "EPA 537 Modified", "RES", "SC38678-06", "ESAI", "2058-94-8", "Perfluoroundecanoic acid", "0", "ng/l", "1", "MDL", "TARGET", "3", "RDL", "YES", "-99", "-99", "<",  
"TF1-DUP-01-082917", "EPA 537 Modified", "RES", "SC38678-06", "ESAI", "2058-94-8L", "13C7-PFUnDA", "37", "ng/l", "-99", "NA", "SUR", "74", "-99", "NA", "YES", "50", "-99",  
"TF1-DUP-01-082917", "EPA 537 Modified", "RES", "SC38678-06", "ESAI", "2706-90-3", "Perfluoropentanoic Acid", "61", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99",  
"TF1-DUP-01-082917", "EPA 537 Modified", "RES", "SC38678-06", "ESAI", "2706-90-3L", "13C5-PFPeA", "47", "ng/l", "-99", "NA", "SUR", "94", "-99", "NA", "YES", "50", "-99",  
"TF1-DUP-01-082917", "EPA 537 Modified", "RES", "SC38678-06", "ESAI", "307-24-4", "Perfluorohexanoic acid", "76", "ng/l", "0.6", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99",  
"TF1-DUP-01-082917", "EPA 537 Modified", "RES", "SC38678-06", "ESAI", "307-24-4L", "13C5-PFHxA", "41", "ng/l", "-99", "NA", "SUR", "83", "-99", "NA", "YES", "50", "-99",  
"TF1-DUP-01-082917", "EPA 537 Modified", "RES", "SC38678-06", "ESAI", "307-55-1", "Perfluorododecanoic acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<",  
"TF1-DUP-01-082917", "EPA 537 Modified", "RES", "SC38678-06", "ESAI", "307-55-1L", "13C2-PFDoDA", "33", "ng/l", "-99", "NA", "SUR", "65", "-99", "NA", "YES", "50", "-99",  
"TF1-DUP-01-082917", "EPA 537 Modified", "RES", "SC38678-06", "ESAI", "335-67-1", "Perfluorooctanoic acid", "43", "ng/l", "0.6", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99",  
"TF1-DUP-01-082917", "EPA 537 Modified", "RES", "SC38678-06", "ESAI", "335-67-1L", "13C8-PFOA", "41", "ng/l", "-99", "NA", "SUR", "82", "-99", "NA", "YES", "50", "-99",  
"TF1-DUP-01-082917", "EPA 537 Modified", "RES", "SC38678-06", "ESAI", "335-76-2", "Perfluorodecanoic acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<",  
"TF1-DUP-01-082917", "EPA 537 Modified", "RES", "SC38678-06", "ESAI", "335-76-2L", "13C6-PFDA", "45", "ng/l", "-99", "NA", "SUR", "90", "-99", "NA", "YES", "50", "-99",  
"TF1-DUP-01-082917", "EPA 537 Modified", "RES", "SC38678-06", "ESAI", "335-77-3", "Perfluorodecanesulfonate", "0", "ng/l", "2", "MDL", "TARGET", "6", "RDL", "YES", "-99", "-99", "<",  
"TF1-DUP-01-082917", "EPA 537 Modified", "RES", "SC38678-06", "ESAI", "355-46-4", "Perfluorohexanesulfonate", "97", "ng/l", "1", "MDL", "TARGET", "3", "RDL", "YES", "-99", "-99",  
"TF1-DUP-01-082917", "EPA 537 Modified", "RES", "SC38678-06", "ESAI", "355-46-4L", "13C3-PFHxS", "37", "ng/l", "-99", "NA", "SUR", "78", "-99", "NA", "YES", "47", "-99",



"TF1-DUP-01-082917","EPA 537 Modified","RES","SC38678-06","ESAI","375-22-4","Perfluorobutanoic Acid","25","ng/l","3","MDL","TARGET","10","RDL","YES","-99","-99",  
"TF1-DUP-01-082917","EPA 537 Modified","RES","SC38678-06","ESAI","375-22-4L","13C4-PFBA","40","ng/l","-99","NA","SUR","80","-99","NA","YES","50","-99",  
"TF1-DUP-01-082917","EPA 537 Modified","RES","SC38678-06","ESAI","375-73-5","Perfluorobutanesulfonate","16","ng/l","0.8","MDL","TARGET","3","RDL","YES","-99","-99",  
"TF1-DUP-01-082917","EPA 537 Modified","RES","SC38678-06","ESAI","375-73-5L","13C3-PFBS","48","ng/l","-99","NA","SUR","104","-99","NA","YES","46","-99",  
"TF1-DUP-01-082917","EPA 537 Modified","RES","SC38678-06","ESAI","375-85-9","Perfluoroheptanoic acid","15","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-DUP-01-082917","EPA 537 Modified","RES","SC38678-06","ESAI","375-85-9L","13C4-PFHpA","43","ng/l","-99","NA","SUR","86","-99","NA","YES","50","-99",  
"TF1-DUP-01-082917","EPA 537 Modified","RES","SC38678-06","ESAI","375-92-8","Perfluoroheptanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<",  
"TF1-DUP-01-082917","EPA 537 Modified","RES","SC38678-06","ESAI","375-95-1","Perfluorononanoic acid","0","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99","<",  
"TF1-DUP-01-082917","EPA 537 Modified","RES","SC38678-06","ESAI","375-95-1L","13C9-PFNA","37","ng/l","-99","NA","SUR","74","-99","NA","YES","50","-99",  
"TF1-DUP-01-082917","EPA 537 Modified","RES","SC38678-06","ESAI","376-06-7","Perfluorotetradecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<",  
"TF1-DUP-01-082917","EPA 537 Modified","RES","SC38678-06","ESAI","376-06-7L","13C2-PFTeDA","34","ng/l","-99","NA","SUR","68","-99","NA","YES","50","-99",  
"TF1-DUP-01-082917","EPA 537 Modified","RES","SC38678-06","ESAI","72629-94-8","Perfluorotridecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<",  
"TF1-DUP-01-082917","EPA 537 Modified","RES","SC38678-06","ESAI","754-91-6","PFOSA","0","ng/l","3","MDL","TARGET","9","RDL","YES","-99","-99","<",  
"TF1-DUP-01-082917","EPA 537 Modified","RES","SC38678-06","ESAI","754-91-6L","13C8-PFOA","15","ng/l","-99","NA","SUR","31","-99","NA","YES","50","-99",  
"TF1-DUP-01-082917","Mod EPA 3C/SOP RSK-175","RES","SC38678-06","ESAI","74-82-8","Methane","2.20","g/l","U","2.16","MDL","TARGET","2.20","RDL","YES","-99","10","10","2.20",  
"TF1-DUP-01-082917","Mod EPA 3C/SOP RSK-175","RES","SC38678-06","ESAI","74-84-0","Ethane","5.00","g/l","U","3.48","MDL","TARGET","5.00","RDL","YES","-99","10","10","5.00",  
"TF1-DUP-01-082917","SM18-22 5210B","RES","SC38678-06","ESAI","NA","Biochemical Oxygen Demand (5-day)","2.97","mg/l","BOD4, U","2.74","MDL","TARGET","3.00","RDL","YES","-99","300","300","2.97",  
"TF1-DUP-01-082917","SM2320B (97, 11)","RES","SC38678-06","ESAI","NA","Total Alkalinity","61.0","mg/l CaCO3","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00",  
"TF1-DUP-01-082917","SM5310B (00, 11)","RES","SC38678-06","ESAI","NA","Total Organic Carbon","0.964","mg/l","J","0.238","MDL","TARGET","1.00","RDL","YES","-99","40","40","0.500",  
"TF1-DUP-01-082917","SW- 846 6020A","RES","SC38678-06","ESAI","7439-98-7","Molybdenum","0","mg/l","0.00025","MDL","TARGET","0.0010","RDL","YES","-99","-99","<",  
"TF1-DUP-01-082917","SW-846 6020A","RES","SC38678-06","ESAI","7440-39-3","Barium","0.0109","mg/l","0.00072","MDL","TARGET","0.0040","RDL","YES","-99","-99",  
"TF1-DUP-01-082917","SW846 6010C","RES","SC38678-06","ESAI","7429-90-5","Aluminum","0.0500","mg/l","U","0.0206","MDL","TARGET","0.0500","RDL","YES","-99","50","50","0.0500",  
"TF1-DUP-01-082917","SW846 6010C","RES","SC38678-06","ESAI","7439-89-6","Iron","17.9","mg/l","0.0089","MDL","TARGET","0.0300","RDL","YES","-99","50","50","0.0300",  
"TF1-DUP-01-082917","SW846 6010C","RES","SC38678-06","ESAI","7439-95-4","Magnesium","7.58","mg/l","0.0088","MDL","TARGET","0.0200","RDL","YES","-99","50","50","0.0100",  
"TF1-DUP-01-082917","SW846 6010C","RES","SC38678-06","ESAI","7440-09-7","Potassium","1.50","mg/l","0.120","MDL","TARGET","1.00","RDL","YES","-99","50","50","0.250",  
"TF1-DUP-01-082917","SW846 6010C","RES","SC38678-06","ESAI","7440-23-5","Sodium","22.5","mg/l","0.0785","MDL","TARGET","0.500","RDL","YES","-99","50","50","0.250",  
"TF1-DUP-01-082917","SW846 6010C","RES","SC38678-06","ESAI","7440-70-2","Calcium","8.65","mg/l","0.0142","MDL","TARGET","0.200","RDL","YES","-99","50","50","0.0500",  
"TF1-DUP-01-082917","SW-846 6020 A","RES","SC38678-06","ESAI","7782-49-2","Selenium","0","mg/l","0.00050","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"

"TF1-DUP-01-082917","SW-846 6020A","RES","SC38678-06","ESAI","7439-92-1","Lead","0","mg/l","0.00011","MDL","TARGET","0.0020","RDL","YES","-99","-99","<"

"TF1-DUP-01-082917","SW-846 6020A","RES","SC38678-06","ESAI","7439-96-5","Manganese","1.93","mg/l","0.00090","MDL","TARGET","0.0040","RDL","YES","-99","-99",

"TF1-DUP-01-082917","SW-846 6020A","RES","SC38678-06","ESAI","7440-02-0","Nickel","0.0457","mg/l","0.0010","MDL","TARGET","0.0040","RDL","YES","-99","-99",

"TF1-DUP-01-082917","SW-846 6020A","RES","SC38678-06","ESAI","7440-22-4","Silver","0","mg/l","0.00015","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"

"TF1-DUP-01-082917","SW-846 6020A","RES","SC38678-06","ESAI","7440-28-0","Thallium","0","mg/l","0.00012","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"

"TF1-DUP-01-082917","SW-846 6020A","RES","SC38678-06","ESAI","7440-36-0","Antimony","0","mg/l","0.00045","MDL","TARGET","0.0020","RDL","YES","-99","-99","<"

"TF1-DUP-01-082917","SW-846 6020A","RES","SC38678-06","ESAI","7440-38-2","Arsenic","0.0022","mg/l","Ja","0.00072","MDL","TARGET","0.0040","RDL","YES","-99","-99",

"TF1-DUP-01-082917","SW-846 6020A","RES","SC38678-06","ESAI","7440-41-7","Beryllium","0.00012","mg/l","Ja","0.000071","MDL","TARGET","0.0010","RDL","YES","-99","-99",

"TF1-DUP-01-082917","SW-846 6020A","RES","SC38678-06","ESAI","7440-43-9","Cadmium","0","mg/l","0.00015","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"

"TF1-DUP-01-082917","SW-846 6020A","RES","SC38678-06","ESAI","7440-47-3","Chromium","0","mg/l","0.00087","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"

"TF1-DUP-01-082917","SW-846 6020A","RES","SC38678-06","ESAI","7440-48-4","Cobalt","0.0279","mg/l","0.00016","MDL","TARGET","0.0010","RDL","YES","-99","-99",

"TF1-DUP-01-082917","SW-846 6020A","RES","SC38678-06","ESAI","7440-50-8","Copper","0","mg/l","0.00054","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"

"TF1-DUP-01-082917","SW-846 6020A","RES","SC38678-06","ESAI","7440-62-2","Vanadium","0","mg/l","0.00021","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"

"TF1-DUP-01-082917","SW-846 6020A","RES","SC38678-06","ESAI","7440-66-6","Zinc","0.0864","mg/l","0.0039","MDL","TARGET","0.0300","RDL","YES","-99","-99",

"TF1-DUP-01-082917","SW-846 8015B","RES","SC38678-06","ESAI","108-90-7","Chlorobenzene","0.012","mg/l","-99","NA","SUR","89","-99","NA","YES","0.014","-99",

"TF1-DUP-01-082917","SW-846 8015B","RES","SC38678-06","ESAI","84-15-1","Orthoterphenyl","0.013","mg/l","-99","NA","SUR","94","-99","NA","YES","0.014","-99",

"TF1-DUP-01-082917","SW-846 8015B","RES","SC38678-06","ESAI","PHCC8C44","C8-C44","0","mg/l","0.056","MDL","TARGET","0.22","RDL","YES","-99","-99","<"

"TF1-DUP-01-082917","SW-846 8015B","RES","SC38678-06","ESAI","PHCE","Total TPH","0","mg/l","0.056","MDL","TARGET","0.22","RDL","YES","-99","-99","<"

"TF1-DUP-01-082917","SW846 8081B","RES","SC38678-06","ESAI","1024-57-3","Heptachlor epoxide","0.021","g/l","U","0.016","MDL","TARGET","0.021","RDL","YES","-99","940","10","0.021",

"TF1-DUP-01-082917","SW846 8081B","RES","SC38678-06","ESAI","1031-07-8","Endosulfan sulfate","0.021","g/l","U","0.021","MDL","TARGET","0.043","RDL","YES","-99","940","10","0.021",

"TF1-DUP-01-082917","SW846 8081B","RES","SC38678-06","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr)","0.355","g/l","-99","NA","SUR","84","-99","NA","YES","0.426","940","10","-99",

"TF1-DUP-01-082917","SW846 8081B","RES","SC38678-06","ESAI","15972-60-8","Alachlor","0.021","g/l","U","0.020","MDL","TARGET","0.021","RDL","YES","-99","940","10","0.021",

"TF1-DUP-01-082917","SW846 8081B","RES","SC38678-06","ESAI","2051-24-3","Decachlorobiphenyl (Sr)","0.249","g/l","-99","NA","SUR","59","-99","NA","YES","0.426","940","10","-99",

"TF1-DUP-01-082917","SW846 8081B","RES","SC38678-06","ESAI","309-00-2","Aldrin","0.021","g/l","U","0.017","MDL","TARGET","0.021","RDL","YES","-99","940","10","0.021",

"TF1-DUP-01-082917","SW846 8081B","RES","SC38678-06","ESAI","319-84-6","alpha-BHC","0.021","g/l","U","0.012","MDL","TARGET","0.021","RDL","YES","-99","940","10","0.021",

"TF1-DUP-01-082917","SW846 8081B","RES","SC38678-06","ESAI","319-85-7","beta-BHC","0.021","g/l","U","0.016","MDL","TARGET","0.021","RDL","YES","-99","940","10","0.021",

"TF1-DUP-01-082917","SW846 8081B","RES","SC38678-06","ESAI","319-86-8","delta-BHC","0.021","g/l","U","0.016","MDL","TARGET","0.021","RDL","YES","-99","940","10","0.021",

"TF1-DUP-01-082917","SW846 8081B","RES","SC38678-06","ESAI","33213-65-9","Endosulfan II","0.021","g/l","U","0.021","MDL","TARGET","0.043","RDL","YES","-99","940","10","0.021",

"TF1-DUP-01-082917","SW846 8081B","RES","SC38678-06","ESAI","50-29-3","4,4'-DDT

(p,p')", "0.032", "g/l", "U", "0.019", "MDL", "TARGET", "0.043", "RDL", "YES", "-99", "940", "10", "0.032",  
"TF1-DUP-01-082917", "SW846 8081B", "RES", "SC38678-06", "ESAI", "5103-71-9", "alpha-  
Chlordane", "0.021", "g/l", "U", "0.016", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "940", "10", "0.021",  
"TF1-DUP-01-082917", "SW846 8081B", "RES", "SC38678-06", "ESAI", "5103-74-2", "Chlordane (gamma)  
(trans)", "0.021", "g/l", "U", "0.017", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "940", "10", "0.021",  
"TF1-DUP-01-082917", "SW846 8081B", "RES", "SC38678-06", "ESAI", "53494-70-5", "Endrin  
ketone", "0.021", "g/l", "U", "0.018", "MDL", "TARGET", "0.043", "RDL", "YES", "-99", "940", "10", "0.021",  
"TF1-DUP-01-082917", "SW846 8081B", "RES", "SC38678-06", "ESAI", "57-74-  
9", "Chlordane", "0.069", "g/l", "U", "0.055", "MDL", "TARGET", "0.069", "RDL", "YES", "-99", "940", "10", "0.069",  
"TF1-DUP-01-082917", "SW846 8081B", "RES", "SC38678-06", "ESAI", "58-89-9", "gamma-BHC  
(Lindane)", "0.021", "g/l", "U", "0.018", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "940", "10", "0.021",  
"TF1-DUP-01-082917", "SW846 8081B", "RES", "SC38678-06", "ESAI", "60-57-  
1", "Dieldrin", "0.021", "g/l", "U", "0.018", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "940", "10", "0.021",  
"TF1-DUP-01-082917", "SW846 8081B", "RES", "SC38678-06", "ESAI", "72-20-  
8", "Endrin", "0.021", "g/l", "U", "0.020", "MDL", "TARGET", "0.043", "RDL", "YES", "-99", "940", "10", "0.021",  
"TF1-DUP-01-082917", "SW846 8081B", "RES", "SC38678-06", "ESAI", "72-43-  
5", "Methoxychlor", "0.021", "g/l", "U", "0.019", "MDL", "TARGET", "0.043", "RDL", "YES", "-99", "940", "10", "0.021",  
"TF1-DUP-01-082917", "SW846 8081B", "RES", "SC38678-06", "ESAI", "72-54-8", "4,4'-DDD  
(p,p')", "0.021", "g/l", "U", "0.020", "MDL", "TARGET", "0.043", "RDL", "YES", "-99", "940", "10", "0.021",  
"TF1-DUP-01-082917", "SW846 8081B", "RES", "SC38678-06", "ESAI", "72-55-9", "4,4'-DDE  
(p,p')", "0.021", "g/l", "U", "0.019", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "940", "10", "0.021",  
"TF1-DUP-01-082917", "SW846 8081B", "RES", "SC38678-06", "ESAI", "7421-93-4", "Endrin  
aldehyde", "0.021", "g/l", "U", "0.020", "MDL", "TARGET", "0.043", "RDL", "YES", "-99", "940", "10", "0.021",  
"TF1-DUP-01-082917", "SW846 8081B", "RES", "SC38678-06", "ESAI", "76-44-  
8", "Heptachlor", "0.021", "g/l", "U", "0.021", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "940", "10", "0.021",  
"TF1-DUP-01-082917", "SW846 8081B", "RES", "SC38678-06", "ESAI", "8001-35-  
2", "Toxaphene", "0.532", "g/l", "U", "0.349", "MDL", "TARGET", "0.532", "RDL", "YES", "-99", "940", "10", "0.532",  
"TF1-DUP-01-082917", "SW846 8081B", "RES", "SC38678-06", "ESAI", "877-09-8", "2,4,5,6-TC-M-Xylene  
(IS)", "0.020", "g/ml", "-99", "NA", "ISTD", "103", "-99", "NA", "YES", "10.0", "940", "10", "-99",  
"TF1-DUP-01-082917", "SW846 8081B", "RES", "SC38678-06", "ESAI", "959-98-8", "Endosulfan  
I", "0.021", "g/l", "U", "0.017", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "940", "10", "0.021",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "100-41-  
4", "Ethylbenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "100-42-  
5", "Styrene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "10061-01-5", "cis-1,3-  
Dichloropropene", "0.5", "g/l", "U", "0.4", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "10061-02-6", "trans-1,3-  
Dichloropropene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "106-46-7", "1,4-  
Dichlorobenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "106-93-4", "1,2-Dibromoethane  
(EDB)", "0.5", "g/l", "U", "0.2", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "107-06-2", "1,2-  
Dichloroethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "108-10-1", "4-Methyl-2-pentanone  
(MIBK)", "2.0", "g/l", "U", "0.5", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "108-87-  
2", "Methylcyclohexane", "2.0", "g/l", "U", "0.7", "MDL", "TARGET", "5.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "108-88-  
3", "Toluene", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "108-90-  
7", "Chlorobenzene", "0.5", "g/l", "U", "0.2", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",

"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","110-82-7","Cyclohexane","2.0","g/l","U","0.8","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","120-82-1","1,2,4-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","124-48-1","Dibromochloromethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","127-18-4","Tetrachloroethene","1.0","g/l","U","0.6","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","156-59-2","cis-1,2-Dichloroethene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","156-60-5","trans-1,2-Dichloroethene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","1634-04-4","Methyl tert-butyl ether","0.2","g/l","J","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","17060-07-0","1,2-Dichloroethane-d4","50.7","g/l","-99","NA","SUR","101","-99","NA","YES","50.0","5","5","-99",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","179601-23-1","m,p-Xylene","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","1868-53-7","Dibromofluoromethane","52.2","g/l","-99","NA","SUR","104","-99","NA","YES","50.0","5","5","-99",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","2037-26-5","Toluene-d8","51.4","g/l","-99","NA","SUR","103","-99","NA","YES","50.0","5","5","-99",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","3114-55-4","Chlorobenzene-d5","50.0","g/l","-99","NA","ISTD","96","-99","NA","YES","50.0","5","5","-99",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","g/l","-99","NA","ISTD","94","-99","NA","YES","50.0","5","5","-99",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","460-00-4","4-Bromofluorobenzene","50.7","g/l","-99","NA","SUR","101","-99","NA","YES","50.0","5","5","-99",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","462-06-6","Fluorobenzene","50.0","g/l","-99","NA","ISTD","97","-99","NA","YES","50.0","5","5","-99",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","541-73-1","1,3-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","56-23-5","Carbon tetrachloride","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","591-78-6","2-Hexanone (MBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","67-64-1","Acetone","2.0","g/l","U","0.8","MDL","TARGET","10.0","RDL","YES","-99","5","5","2.0",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","67-66-3","Chloroform","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","71-43-2","Benzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","71-55-6","1,1,1-Trichloroethane","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","74-83-9","Bromomethane","2.0","g/l","U","0.9","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","74-87-3","Chloromethane","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","74-97-5","Bromochloromethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","75-00-3","Chloroethane","2.0","g/l","U","0.6","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","75-01-4","Vinyl chloride","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","75-09-2","Methylene chloride","2.0","g/l","U","0.7","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-DUP-01-082917","SW846 8260C","RES","SC38678-06","ESAI","75-15-0","Carbon

disulfide", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "75-25-  
2", "Bromoform", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "75-27-  
4", "Bromodichloromethane", "0.5", "g/l", "U", "0.4", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "75-34-3", "1,1-  
Dichloroethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "75-35-4", "1,1-  
Dichloroethene", "1.0", "g/l", "U", "0.7", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "75-69-4", "Trichlorofluoromethane  
(Freon 11)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "75-71-8", "Dichlorodifluoromethane  
(Freon12)", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "76-13-1", "1,1,2-Trichlorotrifluoroethane  
(Freon 113)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "78-87-5", "1,2-  
Dichloropropane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "78-93-3", "2-Butanone  
(MEK)", "2.0", "g/l", "U", "1.1", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "79-00-5", "1,1,2-  
Trichloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "79-01-  
6", "Trichloroethene", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "79-20-9", "Methyl  
acetate", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "5.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "79-34-5", "1,1,2,2-  
Tetrachloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "87-61-6", "1,2,3-  
Trichlorobenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "95-47-6", "o-  
Xylene", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "95-50-1", "1,2-  
Dichlorobenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "96-12-8", "1,2-Dibromo-3-  
chloropropane", "2.0", "g/l", "U", "0.9", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-DUP-01-082917", "SW846 8260C", "RES", "SC38678-06", "ESAI", "98-82-  
8", "Isopropylbenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-DUP-01-082917", "SW846 8270D", "RES", "SC38678-06", "ESAI", "1146-65-2", "Naphthalene-  
d8", "40.0", "g/ml", "-99", "NA", "ISTD", "138", "-99", "NA", "YES", "40.0", "980", "1", "-99",  
"TF1-DUP-01-082917", "SW846 8270D", "RES", "SC38678-06", "ESAI", "120-12-  
7", "Anthracene", "1.02", "g/l", "U", "0.620", "MDL", "TARGET", "5.10", "RDL", "YES", "-99", "980", "1", "1.02",  
"TF1-DUP-01-082917", "SW846 8270D", "RES", "SC38678-06", "ESAI", "129-00-  
0", "Pyrene", "1.02", "g/l", "U", "0.622", "MDL", "TARGET", "5.10", "RDL", "YES", "-99", "980", "1", "1.02",  
"TF1-DUP-01-082917", "SW846 8270D", "RES", "SC38678-06", "ESAI", "15067-26-2", "Acenaphthene-  
d10", "40.0", "g/ml", "-99", "NA", "ISTD", "154", "-99", "NA", "YES", "40.0", "980", "1", "-99",  
"TF1-DUP-01-082917", "SW846 8270D", "RES", "SC38678-06", "ESAI", "1517-22-2", "Phenanthrene-  
d10", "40.0", "g/ml", "-99", "NA", "ISTD", "141", "-99", "NA", "YES", "40.0", "980", "1", "-99",  
"TF1-DUP-01-082917", "SW846 8270D", "RES", "SC38678-06", "ESAI", "1520-96-3", "Perylene-  
d12", "40.0", "g/ml", "-99", "NA", "ISTD", "102", "-99", "NA", "YES", "40.0", "980", "1", "-99",  
"TF1-DUP-01-082917", "SW846 8270D", "RES", "SC38678-06", "ESAI", "1718-51-0", "Terphenyl-  
dl4", "36.3", "g/l", "-99", "NA", "SUR", "71", "-99", "NA", "YES", "51.0", "980", "1", "-99",  
"TF1-DUP-01-082917", "SW846 8270D", "RES", "SC38678-06", "ESAI", "1719-03-5", "Chrysene-  
d12", "40.0", "g/ml", "-99", "NA", "ISTD", "117", "-99", "NA", "YES", "40.0", "980", "1", "-99",  
"TF1-DUP-01-082917", "SW846 8270D", "RES", "SC38678-06", "ESAI", "191-24-2", "Benzo (g,h,i)  
perylene", "1.02", "g/l", "U", "0.541", "MDL", "TARGET", "5.10", "RDL", "YES", "-99", "980", "1", "1.02",  
"TF1-DUP-01-082917", "SW846 8270D", "RES", "SC38678-06", "ESAI", "193-39-5", "Indeno (1,2,3-cd)  
pyrene", "1.02", "g/l", "U", "0.592", "MDL", "TARGET", "5.10", "RDL", "YES", "-99", "980", "1", "1.02",

"TF1-DUP-01-082917","SW846 8270D","RES","SC38678-06","ESAI","205-99-2","Benzo (b) fluoranthene","1.02","g/l","U","0.446","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"TF1-DUP-01-082917","SW846 8270D","RES","SC38678-06","ESAI","206-44-0","Fluoranthene","1.02","g/l","U","0.651","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"TF1-DUP-01-082917","SW846 8270D","RES","SC38678-06","ESAI","207-08-9","Benzo (k) fluoranthene","1.02","g/l","U","0.490","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"TF1-DUP-01-082917","SW846 8270D","RES","SC38678-06","ESAI","208-96-8","Acenaphthylene","1.02","g/l","U","0.697","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"TF1-DUP-01-082917","SW846 8270D","RES","SC38678-06","ESAI","218-01-9","Chrysene","1.02","g/l","U","0.543","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"TF1-DUP-01-082917","SW846 8270D","RES","SC38678-06","ESAI","321-60-8","2-Fluorobiphenyl","21.9","g/l","SGC","-99","NA","SUR","43","-99","NA","YES","51.0","980","1","-99",  
"TF1-DUP-01-082917","SW846 8270D","RES","SC38678-06","ESAI","4165-60-0","Nitrobenzene-d5","26.9","g/l","-99","NA","SUR","53","-99","NA","YES","51.0","980","1","-99",  
"TF1-DUP-01-082917","SW846 8270D","RES","SC38678-06","ESAI","50-32-8","Benzo (a) pyrene","1.02","g/l","U","0.573","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"TF1-DUP-01-082917","SW846 8270D","RES","SC38678-06","ESAI","53-70-3","Dibenzo (a,h) anthracene","1.02","g/l","U","0.459","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"TF1-DUP-01-082917","SW846 8270D","RES","SC38678-06","ESAI","56-55-3","Benzo (a) anthracene","1.02","g/l","U","0.547","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"TF1-DUP-01-082917","SW846 8270D","RES","SC38678-06","ESAI","83-32-9","Acenaphthene","1.02","g/l","U","0.705","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"TF1-DUP-01-082917","SW846 8270D","RES","SC38678-06","ESAI","85-01-8","Phenanthrene","1.02","g/l","U","0.598","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"TF1-DUP-01-082917","SW846 8270D","RES","SC38678-06","ESAI","86-73-7","Fluorene","1.02","g/l","U","0.624","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"TF1-DUP-01-082917","SW846 8270D","RES","SC38678-06","ESAI","90-12-0","1-Methylnaphthalene","1.02","g/l","U","0.748","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"TF1-DUP-01-082917","SW846 8270D","RES","SC38678-06","ESAI","91-20-3","Naphthalene","1.02","g/l","U","0.699","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"TF1-DUP-01-082917","SW846 8270D","RES","SC38678-06","ESAI","91-57-6","2-Methylnaphthalene","1.02","g/l","U","0.586","MDL","TARGET","5.10","RDL","YES","-99","980","1","1.02",  
"TF1-DUP-01-082917DUP","SM2320B (97, 11)","RES","1714942-DUP1","ESAI","NA","Total Alkalinity","59.1","mg/l CaCO3","1.05","MDL","TARGET","3","4.00","RDL","YES","-99","TF1-DUP-01-082917","50","50","3.00",  
"TF1-DUP-01-082917DUP","SW846 6010C","RES","1715587-DUP1","ESAI","7429-90-5","Aluminum","0.0500","mg/l","U","0.0206","MDL","TARGET","0.0500","RDL","YES","-99","TF1-DUP-01-082917","50","50","0.0500",  
"TF1-DUP-01-082917DUP","SW846 6010C","RES","1715587-DUP1","ESAI","7439-89-6","Iron","17.8","mg/l","0.0089","MDL","TARGET","0.8","0.0300","RDL","YES","-99","TF1-DUP-01-082917","50","50","0.0300",  
"TF1-DUP-01-082917DUP","SW846 6010C","RES","1715587-DUP1","ESAI","7439-95-4","Magnesium","7.52","mg/l","0.0088","MDL","TARGET","0.8","0.0200","RDL","YES","-99","TF1-DUP-01-082917","50","50","0.0100",  
"TF1-DUP-01-082917DUP","SW846 6010C","RES","1715587-DUP1","ESAI","7440-09-7","Potassium","1.47","mg/l","0.120","MDL","TARGET","2","1.00","RDL","YES","-99","TF1-DUP-01-082917","50","50","0.250",  
"TF1-DUP-01-082917DUP","SW846 6010C","RES","1715587-DUP1","ESAI","7440-23-5","Sodium","22.3","mg/l","0.0785","MDL","TARGET","0.9","0.500","RDL","YES","-99","TF1-DUP-01-082917","50","50","0.250",  
"TF1-DUP-01-082917DUP","SW846 6010C","RES","1715587-DUP1","ESAI","7440-70-2","Calcium","8.59","mg/l","0.0142","MDL","TARGET","0.6","0.200","RDL","YES","-99","TF1-DUP-01-082917","50","50","0.0500",  
"TF1-DUP-01-082917MS","SM2320B (97, 11)","RES","1714942-MS1","ESAI","NA","Total

Alkalinity", "84.8", "mg/l CaCO3", "1.05", "MDL", "SPIKE", "119", "4.00", "RDL", "YES", "20.0", "TF1-DUP-01-082917", "50", "50", "3.00",  
"TF1-DUP-01-082917MS", "SW846 6010C", "RES", "1715587-MS1", "ESAI", "7429-90-5", "Aluminum", "2.60", "mg/l", "0.0206", "MDL", "SPIKE", "104", "0.0500", "RDL", "YES", "2.50", "TF1-DUP-01-082917", "50", "50", "0.0500",  
"TF1-DUP-01-082917MS", "SW846 6010C", "RES", "1715587-MS1", "ESAI", "7439-89-6", "Iron", "20.7", "mg/l", "0.0089", "MDL", "SPIKE", "112", "0.0300", "RDL", "YES", "2.50", "TF1-DUP-01-082917", "50", "50", "0.0300",  
"TF1-DUP-01-082917MS", "SW846 6010C", "RES", "1715587-MS1", "ESAI", "7439-95-4", "Magnesium", "10.4", "mg/l", "0.0088", "MDL", "SPIKE", "113", "0.0200", "RDL", "YES", "2.50", "TF1-DUP-01-082917", "50", "50", "0.0100",  
"TF1-DUP-01-082917MS", "SW846 6010C", "RES", "1715587-MS1", "ESAI", "7440-09-7", "Potassium", "27.5", "mg/l", "0.120", "MDL", "SPIKE", "104", "1.00", "RDL", "YES", "25.0", "TF1-DUP-01-082917", "50", "50", "0.250",  
"TF1-DUP-01-082917MS", "SW846 6010C", "RES", "1715587-MS1", "ESAI", "7440-23-5", "Sodium", "36.2", "mg/l", "0.0785", "MDL", "SPIKE", "110", "0.500", "RDL", "YES", "12.5", "TF1-DUP-01-082917", "50", "50", "0.250",  
"TF1-DUP-01-082917MS", "SW846 6010C", "RES", "1715587-MS1", "ESAI", "7440-70-2", "Calcium", "21.8", "mg/l", "0.0142", "MDL", "SPIKE", "105", "0.200", "RDL", "YES", "12.5", "TF1-DUP-01-082917", "50", "50", "0.0500",  
"TF1-DUP-01-082917MSD", "SM2320B (97, 11)", "RES", "1714942-MSD1", "ESAI", "NA", "Total Alkalinity", "82.6", "mg/l CaCO3", "1.05", "MDL", "SPIKE", "108", "3", "4.00", "RDL", "YES", "20.0", "TF1-DUP-01-082917", "50", "50", "3.00",  
"TF1-DUP-01-082917MSD", "SW846 6010C", "RES", "1715587-MSD1", "ESAI", "7429-90-5", "Aluminum", "2.59", "mg/l", "0.0206", "MDL", "SPIKE", "104", "0.6", "0.0500", "RDL", "YES", "2.50", "TF1-DUP-01-082917", "50", "50", "0.0500",  
"TF1-DUP-01-082917MSD", "SW846 6010C", "RES", "1715587-MSD1", "ESAI", "7439-89-6", "Iron", "20.6", "mg/l", "0.0089", "MDL", "SPIKE", "106", "0.8", "0.0300", "RDL", "YES", "2.50", "TF1-DUP-01-082917", "50", "50", "0.0300",  
"TF1-DUP-01-082917MSD", "SW846 6010C", "RES", "1715587-MSD1", "ESAI", "7439-95-4", "Magnesium", "10.1", "mg/l", "0.0088", "MDL", "SPIKE", "99", "3", "0.0200", "RDL", "YES", "2.50", "TF1-DUP-01-082917", "50", "50", "0.0100",  
"TF1-DUP-01-082917MSD", "SW846 6010C", "RES", "1715587-MSD1", "ESAI", "7440-09-7", "Potassium", "26.9", "mg/l", "0.120", "MDL", "SPIKE", "101", "2", "1.00", "RDL", "YES", "25.0", "TF1-DUP-01-082917", "50", "50", "0.250",  
"TF1-DUP-01-082917MSD", "SW846 6010C", "RES", "1715587-MSD1", "ESAI", "7440-23-5", "Sodium", "35.3", "mg/l", "0.0785", "MDL", "SPIKE", "102", "3", "0.500", "RDL", "YES", "12.5", "TF1-DUP-01-082917", "50", "50", "0.250",  
"TF1-DUP-01-082917MSD", "SW846 6010C", "RES", "1715587-MSD1", "ESAI", "7440-70-2", "Calcium", "21.8", "mg/l", "0.0142", "MDL", "SPIKE", "105", "0.05", "0.200", "RDL", "YES", "12.5", "TF1-DUP-01-082917", "50", "50", "0.0500",  
"TF1-DUP-01-082917PS", "SW846 6010C", "RES", "1715587-PS1", "ESAI", "7429-90-5", "Aluminum", "2.54", "mg/l", "0.0206", "MDL", "SPIKE", "102", "0.0500", "RDL", "YES", "2.50", "TF1-DUP-01-082917", "50", "50", "0.0500",  
"TF1-DUP-01-082917PS", "SW846 6010C", "RES", "1715587-PS1", "ESAI", "7439-89-6", "Iron", "20.0", "mg/l", "0.0089", "MDL", "SPIKE", "85", "0.0300", "RDL", "YES", "2.50", "TF1-DUP-01-082917", "50", "50", "0.0300",  
"TF1-DUP-01-082917PS", "SW846 6010C", "RES", "1715587-PS1", "ESAI", "7439-95-4", "Magnesium", "9.98", "mg/l", "0.0088", "MDL", "SPIKE", "96", "0.0200", "RDL", "YES", "2.50", "TF1-DUP-01-082917", "50", "50", "0.0100",  
"TF1-DUP-01-082917PS", "SW846 6010C", "RES", "1715587-PS1", "ESAI", "7440-09-7", "Potassium", "26.7", "mg/l", "0.120", "MDL", "SPIKE", "101", "1.00", "RDL", "YES", "25.0", "TF1-DUP-01-082917", "50", "50", "0.250",  
"TF1-DUP-01-082917PS", "SW846 6010C", "RES", "1715587-PS1", "ESAI", "7440-23-5", "Sodium", "35.0", "mg/l", "0.0785", "MDL", "SPIKE", "100", "0.500", "RDL", "YES", "12.5", "TF1-DUP-01-082917", "50", "50", "0.250",  
"TF1-DUP-01-082917PS", "SW846 6010C", "RES", "1715587-PS1", "ESAI", "7440-70-

2", "Calcium", "21.2", "mg/l", "0.0142", "MDL", "SPIKE", "100", "0.200", "RDL", "YES", "12.5", "TF1-DUP-01-082917", "50", "50", "0.0500",  
"TF1-EBP-MW1000-082917", "EPA 200/6000 methods", "RES", "SC38678-02", "ESAI", "NA", "Preservation", "0", "N/A", "-99", "NA", "TARGET", "-99", "NA", "YES", "-99", "1", "1", "-99", "Field Preserved; pH<2 confirmed"  
"TF1-EBP-MW1000-082917", "EPA 245.1/7470A", "RES", "SC38678-02", "ESAI", "7439-97-6", "Mercury", "0.00020", "mg/l", "U", "0.00013", "MDL", "TARGET", "0.00020", "RDL", "YES", "-99", "20", "20", "0.00020",  
"TF1-EBP-MW1000-082917", "EPA 300.0", "RES", "SC38678-02", "ESAI", "14797-55-8", "Nitrate as N", "0.011", "mg/l", "J", "0.009", "MDL", "TARGET", "0.100", "RDL", "YES", "-99", "5", "5", "0.100",  
"TF1-EBP-MW1000-082917", "EPA 300.0", "RES", "SC38678-02", "ESAI", "14808-79-8", "Sulfate as SO4", "14.9", "mg/l", "0.307", "MDL", "TARGET", "1.00", "RDL", "YES", "-99", "5", "5", "1.00",  
"TF1-EBP-MW1000-082917", "EPA 300.0", "RES", "SC38678-02", "ESAI", "16887-00-6", "Chloride", "27.3", "mg/l", "0.0897", "MDL", "TARGET", "1.00", "RDL", "YES", "-99", "5", "5", "0.100",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "1763-23-1", "Perfluorooctanesulfonate", "0", "ng/l", "2", "MDL", "TARGET", "6", "RDL", "YES", "-99", "-99", "<",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "1763-23-1L", "13C8-PFOS", "36", "ng/l", "-99", "NA", "SUR", "75", "-99", "NA", "YES", "48", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "2058-94-8", "Perfluoroundecanoic acid", "0", "ng/l", "1", "MDL", "TARGET", "3", "RDL", "YES", "-99", "-99", "<",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "2058-94-8L", "13C7-PFUnDA", "43", "ng/l", "-99", "NA", "SUR", "86", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "2706-90-3", "Perfluoropentanoic Acid", "290", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "2706-90-3L", "13C5-PFPeA", "40", "ng/l", "-99", "NA", "SUR", "80", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "307-24-4", "Perfluorohexanoic acid", "290", "ng/l", "0.6", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "307-24-4L", "13C5-PFHxA", "39", "ng/l", "-99", "NA", "SUR", "77", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "307-55-1", "Perfluorododecanoic acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "307-55-1L", "13C2-PFDoDA", "46", "ng/l", "-99", "NA", "SUR", "91", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "335-67-1", "Perfluorooctanoic acid", "140", "ng/l", "0.6", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "335-67-1L", "13C8-PFOA", "36", "ng/l", "-99", "NA", "SUR", "73", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "335-76-2", "Perfluorodecanoic acid", "2", "ng/l", "Ja", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "335-76-2L", "13C6-PFDA", "38", "ng/l", "-99", "NA", "SUR", "76", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "335-77-3", "Perfluorodecanesulfonate", "0", "ng/l", "2", "MDL", "TARGET", "6", "RDL", "YES", "-99", "-99", "<",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "355-46-4", "Perfluorohexanesulfonate", "53", "ng/l", "1", "MDL", "TARGET", "3", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "355-46-4L", "13C3-PFHxS", "35", "ng/l", "-99", "NA", "SUR", "74", "-99", "NA", "YES", "47", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "375-22-4", "Perfluorobutanoic Acid", "84", "ng/l", "3", "MDL", "TARGET", "10", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "375-22-4L", "13C4-PFBA", "40", "ng/l", "-99", "NA", "SUR", "80", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "375-73-5", "Perfluorobutanesulfonate", "53", "ng/l", "0.8", "MDL", "TARGET", "3", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "375-73-5L", "13C3-PFBS", "39", "ng/l", "-99", "NA", "SUR", "83", "-99", "NA", "YES", "47", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "375-85-9", "Perfluoroheptanoic



acid", "80", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "375-85-9L", "13C4-  
PFHpA", "35", "ng/l", "-99", "NA", "SUR", "70", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "375-92-  
8", "Perfluoroheptanesulfonate", "0", "ng/l", "2", "MDL", "TARGET", "6", "RDL", "YES", "-99", "-99", "<"  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "375-95-1", "Perfluorononanoic  
acid", "0", "ng/l", "0.6", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "375-95-1L", "13C9-  
PFNA", "40", "ng/l", "-99", "NA", "SUR", "80", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "376-06-  
7", "Perfluorotetradecanoic acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "376-06-7L", "13C2-  
PFTeDA", "41", "ng/l", "-99", "NA", "SUR", "81", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "72629-94-  
8", "Perfluorotridecanoic acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "754-91-  
6", "PFOSA", "0", "ng/l", "3", "MDL", "TARGET", "9", "RDL", "YES", "-99", "-99", "<"  
"TF1-EBP-MW1000-082917", "EPA 537 Modified", "RES", "SC38678-02", "ESAI", "754-91-6L", "13C8-  
PFOSA", "27", "ng/l", "-99", "NA", "SUR", "55", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1000-082917", "Mod EPA 3C/SOP RSK-175", "RES", "SC38678-02", "ESAI", "74-82-  
8", "Methane", "2.20", "g/l", "U", "2.16", "MDL", "TARGET", "2.20", "RDL", "YES", "-99", "10", "10", "2.20",  
"TF1-EBP-MW1000-082917", "Mod EPA 3C/SOP RSK-175", "RES", "SC38678-02", "ESAI", "74-84-  
0", "Ethane", "5.00", "g/l", "U", "3.48", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "10", "10", "5.00",  
"TF1-EBP-MW1000-082917", "SM18-22 5210B", "RES", "SC38678-02", "ESAI", "NA", "Biochemical Oxygen  
Demand (5-day)", "2.97", "mg/l", "BOD4",  
U", "2.74", "MDL", "TARGET", "3.00", "RDL", "YES", "-99", "300", "300", "2.97",  
"TF1-EBP-MW1000-082917", "SM2320B (97, 11)", "RES", "SC38678-02", "ESAI", "NA", "Total  
Alkalinity", "33.9", "mg/l CaCO3", "1.05", "MDL", "TARGET", "4.00", "RDL", "YES", "-99", "50", "50", "3.00",  
"TF1-EBP-MW1000-082917", "SM5310B (00, 11)", "RES", "SC38678-02", "ESAI", "NA", "Total Organic  
Carbon", "0.665", "mg/l", "J", "0.238", "MDL", "TARGET", "1.00", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-EBP-MW1000-082917", "SW- 846 6020A", "RES", "SC38678-02", "ESAI", "7439-98-  
7", "Molybdenum", "0", "mg/l", "0.00025", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99", "<"  
"TF1-EBP-MW1000-082917", "SW-846 6020A", "RES", "SC38678-02", "ESAI", "7440-39-  
3", "Barium", "0.0041", "mg/l", "0.00072", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1000-082917", "SW846 6010C", "RES", "SC38678-02", "ESAI", "7429-90-  
5", "Aluminum", "0.0500", "mg/l", "U", "0.0206", "MDL", "TARGET", "0.0500", "RDL", "YES", "-99", "50", "50", "0.05  
00",  
"TF1-EBP-MW1000-082917", "SW846 6010C", "RES", "SC38678-02", "ESAI", "7439-89-  
6", "Iron", "13.9", "mg/l", "0.0089", "MDL", "TARGET", "0.0300", "RDL", "YES", "-99", "50", "50", "0.0300",  
"TF1-EBP-MW1000-082917", "SW846 6010C", "RES", "SC38678-02", "ESAI", "7439-95-  
4", "Magnesium", "3.90", "mg/l", "0.0088", "MDL", "TARGET", "0.0200", "RDL", "YES", "-99", "50", "50", "0.0100",  
"TF1-EBP-MW1000-082917", "SW846 6010C", "RES", "SC38678-02", "ESAI", "7440-09-  
7", "Potassium", "0.402", "mg/l", "J", "0.120", "MDL", "TARGET", "1.00", "RDL", "YES", "-99", "50", "50", "0.250",  
"TF1-EBP-MW1000-082917", "SW846 6010C", "RES", "SC38678-02", "ESAI", "7440-23-  
5", "Sodium", "14.9", "mg/l", "0.0785", "MDL", "TARGET", "0.500", "RDL", "YES", "-99", "50", "50", "0.250",  
"TF1-EBP-MW1000-082917", "SW846 6010C", "RES", "SC38678-02", "ESAI", "7440-70-  
2", "Calcium", "4.62", "mg/l", "0.0142", "MDL", "TARGET", "0.200", "RDL", "YES", "-99", "50", "50", "0.0500",  
"TF1-EBP-MW1000-082917", "SW-846 6020 A", "RES", "SC38678-02", "ESAI", "7782-49-  
2", "Selenium", "0", "mg/l", "0.00050", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99", "<"  
"TF1-EBP-MW1000-082917", "SW-846 6020A", "RES", "SC38678-02", "ESAI", "7439-92-  
1", "Lead", "0.00079", "mg/l", "Ja", "0.00011", "MDL", "TARGET", "0.0020", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1000-082917", "SW-846 6020A", "RES", "SC38678-02", "ESAI", "7439-96-  
5", "Manganese", "0.650", "mg/l", "0.00090", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1000-082917", "SW-846 6020A", "RES", "SC38678-02", "ESAI", "7440-02-  
0", "Nickel", "0.0024", "mg/l", "Ja", "0.0010", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1000-082917", "SW-846 6020A", "RES", "SC38678-02", "ESAI", "7440-22-  
4", "Silver", "0", "mg/l", "0.00015", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99", "<"

"TF1-EBP-MW1000-082917","SW-846 6020A","RES","SC38678-02","ESAI","7440-28-0","Thallium","0","mg/l","0.00012","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"

"TF1-EBP-MW1000-082917","SW-846 6020A","RES","SC38678-02","ESAI","7440-36-0","Antimony","0","mg/l","0.00045","MDL","TARGET","0.0020","RDL","YES","-99","-99","<"

"TF1-EBP-MW1000-082917","SW-846 6020A","RES","SC38678-02","ESAI","7440-38-2","Arsenic","0","mg/l","0.00072","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"

"TF1-EBP-MW1000-082917","SW-846 6020A","RES","SC38678-02","ESAI","7440-41-7","Beryllium","0.00015","mg/l","Ja","0.000071","MDL","TARGET","0.0010","RDL","YES","-99","-99",

"TF1-EBP-MW1000-082917","SW-846 6020A","RES","SC38678-02","ESAI","7440-43-9","Cadmium","0","mg/l","0.00015","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"

"TF1-EBP-MW1000-082917","SW-846 6020A","RES","SC38678-02","ESAI","7440-47-3","Chromium","0","mg/l","0.00087","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"

"TF1-EBP-MW1000-082917","SW-846 6020A","RES","SC38678-02","ESAI","7440-48-4","Cobalt","0.0020","mg/l","0.00016","MDL","TARGET","0.0010","RDL","YES","-99","-99",

"TF1-EBP-MW1000-082917","SW-846 6020A","RES","SC38678-02","ESAI","7440-50-8","Copper","0","mg/l","0.00054","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"

"TF1-EBP-MW1000-082917","SW-846 6020A","RES","SC38678-02","ESAI","7440-62-2","Vanadium","0","mg/l","0.00021","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"

"TF1-EBP-MW1000-082917","SW-846 6020A","RES","SC38678-02","ESAI","7440-66-6","Zinc","0","mg/l","0.0039","MDL","TARGET","0.0300","RDL","YES","-99","-99","<"

"TF1-EBP-MW1000-082917","SW-846 8015B","RES","SC38678-02","ESAI","108-90-7","Chlorobenzene","0.010","mg/l","-99","NA","SUR","86","-99","NA","YES","0.012","-99",

"TF1-EBP-MW1000-082917","SW-846 8015B","RES","SC38678-02","ESAI","84-15-1","Orthoterphenyl","0.011","mg/l","-99","NA","SUR","89","-99","NA","YES","0.012","-99",

"TF1-EBP-MW1000-082917","SW-846 8015B","RES","SC38678-02","ESAI","PHCC8C44","C8-C44","0.088","mg/l","Ja","0.051","MDL","TARGET","0.20","RDL","YES","-99","-99",

"TF1-EBP-MW1000-082917","SW-846 8015B","RES","SC38678-02","ESAI","PHCE","Total TPH","0.088","mg/l","Ja","0.051","MDL","TARGET","0.20","RDL","YES","-99","-99",

"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","1024-57-3","Heptachlor epoxide","0.019","g/l","U","0.014","MDL","TARGET","0.019","RDL","YES","-99","1070","10","0.019",

"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","1031-07-8","Endosulfan sulfate","0.019","g/l","U","0.019","MDL","TARGET","0.037","RDL","YES","-99","1070","10","0.019",

"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr)","0.242","g/l","-99","NA","SUR","129","-99","NA","YES","0.187","1070","10","-99",

"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","15972-60-8","Alachlor","0.019","g/l","U","0.018","MDL","TARGET","0.019","RDL","YES","-99","1070","10","0.019",

"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","2051-24-3","Decachlorobiphenyl (Sr)","0.198","g/l","-99","NA","SUR","106","-99","NA","YES","0.187","1070","10","-99",

"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","309-00-2","Aldrin","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1070","10","0.019",

"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","319-84-6","alpha-BHC","0.019","g/l","U","0.011","MDL","TARGET","0.019","RDL","YES","-99","1070","10","0.019",

"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","319-85-7","beta-BHC","0.019","g/l","U","0.014","MDL","TARGET","0.019","RDL","YES","-99","1070","10","0.019",

"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","319-86-8","delta-BHC","0.019","g/l","U","0.014","MDL","TARGET","0.019","RDL","YES","-99","1070","10","0.019",

"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","33213-65-9","Endosulfan II","0.019","g/l","U","0.019","MDL","TARGET","0.037","RDL","YES","-99","1070","10","0.019",

"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","50-29-3","4,4'-DDT (p,p')","0.028","g/l","U","0.017","MDL","TARGET","0.037","RDL","YES","-99","1070","10","0.028",

"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","5103-71-9","alpha-Chlordane","0.019","g/l","U","0.014","MDL","TARGET","0.019","RDL","YES","-99","1070","10","0.019",

"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","5103-74-2","Chlordane (gamma (trans))","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1070","10","0.019",

"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","53494-70-5","Endrin ketone","0.019","g/l","U","0.016","MDL","TARGET","0.037","RDL","YES","-99","1070","10","0.019",

"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","57-74-9","Chlordane","0.061","g/l","U","0.048","MDL","TARGET","0.061","RDL","YES","-99","1070","10","0.061",  
"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","58-89-9","gamma-BHC (Lindane)","0.019","g/l","U","0.016","MDL","TARGET","0.019","RDL","YES","-99","1070","10","0.019",  
"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","60-57-1","Dieldrin","0.019","g/l","U","0.016","MDL","TARGET","0.019","RDL","YES","-99","1070","10","0.019",  
"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","72-20-8","Endrin","0.019","g/l","U","0.018","MDL","TARGET","0.037","RDL","YES","-99","1070","10","0.019",  
"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","72-43-5","Methoxychlor","0.019","g/l","U","0.017","MDL","TARGET","0.037","RDL","YES","-99","1070","10","0.019",  
"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","72-54-8","4,4'-DDD (p,p')","0.019","g/l","U","0.017","MDL","TARGET","0.037","RDL","YES","-99","1070","10","0.019",  
"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","72-55-9","4,4'-DDE (p,p')","0.019","g/l","U","0.017","MDL","TARGET","0.019","RDL","YES","-99","1070","10","0.019",  
"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","7421-93-4","Endrin aldehyde","0.019","g/l","U","0.018","MDL","TARGET","0.037","RDL","YES","-99","1070","10","0.019",  
"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","76-44-8","Heptachlor","0.019","g/l","U","0.018","MDL","TARGET","0.019","RDL","YES","-99","1070","10","0.019",  
"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","8001-35-2","Toxaphene","0.467","g/l","U","0.307","MDL","TARGET","0.467","RDL","YES","-99","1070","10","0.467",  
"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)","0.020","g/ml","-99","NA","ISTD","102","-99","NA","YES","10.0","1070","10","-99",  
"TF1-EBP-MW1000-082917","SW846 8081B","RES","SC38678-02","ESAI","959-98-8","Endosulfan I","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1070","10","0.019",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","100-41-4","Ethylbenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","100-42-5","Styrene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","10061-01-5","cis-1,3-Dichloropropene","0.5","g/l","U","0.4","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","10061-02-6","trans-1,3-Dichloropropene","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","106-46-7","1,4-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","106-93-4","1,2-Dibromoethane (EDB)","0.5","g/l","U","0.2","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","107-06-2","1,2-Dichloroethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","108-87-2","Methylcyclohexane","2.0","g/l","U","0.7","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","108-88-3","Toluene","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","108-90-7","Chlorobenzene","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","110-82-7","Cyclohexane","2.0","g/l","U","0.8","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","120-82-1","1,2,4-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","124-48-1","Dibromochloromethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","127-18-

4", "Tetrachloroethene", "1.0", "g/l", "U", "0.6", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "156-59-2", "cis-1,2-  
Dichloroethene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "156-60-5", "trans-1,2-  
Dichloroethene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "1634-04-4", "Methyl tert-butyl  
ether", "0.5", "g/l", "U", "0.2", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "17060-07-0", "1,2-Dichloroethane-  
d4", "50.2", "g/l", "-99", "NA", "SUR", "100", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "179601-23-1", "m,p-  
Xylene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "1868-53-  
7", "Dibromofluoromethane", "50.1", "g/l", "-99", "NA", "SUR", "100", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "2037-26-5", "Toluene-  
d8", "53.2", "g/l", "-99", "NA", "SUR", "106", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "3114-55-4", "Chlorobenzene-  
d5", "50.0", "g/l", "-99", "NA", "ISTD", "99", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "3855-82-1", "1,4-Dichlorobenzene-  
d4", "50.0", "g/l", "-99", "NA", "ISTD", "96", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "460-00-4", "4-  
Bromofluorobenzene", "50.7", "g/l", "-99", "NA", "SUR", "101", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "462-06-  
6", "Fluorobenzene", "50.0", "g/l", "-99", "NA", "ISTD", "100", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "541-73-1", "1,3-  
Dichlorobenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "56-23-5", "Carbon  
tetrachloride", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "591-78-6", "2-Hexanone  
(MBK)", "2.0", "g/l", "U", "0.5", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "67-64-  
1", "Acetone", "2.0", "g/l", "U", "0.8", "MDL", "TARGET", "10.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "67-66-  
3", "Chloroform", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "71-43-  
2", "Benzene", "0.4", "g/l", "J", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "71-55-6", "1,1,1-  
Trichloroethane", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "74-83-  
9", "Bromomethane", "2.0", "g/l", "U", "0.9", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "74-87-  
3", "Chloromethane", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "74-97-  
5", "Bromochloromethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "75-00-  
3", "Chloroethane", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "75-01-4", "Vinyl  
chloride", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "75-09-2", "Methylene  
chloride", "2.0", "g/l", "U", "0.7", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "75-15-0", "Carbon  
disulfide", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "75-25-  
2", "Bromoform", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "75-27-  
4", "Bromodichloromethane", "0.5", "g/l", "U", "0.4", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-EBP-MW1000-082917", "SW846 8260C", "RES", "SC38678-02", "ESAI", "75-34-3", "1,1-  
Dichloroethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",

"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","75-35-4","1,1-Dichloroethene","1.0","g/l","U","0.7","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","75-69-4","Trichlorofluoromethane (Freon 11)","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","75-71-8","Dichlorodifluoromethane (Freon12)","2.0","g/l","U","0.6","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane (Freon 113)","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","78-87-5","1,2-Dichloropropane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","78-93-3","2-Butanone (MEK)","2.0","g/l","U","1.1","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","79-00-5","1,1,2-Trichloroethane","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","79-01-6","Trichloroethene","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","79-20-9","Methyl acetate","2.0","g/l","U","0.6","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","79-34-5","1,1,2,2-Tetrachloroethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","87-61-6","1,2,3-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","95-47-6","o-Xylene","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","95-50-1","1,2-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","96-12-8","1,2-Dibromo-3-chloropropane","2.0","g/l","U","0.9","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-EBP-MW1000-082917","SW846 8260C","RES","SC38678-02","ESAI","98-82-8","Isopropylbenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","1146-65-2","Naphthalene-d8","40.0","g/ml","-99","NA","ISTD","145","-99","NA","YES","40.0","1060","1","-99",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","120-12-7","Anthracene","0.943","g/l","U","0.574","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","129-00-0","Pyrene","0.943","g/l","U","0.575","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","15067-26-2","Acenaphthene-d10","40.0","g/ml","-99","NA","ISTD","158","-99","NA","YES","40.0","1060","1","-99",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","1517-22-2","Phenanthrene-d10","40.0","g/ml","-99","NA","ISTD","148","-99","NA","YES","40.0","1060","1","-99",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","1520-96-3","Perylene-d12","40.0","g/ml","-99","NA","ISTD","85","-99","NA","YES","40.0","1060","1","-99",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","1718-51-0","Terphenyl-d14","31.8","g/l","-99","NA","SUR","67","-99","NA","YES","47.2","1060","1","-99",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","1719-03-5","Chrysene-d12","40.0","g/ml","-99","NA","ISTD","131","-99","NA","YES","40.0","1060","1","-99",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","191-24-2","Benzo (g,h,i) perylene","0.943","g/l","U","0.500","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","193-39-5","Indeno (1,2,3-cd) pyrene","0.943","g/l","U","0.547","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","205-99-2","Benzo (b) fluoranthene","0.943","g/l","U","0.412","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","206-44-0","Fluoranthene","0.943","g/l","U","0.602","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
3"

"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","207-08-9","Benzo (k) fluoranthene","0.943","g/l","U","0.453","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","208-96-8","Acenaphthylene","0.943","g/l","U","0.644","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","218-01-9","Chrysene","0.943","g/l","U","0.502","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","321-60-8","2-Fluorobiphenyl","20.0","g/l","SGC","-99","NA","SUR","42","-99","NA","YES","47.2","1060","1","-99",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","4165-60-0","Nitrobenzene-d5","23.2","g/l","-99","NA","SUR","49","-99","NA","YES","47.2","1060","1","-99",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","50-32-8","Benzo (a) pyrene","0.943","g/l","U","0.530","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","53-70-3","Dibenzo (a,h) anthracene","0.943","g/l","U","0.425","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","56-55-3","Benzo (a) anthracene","0.943","g/l","U","0.506","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","83-32-9","Acenaphthene","0.943","g/l","U","0.652","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","85-01-8","Phenanthrene","0.943","g/l","U","0.553","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","86-73-7","Fluorene","0.943","g/l","U","0.577","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","90-12-0","1-Methylnaphthalene","0.943","g/l","U","0.692","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","91-20-3","Naphthalene","0.943","g/l","U","0.646","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-EBP-MW1000-082917","SW846 8270D","RES","SC38678-02","ESAI","91-57-6","2-Methylnaphthalene","0.943","g/l","U","0.542","MDL","TARGET","4.72","RDL","YES","-99","1060","1","0.943",  
"TF1-EBP-MW1001-082917","EPA 200/6000 methods","RES","SC38678-01","ESAI","NA","Preservation","0","N/A","-99","NA","TARGET","-99","NA","YES","-99","1","1","-99","Field Preserved; pH<2 confirmed",  
"TF1-EBP-MW1001-082917","EPA 245.1/7470A","RES","SC38678-01","ESAI","7439-97-6","Mercury","0.00020","mg/l","U","0.00013","MDL","TARGET","0.00020","RDL","YES","-99","20","20","0.00020",  
"TF1-EBP-MW1001-082917","EPA 300.0","RES","SC38678-01","ESAI","14797-55-8","Nitrate as N","0.101","mg/l","0.009","MDL","TARGET","0.100","RDL","YES","-99","5","5","0.100",  
"TF1-EBP-MW1001-082917","EPA 300.0","RES","SC38678-01","ESAI","14808-79-8","Sulfate as SO4","34.3","mg/l","0.307","MDL","TARGET","1.00","RDL","YES","-99","5","5","1.00",  
"TF1-EBP-MW1001-082917","EPA 300.0","RES","SC38678-01","ESAI","16887-00-6","Chloride","39.7","mg/l","0.0897","MDL","TARGET","1.00","RDL","YES","-99","5","5","0.100",  
"TF1-EBP-MW1001-082917","EPA 537 Modified","RES","SC38678-01","ESAI","1763-23-1","Perfluorooctanesulfonate","170","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99",  
"TF1-EBP-MW1001-082917","EPA 537 Modified","RES","SC38678-01","ESAI","1763-23-1L","13C8-PFOS","40","ng/l","-99","NA","SUR","84","-99","NA","YES","48","-99",  
"TF1-EBP-MW1001-082917","EPA 537 Modified","RES","SC38678-01","ESAI","2058-94-8","Perfluoroundecanoic acid","0","ng/l","1","MDL","TARGET","3","RDL","YES","-99","-99","<",  
"TF1-EBP-MW1001-082917","EPA 537 Modified","RES","SC38678-01","ESAI","2058-94-8L","13C7-PFUnDA","37","ng/l","-99","NA","SUR","75","-99","NA","YES","50","-99",  
"TF1-EBP-MW1001-082917","EPA 537 Modified","RES","SC38678-01","ESAI","2706-90-3","Perfluoropentanoic Acid","400","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-EBP-MW1001-082917","EPA 537 Modified","RES","SC38678-01","ESAI","2706-90-3L","13C5-

PFPeA", "39", "ng/l", "-99", "NA", "SUR", "79", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "307-24-4", "Perfluorohexanoic  
acid", "350", "ng/l", "0.6", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "307-24-4L", "13C5-  
PFHxA", "42", "ng/l", "-99", "NA", "SUR", "85", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "307-55-  
1", "Perfluorododecanoic acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "307-55-1L", "13C2-  
PFDODA", "60", "ng/l", "-99", "NA", "SUR", "121", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "335-67-1", "Perfluorooctanoic  
acid", "160", "ng/l", "0.6", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "335-67-1L", "13C8-  
PFOA", "43", "ng/l", "-99", "NA", "SUR", "86", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "335-76-2", "Perfluorodecanoic  
acid", "0.7", "ng/l", "Ja", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "335-76-2L", "13C6-  
PFDA", "45", "ng/l", "-99", "NA", "SUR", "90", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "335-77-  
3", "Perfluorodecanesulfonate", "0", "ng/l", "2", "MDL", "TARGET", "6", "RDL", "YES", "-99", "-99", "<"  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "355-46-  
4", "Perfluorohexanesulfonate", "230", "ng/l", "1", "MDL", "TARGET", "3", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "355-46-4L", "13C3-  
PFHxS", "39", "ng/l", "-99", "NA", "SUR", "83", "-99", "NA", "YES", "47", "-99",  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "375-22-4", "Perfluorobutanoic  
Acid", "110", "ng/l", "3", "MDL", "TARGET", "10", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "375-22-4L", "13C4-  
PFBA", "46", "ng/l", "-99", "NA", "SUR", "92", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "375-73-  
5", "Perfluorobutanesulfonate", "60", "ng/l", "0.8", "MDL", "TARGET", "3", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "375-73-5L", "13C3-  
PFBS", "40", "ng/l", "-99", "NA", "SUR", "85", "-99", "NA", "YES", "46", "-99",  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "375-85-9", "Perfluoroheptanoic  
acid", "110", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "375-85-9L", "13C4-  
PFHpA", "43", "ng/l", "-99", "NA", "SUR", "86", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "375-92-  
8", "Perfluoroheptanesulfonate", "4", "ng/l", "Ja", "2", "MDL", "TARGET", "6", "RDL", "YES", "-99", "-99",  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "375-95-1", "Perfluorononanoic  
acid", "0", "ng/l", "0.6", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "375-95-1L", "13C9-  
PFNA", "42", "ng/l", "-99", "NA", "SUR", "84", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "376-06-  
7", "Perfluorotetradecanoic acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "376-06-7L", "13C2-  
PFTeDA", "34", "ng/l", "-99", "NA", "SUR", "69", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "72629-94-  
8", "Perfluorotridecanoic acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<"  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "754-91-  
6", "PFOSA", "0", "ng/l", "3", "MDL", "TARGET", "9", "RDL", "YES", "-99", "-99", "<"  
"TF1-EBP-MW1001-082917", "EPA 537 Modified", "RES", "SC38678-01", "ESAI", "754-91-6L", "13C8-  
PFOSA", "24", "ng/l", "-99", "NA", "SUR", "49", "-99", "NA", "YES", "50", "-99",  
"TF1-EBP-MW1001-082917", "Mod EPA 3C/SOP RSK-175", "RES", "SC38678-01", "ESAI", "74-82-  
8", "Methane", "2.20", "g/l", "U", "2.16", "MDL", "TARGET", "2.20", "RDL", "YES", "-99", "10", "10", "2.20",  
"TF1-EBP-MW1001-082917", "Mod EPA 3C/SOP RSK-175", "RES", "SC38678-01", "ESAI", "74-84-  
0", "Ethane", "5.00", "g/l", "U", "3.48", "MDL", "TARGET", "5.00", "RDL", "YES", "-99", "10", "10", "5.00",  
"TF1-EBP-MW1001-082917", "SM18-22 5210B", "RES", "SC38678-01", "ESAI", "NA", "Biochemical Oxygen  
Demand (5-day)", "2.97", "mg/l", "BOD4,

U", "2.74", "MDL", "TARGET", "3.00", "RDL", "YES", "-99", "300", "300", "2.97",  
"TF1-EBP-MW1001-082917", "SM2320B (97, 11)", "RES", "SC38678-01", "ESAI", "NA", "Total  
Alkalinity", "12.6", "mg/l CaCO3", "0.524", "MDL", "TARGET", "2.00", "RDL", "YES", "-99", "100", "50", "1.50",  
"TF1-EBP-MW1001-082917", "SM5310B (00, 11)", "RES", "SC38678-01", "ESAI", "NA", "Total Organic  
Carbon", "1.38", "mg/l", "0.238", "MDL", "TARGET", "1.00", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW- 846 6020A", "RES", "SC38678-01", "ESAI", "7439-98-  
7", "Molybdenum", "0", "mg/l", "0.00025", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW-846 6020A", "RES", "SC38678-01", "ESAI", "7440-39-  
3", "Barium", "0.0057", "mg/l", "0.00072", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW846 6010C", "RES", "SC38678-01", "ESAI", "7429-90-  
5", "Aluminum", "0.184", "mg/l", "0.0206", "MDL", "TARGET", "0.0500", "RDL", "YES", "-99", "50", "50", "0.0500",  
"TF1-EBP-MW1001-082917", "SW846 6010C", "RES", "SC38678-01", "ESAI", "7439-89-  
6", "Iron", "7.57", "mg/l", "0.0089", "MDL", "TARGET", "0.0300", "RDL", "YES", "-99", "50", "50", "0.0300",  
"TF1-EBP-MW1001-082917", "SW846 6010C", "RES", "SC38678-01", "ESAI", "7439-95-  
4", "Magnesium", "5.38", "mg/l", "0.0088", "MDL", "TARGET", "0.0200", "RDL", "YES", "-99", "50", "50", "0.0100",  
"TF1-EBP-MW1001-082917", "SW846 6010C", "RES", "SC38678-01", "ESAI", "7440-09-  
7", "Potassium", "0.873", "mg/l", "J", "0.120", "MDL", "TARGET", "1.00", "RDL", "YES", "-99", "50", "50", "0.250",  
"TF1-EBP-MW1001-082917", "SW846 6010C", "RES", "SC38678-01", "ESAI", "7440-23-  
5", "Sodium", "22.8", "mg/l", "0.0785", "MDL", "TARGET", "0.500", "RDL", "YES", "-99", "50", "50", "0.250",  
"TF1-EBP-MW1001-082917", "SW846 6010C", "RES", "SC38678-01", "ESAI", "7440-70-  
2", "Calcium", "11.0", "mg/l", "0.0142", "MDL", "TARGET", "0.200", "RDL", "YES", "-99", "50", "50", "0.0500",  
"TF1-EBP-MW1001-082917", "SW-846 6020 A", "RES", "SC38678-01", "ESAI", "7782-49-  
2", "Selenium", "0", "mg/l", "0.00050", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW-846 6020A", "RES", "SC38678-01", "ESAI", "7439-92-  
1", "Lead", "0.00025", "mg/l", "Ja", "0.00011", "MDL", "TARGET", "0.0020", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW-846 6020A", "RES", "SC38678-01", "ESAI", "7439-96-  
5", "Manganese", "1.68", "mg/l", "0.00090", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW-846 6020A", "RES", "SC38678-01", "ESAI", "7440-02-  
0", "Nickel", "0.0559", "mg/l", "0.0010", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW-846 6020A", "RES", "SC38678-01", "ESAI", "7440-22-  
4", "Silver", "0", "mg/l", "0.00015", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW-846 6020A", "RES", "SC38678-01", "ESAI", "7440-28-  
0", "Thallium", "0", "mg/l", "0.00012", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW-846 6020A", "RES", "SC38678-01", "ESAI", "7440-36-  
0", "Antimony", "0", "mg/l", "0.00045", "MDL", "TARGET", "0.0020", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW-846 6020A", "RES", "SC38678-01", "ESAI", "7440-38-  
2", "Arsenic", "0", "mg/l", "0.00072", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW-846 6020A", "RES", "SC38678-01", "ESAI", "7440-41-  
7", "Beryllium", "0.00012", "mg/l", "Ja", "0.000071", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW-846 6020A", "RES", "SC38678-01", "ESAI", "7440-43-  
9", "Cadmium", "0", "mg/l", "0.00015", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW-846 6020A", "RES", "SC38678-01", "ESAI", "7440-47-  
3", "Chromium", "0.0013", "mg/l", "Ja", "0.00087", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW-846 6020A", "RES", "SC38678-01", "ESAI", "7440-48-  
4", "Cobalt", "0.105", "mg/l", "0.00016", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW-846 6020A", "RES", "SC38678-01", "ESAI", "7440-50-  
8", "Copper", "0.0114", "mg/l", "0.00054", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW-846 6020A", "RES", "SC38678-01", "ESAI", "7440-62-  
2", "Vanadium", "0", "mg/l", "0.00021", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW-846 6020A", "RES", "SC38678-01", "ESAI", "7440-66-  
6", "Zinc", "0.0663", "mg/l", "0.0039", "MDL", "TARGET", "0.0300", "RDL", "YES", "-99", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW-846 8015B", "RES", "SC38678-01", "ESAI", "108-90-  
7", "Chlorobenzene", "0.011", "mg/l", "-99", "NA", "SUR", "88", "-99", "NA", "YES", "0.012", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW-846 8015B", "RES", "SC38678-01", "ESAI", "84-15-  
1", "Orthoterphenyl", "0.012", "mg/l", "-99", "NA", "SUR", "93", "-99", "NA", "YES", "0.013", "40", "40", "0.500",  
"TF1-EBP-MW1001-082917", "SW-846 8015B", "RES", "SC38678-01", "ESAI", "PHCC8C44", "C8-  
C44", "0.21", "mg/l", "0.052", "MDL", "TARGET", "0.21", "RDL", "YES", "-99", "40", "40", "0.500",



"TF1-EBP-MW1001-082917","SW-846 8015B","RES","SC38678-01","ESAI","PHCE","Total  
TPH","0.21","mg/l","0.052","MDL","TARGET","0.21","RDL","YES","-99","-99",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","1024-57-3","Heptachlor  
epoxide","0.019","g/l","U","0.014","MDL","TARGET","0.019","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","1031-07-8","Endosulfan  
sulfate","0.019","g/l","U","0.019","MDL","TARGET","0.038","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","10386-84-2","4,4-DB-  
Octafluorobiphenyl  
(Sr)","0.271","g/l","-99","NA","SUR","72","-99","NA","YES","0.377","1060","10","-99",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","15972-60-  
8","Alachlor","0.019","g/l","U","0.018","MDL","TARGET","0.019","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","2051-24-3","Decachlorobiphenyl  
(Sr)","0.251","g/l","-99","NA","SUR","66","-99","NA","YES","0.377","1060","10","-99",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","309-00-  
2","Aldrin","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","319-84-6","alpha-  
BHC","0.019","g/l","U","0.011","MDL","TARGET","0.019","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","319-85-7","beta-  
BHC","0.019","g/l","U","0.014","MDL","TARGET","0.019","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","319-86-8","delta-  
BHC","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","33213-65-9","Endosulfan  
II","0.019","g/l","U","0.019","MDL","TARGET","0.038","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","50-29-3","4,4'-DDT  
(p,p')","0.028","g/l","U","0.017","MDL","TARGET","0.038","RDL","YES","-99","1060","10","0.028",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","5103-71-9","alpha-  
Chlordane","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","5103-74-2","Chlordane (gamma)  
(trans)","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","53494-70-5","Endrin  
ketone","0.019","g/l","U","0.016","MDL","TARGET","0.038","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","57-74-  
9","Chlordane","0.061","g/l","U","0.048","MDL","TARGET","0.061","RDL","YES","-99","1060","10","0.061",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","58-89-9","gamma-BHC  
(Lindane)","0.019","g/l","U","0.016","MDL","TARGET","0.019","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","60-57-  
1","Dieldrin","0.019","g/l","U","0.016","MDL","TARGET","0.019","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","72-20-  
8","Endrin","0.019","g/l","U","0.018","MDL","TARGET","0.038","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","72-43-  
5","Methoxychlor","0.019","g/l","U","0.017","MDL","TARGET","0.038","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","72-54-8","4,4'-DDD  
(p,p')","0.019","g/l","U","0.018","MDL","TARGET","0.038","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","72-55-9","4,4'-DDE  
(p,p')","0.019","g/l","U","0.017","MDL","TARGET","0.019","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","7421-93-4","Endrin  
aldehyde","0.019","g/l","U","0.018","MDL","TARGET","0.038","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","76-44-  
8","Heptachlor","0.019","g/l","U","0.018","MDL","TARGET","0.019","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","8001-35-  
2","Toxaphene","0.472","g/l","U","0.309","MDL","TARGET","0.472","RDL","YES","-99","1060","10","0.472",  
"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","877-09-8","2,4,5,6-TC-M-Xylene  
(IS)","0.020","g/ml","-99","NA","ISTD","91","-99","NA","YES","10.0","1060","10","-99",

"TF1-EBP-MW1001-082917","SW846 8081B","RES","SC38678-01","ESAI","959-98-8","Endosulfan I","0.019","g/l","U","0.015","MDL","TARGET","0.019","RDL","YES","-99","1060","10","0.019",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","100-41-4","Ethylbenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","100-42-5","Styrene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","10061-01-5","cis-1,3-Dichloropropene","0.5","g/l","U","0.4","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","10061-02-6","trans-1,3-Dichloropropene","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","106-46-7","1,4-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","106-93-4","1,2-Dibromoethane (EDB)","0.5","g/l","U","0.2","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","107-06-2","1,2-Dichloroethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","108-87-2","Methylcyclohexane","2.0","g/l","U","0.7","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","108-88-3","Toluene","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","108-90-7","Chlorobenzene","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","110-82-7","Cyclohexane","2.0","g/l","U","0.8","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","120-82-1","1,2,4-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","124-48-1","Dibromochloromethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","127-18-4","Tetrachloroethene","1.0","g/l","U","0.6","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","156-59-2","cis-1,2-Dichloroethene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","156-60-5","trans-1,2-Dichloroethene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","1634-04-4","Methyl tert-butyl ether","0.3","g/l","J","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","17060-07-0","1,2-Dichloroethane-d4","50.0","g/l","-99","NA","SUR","100","-99","NA","YES","50.0","5","5","-99",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","179601-23-1","m,p-Xylene","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","1868-53-7","Dibromofluoromethane","51.4","g/l","-99","NA","SUR","103","-99","NA","YES","50.0","5","5","-99",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","2037-26-5","Toluene-d8","51.7","g/l","-99","NA","SUR","103","-99","NA","YES","50.0","5","5","-99",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","3114-55-4","Chlorobenzene-d5","50.0","g/l","-99","NA","ISTD","98","-99","NA","YES","50.0","5","5","-99",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","g/l","-99","NA","ISTD","98","-99","NA","YES","50.0","5","5","-99",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","460-00-4","4-Bromofluorobenzene","50.1","g/l","-99","NA","SUR","100","-99","NA","YES","50.0","5","5","-99",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","462-06-6","Fluorobenzene","50.0","g/l","-99","NA","ISTD","100","-99","NA","YES","50.0","5","5","-99",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","541-73-1","1,3-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-EBP-MW1001-082917","SW846 8260C","RES","SC38678-01","ESAI","56-23-5","Carbon

tetrachloride", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "591-78-6", "2-Hexanone  
(MBK)", "2.0", "g/l", "U", "0.5", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "67-64-  
1", "Acetone", "2.0", "g/l", "U", "0.8", "MDL", "TARGET", "10.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "67-66-  
3", "Chloroform", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "71-43-  
2", "Benzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "71-55-6", "1,1,1-  
Trichloroethane", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "74-83-  
9", "Bromomethane", "2.0", "g/l", "U", "0.9", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "74-87-  
3", "Chloromethane", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "74-97-  
5", "Bromochloromethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "75-00-  
3", "Chloroethane", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "75-01-4", "Vinyl  
chloride", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "75-09-2", "Methylene  
chloride", "2.0", "g/l", "U", "0.7", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "75-15-0", "Carbon  
disulfide", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "75-25-  
2", "Bromoform", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "75-27-  
4", "Bromodichloromethane", "0.5", "g/l", "U", "0.4", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "75-34-3", "1,1-  
Dichloroethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "75-35-4", "1,1-  
Dichloroethene", "1.0", "g/l", "U", "0.7", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "75-69-4", "Trichlorofluoromethane  
(Freon 11)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "75-71-8", "Dichlorodifluoromethane  
(Freon12)", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "76-13-1", "1,1,2-  
Trichlorotrifluoroethane (Freon  
113)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "78-87-5", "1,2-  
Dichloropropane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "78-93-3", "2-Butanone  
(MEK)", "2.0", "g/l", "U", "1.1", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "79-00-5", "1,1,2-  
Trichloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "79-01-  
6", "Trichloroethene", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "79-20-9", "Methyl  
acetate", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "5.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "79-34-5", "1,1,2,2-  
Tetrachloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "87-61-6", "1,2,3-  
Trichlorobenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "95-47-6", "o-  
Xylene", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "95-50-1", "1,2-

Dichlorobenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "96-12-8", "1,2-Dibromo-3-  
chloropropane", "2.0", "g/l", "U", "0.9", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-EBP-MW1001-082917", "SW846 8260C", "RES", "SC38678-01", "ESAI", "98-82-  
8", "Isopropylbenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "1146-65-2", "Naphthalene-  
d8", "40.0", "g/ml", "-99", "NA", "ISTD", "158", "-99", "NA", "YES", "40.0", "1070", "1", "-99",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "120-12-  
7", "Anthracene", "0.935", "g/l", "U", "0.568", "MDL", "TARGET", "4.67", "RDL", "YES", "-99", "1070", "1", "0.935",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "129-00-  
0", "Pyrene", "0.935", "g/l", "U", "0.570", "MDL", "TARGET", "4.67", "RDL", "YES", "-99", "1070", "1", "0.935",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "15067-26-2", "Acenaphthene-  
d10", "40.0", "g/ml", "-99", "NA", "ISTD", "186", "-99", "NA", "YES", "40.0", "1070", "1", "-99",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "1517-22-2", "Phenanthrene-  
d10", "40.0", "g/ml", "-99", "NA", "ISTD", "175", "-99", "NA", "YES", "40.0", "1070", "1", "-99",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "1520-96-3", "Perylene-  
d12", "40.0", "g/ml", "-99", "NA", "ISTD", "160", "-99", "NA", "YES", "40.0", "1070", "1", "-99",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "1718-51-0", "Terphenyl-  
dl4", "24.7", "g/l", "-99", "NA", "SUR", "53", "-99", "NA", "YES", "46.7", "1070", "1", "-99",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "1719-03-5", "Chrysene-  
d12", "40.0", "g/ml", "-99", "NA", "ISTD", "158", "-99", "NA", "YES", "40.0", "1070", "1", "-99",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "191-24-2", "Benzo (g,h,i)  
perylene", "0.935", "g/l", "U", "0.495", "MDL", "TARGET", "4.67", "RDL", "YES", "-99", "1070", "1", "0.935",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "193-39-5", "Indeno (1,2,3-cd)  
pyrene", "0.935", "g/l", "U", "0.542", "MDL", "TARGET", "4.67", "RDL", "YES", "-99", "1070", "1", "0.935",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "205-99-2", "Benzo (b)  
fluoranthene", "0.935", "g/l", "U", "0.408", "MDL", "TARGET", "4.67", "RDL", "YES", "-99", "1070", "1", "0.935",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "206-44-  
0", "Fluoranthene", "0.935", "g/l", "U", "0.596", "MDL", "TARGET", "4.67", "RDL", "YES", "-99", "1070", "1", "0.935",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "207-08-9", "Benzo (k)  
fluoranthene", "0.935", "g/l", "U", "0.449", "MDL", "TARGET", "4.67", "RDL", "YES", "-99", "1070", "1", "0.935",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "208-96-  
8", "Acenaphthylene", "0.935", "g/l", "U", "0.638", "MDL", "TARGET", "4.67", "RDL", "YES", "-99", "1070", "1", "0.935",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "218-01-  
9", "Chrysene", "0.935", "g/l", "U", "0.497", "MDL", "TARGET", "4.67", "RDL", "YES", "-99", "1070", "1", "0.935",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "321-60-8", "2-  
Fluorobiphenyl", "16.9", "g/l", "SGC", "-99", "NA", "SUR", "36", "-99", "NA", "YES", "46.7", "1070", "1", "-99",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "4165-60-0", "Nitrobenzene-  
d5", "18.1", "g/l", "SGC", "-99", "NA", "SUR", "39", "-99", "NA", "YES", "46.7", "1070", "1", "-99",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "50-32-8", "Benzo (a)  
pyrene", "0.935", "g/l", "U", "0.525", "MDL", "TARGET", "4.67", "RDL", "YES", "-99", "1070", "1", "0.935",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "53-70-3", "Dibenzo (a,h)  
anthracene", "0.935", "g/l", "U", "0.421", "MDL", "TARGET", "4.67", "RDL", "YES", "-99", "1070", "1", "0.935",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "56-55-3", "Benzo (a)  
anthracene", "0.935", "g/l", "U", "0.501", "MDL", "TARGET", "4.67", "RDL", "YES", "-99", "1070", "1", "0.935",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "83-32-  
9", "Acenaphthene", "0.935", "g/l", "U", "0.646", "MDL", "TARGET", "4.67", "RDL", "YES", "-99", "1070", "1", "0.935",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "85-01-  
8", "Phenanthrene", "0.935", "g/l", "U", "0.548", "MDL", "TARGET", "4.67", "RDL", "YES", "-99", "1070", "1", "0.935",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "86-73-  
7", "Fluorene", "0.935", "g/l", "U", "0.572", "MDL", "TARGET", "4.67", "RDL", "YES", "-99", "1070", "1", "0.935",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "90-12-0", "1-

Methylnaphthalene", "0.935", "◆g/l", "U", "0.685", "MDL", "TARGET", "4.67", "RDL", "YES", "-99", "1070", "1", "0.935",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "91-20-3", "Naphthalene", "0.935", "◆g/l", "U", "0.640", "MDL", "TARGET", "4.67", "RDL", "YES", "-99", "1070", "1", "0.935",  
"TF1-EBP-MW1001-082917", "SW846 8270D", "RE1", "SC38678-01RE1", "ESAI", "91-57-6", "2-Methylnaphthalene", "0.935", "◆g/l", "U", "0.536", "MDL", "TARGET", "4.67", "RDL", "YES", "-99", "1070", "1", "0.935",  
"TF1-EBP-MW1001-082917DUP", "EPA 245.1/7470A", "RES", "1715589-DUP1", "ESAI", "7439-97-6", "Mercury", "0.00020", "mg/l", "U", "0.00013", "MDL", "TARGET", "0.00020", "RDL", "YES", "-99", "TF1-EBP-MW1001-082917", "20", "20", "0.00020",  
"TF1-EBP-MW1001-082917MS", "EPA 245.1/7470A", "RES", "1715589-MS1", "ESAI", "7439-97-6", "Mercury", "0.00481", "mg/l", "0.00013", "MDL", "SPIKE", "96", "0.00020", "RDL", "YES", "0.00500", "TF1-EBP-MW1001-082917", "20", "20", "0.00020",  
"TF1-EBP-MW1001-082917MSD", "EPA 245.1/7470A", "RES", "1715589-MSD1", "ESAI", "7439-97-6", "Mercury", "0.00448", "mg/l", "0.00013", "MDL", "SPIKE", "90", "7", "0.00020", "RDL", "YES", "0.00500", "TF1-EBP-MW1001-082917", "20", "20", "0.00020",  
"TF1-EBP-MW1001-082917PS", "EPA 245.1/7470A", "RES", "1715589-PS1", "ESAI", "7439-97-6", "Mercury", "0.00478", "mg/l", "0.00013", "MDL", "SPIKE", "96", "0.00020", "RDL", "YES", "0.00500", "TF1-EBP-MW1001-082917", "20", "20", "0.00020",  
"TF1-FRB-082917", "EPA 537 Modified", "RES", "SC38678-08", "ESAI", "1763-23-1", "Perfluorooctanesulfonate", "0", "ng/l", "2", "MDL", "TARGET", "6", "RDL", "YES", "-99", "-99", "<",  
"TF1-FRB-082917", "EPA 537 Modified", "RES", "SC38678-08", "ESAI", "1763-23-1L", "13C8-PFOS", "36", "ng/l", "-99", "NA", "SUR", "74", "-99", "NA", "YES", "48", "-99",  
"TF1-FRB-082917", "EPA 537 Modified", "RES", "SC38678-08", "ESAI", "2058-94-8", "Perfluoroundecanoic acid", "0", "ng/l", "1", "MDL", "TARGET", "3", "RDL", "YES", "-99", "-99", "<",  
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"TF1-FRB-082917", "EPA 537 Modified", "RES", "SC38678-08", "ESAI", "2706-90-3", "Perfluoropentanoic Acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<",  
"TF1-FRB-082917", "EPA 537 Modified", "RES", "SC38678-08", "ESAI", "2706-90-3L", "13C5-PFPeA", "43", "ng/l", "-99", "NA", "SUR", "85", "-99", "NA", "YES", "50", "-99",  
"TF1-FRB-082917", "EPA 537 Modified", "RES", "SC38678-08", "ESAI", "307-24-4", "Perfluorohexanoic acid", "0", "ng/l", "0.6", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<",  
"TF1-FRB-082917", "EPA 537 Modified", "RES", "SC38678-08", "ESAI", "307-24-4L", "13C5-PFHxA", "44", "ng/l", "-99", "NA", "SUR", "87", "-99", "NA", "YES", "50", "-99",  
"TF1-FRB-082917", "EPA 537 Modified", "RES", "SC38678-08", "ESAI", "307-55-1", "Perfluorododecanoic acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<",  
"TF1-FRB-082917", "EPA 537 Modified", "RES", "SC38678-08", "ESAI", "307-55-1L", "13C2-PFDoDA", "31", "ng/l", "-99", "NA", "SUR", "61", "-99", "NA", "YES", "50", "-99",  
"TF1-FRB-082917", "EPA 537 Modified", "RES", "SC38678-08", "ESAI", "335-67-1", "Perfluorooctanoic acid", "0", "ng/l", "0.6", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<",  
"TF1-FRB-082917", "EPA 537 Modified", "RES", "SC38678-08", "ESAI", "335-67-1L", "13C8-PFOA", "42", "ng/l", "-99", "NA", "SUR", "83", "-99", "NA", "YES", "50", "-99",  
"TF1-FRB-082917", "EPA 537 Modified", "RES", "SC38678-08", "ESAI", "335-76-2", "Perfluorodecanoic acid", "0", "ng/l", "0.5", "MDL", "TARGET", "2", "RDL", "YES", "-99", "-99", "<",  
"TF1-FRB-082917", "EPA 537 Modified", "RES", "SC38678-08", "ESAI", "335-76-2L", "13C6-PFDA", "43", "ng/l", "-99", "NA", "SUR", "86", "-99", "NA", "YES", "50", "-99",  
"TF1-FRB-082917", "EPA 537 Modified", "RES", "SC38678-08", "ESAI", "335-77-3", "Perfluorodecanesulfonate", "0", "ng/l", "2", "MDL", "TARGET", "6", "RDL", "YES", "-99", "-99", "<",  
"TF1-FRB-082917", "EPA 537 Modified", "RES", "SC38678-08", "ESAI", "355-46-4", "Perfluorohexanesulfonate", "0", "ng/l", "1", "MDL", "TARGET", "3", "RDL", "YES", "-99", "-99", "<",  
"TF1-FRB-082917", "EPA 537 Modified", "RES", "SC38678-08", "ESAI", "355-46-4L", "13C3-PFHxS", "38", "ng/l", "-99", "NA", "SUR", "79", "-99", "NA", "YES", "47", "-99",  
"TF1-FRB-082917", "EPA 537 Modified", "RES", "SC38678-08", "ESAI", "375-22-4", "Perfluorobutanoic Acid", "0", "ng/l", "3", "MDL", "TARGET", "10", "RDL", "YES", "-99", "-99", "<",  
"TF1-FRB-082917", "EPA 537 Modified", "RES", "SC38678-08", "ESAI", "375-22-4L", "13C4-

PFBA","41","ng/l","-99","NA","SUR","82","-99","NA","YES","50","-99",  
"TF1-FRB-082917","EPA 537 Modified","RES","SC38678-08","ESAI","375-73-  
5","Perfluorobutanesulfonate","0","ng/l","0.8","MDL","TARGET","3","RDL","YES","-99","-99","<"  
"TF1-FRB-082917","EPA 537 Modified","RES","SC38678-08","ESAI","375-73-5L","13C3-  
PFBS","39","ng/l","-99","NA","SUR","84","-99","NA","YES","47","-99",  
"TF1-FRB-082917","EPA 537 Modified","RES","SC38678-08","ESAI","375-85-9","Perfluoroheptanoic  
acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"  
"TF1-FRB-082917","EPA 537 Modified","RES","SC38678-08","ESAI","375-85-9L","13C4-  
PFHpA","43","ng/l","-99","NA","SUR","85","-99","NA","YES","50","-99",  
"TF1-FRB-082917","EPA 537 Modified","RES","SC38678-08","ESAI","375-92-  
8","Perfluoroheptanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<"  
"TF1-FRB-082917","EPA 537 Modified","RES","SC38678-08","ESAI","375-95-1","Perfluorononanoic  
acid","0","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99","<"  
"TF1-FRB-082917","EPA 537 Modified","RES","SC38678-08","ESAI","375-95-1L","13C9-  
PFNA","38","ng/l","-99","NA","SUR","77","-99","NA","YES","50","-99",  
"TF1-FRB-082917","EPA 537 Modified","RES","SC38678-08","ESAI","376-06-7","Perfluorotetradecanoic  
acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"  
"TF1-FRB-082917","EPA 537 Modified","RES","SC38678-08","ESAI","376-06-7L","13C2-  
PFTeDA","29","ng/l","-99","NA","SUR","58","-99","NA","YES","50","-99",  
"TF1-FRB-082917","EPA 537 Modified","RES","SC38678-08","ESAI","72629-94-8","Perfluorotridecanoic  
acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"  
"TF1-FRB-082917","EPA 537 Modified","RES","SC38678-08","ESAI","754-91-  
6","PFOSA","0","ng/l","3","MDL","TARGET","9","RDL","YES","-99","-99","<"  
"TF1-FRB-082917","EPA 537 Modified","RES","SC38678-08","ESAI","754-91-6L","13C8-  
PFOSA","26","ng/l","-99","NA","SUR","52","-99","NA","YES","50","-99",  
"TF1-GT-109-082917","EPA 200/6000 methods","RES","SC38678-  
05","ESAI","NA","Preservation","0","N/A","-99","NA","TARGET","-99","NA","YES","-99","1","1","-99","Field  
Preserved; pH<2 confirmed"  
"TF1-GT-109-082917","EPA 245.1/7470A","RES","SC38678-05","ESAI","7439-97-  
6","Mercury","0.00020","mg/l","U","0.00013","MDL","TARGET","0.00020","RDL","YES","-99","20","20","0.0  
0020",  
"TF1-GT-109-082917","EPA 300.0","DL5","SC38678-05","ESAI","16887-00-6","Chloride","108","mg/l","GS1,  
D","0.448","MDL","TARGET","5.00","RDL","YES","-99","5","5","0.500",  
"TF1-GT-109-082917","EPA 300.0","RE1","SC38678-05RE1","ESAI","16887-00-  
6","Chloride","109","mg/l","0.0897","MDL","TARGET","1.00","RDL","YES","-99","5","5","0.100",  
"TF1-GT-109-082917","EPA 300.0","RES","SC38678-05","ESAI","14797-55-8","Nitrate as  
N","0.100","mg/l","U","0.009","MDL","TARGET","0.100","RDL","YES","-99","5","5","0.100",  
"TF1-GT-109-082917","EPA 300.0","RES","SC38678-05","ESAI","14808-79-8","Sulfate as  
SO4","5.43","mg/l","0.307","MDL","TARGET","1.00","RDL","YES","-99","5","5","1.00",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","1763-23-1","Perfluoro-  
octanesulfonate","100","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","1763-23-1L","13C8-  
PFOS","46","ng/l","-99","NA","SUR","96","-99","NA","YES","48","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","2058-94-8","Perfluoroundecanoic  
acid","0","ng/l","1","MDL","TARGET","3","RDL","YES","-99","-99","<"  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","2058-94-8L","13C7-  
PFUnDA","44","ng/l","-99","NA","SUR","87","-99","NA","YES","50","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","2706-90-3","Perfluoropentanoic  
Acid","31","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","2706-90-3L","13C5-  
PFPeA","55","ng/l","-99","NA","SUR","110","-99","NA","YES","50","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","307-24-4","Perfluorohexanoic  
acid","38","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","307-24-4L","13C5-  
PFHxA","44","ng/l","-99","NA","SUR","87","-99","NA","YES","50","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","307-55-1","Perfluorododecanoic  
acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"

"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","307-55-1L","13C2-PFDoDA","40","ng/l","-99","NA","SUR","80","-99","NA","YES","50","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","335-67-1","Perfluorooctanoic acid","40","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","335-67-1L","13C8-PFOA","43","ng/l","-99","NA","SUR","86","-99","NA","YES","50","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","335-76-2","Perfluorodecanoic acid","3","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","335-76-2L","13C6-PFDA","50","ng/l","-99","NA","SUR","100","-99","NA","YES","50","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","335-77-3","Perfluorodecanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<"  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","355-46-4","Perfluorohexanesulfonate","120","ng/l","1","MDL","TARGET","3","RDL","YES","-99","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","355-46-4L","13C3-PFHxS","37","ng/l","-99","NA","SUR","78","-99","NA","YES","47","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","375-22-4","Perfluorobutanoic Acid","14","ng/l","3","MDL","TARGET","10","RDL","YES","-99","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","375-22-4L","13C4-PFBA","43","ng/l","-99","NA","SUR","87","-99","NA","YES","50","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","375-73-5","Perfluorobutanesulfonate","10","ng/l","0.8","MDL","TARGET","3","RDL","YES","-99","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","375-73-5L","13C3-PFBS","54","ng/l","-99","NA","SUR","115","-99","NA","YES","47","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","375-85-9","Perfluoroheptanoic acid","15","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","375-85-9L","13C4-PFHpA","48","ng/l","-99","NA","SUR","95","-99","NA","YES","50","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","375-92-8","Perfluoroheptanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<"  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","375-95-1","Perfluorononanoic acid","5","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","375-95-1L","13C9-PFNA","55","ng/l","-99","NA","SUR","110","-99","NA","YES","50","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","376-06-7","Perfluorotetradecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","376-06-7L","13C2-PFTeDA","38","ng/l","-99","NA","SUR","76","-99","NA","YES","50","-99",  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","72629-94-8","Perfluorotridecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","754-91-6","PFOSA","0","ng/l","3","MDL","TARGET","9","RDL","YES","-99","-99","<"  
"TF1-GT-109-082917","EPA 537 Modified","RES","SC38678-05","ESAI","754-91-6L","13C8-PFOA","28","ng/l","-99","NA","SUR","56","-99","NA","YES","50","-99",  
"TF1-GT-109-082917","Mod EPA 3C/SOP RSK-175","RES","SC38678-05","ESAI","74-82-8","Methane","2.20","g/l","U","2.16","MDL","TARGET","2.20","RDL","YES","-99","10","10","2.20",  
"TF1-GT-109-082917","Mod EPA 3C/SOP RSK-175","RES","SC38678-05","ESAI","74-84-0","Ethane","5.00","g/l","U","3.48","MDL","TARGET","5.00","RDL","YES","-99","10","10","5.00",  
"TF1-GT-109-082917","SM18-22 5210B","RES","SC38678-05","ESAI","NA","Biochemical Oxygen Demand (5-day)","2.97","mg/l","BOD4, U","2.74","MDL","TARGET","3.00","RDL","YES","-99","300","300","2.97",  
"TF1-GT-109-082917","SM2320B (97, 11)","RES","SC38678-05","ESAI","NA","Total Alkalinity","74.8","mg/l CaCO3","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00",  
"TF1-GT-109-082917","SM5310B (00, 11)","RES","SC38678-05","ESAI","NA","Total Organic Carbon","2.40","mg/l","0.238","MDL","TARGET","1.00","RDL","YES","-99","40","40","0.500",  
"TF1-GT-109-082917","SW- 846 6020A","RES","SC38678-05","ESAI","7439-98-7","Molybdenum","0.00034","mg/l","Ja","0.00025","MDL","TARGET","0.0010","RDL","YES","-99","-99",  
"TF1-GT-109-082917","SW-846 6020A","RES","SC38678-05","ESAI","7440-39-

3", "Barium", "0.0099", "mg/l", "0.00072", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99",  
"TF1-GT-109-082917", "SW846 6010C", "RES", "SC38678-05", "ESAI", "7429-90-  
5", "Aluminum", "0.0430", "mg/l", "J", "0.0206", "MDL", "TARGET", "0.0500", "RDL", "YES", "-99", "50", "50", "0.05  
00",  
"TF1-GT-109-082917", "SW846 6010C", "RES", "SC38678-05", "ESAI", "7439-89-  
6", "Iron", "4.47", "mg/l", "0.0089", "MDL", "TARGET", "0.0300", "RDL", "YES", "-99", "50", "50", "0.0300",  
"TF1-GT-109-082917", "SW846 6010C", "RES", "SC38678-05", "ESAI", "7439-95-  
4", "Magnesium", "8.34", "mg/l", "0.0088", "MDL", "TARGET", "0.0200", "RDL", "YES", "-99", "50", "50", "0.0100",  
"TF1-GT-109-082917", "SW846 6010C", "RES", "SC38678-05", "ESAI", "7440-09-  
7", "Potassium", "3.58", "mg/l", "0.120", "MDL", "TARGET", "1.00", "RDL", "YES", "-99", "50", "50", "0.250",  
"TF1-GT-109-082917", "SW846 6010C", "RES", "SC38678-05", "ESAI", "7440-23-  
5", "Sodium", "64.2", "mg/l", "0.0785", "MDL", "TARGET", "0.500", "RDL", "YES", "-99", "50", "50", "0.250",  
"TF1-GT-109-082917", "SW846 6010C", "RES", "SC38678-05", "ESAI", "7440-70-  
2", "Calcium", "17.6", "mg/l", "0.0142", "MDL", "TARGET", "0.200", "RDL", "YES", "-99", "50", "50", "0.0500",  
"TF1-GT-109-082917", "SW-846 6020 A", "RES", "SC38678-05", "ESAI", "7782-49-  
2", "Selenium", "0", "mg/l", "0.00050", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-109-082917", "SW-846 6020A", "RES", "SC38678-05", "ESAI", "7439-92-  
1", "Lead", "0", "mg/l", "0.00011", "MDL", "TARGET", "0.0020", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-109-082917", "SW-846 6020A", "RES", "SC38678-05", "ESAI", "7439-96-  
5", "Manganese", "1.23", "mg/l", "0.00090", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99",  
"TF1-GT-109-082917", "SW-846 6020A", "RES", "SC38678-05", "ESAI", "7440-02-  
0", "Nickel", "0.0107", "mg/l", "0.0010", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99",  
"TF1-GT-109-082917", "SW-846 6020A", "RES", "SC38678-05", "ESAI", "7440-22-  
4", "Silver", "0", "mg/l", "0.00015", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-109-082917", "SW-846 6020A", "RES", "SC38678-05", "ESAI", "7440-28-  
0", "Thallium", "0", "mg/l", "0.00012", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-109-082917", "SW-846 6020A", "RES", "SC38678-05", "ESAI", "7440-36-  
0", "Antimony", "0", "mg/l", "0.00045", "MDL", "TARGET", "0.0020", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-109-082917", "SW-846 6020A", "RES", "SC38678-05", "ESAI", "7440-38-  
2", "Arsenic", "0.0036", "mg/l", "Ja", "0.00072", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99",  
"TF1-GT-109-082917", "SW-846 6020A", "RES", "SC38678-05", "ESAI", "7440-41-  
7", "Beryllium", "0", "mg/l", "0.000071", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-109-082917", "SW-846 6020A", "RES", "SC38678-05", "ESAI", "7440-43-  
9", "Cadmium", "0", "mg/l", "0.00015", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-109-082917", "SW-846 6020A", "RES", "SC38678-05", "ESAI", "7440-47-  
3", "Chromium", "0", "mg/l", "0.00087", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-109-082917", "SW-846 6020A", "RES", "SC38678-05", "ESAI", "7440-48-  
4", "Cobalt", "0.0134", "mg/l", "0.00016", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99",  
"TF1-GT-109-082917", "SW-846 6020A", "RES", "SC38678-05", "ESAI", "7440-50-  
8", "Copper", "0", "mg/l", "0.00054", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-109-082917", "SW-846 6020A", "RES", "SC38678-05", "ESAI", "7440-62-  
2", "Vanadium", "0", "mg/l", "0.00021", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99", "<"  
"TF1-GT-109-082917", "SW-846 6020A", "RES", "SC38678-05", "ESAI", "7440-66-  
6", "Zinc", "0.0071", "mg/l", "Ja", "0.0039", "MDL", "TARGET", "0.0300", "RDL", "YES", "-99", "-99",  
"TF1-GT-109-082917", "SW-846 8015B", "RES", "SC38678-05", "ESAI", "108-90-  
7", "Chlorobenzene", "0.012", "mg/l", "-99", "NA", "SUR", "92", "-99", "NA", "YES", "0.014", "-99",  
"TF1-GT-109-082917", "SW-846 8015B", "RES", "SC38678-05", "ESAI", "84-15-  
1", "Orthoterphenyl", "0.013", "mg/l", "-99", "NA", "SUR", "95", "-99", "NA", "YES", "0.014", "-99",  
"TF1-GT-109-082917", "SW-846 8015B", "RES", "SC38678-05", "ESAI", "PHCC8C44", "C8-  
C44", "0.14", "mg/l", "Ja", "0.056", "MDL", "TARGET", "0.22", "RDL", "YES", "-99", "-99",  
"TF1-GT-109-082917", "SW-846 8015B", "RES", "SC38678-05", "ESAI", "PHCE", "Total  
TPH", "0.14", "mg/l", "Ja", "0.056", "MDL", "TARGET", "0.22", "RDL", "YES", "-99", "-99",  
"TF1-GT-109-082917", "SW846 8081B", "RES", "SC38678-05", "ESAI", "1024-57-3", "Heptachlor  
epoxide", "0.021", "mg/l", "U", "0.016", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "950", "10", "0.021",  
"TF1-GT-109-082917", "SW846 8081B", "RES", "SC38678-05", "ESAI", "1031-07-8", "Endosulfan  
sulfate", "0.021", "mg/l", "U", "0.021", "MDL", "TARGET", "0.042", "RDL", "YES", "-99", "950", "10", "0.021",  
"TF1-GT-109-082917", "SW846 8081B", "RES", "SC38678-05", "ESAI", "10386-84-2", "4,4-DB-Octafluorobiphenyl



(Sr)"0.273","g/l","-99","NA","SUR","130","-99","NA","YES","0.211","950","10","-99",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","15972-60-  
8","Alachlor","0.021","g/l","U","0.020","MDL","TARGET","0.021","RDL","YES","-99","950","10","0.021",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","2051-24-3","Decachlorobiphenyl  
(Sr)"0.216","g/l","-99","NA","SUR","102","-99","NA","YES","0.211","950","10","-99",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","309-00-  
2","Aldrin","0.021","g/l","U","0.017","MDL","TARGET","0.021","RDL","YES","-99","950","10","0.021",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","319-84-6","alpha-  
BHC","0.021","g/l","U","0.012","MDL","TARGET","0.021","RDL","YES","-99","950","10","0.021",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","319-85-7","beta-  
BHC","0.021","g/l","U","0.015","MDL","TARGET","0.021","RDL","YES","-99","950","10","0.021",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","319-86-8","delta-  
BHC","0.021","g/l","U","0.016","MDL","TARGET","0.021","RDL","YES","-99","950","10","0.021",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","33213-65-9","Endosulfan  
II","0.021","g/l","U","0.021","MDL","TARGET","0.042","RDL","YES","-99","950","10","0.021",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","50-29-3","4,4'-DDT  
(p,p')","0.032","g/l","U","0.019","MDL","TARGET","0.042","RDL","YES","-99","950","10","0.032",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","5103-71-9","alpha-  
Chlordane","0.021","g/l","U","0.016","MDL","TARGET","0.021","RDL","YES","-99","950","10","0.021",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","5103-74-2","Chlordane (gamma)  
(trans)","0.021","g/l","U","0.017","MDL","TARGET","0.021","RDL","YES","-99","950","10","0.021",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","53494-70-5","Endrin  
ketone","0.021","g/l","U","0.018","MDL","TARGET","0.042","RDL","YES","-99","950","10","0.021",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","57-74-  
9","Chlordane","0.068","g/l","U","0.054","MDL","TARGET","0.068","RDL","YES","-99","950","10","0.068",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","58-89-9","gamma-BHC  
(Lindane)","0.021","g/l","U","0.018","MDL","TARGET","0.021","RDL","YES","-99","950","10","0.021",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","60-57-  
1","Dieldrin","0.021","g/l","U","0.018","MDL","TARGET","0.021","RDL","YES","-99","950","10","0.021",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","72-20-  
8","Endrin","0.021","g/l","U","0.020","MDL","TARGET","0.042","RDL","YES","-99","950","10","0.021",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","72-43-  
5","Methoxychlor","0.021","g/l","U","0.019","MDL","TARGET","0.042","RDL","YES","-99","950","10","0.0  
21",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","72-54-8","4,4'-DDD  
(p,p')","0.021","g/l","U","0.020","MDL","TARGET","0.042","RDL","YES","-99","950","10","0.021",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","72-55-9","4,4'-DDE  
(p,p')","0.021","g/l","U","0.019","MDL","TARGET","0.021","RDL","YES","-99","950","10","0.021",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","7421-93-4","Endrin  
aldehyde","0.021","g/l","U","0.020","MDL","TARGET","0.042","RDL","YES","-99","950","10","0.021",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","76-44-  
8","Heptachlor","0.021","g/l","U","0.021","MDL","TARGET","0.021","RDL","YES","-99","950","10","0.021",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","8001-35-  
2","Toxaphene","0.526","g/l","U","0.345","MDL","TARGET","0.526","RDL","YES","-99","950","10","0.526",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","877-09-8","2,4,5,6-TC-M-Xylene  
(IS)","0.020","g/ml","-99","NA","ISTD","95","-99","NA","YES","10.0","950","10","-99",  
"TF1-GT-109-082917","SW846 8081B","RES","SC38678-05","ESAI","959-98-8","Endosulfan  
I","0.021","g/l","U","0.017","MDL","TARGET","0.021","RDL","YES","-99","950","10","0.021",  
"TF1-GT-109-082917","SW846 8082A","RES","SC38678-05","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl  
(Sr)"0.232","g/l","-99","NA","SUR","110","-99","NA","YES","0.211","950","10","-99",  
"TF1-GT-109-082917","SW846 8082A","RES","SC38678-05","ESAI","11096-82-5","Aroclor-  
1260","0.211","g/l","U","0.0896","MDL","TARGET","0.211","RDL","YES","-99","950","10","0.211",  
"TF1-GT-109-082917","SW846 8082A","RES","SC38678-05","ESAI","11097-69-1","Aroclor-  
1254","0.211","g/l","U","0.122","MDL","TARGET","0.211","RDL","YES","-99","950","10","0.211",

"TF1-GT-109-082917","SW846 8082A","RES","SC38678-05","ESAI","11100-14-4","Aroclor-1268","0.211","g/l","U","0.0963","MDL","TARGET","0.211","RDL","YES","-99","950","10","0.211",  
"TF1-GT-109-082917","SW846 8082A","RES","SC38678-05","ESAI","11104-28-2","Aroclor-1221","0.211","g/l","U","0.121","MDL","TARGET","0.211","RDL","YES","-99","950","10","0.211",  
"TF1-GT-109-082917","SW846 8082A","RES","SC38678-05","ESAI","11141-16-5","Aroclor-1232","0.211","g/l","U","0.117","MDL","TARGET","0.211","RDL","YES","-99","950","10","0.211",  
"TF1-GT-109-082917","SW846 8082A","RES","SC38678-05","ESAI","12672-29-6","Aroclor-1248","0.211","g/l","U","0.143","MDL","TARGET","0.211","RDL","YES","-99","950","10","0.211",  
"TF1-GT-109-082917","SW846 8082A","RES","SC38678-05","ESAI","12674-11-2","Aroclor-1016","0.211","g/l","U","0.109","MDL","TARGET","0.211","RDL","YES","-99","950","10","0.211",  
"TF1-GT-109-082917","SW846 8082A","RES","SC38678-05","ESAI","2051-24-3","Decachlorobiphenyl (Sr)","0.242","g/l","-99","NA","SUR","115","-99","NA","YES","0.211","950","10","-99",  
"TF1-GT-109-082917","SW846 8082A","RES","SC38678-05","ESAI","37324-23-5","Aroclor-1262","0.211","g/l","U","0.0943","MDL","TARGET","0.211","RDL","YES","-99","950","10","0.211",  
"TF1-GT-109-082917","SW846 8082A","RES","SC38678-05","ESAI","53469-21-9","Aroclor-1242","0.211","g/l","U","0.113","MDL","TARGET","0.211","RDL","YES","-99","950","10","0.211",  
"TF1-GT-109-082917","SW846 8082A","RES","SC38678-05","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)","0.0200","g/ml","-99","NA","ISTD","92","-99","NA","YES","10.0","950","10","-99",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","100-41-4","Ethylbenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","100-42-5","Styrene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","10061-01-5","cis-1,3-Dichloropropene","0.5","g/l","U","0.4","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","10061-02-6","trans-1,3-Dichloropropene","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","106-46-7","1,4-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","106-93-4","1,2-Dibromoethane (EDB)","0.5","g/l","U","0.2","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","107-06-2","1,2-Dichloroethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","108-87-2","Methylcyclohexane","2.0","g/l","U","0.7","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","108-88-3","Toluene","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","108-90-7","Chlorobenzene","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","110-82-7","Cyclohexane","2.0","g/l","U","0.8","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","120-82-1","1,2,4-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","124-48-1","Dibromochloromethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","127-18-4","Tetrachloroethene","1.0","g/l","U","0.6","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","156-59-2","cis-1,2-Dichloroethene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","156-60-5","trans-1,2-Dichloroethene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","1634-04-4","Methyl tert-butyl ether","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","17060-07-0","1,2-Dichloroethane-d4","51.2","g/l","-99","NA","SUR","102","-99","NA","YES","50.0","5","5","-99",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","179601-23-1","m,p-

Xylene", "1.0", "◆g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "1868-53-  
7", "Dibromofluoromethane", "51.3", "◆g/l", "-99", "NA", "SUR", "103", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "2037-26-5", "Toluene-  
d8", "52.9", "◆g/l", "-99", "NA", "SUR", "106", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "3114-55-4", "Chlorobenzene-  
d5", "50.0", "◆g/l", "-99", "NA", "ISTD", "94", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "3855-82-1", "1,4-Dichlorobenzene-  
d4", "50.0", "◆g/l", "-99", "NA", "ISTD", "95", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "460-00-4", "4-  
Bromofluorobenzene", "51.4", "◆g/l", "-99", "NA", "SUR", "103", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "462-06-  
6", "Fluorobenzene", "50.0", "◆g/l", "-99", "NA", "ISTD", "96", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "541-73-1", "1,3-  
Dichlorobenzene", "0.5", "◆g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "56-23-5", "Carbon  
tetrachloride", "1.0", "◆g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "591-78-6", "2-Hexanone  
(MBK)", "2.0", "◆g/l", "U", "0.5", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "67-64-  
1", "Acetone", "2.0", "◆g/l", "U", "0.8", "MDL", "TARGET", "10.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "67-66-  
3", "Chloroform", "1.0", "◆g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "71-43-  
2", "Benzene", "0.5", "◆g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "71-55-6", "1,1,1-  
Trichloroethane", "1.0", "◆g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "74-83-  
9", "Bromomethane", "2.0", "◆g/l", "U", "0.9", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "74-87-  
3", "Chloromethane", "1.0", "◆g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "74-97-  
5", "Bromochloromethane", "1.0", "◆g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "75-00-  
3", "Chloroethane", "2.0", "◆g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "75-01-4", "Vinyl  
chloride", "1.0", "◆g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "75-09-2", "Methylene  
chloride", "2.0", "◆g/l", "U", "0.7", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "75-15-0", "Carbon  
disulfide", "1.0", "◆g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "75-25-  
2", "Bromoform", "1.0", "◆g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "75-27-  
4", "Bromodichloromethane", "0.5", "◆g/l", "U", "0.4", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "75-34-3", "1,1-  
Dichloroethane", "1.0", "◆g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "75-35-4", "1,1-  
Dichloroethene", "1.0", "◆g/l", "U", "0.7", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "75-69-4", "Trichlorofluoromethane (Freon  
11)", "1.0", "◆g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "75-71-8", "Dichlorodifluoromethane  
(Freon12)", "2.0", "◆g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "76-13-1", "1,1,2-Trichlorotrifluoroethane  
(Freon 113)", "1.0", "◆g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-GT-109-082917", "SW846 8260C", "RES", "SC38678-05", "ESAI", "78-87-5", "1,2-  
Dichloropropane", "1.0", "◆g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",

"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","78-93-3","2-Butanone (MEK)","2.0","g/l","U","1.1","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","79-00-5","1,1,2-Trichloroethane","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","79-01-6","Trichloroethene","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","79-20-9","Methyl acetate","2.0","g/l","U","0.6","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","79-34-5","1,1,2,2-Tetrachloroethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","87-61-6","1,2,3-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","95-47-6","o-Xylene","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","95-50-1","1,2-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","96-12-8","1,2-Dibromo-3-chloropropane","2.0","g/l","U","0.9","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-GT-109-082917","SW846 8260C","RES","SC38678-05","ESAI","98-82-8","Isopropylbenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","1146-65-2","Naphthalene-d8","40.0","g/ml","-99","NA","ISTD","146","-99","NA","YES","40.0","950","1","-99",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","120-12-7","Anthracene","1.05","g/l","U","0.640","MDL","TARGET","5.26","RDL","YES","-99","950","1","1.05",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","129-00-0","Pyrene","1.05","g/l","U","0.642","MDL","TARGET","5.26","RDL","YES","-99","950","1","1.05",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","15067-26-2","Acenaphthene-d10","40.0","g/ml","-99","NA","ISTD","152","-99","NA","YES","40.0","950","1","-99",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","1517-22-2","Phenanthrene-d10","40.0","g/ml","-99","NA","ISTD","139","-99","NA","YES","40.0","950","1","-99",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","1520-96-3","Perylene-d12","40.0","g/ml","-99","NA","ISTD","93","-99","NA","YES","40.0","950","1","-99",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","1718-51-0","Terphenyl-d14","40.0","g/l","-99","NA","SUR","76","-99","NA","YES","52.6","950","1","-99",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","1719-03-5","Chrysene-d12","40.0","g/ml","-99","NA","ISTD","112","-99","NA","YES","40.0","950","1","-99",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","191-24-2","Benzo (g,h,i) perylene","1.05","g/l","U","0.558","MDL","TARGET","5.26","RDL","YES","-99","950","1","1.05",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","193-39-5","Indeno (1,2,3-cd) pyrene","1.05","g/l","U","0.611","MDL","TARGET","5.26","RDL","YES","-99","950","1","1.05",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","205-99-2","Benzo (b) fluoranthene","1.05","g/l","U","0.460","MDL","TARGET","5.26","RDL","YES","-99","950","1","1.05",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","206-44-0","Fluoranthene","1.05","g/l","U","0.672","MDL","TARGET","5.26","RDL","YES","-99","950","1","1.05",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","207-08-9","Benzo (k) fluoranthene","1.05","g/l","U","0.505","MDL","TARGET","5.26","RDL","YES","-99","950","1","1.05",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","208-96-8","Acenaphthylene","1.05","g/l","U","0.719","MDL","TARGET","5.26","RDL","YES","-99","950","1","1.05",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","218-01-9","Chrysene","1.05","g/l","U","0.560","MDL","TARGET","5.26","RDL","YES","-99","950","1","1.05",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","321-60-8","2-Fluorobiphenyl","25.1","g/l","-99","NA","SUR","48","-99","NA","YES","52.6","950","1","-99",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","4165-60-0","Nitrobenzene-d5","26.0","g/l","-99","NA","SUR","49","-99","NA","YES","52.6","950","1","-99",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","50-32-8","Benzo (a) pyrene","1.05","g/l","U","0.592","MDL","TARGET","5.26","RDL","YES","-99","950","1","1.05",

"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","53-70-3","Dibenzo (a,h) anthracene","1.05"," $\diamond$ g/l","U","0.474","MDL","TARGET",,"5.26","RDL","YES", "-99", "950", "1", "1.05",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","56-55-3","Benzo (a) anthracene","1.05"," $\diamond$ g/l","U","0.564","MDL","TARGET",,"5.26","RDL","YES", "-99", "950", "1", "1.05",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","83-32-9","Acenaphthene","1.05"," $\diamond$ g/l","U","0.727","MDL","TARGET",,"5.26","RDL","YES", "-99", "950", "1", "1.05",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","85-01-8","Phenanthrene","1.05"," $\diamond$ g/l","U","0.617","MDL","TARGET",,"5.26","RDL","YES", "-99", "950", "1", "1.05",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","86-73-7","Fluorene","1.05"," $\diamond$ g/l","U","0.644","MDL","TARGET",,"5.26","RDL","YES", "-99", "950", "1", "1.05",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","90-12-0","1-Methylnaphthalene","1.05"," $\diamond$ g/l","U","0.772","MDL","TARGET",,"5.26","RDL","YES", "-99", "950", "1", "1.05",  
/,"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","91-20-3","Naphthalene","1.05"," $\diamond$ g/l","U","0.721","MDL","TARGET",,"5.26","RDL","YES", "-99", "950", "1", "1.05",  
"TF1-GT-109-082917","SW846 8270D","RES","SC38678-05","ESAI","91-57-6","2-Methylnaphthalene","1.05"," $\diamond$ g/l","U","0.604","MDL","TARGET",,"5.26","RDL","YES", "-99", "950", "1", "1.05",  
/,"TF1-GT-109-082917DUP","EPA 300.0","RES","1714902-DUP2","ESAI","14797-55-8","Nitrate as N","0.100","mg/l","U","0.009","MDL","TARGET",,"0.100","RDL","YES", "-99", "TF1-GT-109-082917", "5", "5", "0.100",  
"TF1-GT-109-082917DUP","EPA 300.0","RES","1714902-DUP2","ESAI","14808-79-8","Sulfate as SO4","5.44","mg/l",,"0.307","MDL","TARGET",,"0.04","1.00","RDL","YES", "-99", "TF1-GT-109-082917", "5", "5", "1.00",  
"TF1-GT-109-082917DUP","EPA 300.0","RES","1714902-DUP2","ESAI","16887-00-6","Chloride","109","mg/l",,"0.0897","MDL","TARGET",,"0.1","1.00","RDL","YES", "-99", "TF1-GT-109-082917", "5", "5", "0.100",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","1024-57-3","Heptachlor epoxide","0.020"," $\diamond$ g/l","U","0.015","MDL","TARGET",,"0.020","RDL","YES", "-99", "TF1-GT-109-082917", "1000", "10", "0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","1024-57-3","Heptachlor epoxide [2C]","0.020"," $\diamond$ g/l","U","0.015","MDL","TARGET",,"0.020","RDL","YES", "-99", "TF1-GT-109-082917", "1000", "10", "0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","1031-07-8","Endosulfan sulfate","0.020"," $\diamond$ g/l","U","0.020","MDL","TARGET",,"0.040","RDL","YES", "-99", "TF1-GT-109-082917", "1000", "10", "0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","1031-07-8","Endosulfan sulfate [2C]","0.020"," $\diamond$ g/l","U","0.017","MDL","TARGET",,"0.040","RDL","YES", "-99", "TF1-GT-109-082917", "1000", "10", "0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr)","0.274"," $\diamond$ g/l",,"-99","NA",,"SUR", "137",,"-99","NA","YES", "0.200", "TF1-GT-109-082917", "1000", "10", "-99",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr) [2C]","0.282"," $\diamond$ g/l",,"-99","NA",,"SUR", "141",,"-99","NA","YES", "0.200", "TF1-GT-109-082917", "1000", "10", "-99",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","15972-60-8","Alachlor","0.020"," $\diamond$ g/l","U","0.019","MDL","TARGET",,"0.020","RDL","YES", "-99", "TF1-GT-109-082917", "1000", "10", "0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","15972-60-8","Alachlor [2C]","0.020"," $\diamond$ g/l","U","0.018","MDL","TARGET",,"0.020","RDL","YES", "-99", "TF1-GT-109-082917", "1000", "10", "0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","2051-24-3","Decachlorobiphenyl (Sr)","0.213"," $\diamond$ g/l",,"-99","NA",,"SUR", "106",,"-99","NA","YES", "0.200", "TF1-GT-109-082917", "1000", "10", "-99",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","2051-24-3","Decachlorobiphenyl (Sr) [2C]","0.210"," $\diamond$ g/l",,"-99","NA",,"SUR", "105",,"-99","NA","YES", "0.200", "TF1-GT-109-082917", "1000", "10", "-99",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","309-00-2","Aldrin","0.020","g/l","U","0.016","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","309-00-2","Aldrin [2C]","0.020","g/l","U","0.019","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","319-84-6","alpha-BHC","0.020","g/l","U","0.012","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","319-84-6","alpha-BHC [2C]","0.020","g/l","U","0.018","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","319-85-7","beta-BHC","0.020","g/l","U","0.015","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","319-85-7","beta-BHC [2C]","0.020","g/l","U","0.019","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","319-86-8","delta-BHC","0.020","g/l","U","0.015","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","319-86-8","delta-BHC [2C]","0.020","g/l","U","0.019","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","33213-65-9","Endosulfan II","0.020","g/l","U","0.020","MDL","TARGET","0.040","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","33213-65-9","Endosulfan II [2C]","0.020","g/l","U","0.016","MDL","TARGET","0.040","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","50-29-3","4,4'-DDT (p,p')","0.030","g/l","U","0.018","MDL","TARGET","0.040","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.030",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","50-29-3","4,4'-DDT (p,p') [2C]","0.030","g/l","U","0.022","MDL","TARGET","0.040","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.030",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","5103-71-9","alpha-Chlordane","0.020","g/l","U","0.015","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","5103-71-9","alpha-Chlordane [2C]","0.020","g/l","U","0.017","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","5103-74-2","Chlordane (gamma) (trans)","0.020","g/l","U","0.016","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","5103-74-2","Chlordane (gamma) (trans) [2C]","0.020","g/l","U","0.014","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","53494-70-5","Endrin ketone","0.020","g/l","U","0.017","MDL","TARGET","0.040","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","53494-70-5","Endrin ketone [2C]","0.020","g/l","U","0.018","MDL","TARGET","0.040","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",  
"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","57-74-9","Chlordane","0.065","g/l","U","0.051","MDL","TARGET","0.065","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.065",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","57-74-9","Chlordane [2C]","0.065","g/l","U","0.061","MDL","TARGET","0.065","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.065",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","58-89-9","gamma-BHC (Lindane)","0.020","g/l","U","0.017","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","58-89-9","gamma-BHC (Lindane) [2C]","0.020","g/l","U","0.018","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","60-57-1","Dieldrin","0.020","g/l","U","0.017","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","60-57-1","Dieldrin [2C]","0.020","g/l","U","0.019","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","72-20-8","Endrin","0.020","g/l","U","0.019","MDL","TARGET","0.040","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","72-20-8","Endrin [2C]","0.020","g/l","U","0.019","MDL","TARGET","0.040","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","72-43-5","Methoxychlor","0.020","g/l","U","0.018","MDL","TARGET","0.040","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","72-43-5","Methoxychlor [2C]","0.020","g/l","U","0.018","MDL","TARGET","0.040","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","72-54-8","4,4'-DDD (p,p)","0.020","g/l","U","0.019","MDL","TARGET","0.040","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","72-54-8","4,4'-DDD (p,p) [2C]","0.020","g/l","U","0.017","MDL","TARGET","0.040","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","72-55-9","4,4'-DDE (p,p)","0.020","g/l","U","0.018","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","72-55-9","4,4'-DDE (p,p) [2C]","0.020","g/l","U","0.018","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","7421-93-4","Endrin aldehyde","0.020","g/l","U","0.019","MDL","TARGET","0.040","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","7421-93-4","Endrin aldehyde [2C]","0.020","g/l","U","0.018","MDL","TARGET","0.040","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","76-44-8","Heptachlor","0.020","g/l","U","0.020","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","76-44-8","Heptachlor [2C]","0.020","g/l","U","0.020","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","8001-35-2","Toxaphene","0.500","g/l","U","0.328","MDL","TARGET","0.500","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.500",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","8001-35-2","Toxaphene [2C]","0.500","g/l","U","0.287","MDL","TARGET","0.500","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.500",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)","0.020","◆g/ml","-99","NA","ISTD","93","-99","NA","YES","10.0","TF1-GT-109-082917","1000","10","-99",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS) [2C]","0.020","◆g/ml","-99","NA","ISTD","91","-99","NA","YES","10.0","TF1-GT-109-082917","1000","10","-99",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","959-98-8","Endosulfan I","0.020","◆g/l","U","0.016","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",

"TF1-GT-109-082917DUP","SW846 8081B","RES","1715010-DUP1","ESAI","959-98-8","Endosulfan I [2C]","0.020","◆g/l","U","0.016","MDL","TARGET","0.020","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.020",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr)","0.210","◆g/l","-99","NA","SUR","105","-99","NA","YES","0.200","TF1-GT-109-082917","1000","10","-99",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr) [2C]","0.230","◆g/l","-99","NA","SUR","115","-99","NA","YES","0.200","TF1-GT-109-082917","1000","10","-99",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","11096-82-5","Aroclor-1260","0.200","◆g/l","U","0.0851","MDL","TARGET","0.200","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.200",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","11096-82-5","Aroclor-1260 [2C]","0.200","◆g/l","U","0.115","MDL","TARGET","0.200","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.200",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","11097-69-1","Aroclor-1254","0.200","◆g/l","U","0.116","MDL","TARGET","0.200","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.200",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","11097-69-1","Aroclor-1254 [2C]","0.200","◆g/l","U","0.113","MDL","TARGET","0.200","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.200",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","11100-14-4","Aroclor-1268","0.200","◆g/l","U","0.0915","MDL","TARGET","0.200","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.200",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","11100-14-4","Aroclor-1268 [2C]","0.200","◆g/l","U","0.119","MDL","TARGET","0.200","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.200",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","11104-28-2","Aroclor-1221","0.200","◆g/l","U","0.115","MDL","TARGET","0.200","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.200",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","11104-28-2","Aroclor-1221 [2C]","0.200","◆g/l","U","0.180","MDL","TARGET","0.200","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.200",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","11141-16-5","Aroclor-1232","0.200","◆g/l","U","0.111","MDL","TARGET","0.200","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.200",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","11141-16-5","Aroclor-1232 [2C]","0.200","◆g/l","U","0.0848","MDL","TARGET","0.200","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.200",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","12672-29-6","Aroclor-1248","0.200","◆g/l","U","0.136","MDL","TARGET","0.200","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.200",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","12672-29-6","Aroclor-1248 [2C]","0.200","◆g/l","U","0.125","MDL","TARGET","0.200","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.200",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","12674-11-2","Aroclor-1016","0.200","◆g/l","U","0.104","MDL","TARGET","0.200","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.200",



"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","12674-11-2","Aroclor-1016 [2C]","0.200","g/l","U","0.122","MDL","TARGET","0.200","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.200",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","2051-24-3","Decachlorobiphenyl (Sr)","0.260","g/l","-99","NA","SUR","130","-99","NA","YES","0.200","TF1-GT-109-082917","1000","10","-99",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","2051-24-3","Decachlorobiphenyl (Sr) [2C]","0.260","g/l","-99","NA","SUR","130","-99","NA","YES","0.200","TF1-GT-109-082917","1000","10","-99",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","37324-23-5","Aroclor-1262","0.200","g/l","U","0.0896","MDL","TARGET","0.200","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.200",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","37324-23-5","Aroclor-1262 [2C]","0.200","g/l","U","0.127","MDL","TARGET","0.200","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.200",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","53469-21-9","Aroclor-1242","0.200","g/l","U","0.107","MDL","TARGET","0.200","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.200",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","53469-21-9","Aroclor-1242 [2C]","0.200","g/l","U","0.105","MDL","TARGET","0.200","RDL","YES","-99","TF1-GT-109-082917","1000","10","0.200",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)","0.0200","g/ml","-99","NA","ISTD","88","-99","NA","YES","10.0","TF1-GT-109-082917","1000","10","-99",

"TF1-GT-109-082917DUP","SW846 8082A","RES","1715132-DUP1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS) [2C]","0.0200","g/ml","-99","NA","ISTD","86","-99","NA","YES","10.0","TF1-GT-109-082917","1000","10","-99",

"TF1-GT-109-082917MS","EPA 300.0","RES","1714902-MS2","ESAI","14797-55-8","Nitrate as N","0.867","mg/l","0.009","MDL","SPIKE","108","0.100","RDL","YES","0.800","TF1-GT-109-082917","5","5","0.100",

"TF1-GT-109-082917MS","EPA 300.0","RES","1714902-MS2","ESAI","14808-79-8","Sulfate as SO4","14.2","mg/l","0.307","MDL","SPIKE","110","1.00","RDL","YES","8.00","TF1-GT-109-082917","5","5","1.00",

"TF1-GT-109-082917MS","EPA 300.0","RES","1714902-MS2","ESAI","16887-00-6","Chloride","116","mg/l","QM2","0.0897","MDL","SPIKE","89","1.00","RDL","YES","8.00","TF1-GT-109-082917","5","5","0.100",

"TF1-GT-109-082917MSD","EPA 300.0","RES","1714902-MSD2","ESAI","14797-55-8","Nitrate as N","0.872","mg/l","0.009","MDL","SPIKE","109","0.6","0.100","RDL","YES","0.800","TF1-GT-109-082917","5","5","0.100",

"TF1-GT-109-082917MSD","EPA 300.0","RES","1714902-MSD2","ESAI","14808-79-8","Sulfate as SO4","14.2","mg/l","0.307","MDL","SPIKE","109","0.1","1.00","RDL","YES","8.00","TF1-GT-109-082917","5","5","1.00",

"TF1-GT-109-082917MSD","EPA 300.0","RES","1714902-MSD2","ESAI","16887-00-6","Chloride","116","mg/l","0.0897","MDL","SPIKE","90","0.09","1.00","RDL","YES","8.00","TF1-GT-109-082917","5","5","0.100",

"TF1-MW1002-082917","EPA 200/6000 methods","RES","SC38678-04","ESAI","NA","Preservation","0","N/A","-99","NA","TARGET","-99","NA","YES","-99","1","1","-99","Field Preserved; pH<2 confirmed"

"TF1-MW1002-082917","EPA 245.1/7470A","RES","SC38678-04","ESAI","7439-97-6","Mercury","0.00020","mg/l","U","0.00013","MDL","TARGET","0.00020","RDL","YES","-99","20","20","0.00020",

"TF1-MW1002-082917","EPA 300.0","RES","SC38678-04","ESAI","14797-55-8","Nitrate as N","0.100","mg/l","U","0.009","MDL","TARGET","0.100","RDL","YES","-99","5","5","0.100",

"TF1-MW1002-082917","EPA 300.0","RES","SC38678-04","ESAI","14808-79-8","Sulfate as SO4","17.4","mg/l","0.307","MDL","TARGET","1.00","RDL","YES","-99","5","5","1.00",

"TF1-MW1002-082917","EPA 300.0","RES","SC38678-04","ESAI","16887-00-6","Chloride","40.3","mg/l","0.0897","MDL","TARGET","1.00","RDL","YES","-99","5","5","0.100",

"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","1763-23-1","Perfluorooctanesulfonate","9","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","1763-23-1L","13C8-PFOS","38","ng/l","-99","NA","SUR","80","-99","NA","YES","48","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","2058-94-8","Perfluoroundecanoic acid","0","ng/l","1","MDL","TARGET","3","RDL","YES","-99","-99","<",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","2058-94-8L","13C7-PFUnDA","38","ng/l","-99","NA","SUR","77","-99","NA","YES","50","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","2706-90-3","Perfluoropentanoic Acid","62","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","2706-90-3L","13C5-PFPeA","49","ng/l","-99","NA","SUR","99","-99","NA","YES","50","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","307-24-4","Perfluorohexanoic acid","84","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","307-24-4L","13C5-PFHxA","39","ng/l","-99","NA","SUR","78","-99","NA","YES","50","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","307-55-1","Perfluorododecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","307-55-1L","13C2-PFDoDA","37","ng/l","-99","NA","SUR","74","-99","NA","YES","50","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","335-67-1","Perfluorooctanoic acid","46","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","335-67-1L","13C8-PFOA","40","ng/l","-99","NA","SUR","80","-99","NA","YES","50","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","335-76-2","Perfluorodecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","335-76-2L","13C6-PFDA","48","ng/l","-99","NA","SUR","96","-99","NA","YES","50","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","335-77-3","Perfluorodecanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","355-46-4","Perfluorohexanesulfonate","100","ng/l","1","MDL","TARGET","3","RDL","YES","-99","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","355-46-4L","13C3-PFHxS","34","ng/l","-99","NA","SUR","73","-99","NA","YES","47","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","375-22-4","Perfluorobutanoic Acid","24","ng/l","3","MDL","TARGET","10","RDL","YES","-99","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","375-22-4L","13C4-PFBA","42","ng/l","-99","NA","SUR","84","-99","NA","YES","50","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","375-73-5","Perfluorobutanesulfonate","17","ng/l","0.8","MDL","TARGET","3","RDL","YES","-99","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","375-73-5L","13C3-PFBS","48","ng/l","-99","NA","SUR","104","-99","NA","YES","46","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","375-85-9","Perfluoroheptanoic acid","14","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","375-85-9L","13C4-PFHpA","42","ng/l","-99","NA","SUR","84","-99","NA","YES","50","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","375-92-8","Perfluoroheptanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","375-95-1","Perfluorononanoic acid","0","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99","<",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","375-95-1L","13C9-PFNA","40","ng/l","-99","NA","SUR","80","-99","NA","YES","50","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","376-06-7","Perfluorotetradecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","376-06-7L","13C2-PFTeDA","40","ng/l","-99","NA","SUR","80","-99","NA","YES","50","-99",  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","72629-94-8","Perfluorotridecanoic

acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","754-91-6","PFOSA","0","ng/l","3","MDL","TARGET","9","RDL","YES","-99","-99","<"  
"TF1-MW1002-082917","EPA 537 Modified","RES","SC38678-04","ESAI","754-91-6L","13C8-PFOA","14","ng/l","-99","NA","SUR","28","-99","NA","YES","50","-99"  
"TF1-MW1002-082917","Mod EPA 3C/SOP RSK-175","RES","SC38678-04","ESAI","74-82-8","Methane","2.20","g/l","U","2.16","MDL","TARGET","2.20","RDL","YES","-99","10","10","2.20"  
"TF1-MW1002-082917","Mod EPA 3C/SOP RSK-175","RES","SC38678-04","ESAI","74-84-0","Ethane","5.00","g/l","U","3.48","MDL","TARGET","5.00","RDL","YES","-99","10","10","5.00"  
"TF1-MW1002-082917","SM18-22 5210B","RES","SC38678-04","ESAI","NA","Biochemical Oxygen Demand (5-day)","2.97","mg/l","BOD4, U","2.74","MDL","TARGET","3.00","RDL","YES","-99","300","300","2.97"  
"TF1-MW1002-082917","SM2320B (97, 11)","RES","SC38678-04","ESAI","NA","Total Alkalinity","60.5","mg/l CaCO3","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00"  
"TF1-MW1002-082917","SM5310B (00, 11)","RES","SC38678-04","ESAI","NA","Total Organic Carbon","0.942","mg/l","J","0.238","MDL","TARGET","1.00","RDL","YES","-99","40","40","0.500"  
"TF1-MW1002-082917","SW- 846 6020A","RES","SC38678-04","ESAI","7439-98-7","Molybdenum","0","mg/l","0.00025","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"  
"TF1-MW1002-082917","SW-846 6020A","RES","SC38678-04","ESAI","7440-39-3","Barium","0.0116","mg/l","0.00072","MDL","TARGET","0.0040","RDL","YES","-99","-99"  
"TF1-MW1002-082917","SW846 6010C","RES","SC38678-04","ESAI","7429-90-5","Aluminum","0.0500","mg/l","U","0.0206","MDL","TARGET","0.0500","RDL","YES","-99","50","50","0.0500"  
"TF1-MW1002-082917","SW846 6010C","RES","SC38678-04","ESAI","7439-89-6","Iron","17.8","mg/l","0.0089","MDL","TARGET","0.0300","RDL","YES","-99","50","50","0.0300"  
"TF1-MW1002-082917","SW846 6010C","RES","SC38678-04","ESAI","7439-95-4","Magnesium","7.61","mg/l","0.0088","MDL","TARGET","0.0200","RDL","YES","-99","50","50","0.0100"  
"TF1-MW1002-082917","SW846 6010C","RES","SC38678-04","ESAI","7440-09-7","Potassium","1.52","mg/l","0.120","MDL","TARGET","1.00","RDL","YES","-99","50","50","0.250"  
"TF1-MW1002-082917","SW846 6010C","RES","SC38678-04","ESAI","7440-23-5","Sodium","22.7","mg/l","0.0785","MDL","TARGET","0.500","RDL","YES","-99","50","50","0.250"  
"TF1-MW1002-082917","SW846 6010C","RES","SC38678-04","ESAI","7440-70-2","Calcium","8.64","mg/l","0.0142","MDL","TARGET","0.200","RDL","YES","-99","50","50","0.0500"  
"TF1-MW1002-082917","SW-846 6020 A","RES","SC38678-04","ESAI","7782-49-2","Selenium","0","mg/l","0.00050","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"  
"TF1-MW1002-082917","SW-846 6020A","RES","SC38678-04","ESAI","7439-92-1","Lead","0","mg/l","0.00011","MDL","TARGET","0.0020","RDL","YES","-99","-99","<"  
"TF1-MW1002-082917","SW-846 6020A","RES","SC38678-04","ESAI","7439-96-5","Manganese","2.04","mg/l","0.00090","MDL","TARGET","0.0040","RDL","YES","-99","-99"  
"TF1-MW1002-082917","SW-846 6020A","RES","SC38678-04","ESAI","7440-02-0","Nickel","0.0470","mg/l","0.0010","MDL","TARGET","0.0040","RDL","YES","-99","-99"  
"TF1-MW1002-082917","SW-846 6020A","RES","SC38678-04","ESAI","7440-22-4","Silver","0","mg/l","0.00015","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"  
"TF1-MW1002-082917","SW-846 6020A","RES","SC38678-04","ESAI","7440-28-0","Thallium","0","mg/l","0.00012","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"  
"TF1-MW1002-082917","SW-846 6020A","RES","SC38678-04","ESAI","7440-36-0","Antimony","0","mg/l","0.00045","MDL","TARGET","0.0020","RDL","YES","-99","-99","<"  
"TF1-MW1002-082917","SW-846 6020A","RES","SC38678-04","ESAI","7440-38-2","Arsenic","0.0018","mg/l","Ja","0.00072","MDL","TARGET","0.0040","RDL","YES","-99","-99"  
"TF1-MW1002-082917","SW-846 6020A","RES","SC38678-04","ESAI","7440-41-7","Beryllium","0.00012","mg/l","Ja","0.000071","MDL","TARGET","0.0010","RDL","YES","-99","-99"  
"TF1-MW1002-082917","SW-846 6020A","RES","SC38678-04","ESAI","7440-43-9","Cadmium","0","mg/l","0.00015","MDL","TARGET","0.0010","RDL","YES","-99","-99","<"  
"TF1-MW1002-082917","SW-846 6020A","RES","SC38678-04","ESAI","7440-47-3","Chromium","0","mg/l","0.00087","MDL","TARGET","0.0040","RDL","YES","-99","-99","<"  
"TF1-MW1002-082917","SW-846 6020A","RES","SC38678-04","ESAI","7440-48-4","Cobalt","0.0286","mg/l","0.00016","MDL","TARGET","0.0010","RDL","YES","-99","-99"  
"TF1-MW1002-082917","SW-846 6020A","RES","SC38678-04","ESAI","7440-50-

8", "Copper", "0", "mg/l", "0.00054", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99", "<"  
"TF1-MW1002-082917", "SW-846 6020A", "RES", "SC38678-04", "ESAI", "7440-62-  
2", "Vanadium", "0", "mg/l", "0.00021", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99", "<"  
"TF1-MW1002-082917", "SW-846 6020A", "RES", "SC38678-04", "ESAI", "7440-66-  
6", "Zinc", "0.0787", "mg/l", "0.0039", "MDL", "TARGET", "0.0300", "RDL", "YES", "-99", "-99",  
"TF1-MW1002-082917", "SW-846 8015B", "RES", "SC38678-04", "ESAI", "108-90-  
7", "Chlorobenzene", "0.012", "mg/l", "-99", "NA", "SUR", "90", "-99", "NA", "YES", "0.014", "-99",  
"TF1-MW1002-082917", "SW-846 8015B", "RES", "SC38678-04", "ESAI", "84-15-  
1", "Orthoterphenyl", "0.013", "mg/l", "-99", "NA", "SUR", "96", "-99", "NA", "YES", "0.014", "-99",  
"TF1-MW1002-082917", "SW-846 8015B", "RES", "SC38678-04", "ESAI", "PHCC8C44", "C8-  
C44", "0.072", "mg/l", "Ja", "0.057", "MDL", "TARGET", "0.23", "RDL", "YES", "-99", "-99",  
"TF1-MW1002-082917", "SW-846 8015B", "RES", "SC38678-04", "ESAI", "PHCE", "Total  
TPH", "0.072", "mg/l", "Ja", "0.057", "MDL", "TARGET", "0.23", "RDL", "YES", "-99", "-99",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "1024-57-3", "Heptachlor  
epoxide", "0.021", "g/l", "U", "0.016", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "950", "10", "0.021",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "1031-07-8", "Endosulfan  
sulfate", "0.021", "g/l", "U", "0.021", "MDL", "TARGET", "0.042", "RDL", "YES", "-99", "950", "10", "0.021",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "10386-84-2", "4,4-DB-  
Octafluorobiphenyl (Sr)", "0.313", "g/l", "-99", "NA", "SUR", "74", "-99", "NA", "YES", "0.421", "950", "10", "-99",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "15972-60-  
8", "Alachlor", "0.021", "g/l", "U", "0.020", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "950", "10", "0.021",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "2051-24-3", "Decachlorobiphenyl  
(Sr)", "0.258", "g/l", "-99", "NA", "SUR", "61", "-99", "NA", "YES", "0.421", "950", "10", "-99",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "309-00-  
2", "Aldrin", "0.021", "g/l", "U", "0.017", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "950", "10", "0.021",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "319-84-6", "alpha-  
BHC", "0.021", "g/l", "U", "0.012", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "950", "10", "0.021",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "319-85-7", "beta-  
BHC", "0.021", "g/l", "U", "0.015", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "950", "10", "0.021",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "319-86-8", "delta-  
BHC", "0.021", "g/l", "U", "0.016", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "950", "10", "0.021",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "33213-65-9", "Endosulfan  
II", "0.021", "g/l", "U", "0.021", "MDL", "TARGET", "0.042", "RDL", "YES", "-99", "950", "10", "0.021",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "50-29-3", "4,4'-DDT  
(p,p')", "0.032", "g/l", "U", "0.019", "MDL", "TARGET", "0.042", "RDL", "YES", "-99", "950", "10", "0.032",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "5103-71-9", "alpha-  
Chlordane", "0.021", "g/l", "U", "0.016", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "950", "10", "0.021",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "5103-74-2", "Chlordane (gamma)  
(trans)", "0.021", "g/l", "U", "0.017", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "950", "10", "0.021",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "53494-70-5", "Endrin  
ketone", "0.021", "g/l", "U", "0.018", "MDL", "TARGET", "0.042", "RDL", "YES", "-99", "950", "10", "0.021",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "57-74-  
9", "Chlordane", "0.068", "g/l", "U", "0.054", "MDL", "TARGET", "0.068", "RDL", "YES", "-99", "950", "10", "0.068"  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "58-89-9", "gamma-BHC  
(Lindane)", "0.021", "g/l", "U", "0.018", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "950", "10", "0.021",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "60-57-  
1", "Dieldrin", "0.021", "g/l", "U", "0.018", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "950", "10", "0.021",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "72-20-  
8", "Endrin", "0.021", "g/l", "U", "0.020", "MDL", "TARGET", "0.042", "RDL", "YES", "-99", "950", "10", "0.021",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "72-43-  
5", "Methoxychlor", "0.021", "g/l", "U", "0.019", "MDL", "TARGET", "0.042", "RDL", "YES", "-99", "950", "10", "0.021",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "72-54-8", "4,4'-DDD  
(p,p')", "0.021", "g/l", "U", "0.020", "MDL", "TARGET", "0.042", "RDL", "YES", "-99", "950", "10", "0.021",  
"TF1-MW1002-082917", "SW846 8081B", "RES", "SC38678-04", "ESAI", "72-55-9", "4,4'-DDE  
(p,p')", "0.021", "g/l", "U", "0.019", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "950", "10", "0.021",

"TF1-MW1002-082917","SW846 8081B","RES","SC38678-04","ESAI","7421-93-4","Endrin aldehyde","0.021","g/l","U","0.020","MDL","TARGET","0.042","RDL","YES","-99","950","10","0.021",  
"TF1-MW1002-082917","SW846 8081B","RES","SC38678-04","ESAI","76-44-8","Heptachlor","0.021","g/l","U","0.021","MDL","TARGET","0.021","RDL","YES","-99","950","10","0.021",  
"TF1-MW1002-082917","SW846 8081B","RES","SC38678-04","ESAI","8001-35-2","Toxaphene","0.526","g/l","U","0.345","MDL","TARGET","0.526","RDL","YES","-99","950","10","0.526",  
"TF1-MW1002-082917","SW846 8081B","RES","SC38678-04","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)","0.020","g/ml","-99","NA","ISTD","92","-99","NA","YES","10.0","950","10","-99",  
"TF1-MW1002-082917","SW846 8081B","RES","SC38678-04","ESAI","959-98-8","Endosulfan I","0.021","g/l","U","0.017","MDL","TARGET","0.021","RDL","YES","-99","950","10","0.021",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","100-41-4","Ethylbenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","100-42-5","Styrene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","10061-01-5","cis-1,3-Dichloropropene","0.5","g/l","U","0.4","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","10061-02-6","trans-1,3-Dichloropropene","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","106-46-7","1,4-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","106-93-4","1,2-Dibromoethane (EDB)","0.5","g/l","U","0.2","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","107-06-2","1,2-Dichloroethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","108-87-2","Methylcyclohexane","2.0","g/l","U","0.7","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","108-88-3","Toluene","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","108-90-7","Chlorobenzene","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","110-82-7","Cyclohexane","2.0","g/l","U","0.8","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","120-82-1","1,2,4-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","124-48-1","Dibromochloromethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","127-18-4","Tetrachloroethene","1.0","g/l","U","0.6","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","156-59-2","cis-1,2-Dichloroethene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","156-60-5","trans-1,2-Dichloroethene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","1634-04-4","Methyl tert-butyl ether","0.3","g/l","J","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","17060-07-0","1,2-Dichloroethane-d4","50.9","g/l","-99","NA","SUR","102","-99","NA","YES","50.0","5","5","-99",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","179601-23-1","m,p-Xylene","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","1868-53-7","Dibromofluoromethane","52.0","g/l","-99","NA","SUR","104","-99","NA","YES","50.0","5","5","-99",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","2037-26-5","Toluene-d8","51.6","g/l","-99","NA","SUR","103","-99","NA","YES","50.0","5","5","-99",  
"TF1-MW1002-082917","SW846 8260C","RES","SC38678-04","ESAI","3114-55-4","Chlorobenzene-

d5", "50.0", "g/l", "-99", "NA", "ISTD", "96", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "3855-82-1", "1,4-Dichlorobenzene-  
d4", "50.0", "g/l", "-99", "NA", "ISTD", "95", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "460-00-4", "4-  
Bromofluorobenzene", "50.8", "g/l", "-99", "NA", "SUR", "102", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "462-06-  
6", "Fluorobenzene", "50.0", "g/l", "-99", "NA", "ISTD", "99", "-99", "NA", "YES", "50.0", "5", "5", "-99",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "541-73-1", "1,3-  
Dichlorobenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "56-23-5", "Carbon  
tetrachloride", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "591-78-6", "2-Hexanone  
(MBK)", "2.0", "g/l", "U", "0.5", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "67-64-  
1", "Acetone", "2.0", "g/l", "U", "0.8", "MDL", "TARGET", "10.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "67-66-  
3", "Chloroform", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "71-43-  
2", "Benzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "71-55-6", "1,1,1-  
Trichloroethane", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "74-83-  
9", "Bromomethane", "2.0", "g/l", "U", "0.9", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "74-87-  
3", "Chloromethane", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "74-97-  
5", "Bromochloromethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "75-00-  
3", "Chloroethane", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "75-01-4", "Vinyl  
chloride", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "75-09-2", "Methylene  
chloride", "2.0", "g/l", "U", "0.7", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "75-15-0", "Carbon  
disulfide", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "75-25-  
2", "Bromoform", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "75-27-  
4", "Bromodichloromethane", "0.5", "g/l", "U", "0.4", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "75-34-3", "1,1-  
Dichloroethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "75-35-4", "1,1-  
Dichloroethene", "1.0", "g/l", "U", "0.7", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "75-69-4", "Trichlorofluoromethane  
(Freon 11)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "75-71-8", "Dichlorodifluoromethane  
(Freon12)", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "76-13-1", "1,1,2-  
Trichlorotrifluoroethane (Freon  
113)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "78-87-5", "1,2-  
Dichloropropane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "78-93-3", "2-Butanone  
(MEK)", "2.0", "g/l", "U", "1.1", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "79-00-5", "1,1,2-  
Trichloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "79-01-

6", "Trichloroethene", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "79-20-9", "Methyl  
acetate", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "5.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "79-34-5", "1,1,2,2-  
Tetrachloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "87-61-6", "1,2,3-  
Trichlorobenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "95-47-6", "o-  
Xylene", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "95-50-1", "1,2-  
Dichlorobenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "96-12-8", "1,2-Dibromo-3-  
chloropropane", "2.0", "g/l", "U", "0.9", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-MW1002-082917", "SW846 8260C", "RES", "SC38678-04", "ESAI", "98-82-  
8", "Isopropylbenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "1146-65-2", "Naphthalene-  
d8", "40.0", "g/ml", "-99", "NA", "ISTD", "144", "-99", "NA", "YES", "40.0", "940", "1", "-99",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "120-12-  
7", "Anthracene", "1.06", "g/l", "U", "0.647", "MDL", "TARGET", "5.32", "RDL", "YES", "-99", "940", "1", "1.06",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "129-00-  
0", "Pyrene", "1.06", "g/l", "U", "0.649", "MDL", "TARGET", "5.32", "RDL", "YES", "-99", "940", "1", "1.06",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "15067-26-2", "Acenaphthene-  
d10", "40.0", "g/ml", "-99", "NA", "ISTD", "157", "-99", "NA", "YES", "40.0", "940", "1", "-99",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "1517-22-2", "Phenanthrene-  
d10", "40.0", "g/ml", "-99", "NA", "ISTD", "115", "-99", "NA", "YES", "40.0", "940", "1", "-99",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "1520-96-3", "Perylene-  
d12", "40.0", "g/ml", "-99", "NA", "ISTD", "103", "-99", "NA", "YES", "40.0", "940", "1", "-99",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "1718-51-0", "Terphenyl-  
d14", "34.4", "g/l", "-99", "NA", "SUR", "65", "-99", "NA", "YES", "53.2", "940", "1", "-99",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "1719-03-5", "Chrysene-  
d12", "40.0", "g/ml", "-99", "NA", "ISTD", "113", "-99", "NA", "YES", "40.0", "940", "1", "-99",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "191-24-2", "Benzo (g,h,i)  
perylene", "1.06", "g/l", "U", "0.564", "MDL", "TARGET", "5.32", "RDL", "YES", "-99", "940", "1", "1.06",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "193-39-5", "Indeno (1,2,3-cd)  
pyrene", "1.06", "g/l", "U", "0.617", "MDL", "TARGET", "5.32", "RDL", "YES", "-99", "940", "1", "1.06",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "205-99-2", "Benzo (b)  
fluoranthene", "1.06", "g/l", "U", "0.465", "MDL", "TARGET", "5.32", "RDL", "YES", "-99", "940", "1", "1.06",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "206-44-  
0", "Fluoranthene", "1.06", "g/l", "U", "0.679", "MDL", "TARGET", "5.32", "RDL", "YES", "-99", "940", "1", "1.06",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "207-08-9", "Benzo (k)  
fluoranthene", "1.06", "g/l", "U", "0.511", "MDL", "TARGET", "5.32", "RDL", "YES", "-99", "940", "1", "1.06",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "208-96-  
8", "Acenaphthylene", "1.06", "g/l", "U", "0.727", "MDL", "TARGET", "5.32", "RDL", "YES", "-99", "940", "1", "1.06",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "218-01-  
9", "Chrysene", "1.06", "g/l", "U", "0.566", "MDL", "TARGET", "5.32", "RDL", "YES", "-99", "940", "1", "1.06",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "321-60-8", "2-  
Fluorobiphenyl", "25.2", "g/l", "-99", "NA", "SUR", "47", "-99", "NA", "YES", "53.2", "940", "1", "-99",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "4165-60-0", "Nitrobenzene-  
d5", "28.5", "g/l", "-99", "NA", "SUR", "54", "-99", "NA", "YES", "53.2", "940", "1", "-99",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "50-32-8", "Benzo (a)  
pyrene", "1.06", "g/l", "U", "0.598", "MDL", "TARGET", "5.32", "RDL", "YES", "-99", "940", "1", "1.06",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "53-70-3", "Dibenzo (a,h)  
anthracene", "1.06", "g/l", "U", "0.479", "MDL", "TARGET", "5.32", "RDL", "YES", "-99", "940", "1", "1.06",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "56-55-3", "Benzo (a)  
anthracene", "1.06", "g/l", "U", "0.570", "MDL", "TARGET", "5.32", "RDL", "YES", "-99", "940", "1", "1.06",  
"TF1-MW1002-082917", "SW846 8270D", "RES", "SC38678-04", "ESAI", "83-32-

9,"Acenaphthene","1.06","g/l","U","0.735","MDL","TARGET","5.32","RDL","YES","-99","940","1","1.06",  
"TF1-MW1002-082917","SW846 8270D","RES","SC38678-04","ESAI","85-01-  
8","Phenanthrene","1.06","g/l","U","0.623","MDL","TARGET","5.32","RDL","YES","-99","940","1","1.06",  
"TF1-MW1002-082917","SW846 8270D","RES","SC38678-04","ESAI","86-73-  
7","Fluorene","1.06","g/l","U","0.651","MDL","TARGET","5.32","RDL","YES","-99","940","1","1.06",  
"TF1-MW1002-082917","SW846 8270D","RES","SC38678-04","ESAI","90-12-0","1-  
Methylnaphthalene","1.06","g/l","U","0.780","MDL","TARGET","5.32","RDL","YES","-99","940","1","1.06",  
/,"TF1-MW1002-082917","SW846 8270D","RES","SC38678-04","ESAI","91-20-  
3","Naphthalene","1.06","g/l","U","0.729","MDL","TARGET","5.32","RDL","YES","-99","940","1","1.06",  
"TF1-MW1002-082917","SW846 8270D","RES","SC38678-04","ESAI","91-57-6","2-  
Methylnaphthalene","1.06","g/l","U","0.611","MDL","TARGET","5.32","RDL","YES","-99","940","1","1.06",  
/,"TF1-MW1006-082917","EPA 200/6000 methods","RES","SC38678-  
03","ESAI","NA","Preservation","0","N/A","-99","NA","TARGET","-99","NA","YES","-99","1","1","-99","Field  
Preserved; pH<2 confirmed"  
"TF1-MW1006-082917","EPA 245.1/7470A","RES","SC38678-03","ESAI","7439-97-  
6","Mercury","0.00020","mg/l","U","0.00013","MDL","TARGET","0.00020","RDL","YES","-99","20","20","0.0  
0020",  
"TF1-MW1006-082917","EPA 300.0","RES","SC38678-03","ESAI","14797-55-8","Nitrate as  
N","0.349","mg/l","0.009","MDL","TARGET","0.100","RDL","YES","-99","5","5","0.100",  
"TF1-MW1006-082917","EPA 300.0","RES","SC38678-03","ESAI","14808-79-8","Sulfate as  
SO4","35.9","mg/l","0.307","MDL","TARGET","1.00","RDL","YES","-99","5","5","1.00",  
"TF1-MW1006-082917","EPA 300.0","RES","SC38678-03","ESAI","16887-00-  
6","Chloride","16.7","mg/l","0.0897","MDL","TARGET","1.00","RDL","YES","-99","5","5","0.100",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","1763-23-1","Perfluoro-  
octanesulfonate","5","ng/l","Ja","2","MDL","TARGET","6","RDL","YES","-99","-99",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","1763-23-1L","13C8-  
PFOS","43","ng/l","-99","NA","SUR","89","-99","NA","YES","48","-99",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","2058-94-8","Perfluoroundecanoic  
acid","0","ng/l","1","MDL","TARGET","3","RDL","YES","-99","-99","<"  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","2058-94-8L","13C7-  
PFUnDA","45","ng/l","-99","NA","SUR","90","-99","NA","YES","50","-99",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","2706-90-3","Perfluoropentanoic  
Acid","4","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","2706-90-3L","13C5-  
PFPeA","54","ng/l","-99","NA","SUR","108","-99","NA","YES","50","-99",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","307-24-4","Perfluorohexanoic  
acid","4","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","307-24-4L","13C5-  
PFHxA","46","ng/l","-99","NA","SUR","92","-99","NA","YES","50","-99",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","307-55-1","Perfluorododecanoic  
acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","307-55-1L","13C2-  
PFDoDA","36","ng/l","-99","NA","SUR","72","-99","NA","YES","50","-99",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","335-67-1","Perfluorooctanoic  
acid","3","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","335-67-1L","13C8-  
PFOA","48","ng/l","-99","NA","SUR","95","-99","NA","YES","50","-99",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","335-76-2","Perfluorodecanoic  
acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","335-76-2L","13C6-  
PFDA","46","ng/l","-99","NA","SUR","92","-99","NA","YES","50","-99",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","335-77-  
3","Perfluorodecanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<"  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","355-46-  
4","Perfluorohexanesulfonate","2","ng/l","Ja","1","MDL","TARGET","3","RDL","YES","-99","-99",



"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","355-46-4L","13C3-PFHxS","45","ng/l","-99","NA","SUR","94","-99","NA","YES","47","-99",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","375-22-4","Perfluorobutanoic Acid","0","ng/l","3","MDL","TARGET","10","RDL","YES","-99","-99","<"  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","375-22-4L","13C4-PFBA","46","ng/l","-99","NA","SUR","91","-99","NA","YES","50","-99",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","375-73-5","Perfluorobutanesulfonate","0.8","ng/l","Ja","0.8","MDL","TARGET","3","RDL","YES","-99","-99",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","375-73-5L","13C3-PFBS","48","ng/l","-99","NA","SUR","103","-99","NA","YES","47","-99",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","375-85-9","Perfluoroheptanoic acid","2","ng/l","Ja","0.5","MDL","TARGET","2","RDL","YES","-99","-99",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","375-85-9L","13C4-PFHpA","49","ng/l","-99","NA","SUR","97","-99","NA","YES","50","-99",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","375-92-8","Perfluoroheptanesulfonate","0","ng/l","2","MDL","TARGET","6","RDL","YES","-99","-99","<"  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","375-95-1","Perfluorononanoic acid","0","ng/l","0.6","MDL","TARGET","2","RDL","YES","-99","-99","<"  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","375-95-1L","13C9-PFNA","44","ng/l","-99","NA","SUR","87","-99","NA","YES","50","-99",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","376-06-7","Perfluorotetradecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","376-06-7L","13C2-PFTeDA","37","ng/l","-99","NA","SUR","74","-99","NA","YES","50","-99",  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","72629-94-8","Perfluorotridecanoic acid","0","ng/l","0.5","MDL","TARGET","2","RDL","YES","-99","-99","<"  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","754-91-6","PFOSA","0","ng/l","3","MDL","TARGET","9","RDL","YES","-99","-99","<"  
"TF1-MW1006-082917","EPA 537 Modified","RES","SC38678-03","ESAI","754-91-6L","13C8-PFOA","20","ng/l","-99","NA","SUR","40","-99","NA","YES","50","-99",  
"TF1-MW1006-082917","Mod EPA 3C/SOP RSK-175","RES","SC38678-03","ESAI","74-82-8","Methane","2.20","g/l","U","2.16","MDL","TARGET","2.20","RDL","YES","-99","10","10","2.20",  
"TF1-MW1006-082917","Mod EPA 3C/SOP RSK-175","RES","SC38678-03","ESAI","74-84-0","Ethane","5.00","g/l","U","3.48","MDL","TARGET","5.00","RDL","YES","-99","10","10","5.00",  
"TF1-MW1006-082917","SM18-22 5210B","RES","SC38678-03","ESAI","NA","Biochemical Oxygen Demand (5-day)","2.97","mg/l","BOD4, U","2.74","MDL","TARGET","3.00","RDL","YES","-99","300","300","2.97",  
"TF1-MW1006-082917","SM2320B (97, 11)","RES","SC38678-03","ESAI","NA","Total Alkalinity","73.7","mg/l CaCO3","1.05","MDL","TARGET","4.00","RDL","YES","-99","50","50","3.00",  
"TF1-MW1006-082917","SM5310B (00, 11)","RES","SC38678-03","ESAI","NA","Total Organic Carbon","1.46","mg/l","0.238","MDL","TARGET","1.00","RDL","YES","-99","40","40","0.500",  
"TF1-MW1006-082917","SW- 846 6020A","RES","SC38678-03","ESAI","7439-98-7","Molybdenum","0.0103","mg/l","0.00025","MDL","TARGET","0.0010","RDL","YES","-99","-99",  
"TF1-MW1006-082917","SW-846 6020A","RES","SC38678-03","ESAI","7440-39-3","Barium","0.0185","mg/l","0.00072","MDL","TARGET","0.0040","RDL","YES","-99","-99",  
"TF1-MW1006-082917","SW846 6010C","RES","SC38678-03","ESAI","7429-90-5","Aluminum","0.146","mg/l","0.0206","MDL","TARGET","0.0500","RDL","YES","-99","50","50","0.0500",  
"TF1-MW1006-082917","SW846 6010C","RES","SC38678-03","ESAI","7439-89-6","Iron","0.154","mg/l","0.0089","MDL","TARGET","0.0300","RDL","YES","-99","50","50","0.0300",  
"TF1-MW1006-082917","SW846 6010C","RES","SC38678-03","ESAI","7439-95-4","Magnesium","3.77","mg/l","0.0088","MDL","TARGET","0.0200","RDL","YES","-99","50","50","0.0100",  
"TF1-MW1006-082917","SW846 6010C","RES","SC38678-03","ESAI","7440-09-7","Potassium","6.96","mg/l","0.120","MDL","TARGET","1.00","RDL","YES","-99","50","50","0.250",  
"TF1-MW1006-082917","SW846 6010C","RES","SC38678-03","ESAI","7440-23-5","Sodium","25.8","mg/l","0.0785","MDL","TARGET","0.500","RDL","YES","-99","50","50","0.250",  
"TF1-MW1006-082917","SW846 6010C","RES","SC38678-03","ESAI","7440-70-2","Calcium","23.9","mg/l","0.0142","MDL","TARGET","0.200","RDL","YES","-99","50","50","0.0500",  
"TF1-MW1006-082917","SW-846 6020 A","RES","SC38678-03","ESAI","7782-49-

2", "Selenium", "0.0016", "mg/l", "Ja", "0.00050", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99",  
"TF1-MW1006-082917", "SW-846 6020A", "RES", "SC38678-03", "ESAI", "7439-92-  
1", "Lead", "0.00012", "mg/l", "Ja", "0.00011", "MDL", "TARGET", "0.0020", "RDL", "YES", "-99", "-99",  
"TF1-MW1006-082917", "SW-846 6020A", "RES", "SC38678-03", "ESAI", "7439-96-  
5", "Manganese", "0.0058", "mg/l", "0.00090", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99",  
"TF1-MW1006-082917", "SW-846 6020A", "RES", "SC38678-03", "ESAI", "7440-02-  
0", "Nickel", "0", "mg/l", "0.0010", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99", "<"  
"TF1-MW1006-082917", "SW-846 6020A", "RES", "SC38678-03", "ESAI", "7440-22-  
4", "Silver", "0", "mg/l", "0.00015", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99", "<"  
"TF1-MW1006-082917", "SW-846 6020A", "RES", "SC38678-03", "ESAI", "7440-28-  
0", "Thallium", "0", "mg/l", "0.00012", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99", "<"  
"TF1-MW1006-082917", "SW-846 6020A", "RES", "SC38678-03", "ESAI", "7440-36-  
0", "Antimony", "0.0058", "mg/l", "0.00045", "MDL", "TARGET", "0.0020", "RDL", "YES", "-99", "-99",  
"TF1-MW1006-082917", "SW-846 6020A", "RES", "SC38678-03", "ESAI", "7440-38-  
2", "Arsenic", "0.0098", "mg/l", "0.00072", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99",  
"TF1-MW1006-082917", "SW-846 6020A", "RES", "SC38678-03", "ESAI", "7440-41-  
7", "Beryllium", "0", "mg/l", "0.000071", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99", "<"  
"TF1-MW1006-082917", "SW-846 6020A", "RES", "SC38678-03", "ESAI", "7440-43-  
9", "Cadmium", "0", "mg/l", "0.00015", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99", "<"  
"TF1-MW1006-082917", "SW-846 6020A", "RES", "SC38678-03", "ESAI", "7440-47-  
3", "Chromium", "0.0740", "mg/l", "0.00087", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99",  
"TF1-MW1006-082917", "SW-846 6020A", "RES", "SC38678-03", "ESAI", "7440-48-  
4", "Cobalt", "0.00018", "mg/l", "Ja", "0.00016", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99",  
"TF1-MW1006-082917", "SW-846 6020A", "RES", "SC38678-03", "ESAI", "7440-50-  
8", "Copper", "0.00068", "mg/l", "Ja", "0.00054", "MDL", "TARGET", "0.0040", "RDL", "YES", "-99", "-99",  
"TF1-MW1006-082917", "SW-846 6020A", "RES", "SC38678-03", "ESAI", "7440-62-  
2", "Vanadium", "0.0130", "mg/l", "0.00021", "MDL", "TARGET", "0.0010", "RDL", "YES", "-99", "-99",  
"TF1-MW1006-082917", "SW-846 6020A", "RES", "SC38678-03", "ESAI", "7440-66-  
6", "Zinc", "0", "mg/l", "0.0039", "MDL", "TARGET", "0.0300", "RDL", "YES", "-99", "-99", "<"  
"TF1-MW1006-082917", "SW-846 8015B", "RES", "SC38678-03", "ESAI", "108-90-  
7", "Chlorobenzene", "0.011", "mg/l", "-99", "NA", "SUR", "88", "-99", "NA", "YES", "0.012", "-99",  
"TF1-MW1006-082917", "SW-846 8015B", "RES", "SC38678-03", "ESAI", "84-15-  
1", "Orthoterphenyl", "0.012", "mg/l", "-99", "NA", "SUR", "94", "-99", "NA", "YES", "0.012", "-99",  
"TF1-MW1006-082917", "SW-846 8015B", "RES", "SC38678-03", "ESAI", "PHCC8C44", "C8-  
C44", "0", "mg/l", "0.051", "MDL", "TARGET", "0.20", "RDL", "YES", "-99", "-99", "<"  
"TF1-MW1006-082917", "SW-846 8015B", "RES", "SC38678-03", "ESAI", "PHCE", "Total  
TPH", "0", "mg/l", "0.051", "MDL", "TARGET", "0.20", "RDL", "YES", "-99", "-99", "<"  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "1024-57-3", "Heptachlor  
epoxide", "0.021", "g/l", "U", "0.016", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "960", "10", "0.021",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "1031-07-8", "Endosulfan  
sulfate", "0.021", "g/l", "U", "0.021", "MDL", "TARGET", "0.042", "RDL", "YES", "-99", "960", "10", "0.021",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "10386-84-2", "4,4-DB-  
Octafluorobiphenyl  
(Sr)", "0.279", "g/l", "-99", "NA", "SUR", "134", "-99", "NA", "YES", "0.208", "960", "10", "-99",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "15972-60-  
8", "Alachlor", "0.021", "g/l", "U", "0.020", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "960", "10", "0.021",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "2051-24-3", "Decachlorobiphenyl  
(Sr)", "0.235", "g/l", "-99", "NA", "SUR", "113", "-99", "NA", "YES", "0.208", "960", "10", "-99",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "309-00-  
2", "Aldrin", "0.021", "g/l", "U", "0.016", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "960", "10", "0.021",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "319-84-6", "alpha-  
BHC", "0.021", "g/l", "U", "0.012", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "960", "10", "0.021",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "319-85-7", "beta-  
BHC", "0.021", "g/l", "U", "0.015", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "960", "10", "0.021",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "319-86-8", "delta-  
BHC", "0.021", "g/l", "U", "0.016", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "960", "10", "0.021",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "33213-65-9", "Endosulfan

II", "0.021", "g/l", "U", "0.021", "MDL", "TARGET", "0.042", "RDL", "YES", "-99", "960", "10", "0.021",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "50-29-3", "4,4'-DDT  
(p,p)", "0.031", "g/l", "U", "0.018", "MDL", "TARGET", "0.042", "RDL", "YES", "-99", "960", "10", "0.031",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "5103-71-9", "alpha-  
Chlordane", "0.021", "g/l", "U", "0.016", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "960", "10", "0.021",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "5103-74-2", "Chlordane (gamma)  
(trans)", "0.021", "g/l", "U", "0.017", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "960", "10", "0.021",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "53494-70-5", "Endrin  
ketone", "0.021", "g/l", "U", "0.018", "MDL", "TARGET", "0.042", "RDL", "YES", "-99", "960", "10", "0.021",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "57-74-  
9", "Chlordane", "0.068", "g/l", "U", "0.053", "MDL", "TARGET", "0.068", "RDL", "YES", "-99", "960", "10", "0.068",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "58-89-9", "gamma-BHC  
(Lindane)", "0.021", "g/l", "U", "0.018", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "960", "10", "0.021",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "60-57-  
1", "Dieldrin", "0.021", "g/l", "U", "0.018", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "960", "10", "0.021",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "72-20-  
8", "Endrin", "0.021", "g/l", "U", "0.020", "MDL", "TARGET", "0.042", "RDL", "YES", "-99", "960", "10", "0.021",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "72-43-  
5", "Methoxychlor", "0.021", "g/l", "U", "0.019", "MDL", "TARGET", "0.042", "RDL", "YES", "-99", "960", "10", "0.0  
21",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "72-54-8", "4,4'-DDD  
(p,p)", "0.021", "g/l", "U", "0.019", "MDL", "TARGET", "0.042", "RDL", "YES", "-99", "960", "10", "0.021",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "72-55-9", "4,4'-DDE  
(p,p)", "0.021", "g/l", "U", "0.019", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "960", "10", "0.021",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "7421-93-4", "Endrin  
aldehyde", "0.021", "g/l", "U", "0.020", "MDL", "TARGET", "0.042", "RDL", "YES", "-99", "960", "10", "0.021",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "76-44-  
8", "Heptachlor", "0.021", "g/l", "U", "0.020", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "960", "10", "0.021",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "8001-35-  
2", "Toxaphene", "0.521", "g/l", "U", "0.342", "MDL", "TARGET", "0.521", "RDL", "YES", "-99", "960", "10", "0.521",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "877-09-8", "2,4,5,6-TC-M-Xylene  
(IS)", "0.020", "g/ml", "-99", "NA", "ISTD", "101", "-99", "NA", "YES", "10.0", "960", "10", "-99",  
"TF1-MW1006-082917", "SW846 8081B", "RES", "SC38678-03", "ESAI", "959-98-8", "Endosulfan  
I", "0.021", "g/l", "U", "0.017", "MDL", "TARGET", "0.021", "RDL", "YES", "-99", "960", "10", "0.021",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "100-41-  
4", "Ethylbenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "100-42-  
5", "Styrene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "10061-01-5", "cis-1,3-  
Dichloropropene", "0.5", "g/l", "U", "0.4", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "10061-02-6", "trans-1,3-  
Dichloropropene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "106-46-7", "1,4-  
Dichlorobenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "106-93-4", "1,2-Dibromoethane  
(EDB)", "0.5", "g/l", "U", "0.2", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "107-06-2", "1,2-  
Dichloroethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "108-10-1", "4-Methyl-2-pentanone  
(MIBK)", "2.0", "g/l", "U", "0.5", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "108-87-  
2", "Methylcyclohexane", "2.0", "g/l", "U", "0.7", "MDL", "TARGET", "5.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "108-88-  
3", "Toluene", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",

"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","108-90-7","Chlorobenzene","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","110-82-7","Cyclohexane","2.0","g/l","U","0.8","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","120-82-1","1,2,4-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","124-48-1","Dibromochloromethane","1.2","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","127-18-4","Tetrachloroethene","1.0","g/l","U","0.6","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","156-59-2","cis-1,2-Dichloroethene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","156-60-5","trans-1,2-Dichloroethene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","1634-04-4","Methyl tert-butyl ether","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","17060-07-0","1,2-Dichloroethane-d4","50.1","g/l","-99","NA","SUR","100","-99","NA","YES","50.0","5","5","-99",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","179601-23-1","m,p-Xylene","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","1868-53-7","Dibromofluoromethane","50.5","g/l","-99","NA","SUR","101","-99","NA","YES","50.0","5","5","-99",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","2037-26-5","Toluene-d8","52.5","g/l","-99","NA","SUR","105","-99","NA","YES","50.0","5","5","-99",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","3114-55-4","Chlorobenzene-d5","50.0","g/l","-99","NA","ISTD","96","-99","NA","YES","50.0","5","5","-99",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","g/l","-99","NA","ISTD","96","-99","NA","YES","50.0","5","5","-99",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","460-00-4","4-Bromofluorobenzene","50.6","g/l","-99","NA","SUR","101","-99","NA","YES","50.0","5","5","-99",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","462-06-6","Fluorobenzene","50.0","g/l","-99","NA","ISTD","97","-99","NA","YES","50.0","5","5","-99",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","541-73-1","1,3-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","56-23-5","Carbon tetrachloride","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","591-78-6","2-Hexanone (MBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","67-64-1","Acetone","2.0","g/l","U","0.8","MDL","TARGET","10.0","RDL","YES","-99","5","5","2.0",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","67-66-3","Chloroform","4.4","g/l","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","71-43-2","Benzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","71-55-6","1,1,1-Trichloroethane","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","74-83-9","Bromomethane","2.0","g/l","U","0.9","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","74-87-3","Chloromethane","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","74-97-5","Bromochloromethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","75-00-3","Chloroethane","2.0","g/l","U","0.6","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","75-01-4","Vinyl chloride","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-MW1006-082917","SW846 8260C","RES","SC38678-03","ESAI","75-09-2","Methylene

chloride", "2.0", "g/l", "U", "0.7", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "75-15-0", "Carbon  
disulfide", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "75-25-  
2", "Bromoform", "0.4", "g/l", "J", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "75-27-  
4", "Bromodichloromethane", "1.2", "g/l", "U", "0.4", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "75-34-3", "1,1-  
Dichloroethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "75-35-4", "1,1-  
Dichloroethene", "1.0", "g/l", "U", "0.7", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "75-69-4", "Trichlorofluoromethane  
(Freon 11)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "75-71-8", "Dichlorodifluoromethane  
(Freon12)", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "76-13-1", "1,1,2-  
Trichlorotrifluoroethane (Freon  
113)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "78-87-5", "1,2-  
Dichloropropane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "78-93-3", "2-Butanone  
(MEK)", "2.0", "g/l", "U", "1.1", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "79-00-5", "1,1,2-  
Trichloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "79-01-  
6", "Trichloroethene", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "79-20-9", "Methyl  
acetate", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "5.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "79-34-5", "1,1,2,2-  
Tetrachloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "87-61-6", "1,2,3-  
Trichlorobenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "95-47-6", "o-  
Xylene", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "95-50-1", "1,2-  
Dichlorobenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "96-12-8", "1,2-Dibromo-3-  
chloropropane", "2.0", "g/l", "U", "0.9", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-MW1006-082917", "SW846 8260C", "RES", "SC38678-03", "ESAI", "98-82-  
8", "Isopropylbenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-MW1006-082917", "SW846 8270D", "RES", "SC38678-03", "ESAI", "1146-65-2", "Naphthalene-  
d8", "40.0", "g/ml", "-99", "NA", "ISTD", "152", "-99", "NA", "YES", "40.0", "1040", "1", "-99",  
"TF1-MW1006-082917", "SW846 8270D", "RES", "SC38678-03", "ESAI", "120-12-  
7", "Anthracene", "0.962", "g/l", "U", "0.585", "MDL", "TARGET", "4.81", "RDL", "YES", "-99", "1040", "1", "0.962",  
"TF1-MW1006-082917", "SW846 8270D", "RES", "SC38678-03", "ESAI", "129-00-  
0", "Pyrene", "0.962", "g/l", "U", "0.587", "MDL", "TARGET", "4.81", "RDL", "YES", "-99", "1040", "1", "0.962",  
"TF1-MW1006-082917", "SW846 8270D", "RES", "SC38678-03", "ESAI", "15067-26-2", "Acenaphthene-  
d10", "40.0", "g/ml", "-99", "NA", "ISTD", "151", "-99", "NA", "YES", "40.0", "1040", "1", "-99",  
"TF1-MW1006-082917", "SW846 8270D", "RES", "SC38678-03", "ESAI", "1517-22-2", "Phenanthrene-  
d10", "40.0", "g/ml", "-99", "NA", "ISTD", "146", "-99", "NA", "YES", "40.0", "1040", "1", "-99",  
"TF1-MW1006-082917", "SW846 8270D", "RES", "SC38678-03", "ESAI", "1520-96-3", "Perylene-  
d12", "40.0", "g/ml", "-99", "NA", "ISTD", "102", "-99", "NA", "YES", "40.0", "1040", "1", "-99",  
"TF1-MW1006-082917", "SW846 8270D", "RES", "SC38678-03", "ESAI", "1718-51-0", "Terphenyl-  
d14", "36.1", "g/l", "-99", "NA", "SUR", "75", "-99", "NA", "YES", "48.1", "1040", "1", "-99",  
"TF1-MW1006-082917", "SW846 8270D", "RES", "SC38678-03", "ESAI", "1719-03-5", "Chrysene-  
d12", "40.0", "g/ml", "-99", "NA", "ISTD", "129", "-99", "NA", "YES", "40.0", "1040", "1", "-99",

"TF1-MW1006-082917","SW846 8270D","RES","SC38678-03","ESAI","191-24-2","Benzo (g,h,i) perylene","0.962","g/l","U","0.510","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-MW1006-082917","SW846 8270D","RES","SC38678-03","ESAI","193-39-5","Indeno (1,2,3-cd) pyrene","0.962","g/l","U","0.558","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-MW1006-082917","SW846 8270D","RES","SC38678-03","ESAI","205-99-2","Benzo (b) fluoranthene","0.962","g/l","U","0.420","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-MW1006-082917","SW846 8270D","RES","SC38678-03","ESAI","206-44-0","Fluoranthene","0.962","g/l","U","0.613","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-MW1006-082917","SW846 8270D","RES","SC38678-03","ESAI","207-08-9","Benzo (k) fluoranthene","0.962","g/l","U","0.462","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-MW1006-082917","SW846 8270D","RES","SC38678-03","ESAI","208-96-8","Acenaphthylene","0.962","g/l","U","0.657","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-MW1006-082917","SW846 8270D","RES","SC38678-03","ESAI","218-01-9","Chrysene","0.962","g/l","U","0.512","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-MW1006-082917","SW846 8270D","RES","SC38678-03","ESAI","321-60-8","2-Fluorobiphenyl","22.9","g/l","-99","NA","SUR","48","-99","NA","YES","48.1","1040","1","-99",  
"TF1-MW1006-082917","SW846 8270D","RES","SC38678-03","ESAI","4165-60-0","Nitrobenzene-d5","23.9","g/l","-99","NA","SUR","50","-99","NA","YES","48.1","1040","1","-99",  
"TF1-MW1006-082917","SW846 8270D","RES","SC38678-03","ESAI","50-32-8","Benzo (a) pyrene","0.962","g/l","U","0.540","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-MW1006-082917","SW846 8270D","RES","SC38678-03","ESAI","53-70-3","Dibenzo (a,h) anthracene","0.962","g/l","U","0.433","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-MW1006-082917","SW846 8270D","RES","SC38678-03","ESAI","56-55-3","Benzo (a) anthracene","0.962","g/l","U","0.515","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-MW1006-082917","SW846 8270D","RES","SC38678-03","ESAI","83-32-9","Acenaphthene","0.962","g/l","U","0.664","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-MW1006-082917","SW846 8270D","RES","SC38678-03","ESAI","85-01-8","Phenanthrene","0.962","g/l","U","0.563","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-MW1006-082917","SW846 8270D","RES","SC38678-03","ESAI","86-73-7","Fluorene","0.962","g/l","U","0.588","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-MW1006-082917","SW846 8270D","RES","SC38678-03","ESAI","90-12-0","1-Methylnaphthalene","0.962","g/l","U","0.705","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-MW1006-082917","SW846 8270D","RES","SC38678-03","ESAI","91-20-3","Naphthalene","0.962","g/l","U","0.659","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-MW1006-082917","SW846 8270D","RES","SC38678-03","ESAI","91-57-6","2-Methylnaphthalene","0.962","g/l","U","0.552","MDL","TARGET","4.81","RDL","YES","-99","1040","1","0.962",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","100-41-4","Ethylbenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","100-42-5","Styrene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","10061-01-5","cis-1,3-Dichloropropene","0.5","g/l","U","0.4","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","10061-02-6","trans-1,3-Dichloropropene","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","106-46-7","1,4-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","106-93-4","1,2-Dibromoethane (EDB)","0.5","g/l","U","0.2","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","107-06-2","1,2-Dichloroethane","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",

"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","108-87-2","Methylcyclohexane","2.0","g/l","U","0.7","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","108-88-3","Toluene","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","108-90-7","Chlorobenzene","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","110-82-7","Cyclohexane","2.0","g/l","U","0.8","MDL","TARGET","5.0","RDL","YES","-99","5","5","2.0",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","120-82-1","1,2,4-Trichlorobenzene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","124-48-1","Dibromochloromethane","0.5","g/l","U","0.3","MDL","TARGET","0.5","RDL","YES","-99","5","5","0.5",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","127-18-4","Tetrachloroethene","1.0","g/l","U","0.6","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","156-59-2","cis-1,2-Dichloroethene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","156-60-5","trans-1,2-Dichloroethene","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","1634-04-4","Methyl tert-butyl ether","0.5","g/l","U","0.2","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","17060-07-0","1,2-Dichloroethane-d4","50.3","g/l","-99","NA","SUR","101","-99","NA","YES","50.0","5","5","-99",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","179601-23-1","m,p-Xylene","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","1868-53-7","Dibromofluoromethane","50.2","g/l","-99","NA","SUR","100","-99","NA","YES","50.0","5","5","-99",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","2037-26-5","Toluene-d8","50.9","g/l","-99","NA","SUR","102","-99","NA","YES","50.0","5","5","-99",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","3114-55-4","Chlorobenzene-d5","50.0","g/l","-99","NA","ISTD","94","-99","NA","YES","50.0","5","5","-99",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","g/l","-99","NA","ISTD","93","-99","NA","YES","50.0","5","5","-99",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","460-00-4","4-Bromofluorobenzene","50.8","g/l","-99","NA","SUR","102","-99","NA","YES","50.0","5","5","-99",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","462-06-6","Fluorobenzene","50.0","g/l","-99","NA","ISTD","98","-99","NA","YES","50.0","5","5","-99",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","541-73-1","1,3-Dichlorobenzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","56-23-5","Carbon tetrachloride","1.0","g/l","U","0.4","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","591-78-6","2-Hexanone (MBK)","2.0","g/l","U","0.5","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","67-64-1","Acetone","2.0","g/l","U","0.8","MDL","TARGET","10.0","RDL","YES","-99","5","5","2.0",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","67-66-3","Chloroform","1.0","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","71-43-2","Benzene","0.5","g/l","U","0.3","MDL","TARGET","1.0","RDL","YES","-99","5","5","0.5",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","71-55-6","1,1,1-Trichloroethane","1.0","g/l","U","0.5","MDL","TARGET","1.0","RDL","YES","-99","5","5","1.0",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","74-83-9","Bromomethane","2.0","g/l","U","0.9","MDL","TARGET","2.0","RDL","YES","-99","5","5","2.0",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","74-87-3","Chloromethane","1.0","g/l","U","0.4","MDL","TARGET","2.0","RDL","YES","-99","5","5","1.0",  
"TF1-TB-082917","SW846 8260C","RES","SC38678-07","ESAI","74-97-

5", "Bromochloromethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "75-00-  
3", "Chloroethane", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "75-01-4", "Vinyl  
chloride", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "75-09-2", "Methylene  
chloride", "2.0", "g/l", "U", "0.7", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "75-15-0", "Carbon  
disulfide", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "75-25-  
2", "Bromoform", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "75-27-  
4", "Bromodichloromethane", "0.5", "g/l", "U", "0.4", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "75-34-3", "1,1-  
Dichloroethane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "75-35-4", "1,1-  
Dichloroethene", "1.0", "g/l", "U", "0.7", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "75-69-4", "Trichlorofluoromethane (Freon  
11)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "75-71-8", "Dichlorodifluoromethane  
(Freon12)", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "76-13-1", "1,1,2-Trichlorotrifluoroethane  
(Freon 113)", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "78-87-5", "1,2-  
Dichloropropane", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "78-93-3", "2-Butanone  
(MEK)", "2.0", "g/l", "U", "1.1", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "79-00-5", "1,1,2-  
Trichloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "79-01-  
6", "Trichloroethene", "1.0", "g/l", "U", "0.5", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "79-20-9", "Methyl  
acetate", "2.0", "g/l", "U", "0.6", "MDL", "TARGET", "5.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "79-34-5", "1,1,2,2-  
Tetrachloroethane", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "0.5", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "87-61-6", "1,2,3-  
Trichlorobenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "95-47-6", "o-  
Xylene", "1.0", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "95-50-1", "1,2-  
Dichlorobenzene", "0.5", "g/l", "U", "0.3", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "0.5",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "96-12-8", "1,2-Dibromo-3-  
chloropropane", "2.0", "g/l", "U", "0.9", "MDL", "TARGET", "2.0", "RDL", "YES", "-99", "5", "5", "2.0",  
"TF1-TB-082917", "SW846 8260C", "RES", "SC38678-07", "ESAI", "98-82-  
8", "Isopropylbenzene", "1.0", "g/l", "U", "0.4", "MDL", "TARGET", "1.0", "RDL", "YES", "-99", "5", "5", "1.0",  
"112608005-WE15", "WE15 Tank Farm 1 NAVSTA Newport", "1714902-BLK1", "Aqueous", "1714902-  
BLK1", "Method Bla", "-99", "EPA 300.0", "Gen Prep", "RES", "08/30/2017 13:45", "08/31/2017  
15:04", "ESAI", "COA", "NA", "T", "1", "NA", "100", "1714902", "1714902", "1714902", "1714902", "SC38678", "08/3  
0/2017 17:50", "10/16/2017 11:12",  
"112608005-WE15", "WE15 Tank Farm 1 NAVSTA Newport", "1714902-BS1", "Aqueous", "1714902-  
BS1", "LCS", "-99", "EPA 300.0", "Gen Prep", "RES", "08/30/2017 13:45", "08/31/2017  
14:48", "ESAI", "COA", "NA", "T", "1", "NA", "100", "1714902", "1714902", "1714902", "1714902", "SC38678", "08/3  
0/2017 17:50", "10/16/2017 11:12",  
"112608005-WE15", "WE15 Tank Farm 1 NAVSTA Newport", "1714902-SRM1", "Aqueous", "1714902-  
SRM1", "Reference", "-99", "EPA 300.0", "Gen Prep", "RES", "08/30/2017 13:45", "08/31/2017  
08:45", "ESAI", "COA", "NA", "T", "1", "NA", "100", "1714902", "1714902", "1714902", "1714902", "SC38678", "08/3  
0/2017 17:50", "10/16/2017 11:12",



"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1714942-BLK1","Aqueous","1714942-BLK1","Method Bla",-99,"SM2320B (97, 11)","Gen Prep","RES","08/31/2017 09:56","08/31/2017 19:01","ESAI","COA","NA","T","1","NA",,"100","1714942","1714942","1714942","1714942","SC38678","08/30/2017 17:50","10/16/2017 11:12",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1714942-BLK2","Aqueous","1714942-BLK2","Method Bla",-99,"SM2320B (97, 11)","Gen Prep","RES","08/31/2017 09:56","08/31/2017 19:58","ESAI","COA","NA","T","1","NA",,"100","1714942","1714942","1714942","1714942","SC38678","08/30/2017 17:50","10/16/2017 11:12",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1714942-BLK3","Aqueous","1714942-BLK3","Method Bla",-99,"SM2320B (97, 11)","Gen Prep","RES","08/31/2017 09:56","08/31/2017 20:38","ESAI","COA","NA","T","1","NA",,"100","1714942","1714942","1714942","1714942","SC38678","08/30/2017 17:50","10/16/2017 11:12",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1714942-BLK4","Aqueous","1714942-BLK4","Method Bla",-99,"SM2320B (97, 11)","Gen Prep","RES","08/31/2017 09:56","08/31/2017 21:07","ESAI","COA","NA","T","1","NA",,"100","1714942","1714942","1714942","1714942","SC38678","08/30/2017 17:50","10/16/2017 11:12",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1714942-BS1","Aqueous","1714942-BS1","LCS",-99,"SM2320B (97, 11)","Gen Prep","RES","08/31/2017 09:56","08/31/2017 19:03","ESAI","COA","NA","T","1","NA",,"100","1714942","1714942","1714942","1714942","SC38678","08/30/2017 17:50","10/16/2017 11:12",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1714942-BS2","Aqueous","1714942-BS2","LCS",-99,"SM2320B (97, 11)","Gen Prep","RES","08/31/2017 09:56","08/31/2017 20:00","ESAI","COA","NA","T","1","NA",,"100","1714942","1714942","1714942","1714942","SC38678","08/30/2017 17:50","10/16/2017 11:12",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1714942-BS3","Aqueous","1714942-BS3","LCS",-99,"SM2320B (97, 11)","Gen Prep","RES","08/31/2017 09:56","08/31/2017 20:40","ESAI","COA","NA","T","1","NA",,"100","1714942","1714942","1714942","1714942","SC38678","08/30/2017 17:50","10/16/2017 11:12",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1714942-BS4","Aqueous","1714942-BS4","LCS",-99,"SM2320B (97, 11)","Gen Prep","RES","08/31/2017 09:56","08/31/2017 21:08","ESAI","COA","NA","T","1","NA",,"100","1714942","1714942","1714942","1714942","SC38678","08/30/2017 17:50","10/16/2017 11:12",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1714942-SRM1","Aqueous","1714942-SRM1","Reference",-99,"SM2320B (97, 11)","Gen Prep","RES","08/31/2017 09:56","08/31/2017 19:08","ESAI","COA","NA","T","1","NA",,"100","1714942","1714942","1714942","1714942","SC38678","08/30/2017 17:50","10/16/2017 11:12",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1714966-BLK1","Aqueous","1714966-BLK1","Method Bla",-99,"SM18-22 5210B","Gen Prep","RES","08/31/2017 13:00","09/06/2017 12:58","ESAI","COA","NA","T","1","NA",,"100","1714966","1714966","1714966","1714966","SC38678","08/30/2017 17:50","10/16/2017 11:12",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1714966-BLK2","Aqueous","1714966-BLK2","Method Bla",-99,"SM18-22 5210B","Gen Prep","RES","08/31/2017 13:00","09/06/2017 12:58","ESAI","COA","NA","T","1","NA",,"100","1714966","1714966","1714966","1714966","SC38678","08/30/2017 17:50","10/16/2017 11:12",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1714966-BS1","Aqueous","1714966-BS1","LCS",-99,"SM18-22 5210B","Gen Prep","RES","08/31/2017 13:00","09/06/2017 12:58","ESAI","COA","NA","T","1","NA",,"100","1714966","1714966","1714966","1714966","SC38678","08/30/2017 17:50","10/16/2017 11:12",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1714966-SRM1","Aqueous","1714966-SRM1","Reference",-99,"SM18-22 5210B","Gen Prep","RES","08/31/2017 13:00","09/06/2017 12:58","ESAI","COA","NA","T","1","NA",,"100","1714966","1714966","1714966","1714966","SC38678","08/30/2017 17:50","10/16/2017 11:12",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1714966-SRM2","Aqueous","1714966-SRM2","Reference",-99,"SM18-22 5210B","Gen Prep","RES","08/31/2017 13:00","09/06/2017 12:58","ESAI","COA","NA","T","1","NA",,"100","1714966","1714966","1714966","1714966","SC38678","08/30/2017 17:50","10/16/2017 11:12",

"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1714974-BLK1","Aqueous","1714974-

BLK1","Method Bla", "-99","EPA 300.0","Gen Prep","RES","08/31/2017 14:00","08/31/2017 15:04","ESAI","COA","NA","T","1","NA",,"100","1714974","1714974","1714974","1714974","SC38678","08/30/2017 17:50","10/16/2017 11:12",  
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1714974-BS1",,"Aqueous","1714974-BS1","LCS", "-99","EPA 300.0","Gen Prep","RES","08/31/2017 14:00","08/31/2017 15:20","ESAI","COA","NA","T","1","NA",,"100","1714974","1714974","1714974","1714974","SC38678","08/30/2017 17:50","10/16/2017 11:12",  
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1714974-SRM1",,"Aqueous","1714974-SRM1","Reference", "-99","EPA 300.0","Gen Prep","RES","08/31/2017 14:00","08/31/2017 15:36","ESAI","COA","NA","T","1","NA",,"100","1714974","1714974","1714974","1714974","SC38678","08/30/2017 17:50","10/16/2017 11:12",  
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715009-BLK1",,"Aqueous","1715009-BLK1","Method Bla", "-99","SW846 8270D","SW846 3510C","RES","09/01/2017 08:00","09/13/2017 16:12","ESAI","COA","NA","NA","1","NA",,"100","1715009","1715009","1715009","1715009","SC38678","08/30/2017 17:50","10/16/2017 11:12",  
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715009-BS1",,"Aqueous","1715009-BS1","LCS", "-99","SW846 8270D","SW846 3510C","RES","09/01/2017 08:00","09/13/2017 17:09","ESAI","COA","NA","NA","1","NA",,"100","1715009","1715009","1715009","1715009","SC38678","08/30/2017 17:50","10/16/2017 11:12",  
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715009-BSD1",,"Aqueous","1715009-BSD1","LCS Dup", "-99","SW846 8270D","SW846 3510C","RES","09/01/2017 08:00","09/13/2017 17:37","ESAI","COA","NA","NA","1","NA",,"100","1715009","1715009","1715009","1715009","SC38678","08/30/2017 17:50","10/16/2017 11:12",  
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715010-BLK1",,"Aqueous","1715010-BLK1","Method Bla", "-99","SW846 8081B","SW846 3510C","RES","09/01/2017 08:00","09/07/2017 23:04","ESAI","COA","NA","NA","1","NA",,"100","1715010","1715010","1715010","1715010","SC38678","08/30/2017 17:50","10/16/2017 11:12",  
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715010-BS1",,"Aqueous","1715010-BS1","LCS", "-99","SW846 8081B","SW846 3510C","RES","09/01/2017 08:00","09/07/2017 23:21","ESAI","COA","NA","NA","1","NA",,"100","1715010","1715010","1715010","1715010","SC38678","08/30/2017 17:50","10/16/2017 11:12",  
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715010-BSD1",,"Aqueous","1715010-BSD1","LCS Dup", "-99","SW846 8081B","SW846 3510C","RES","09/01/2017 08:00","09/07/2017 23:39","ESAI","COA","NA","NA","1","NA",,"100","1715010","1715010","1715010","1715010","SC38678","08/30/2017 17:50","10/16/2017 11:12",  
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715035-BLK1",,"Aqueous","1715035-BLK1","Method Bla", "-99","SM2320B (97, 11)","Gen Prep","RES","09/01/2017 10:30","09/01/2017 14:18","ESAI","COA","NA","T","1","NA",,"100","1715035","1715035","1715035","1715035","SC38678","08/30/2017 17:50","10/16/2017 11:12",  
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715035-BLK2",,"Aqueous","1715035-BLK2","Method Bla", "-99","SM2320B (97, 11)","Gen Prep","RES","09/01/2017 10:30","09/01/2017 15:23","ESAI","COA","NA","T","1","NA",,"100","1715035","1715035","1715035","1715035","SC38678","08/30/2017 17:50","10/16/2017 11:12",  
"112608005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715035-BLK3",,"Aqueous","1715035-BLK3","Method Bla", "-99","SM2320B (97, 11)","Gen Prep","RES","09/01/2017 10:30","09/01/2017 16:15","ESAI","COA","NA","T","1","NA",,"100","1715035","1715035","1715035","1715035","SC38678","08/30/2017 17:50","10/16/2017 11:12",  
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30/2017 17:50", "10/16/2017 11:12",



**TETRA TECH**

**INTERNAL CORRESPONDENCE**

**TO:** S. PARKER **DATE:** DECEMBER 18, 2017  
**FROM:** MICHELLE L. WOEBER **COPIES:** DV FILE  
**SUBJECT:** ORGANIC & INORGANIC DATA VALIDATION – VOC/PAH/OVG/PCB/PEST/EPH/PFAS/  
METALS/ MISCELLANEOUS  
NAVAL STATION (NAVSTA) NEWPORT, PORTSMOUTH, RHODE ISLAND  
TANK FARM 1 - SITE 7  
SAMPLE DELIVERY GROUP (SDG) SC38678

**SAMPLES:** 7/Aqueous/VOC

TF1-DUP-01-082917	TF1-EBP-MW1000-082917	TF1-EBP-MW1001-082917
TF1-GT-109-082917	TF1-MW1002-082917	TF1-MW1006-082917
TF1-TB-082917		

6/Aqueous/PAH/OVG/TPH/PEST/PFAS/Metals/Miscellaneous

TF1-DUP-01-082917	TF1-EBP-MW1000-082917	TF1-EBP-MW1001-082917
TF1-GT-109-082917	TF1-MW1002-082917	TF1-MW1006-082917

1/Aqueous/PCB

TF1-GT-109-082917

1/Aqueous/PFAS

TF1-FRB-082917

Overview

The sample set for NAVSTA Newport, SDG SC38678 consisted of six (6) aqueous environmental samples, one (1) Field Reagent Blank, and one (1) trip blank. All six (6) aqueous environmental samples were analyzed for Volatile Organic Compounds (VOC), Polynuclear Aromatic Hydrocarbons (PAH), Organic Volatile Gases (OVG), Pesticides (PEST), Extractable Petroleum Hydrocarbons (EPH), polyfluoroalkyl substances (PFAS), Target Analyte List (TAL) metals, and miscellaneous parameters (alkalinity, Biochemical Oxygen Demand (BOD), Total Organic Carbon (TOC), chloride, sulfate as SO<sub>4</sub>, and nitrate as N). One (1) sample was analyzed for Polychlorinated Biphenyls (PCB). The FRB was analyzed for PFAS only and the trip blank was analyzed for VOC only. One field duplicate sample pair was included in this SDG: TF1-DUP-01-082917/TF1-MW1002-082917.

The samples were collected by Tetra Tech, Inc. on August 29, 2017 and analyzed by Test America. All analyses were conducted in accordance with EPA Methods SW846 8260C, 8270D, 8082A, 8081B, 8015B, 6010C, 6020A, 7470A, EPA 245.1/7470A, Modified EPA 3C/SOP RSK-175, EPA Method 300, EPA 537 Modified, SM18-22 5210B, SM2320B (97,11), and SM2310B (00,11) analytical and reporting protocols.



An EPA level 2A validation was performed. The data was evaluated with regard to the following parameters:

- \*
  - Data Completeness
  - Holding Times/Sample Preservation
  - Laboratory Method/Preparation, Trip, and FRB Blank Results
  - Surrogate Spike Recoveries
- \*
  - Internal Standard Recoveries/Areas
  - Laboratory Control Sample/Laboratory Control Sample Duplicate Results
- \*
  - Matrix Spike/Matrix Spike Duplicate Results
- \*
  - Laboratory Duplicate Precision
- \*
  - Field Duplicate Precision
- \*
  - ICP Serial Dilution Results
- \*
  - Detection Limits

The asterisk (\*) indicates that all quality control criteria were met for this parameter. Qualified (if applicable) analytical results are summarized in Appendix A, results as reported by the laboratory are presented in Appendix B, and documentation supporting these findings is presented in Appendix C. The text of this report has been formulated to address only those areas affecting data quality.

#### **HOLDING TIMES**

The 7 day holding time from sample collection to extraction was exceeded for the re-extraction/reanalysis of sample TF1-EBP-MW1001-082917 in the PAH fraction. The laboratory only reported the reanalysis of this sample, therefore, the non-detected results reported for the PAH target compounds in this sample were qualified as estimated, (UJ).

#### **LABORATORY METHOD/PREPARATION BLANK RESULTS**

The following analytes were detected in the laboratory method/preparation blanks at the following maximum concentrations affecting all samples:

<u>Analyte</u>	<u>Maximum Concentration (mg/L)</u>	<u>Limit of Quantitation (LOQ) &gt; or &lt; (mg/L)</u>
Mercury	0.00013	< LOQ
Alkalinity	1.87	< LOQ
TOC	0.3281	< LOQ

The detected results reported below the LOQ in the affected samples were qualified as non-detected, (U).

#### **SURROGATE SPIKE RECOVERIES**

The Percent Recoveries (%Rs) for the PAH surrogate spike compound, 2-fluorobiphenyl, were below the lower quality control limit in samples TF1-EBP-MW1000-082917 and TF1-DUP-01-082917. The samples were not re-extracted/reanalyzed. The non-detected results reported for the target compounds in these samples were qualified as estimated, (UJ).

The %Rs for the PAH surrogate spike compounds, 2-fluorobiphenyl and nitrobenzene-d5, were below the lower quality control limit for the re-extraction/reanalysis of sample TF1-EBP-MW1001-082917. The initial analysis of this sample was not included in the data package. The non-detected results reported for the target compounds in this sample was qualified as estimated, (J).

### **LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS**

The PAH Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) analyses had LCS %Rs for anthracene, benzo(g,h,i)perylene, and phenanthrene below the lower quality control limits. Only the LCSD %R for phenanthrene was low. In addition, the Percent Relative Difference for benzo(k)fluoranthene exceeded the 20% quality control criterion. All samples were affected, with exception of sample TF1-EBP-MW1001-082917. No action was taken for anthracene, benzo(g,h,i)perylene, and benzo(k)fluoranthene because either the LCSD %R or the LCS/LCSD %Rs were acceptable. The non-detected results reported for phenanthrene were qualified as estimated, (UJ).

The TOC Standard Reference Material (SRM) %R was above the upper quality control limit. The LCS %R for TOC was acceptable. The detected results reported above the LOQ were qualified as estimated, (J).

### **NOTES**

Chloride was analyzed at a 5X dilution for sample TF1-GT-109-082917.

Detected results reported below the LOQ but above the Method Detection Limit (MDL) were qualified as estimated, (J). Non-detected results are reported to the Limit of Detection (LOD).

### **EXECUTIVE SUMMARY**

**Laboratory Performance:** Holding times were missed for one PAH sample. Analytes were detected in the metals and miscellaneous laboratory method/preparation blanks. Low surrogate %Rs were noted in the PAH fraction. The PAH LCS/LCSD had low %Rs. The TOC SRM %R was high.

**Other Factors Affecting Data Quality:** One sample was diluted for chloride. Results below the LOQ were estimated.

TO: S. PARKER  
SDG: SC38678

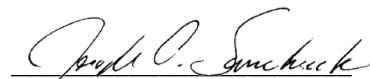
PAGE 4

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Organic Superfund Methods Data Review" (January 2017), the "National Functional Guidelines for Inorganic Superfund Methods Data Review" (January 2017), and the Department of Defense (DoD) document entitled, "Quality Systems Manual (QSM) for Environmental Laboratories" (July 2013). The text of this report has been formulated to address only those areas affecting data quality.



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Tetra Tech, Inc.  
Michelle L. Woeber  
Environmental Chemist



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Tetra Tech, Inc.  
Joseph A. Samchuck  
Data Validation Manager

Attachments:

Appendix A - Qualified Analytical Results  
Appendix B - Results as reported by the Laboratory  
Appendix C - Support Documentation

### Data Qualifier Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

<b>U</b>	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted method detection limit for sample and method.
<b>J</b>	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).
<b>J+</b>	The result is an estimated quantity, but the result may be biased high.
<b>J-</b>	The result is an estimated quantity, but the result may be biased low.
<b>UJ</b>	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
<b>R</b>	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
<b>UR</b>	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

**APPENDIX A**

**QUALIFIED ANALYTICAL RESULTS**

**Qualifier Codes:**

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's  $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ( $< 2 \times$  IDL for inorganics and  $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors  $>40\%$  for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient  $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids  $<30\%$
- Z = Uncertainty at 2 standard deviations is greater than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed
- Z3 = Tentatively Identified Compound aldol condensate
- Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
- Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: OV</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-DUP-01-082917			TF1-EBP-MW1000-082917			TF1-EBP-MW1001-082917			TF1-GT-109-082917		
	LAB_ID	SC38678-06			SC38678-02			SC38678-01			SC38678-05		
	SAMP_DATE	8/29/2017			8/29/2017			8/29/2017			8/29/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	TF1-MW1002-082917											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U		
1,1,2,2-TETRACHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U		1	U		1	U		1	U		
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U		
1,1-DICHLOROETHENE	1	U		1	U		1	U		1	U		
1,2,3-TRICHLOROBENZENE	1	U		1	U		1	U		1	U		
1,2,4-TRICHLOROBENZENE	1	U		1	U		1	U		1	U		
1,2-DIBROMO-3-CHLOROPROPANE	2	U		2	U		2	U		2	U		
1,2-DIBROMOETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U		
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U		
1,3-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,4-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
2-BUTANONE	2	U		2	U		2	U		2	U		
2-HEXANONE	2	U		2	U		2	U		2	U		
4-METHYL-2-PENTANONE	2	U		2	U		2	U		2	U		
ACETONE	2	U		2	U		2	U		2	U		
BENZENE	0.5	U		0.4	J	P	0.5	U		0.5	U		
BROMOCHLOROMETHANE	1	U		1	U		1	U		1	U		
BROMODICHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOFORM	1	U		1	U		1	U		1	U		
BROMOMETHANE	2	U		2	U		2	U		2	U		
CARBON DISULFIDE	1	U		1	U		1	U		1	U		
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U		
CHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLORODIBROMOMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROETHANE	2	U		2	U		2	U		2	U		
CHLOROFORM	1	U		1	U		1	U		1	U		
CHLOROMETHANE	1	U		1	U		1	U		1	U		
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
CIS-1,3-DICHLOROPROPENE	0.5	U		0.5	U		0.5	U		0.5	U		
CYCLOHEXANE	2	U		2	U		2	U		2	U		
DICHLORODIFLUOROMETHANE	2	U		2	U		2	U		2	U		

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: OV</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-MW1002-082917			TF1-MW1006-082917			TF1-TB-082917		
	LAB_ID	SC38678-04			SC38678-03			SC38678-07		
	SAMP_DATE	8/29/2017			8/29/2017			8/29/2017		
	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		
1,1,2,2-TETRACHLOROETHANE	0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U		1	U		1	U		
1,1-DICHLOROETHANE	1	U		1	U		1	U		
1,1-DICHLOROETHENE	1	U		1	U		1	U		
1,2,3-TRICHLOROBENZENE	1	U		1	U		1	U		
1,2,4-TRICHLOROBENZENE	1	U		1	U		1	U		
1,2-DIBROMO-3-CHLOROPROPANE	2	U		2	U		2	U		
1,2-DIBROMOETHANE	0.5	U		0.5	U		0.5	U		
1,2-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		
1,2-DICHLOROETHANE	1	U		1	U		1	U		
1,2-DICHLOROPROPANE	1	U		1	U		1	U		
1,3-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		
1,4-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		
2-BUTANONE	2	U		2	U		2	U		
2-HEXANONE	2	U		2	U		2	U		
4-METHYL-2-PENTANONE	2	U		2	U		2	U		
ACETONE	2	U		2	U		2	U		
BENZENE	0.5	U		0.5	U		0.5	U		
BROMOCHLOROMETHANE	1	U		1	U		1	U		
BROMODICHLOROMETHANE	0.5	U		1.2			0.5	U		
BROMOFORM	1	U		0.4	J	P	1	U		
BROMOMETHANE	2	U		2	U		2	U		
CARBON DISULFIDE	1	U		1	U		1	U		
CARBON TETRACHLORIDE	1	U		1	U		1	U		
CHLOROBENZENE	0.5	U		0.5	U		0.5	U		
CHLORODIBROMOMETHANE	0.5	U		1.2			0.5	U		
CHLOROETHANE	2	U		2	U		2	U		
CHLOROFORM	1	U		4.4			1	U		
CHLOROMETHANE	1	U		1	U		1	U		
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		
CIS-1,3-DICHLOROPROPENE	0.5	U		0.5	U		0.5	U		
CYCLOHEXANE	2	U		2	U		2	U		
DICHLORODIFLUOROMETHANE	2	U		2	U		2	U		



<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: OV</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-DUP-01-082917			TF1-EBP-MW1000-082917			TF1-EBP-MW1001-082917			TF1-GT-109-082917		
	LAB_ID	SC38678-06			SC38678-02			SC38678-01			SC38678-05		
	SAMP_DATE	8/29/2017			8/29/2017			8/29/2017			8/29/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	TF1-MW1002-082917											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
ETHYLBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
ISOPROPYLBENZENE	1	U		1	U		1	U		1	U		
M+P-XYLENES	1	U		1	U		1	U		1	U		
METHYL ACETATE	2	U		2	U		2	U		2	U		
METHYL CYCLOHEXANE	2	U		2	U		2	U		2	U		
METHYL TERT-BUTYL ETHER	0.2	J	P	0.5	U		0.3	J	P	0.5	U		
METHYLENE CHLORIDE	2	U		2	U		2	U		2	U		
O-XYLENE	1	U		1	U		1	U		1	U		
STYRENE	1	U		1	U		1	U		1	U		
TETRACHLOROETHENE	1	U		1	U		1	U		1	U		
TOLUENE	1	U		1	U		1	U		1	U		
TRANS-1,2-DICHLOROETHENE	1	U		1	U		1	U		1	U		
TRANS-1,3-DICHLOROPROPENE	0.5	U		0.5	U		0.5	U		0.5	U		
TRICHLOROETHENE	1	U		1	U		1	U		1	U		
TRICHLOROFUOROMETHANE	1	U		1	U		1	U		1	U		
VINYL CHLORIDE	1	U		1	U		1	U		1	U		

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: OV</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-MW1002-082917			TF1-MW1006-082917			TF1-TB-082917		
	LAB_ID	SC38678-04			SC38678-03			SC38678-07		
	SAMP_DATE	8/29/2017			8/29/2017			8/29/2017		
	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
ETHYLBENZENE	0.5	U		0.5	U		0.5	U		
ISOPROPYLBENZENE	1	U		1	U		1	U		
M+P-XYLENES	1	U		1	U		1	U		
METHYL ACETATE	2	U		2	U		2	U		
METHYL CYCLOHEXANE	2	U		2	U		2	U		
METHYL TERT-BUTYL ETHER	0.3	J	P	0.5	U		0.5	U		
METHYLENE CHLORIDE	2	U		2	U		2	U		
O-XYLENE	1	U		1	U		1	U		
STYRENE	1	U		1	U		1	U		
TETRACHLOROETHENE	1	U		1	U		1	U		
TOLUENE	1	U		1	U		1	U		
TRANS-1,2-DICHLOROETHENE	1	U		1	U		1	U		
TRANS-1,3-DICHLOROPROPENE	0.5	U		0.5	U		0.5	U		
TRICHLOROETHENE	1	U		1	U		1	U		
TRICHLOROFUOROMETHANE	1	U		1	U		1	U		
VINYL CHLORIDE	1	U		1	U		1	U		

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: PAH</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-DUP-01-082917			TF1-EBP-MW1000-082917			TF1-EBP-MW1001-082917			TF1-GT-109-082917		
	LAB_ID	SC38678-06			SC38678-02			SC38678-01RE1			SC38678-05		
	SAMP_DATE	8/29/2017			8/29/2017			8/29/2017			8/29/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	TF1-MW1002-082917											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
1-METHYLNAPHTHALENE	1.02	UJ	R	0.943	UJ	R	0.935	UJ	HR	1.05	U		
2-METHYLNAPHTHALENE	1.02	UJ	R	0.943	UJ	R	0.935	UJ	HR	1.05	U		
ACENAPHTHENE	1.02	UJ	R	0.943	UJ	R	0.935	UJ	HR	1.05	U		
ACENAPHTHYLENE	1.02	UJ	R	0.943	UJ	R	0.935	UJ	HR	1.05	U		
ANTHRACENE	1.02	UJ	R	0.943	UJ	R	0.935	UJ	HR	1.05	U		
BENZO(A)ANTHRACENE	1.02	UJ	R	0.943	UJ	R	0.935	UJ	HR	1.05	U		
BENZO(A)PYRENE	1.02	UJ	R	0.943	UJ	R	0.935	UJ	HR	1.05	U		
BENZO(B)FLUORANTHENE	1.02	UJ	R	0.943	UJ	R	0.935	UJ	HR	1.05	U		
BENZO(G,H,I)PERYLENE	1.02	UJ	R	0.943	UJ	R	0.935	UJ	HR	1.05	U		
BENZO(K)FLUORANTHENE	1.02	UJ	R	0.943	UJ	R	0.935	UJ	HR	1.05	U		
CHRYSENE	1.02	UJ	R	0.943	UJ	R	0.935	UJ	HR	1.05	U		
DIBENZO(A,H)ANTHRACENE	1.02	UJ	R	0.943	UJ	R	0.935	UJ	HR	1.05	U		
FLUORANTHENE	1.02	UJ	R	0.943	UJ	R	0.935	UJ	HR	1.05	U		
FLUORENE	1.02	UJ	R	0.943	UJ	R	0.935	UJ	HR	1.05	U		
INDENO(1,2,3-CD)PYRENE	1.02	UJ	R	0.943	UJ	R	0.935	UJ	HR	1.05	U		
NAPHTHALENE	1.02	UJ	R	0.943	UJ	R	0.935	UJ	HR	1.05	U		
PHENANTHRENE	1.02	UJ	ER	0.943	UJ	ER	0.935	UJ	HR	1.05	UJ	E	
PYRENE	1.02	UJ	R	0.943	UJ	R	0.935	UJ	HR	1.05	U		

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: PAH</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-MW1002-082917			TF1-MW1006-082917		
	LAB_ID	SC38678-04			SC38678-03		
	SAMP_DATE	8/29/2017			8/29/2017		
	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
1-METHYLNAPHTHALENE	1.06	U		0.962	U		
2-METHYLNAPHTHALENE	1.06	U		0.962	U		
ACENAPHTHENE	1.06	U		0.962	U		
ACENAPHTHYLENE	1.06	U		0.962	U		
ANTHRACENE	1.06	U		0.962	U		
BENZO(A)ANTHRACENE	1.06	U		0.962	U		
BENZO(A)PYRENE	1.06	U		0.962	U		
BENZO(B)FLUORANTHENE	1.06	U		0.962	U		
BENZO(G,H,I)PERYLENE	1.06	U		0.962	U		
BENZO(K)FLUORANTHENE	1.06	U		0.962	U		
CHRYSENE	1.06	U		0.962	U		
DIBENZO(A,H)ANTHRACENE	1.06	U		0.962	U		
FLUORANTHENE	1.06	U		0.962	U		
FLUORENE	1.06	U		0.962	U		
INDENO(1,2,3-CD)PYRENE	1.06	U		0.962	U		
NAPHTHALENE	1.06	U		0.962	U		
PHENANTHRENE	1.06	UJ	E	0.962	UJ	E	
PYRENE	1.06	U		0.962	U		

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: OVG</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-DUP-01-082917			TF1-EBP-MW1000-082917			TF1-EBP-MW1001-082917			TF1-GT-109-082917		
	LAB_ID	SC38678-06			SC38678-02			SC38678-01			SC38678-05		
	SAMP_DATE	8/29/2017			8/29/2017			8/29/2017			8/29/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	TF1-MW1002-082917											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
ETHANE	5	U		5	U		5	U		5	U		
METHANE	2.2	U		2.2	U		2.2	U		2.2	U		

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: OVG</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-MW1002-082917			TF1-MW1006-082917		
	LAB_ID	SC38678-04			SC38678-03		
	SAMP_DATE	8/29/2017			8/29/2017		
	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
ETHANE	5	U		5	U		
METHANE	2.2	U		2.2	U		

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: PEST</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-DUP-01-082917			TF1-EBP-MW1000-082917			TF1-EBP-MW1001-082917			TF1-GT-109-082917		
	LAB_ID	SC38678-06			SC38678-02			SC38678-01			SC38678-05		
	SAMP_DATE	8/29/2017			8/29/2017			8/29/2017			8/29/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	TF1-MW1002-082917											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
4,4'-DDD	0.021	U		0.019	U		0.019	U		0.021	U		
4,4'-DDE	0.021	U		0.019	U		0.019	U		0.021	U		
4,4'-DDT	0.032	U		0.028	U		0.028	U		0.032	U		
ALACHLOR	0.021	U		0.019	U		0.019	U		0.021	U		
ALDRIN	0.021	U		0.019	U		0.019	U		0.021	U		
ALPHA-BHC	0.021	U		0.019	U		0.019	U		0.021	U		
ALPHA-CHLORDANE	0.021	U		0.019	U		0.019	U		0.021	U		
BETA-BHC	0.021	U		0.019	U		0.019	U		0.021	U		
CHLORDANE	0.069	U		0.061	U		0.061	U		0.068	U		
DELTA-BHC	0.021	U		0.019	U		0.019	U		0.021	U		
DIELDRIN	0.021	U		0.019	U		0.019	U		0.021	U		
ENDOSULFAN I	0.021	U		0.019	U		0.019	U		0.021	U		
ENDOSULFAN II	0.021	U		0.019	U		0.019	U		0.021	U		
ENDOSULFAN SULFATE	0.021	U		0.019	U		0.019	U		0.021	U		
ENDRIN	0.021	U		0.019	U		0.019	U		0.021	U		
ENDRIN ALDEHYDE	0.021	U		0.019	U		0.019	U		0.021	U		
ENDRIN KETONE	0.021	U		0.019	U		0.019	U		0.021	U		
GAMMA-BHC (LINDANE)	0.021	U		0.019	U		0.019	U		0.021	U		
GAMMA-CHLORDANE	0.021	U		0.019	U		0.019	U		0.021	U		
HEPTACHLOR	0.021	U		0.019	U		0.019	U		0.021	U		
HEPTACHLOR EPOXIDE	0.021	U		0.019	U		0.019	U		0.021	U		
METHOXYCHLOR	0.021	U		0.019	U		0.019	U		0.021	U		
TOXAPHENE	0.532	U		0.467	U		0.472	U		0.526	U		

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: PEST</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-MW1002-082917			TF1-MW1006-082917		
	LAB_ID	SC38678-04			SC38678-03		
	SAMP_DATE	8/29/2017			8/29/2017		
	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
4,4'-DDD	0.021	U		0.021	U		
4,4'-DDE	0.021	U		0.021	U		
4,4'-DDT	0.032	U		0.031	U		
ALACHLOR	0.021	U		0.021	U		
ALDRIN	0.021	U		0.021	U		
ALPHA-BHC	0.021	U		0.021	U		
ALPHA-CHLORDANE	0.021	U		0.021	U		
BETA-BHC	0.021	U		0.021	U		
CHLORDANE	0.068	U		0.068	U		
DELTA-BHC	0.021	U		0.021	U		
DIELDRIN	0.021	U		0.021	U		
ENDOSULFAN I	0.021	U		0.021	U		
ENDOSULFAN II	0.021	U		0.021	U		
ENDOSULFAN SULFATE	0.021	U		0.021	U		
ENDRIN	0.021	U		0.021	U		
ENDRIN ALDEHYDE	0.021	U		0.021	U		
ENDRIN KETONE	0.021	U		0.021	U		
GAMMA-BHC (LINDANE)	0.021	U		0.021	U		
GAMMA-CHLORDANE	0.021	U		0.021	U		
HEPTACHLOR	0.021	U		0.021	U		
HEPTACHLOR EPOXIDE	0.021	U		0.021	U		
METHOXYCHLOR	0.021	U		0.021	U		
TOXAPHENE	0.526	U		0.521	U		



<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: PCB</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-GT-109-082917		
	LAB_ID	SC38678-05		
	SAMP_DATE	8/29/2017		
	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER	RESULT	VQL	QLCD	
AROCLOR-1016	0.211	U		
AROCLOR-1221	0.211	U		
AROCLOR-1232	0.211	U		
AROCLOR-1242	0.211	U		
AROCLOR-1248	0.211	U		
AROCLOR-1254	0.211	U		
AROCLOR-1260	0.211	U		
AROCLOR-1262	0.211	U		
AROCLOR-1268	0.211	U		

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: PET</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-DUP-01-082917			TF1-EBP-MW1000-082917			TF1-EBP-MW1001-082917			TF1-GT-109-082917		
	LAB_ID	SC38678-06			SC38678-02			SC38678-01			SC38678-05		
	SAMP_DATE	8/29/2017			8/29/2017			8/29/2017			8/29/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	TF1-MW1002-082917											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
TPH (C08-C44)	0.11	U		0.088	J	P	0.21			0.14	J	P	

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: PET</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-MW1002-082917			TF1-MW1006-082917		
	LAB_ID	SC38678-04			SC38678-03		
	SAMP_DATE	8/29/2017			8/29/2017		
	QC_TYPE	NM			NM		
	UNITS	MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
TPH (C08-C44)	0.072	J	P	0.1	U		

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: PFAS</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-DUP-01-082917			TF1-EBP-MW1000-082917			TF1-EBP-MW1001-082917			TF1-FRB-082917		
	LAB_ID	SC38678-06			SC38678-02			SC38678-01			SC38678-08		
	SAMP_DATE	8/29/2017			8/29/2017			8/29/2017			8/29/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	TF1-MW1002-082917											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
PENTADECAFLUOROOCCTANOIC ACID	43			140			160			2	U		
PERFLUOROBUTANE SULFONATE	16			53			60			3	U		
PERFLUOROBUTANOIC ACID	25			84			110			10	U		
PERFLUORODECANE SULFONATE	6	U		6	U		6	U		6	U		
PERFLUORODECANOIC ACID	2	U		2	J	P	0.7	J	P	2	U		
PERFLUORODODECANOIC ACID	2	U		2	U		2	U		2	U		
PERFLUOROHEPTANESULFONIC ACID	6	U		6	U		4	J	P	6	U		
PERFLUOROHEPTANOIC ACID	15			80			110			2	U		
PERFLUOROHEXANE SULFONATE	97			53			230			3	U		
PERFLUOROHEXANOIC ACID	76			290			350			2	U		
PERFLUORONONANOIC ACID	2	U		2	U		2	U		2	U		
PERFLUOROOCTANE SULFONAMIDE	9	U		9	U		9	U		9	U		
PERFLUOROOCTANE SULFONIC ACID	8			6	U		170			6	U		
PERFLUOROPENTANOIC ACID	61			290			400			2	U		
PERFLUOROTETRADECANOIC ACID	2	U		2	U		2	U		2	U		
PERFLUOROTRIDECANOIC ACID	2	U		2	U		2	U		2	U		
PERFLUOROUNDECANOIC ACID	3	U		3	U		3	U		3	U		

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: PFAS</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-GT-109-082917			TF1-MW1002-082917			TF1-MW1006-082917		
	LAB_ID	SC38678-05			SC38678-04			SC38678-03		
	SAMP_DATE	8/29/2017			8/29/2017			8/29/2017		
	QC_TYPE	NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
PENTADECAFLUOROOCCTANOIC ACID	40			46			3			
PERFLUOROBUTANE SULFONATE	10			17			0.8 J		P	
PERFLUOROBUTANOIC ACID	14			24			10 U			
PERFLUORODECANE SULFONATE	6 U			6 U			6 U			
PERFLUORODECANOIC ACID	3			2 U			2 U			
PERFLUORODODECANOIC ACID	2 U			2 U			2 U			
PERFLUOROHEPTANESULFONIC ACID	6 U			6 U			6 U			
PERFLUOROHEPTANOIC ACID	15			14			2 J		P	
PERFLUOROHEXANE SULFONATE	120			100			2 J		P	
PERFLUOROHEXANOIC ACID	38			84			4			
PERFLUORONONANOIC ACID	5			2 U			2 U			
PERFLUOROOCTANE SULFONAMIDE	9 U			9 U			9 U			
PERFLUOROOCTANE SULFONIC ACID	100			9			5 J		P	
PERFLUOROPENTANOIC ACID	31			62			4			
PERFLUOROTETRADECANOIC ACID	2 U			2 U			2 U			
PERFLUOROTRIDECANOIC ACID	2 U			2 U			2 U			
PERFLUOROUNDECANOIC ACID	3 U			3 U			3 U			

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: M</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-DUP-01-082917						TF1-EBP-MW1000-082917					
	LAB_ID	SC38678-06						SC38678-02					
	SAMP_DATE	8/29/2017						8/29/2017					
	QC_TYPE	NM						NM					
	UNITS	MG/L						MG/L					
	PCT_SOLIDS	0.0			199.0			0.0			199.0		
	DUP_OF	TF1-MW1002-082917			TF1-MW1002-082917								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
ALUMINUM	0.05	U					0.05	U					
ANTIMONY				0.001	U					0.001	U		
ARSENIC				0.0022	J	P				0.002	U		
BARIUM				0.0109						0.0041			
BERYLLIUM				0.00012	J	P				0.00015	J	P	
CADMIUM				0.0005	U					0.0005	U		
CALCIUM	8.65						4.62						
CHROMIUM				0.002	U					0.002	U		
COBALT				0.0279						0.002			
COPPER				0.001	U					0.001	U		
IRON	17.9						13.9						
LEAD				0.00025	U					0.00079	J	P	
MAGNESIUM	7.58						3.9						
MANGANESE				1.93						0.65			
MERCURY	0.0002	U					0.0002	U					
MOLYBDENUM				0.0005	U					0.0005	U		
NICKEL				0.0457						0.0024	J	P	
POTASSIUM	1.5						0.402	J	P				
SELENIUM				0.001	U					0.001	U		
SILVER				0.00025	U					0.00025	U		
SODIUM	22.5						14.9						
THALLIUM				0.00025	U					0.00025	U		
VANADIUM				0.0005	U					0.0005	U		
ZINC				0.0864						0.0075	U		

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: M</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-EBP-MW1001-082917						TF1-GT-109-082917					
	LAB_ID	SC38678-01						SC38678-05					
	SAMP_DATE	8/29/2017						8/29/2017					
	QC_TYPE	NM						NM					
	UNITS	MG/L						MG/L					
	PCT_SOLIDS	0.0			199.0			0.0			199.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
ALUMINUM	0.184						0.043	J	P				
ANTIMONY				0.001	U					0.001	U		
ARSENIC				0.002	U					0.0036	J	P	
BARIUM				0.0057						0.0099			
BERYLLIUM				0.00012	J	P				0.00025	U		
CADMIUM				0.0005	U					0.0005	U		
CALCIUM	11						17.6						
CHROMIUM				0.0013	J	P				0.002	U		
COBALT				0.105						0.0134			
COPPER				0.0114						0.001	U		
IRON	7.57						4.47						
LEAD				0.00025	J	P				0.00025	U		
MAGNESIUM	5.38						8.34						
MANGANESE				1.68						1.23			
MERCURY	0.0002	U					0.0002	U					
MOLYBDENUM				0.0005	U					0.00034	J	P	
NICKEL				0.0559						0.0107			
POTASSIUM	0.873	J	P				3.58						
SELENIUM				0.001	U					0.001	U		
SILVER				0.00025	U					0.00025	U		
SODIUM	22.8						64.2						
THALLIUM				0.00025	U					0.00025	U		
VANADIUM				0.0005	U					0.0005	U		
ZINC				0.0663						0.0071	J	P	

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: M</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-MW1002-082917						TF1-MW1006-082917					
	LAB_ID	SC38678-04						SC38678-03					
	SAMP_DATE	8/29/2017						8/29/2017					
	QC_TYPE	NM						NM					
	UNITS	MG/L						MG/L					
	PCT_SOLIDS	0.0			199.0			0.0			199.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
ALUMINUM	0.05	U					0.146						
ANTIMONY				0.001	U					0.0058			
ARSENIC				0.0018	J	P				0.0098			
BARIUM				0.0116						0.0185			
BERYLLIUM				0.00012	J	P				0.00025	U		
CADMIUM				0.0005	U					0.0005	U		
CALCIUM	8.64						23.9						
CHROMIUM				0.002	U					0.074			
COBALT				0.0286						0.00018	J	P	
COPPER				0.001	U					0.00068	J	P	
IRON	17.8						0.154						
LEAD				0.00025	U					0.00012	J	P	
MAGNESIUM	7.61						3.77						
MANGANESE				2.04						0.0058			
MERCURY	0.0002	U					0.0002	U					
MOLYBDENUM				0.0005	U					0.0103			
NICKEL				0.047						0.002	U		
POTASSIUM	1.52						6.96						
SELENIUM				0.001	U					0.0016	J	P	
SILVER				0.00025	U					0.00025	U		
SODIUM	22.7						25.8						
THALLIUM				0.00025	U					0.00025	U		
VANADIUM				0.0005	U					0.013			
ZINC				0.0787						0.0075	U		



<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: MISC</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-DUP-01-082917			TF1-EBP-MW1000-082917			TF1-EBP-MW1001-082917			TF1-GT-109-082917		
	LAB_ID	SC38678-06			SC38678-02			SC38678-01			SC38678-05		
	SAMP_DATE	8/29/2017			8/29/2017			8/29/2017			8/29/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	TF1-MW1002-082917											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
ALKALINITY	61			33.9			12.6			74.8			
BIOCHEMICAL OXYGEN DEMAND	2.97	U		2.97	U		2.97	U		2.97	U		
CHLORIDE	40			27.3			39.7						
NITRATE-N	0.1	U		0.011	J	P	0.101			0.1	U		
SULFATE	17.4			14.9			34.3			5.43			
TOTAL ORGANIC CARBON	0.964	U	A	0.665	U	A	1.38	J	E	2.4	J	E	

<b>PROJ_NO: 08005-WE15</b> <b>SDG: SC38678</b> <b>FRACTION: MISC</b> <b>MEDIA: WATER</b>	NSAMPLE	TF1-GT-109-082917-DL			TF1-MW1002-082917			TF1-MW1006-082917		
	LAB_ID	SC38678-05			SC38678-04			SC38678-03		
	SAMP_DATE	8/29/2017			8/29/2017			8/29/2017		
	QC_TYPE	NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
ALKALINITY				60.5			73.7			
BIOCHEMICAL OXYGEN DEMAND				2.97 U			2.97 U			
CHLORIDE	108			40.3			16.7			
NITRATE-N				0.1 U			0.349			
SULFATE				17.4			35.9			
TOTAL ORGANIC CARBON				0.942 U	A		1.46 J	E		

**APPENDIX B**

**RESULTS AS REPORTED BY THE LABORATORY**

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-EBP-MW1001-082917

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-01</u>
Sampled: <u>08/29/17 10:44</u>	Prepared: <u>09/06/17 09:20</u>
% Solids:	Preparation: <u>SW846 5030 Water MS</u>
Batch: <u>1715197</u>	Sequence: <u>S707890</u>
	Calibration: <u>1709004</u>
	Instrument: <u>HPV3</u>
Reported to: <u>LOD</u>	

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1	1.0	U	0.5	1.0	1.0
67-64-1	Acetone	1	2.0	U	0.8	2.0	10.0
71-43-2	Benzene	1	0.5	U	0.3	0.5	1.0
74-97-5	Bromochloromethane	1	1.0	U	0.3	1.0	1.0
75-27-4	Bromodichloromethane	1	0.5	U	0.4	0.5	0.5
75-25-2	Bromoform	1	1.0	U	0.4	1.0	1.0
74-83-9	Bromomethane	1	2.0	U	0.9	2.0	2.0
78-93-3	2-Butanone (MEK)	1	2.0	U	1.1	2.0	2.0
75-15-0	Carbon disulfide	1	1.0	U	0.4	1.0	2.0
56-23-5	Carbon tetrachloride	1	1.0	U	0.4	1.0	1.0
108-90-7	Chlorobenzene	1	0.5	U	0.2	0.5	1.0
75-00-3	Chloroethane	1	2.0	U	0.6	2.0	2.0
67-66-3	Chloroform	1	1.0	U	0.3	1.0	1.0
74-87-3	Chloromethane	1	1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	2.0	U	0.9	2.0	2.0
124-48-1	Dibromochloromethane	1	0.5	U	0.3	0.5	0.5
106-93-4	1,2-Dibromoethane (EDB)	1	0.5	U	0.2	0.5	0.5
95-50-1	1,2-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
541-73-1	1,3-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
106-46-7	1,4-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
75-71-8	Dichlorodifluoromethane (Freon12)	1	2.0	U	0.6	2.0	2.0
75-34-3	1,1-Dichloroethane	1	1.0	U	0.3	1.0	1.0
107-06-2	1,2-Dichloroethane	1	1.0	U	0.3	1.0	1.0
75-35-4	1,1-Dichloroethene	1	1.0	U	0.7	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	1	0.5	U	0.3	0.5	1.0
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	0.4	1.0	1.0
78-87-5	1,2-Dichloropropane	1	1.0	U	0.3	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1	0.5	U	0.4	0.5	0.5
10061-02-6	trans-1,3-Dichloropropene	1	0.5	U	0.3	0.5	0.5
100-41-4	Ethylbenzene	1	0.5	U	0.3	0.5	1.0
591-78-6	2-Hexanone (MBK)	1	2.0	U	0.5	2.0	2.0
98-82-8	Isopropylbenzene	1	1.0	U	0.4	1.0	1.0
1634-04-4	Methyl tert-butyl ether	1	0.3	J	0.2	0.5	1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	2.0	U	0.5	2.0	2.0
75-09-2	Methylene chloride	1	2.0	U	0.7	2.0	2.0
100-42-5	Styrene	1	1.0	U	0.4	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1	0.5	U	0.3	0.5	0.5
127-18-4	Tetrachloroethene	1	1.0	U	0.6	1.0	1.0
108-88-3	Toluene	1	1.0	U	0.3	1.0	1.0

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-EBP-MW1001-082917

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>		
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>		
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-01</u>	File ID: <u>3867801.D</u>	
Sampled: <u>08/29/17 10:44</u>	Prepared: <u>09/06/17 09:20</u>	Analyzed: <u>09/06/17 13:35</u>	
% Solids:	Preparation: <u>SW846 5030 Water MS</u>	Initial/Final: <u>5 ml / 5 ml</u>	
Batch: <u>1715197</u>	Sequence: <u>S707890</u>	Calibration: <u>1709004</u>	Instrument: <u>HPV3</u>
Reported to: <u>LOD</u>			

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
87-61-6	1,2,3-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
71-55-6	1,1,1-Trichloroethane	1	1.0	U	0.5	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1	0.5	U	0.3	0.5	1.0
79-01-6	Trichloroethene	1	1.0	U	0.5	1.0	1.0
75-69-4	Trichlorofluoromethane (Freon 11)	1	1.0	U	0.5	1.0	1.0
75-01-4	Vinyl chloride	1	1.0	U	0.5	1.0	1.0
179601-23-1	m,p-Xylene	1	1.0	U	0.4	1.0	2.0
95-47-6	o-Xylene	1	1.0	U	0.3	1.0	1.0
110-82-7	Cyclohexane	1	2.0	U	0.8	2.0	5.0
79-20-9	Methyl acetate	1	2.0	U	0.6	2.0	5.0
108-87-2	Methylcyclohexane	1	2.0	U	0.7	2.0	5.0

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-EBP-MW1000-082917

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-02</u>
Sampled: <u>08/29/17 14:52</u>	Prepared: <u>09/06/17 09:20</u>
% Solids:	Preparation: <u>SW846 5030 Water MS</u>
Batch: <u>1715197</u>	Sequence: <u>S707890</u>
	Calibration: <u>1709004</u>
	Instrument: <u>HPV3</u>
Reported to: <u>LOD</u>	

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1	1.0	U	0.5	1.0	1.0
67-64-1	Acetone	1	2.0	U	0.8	2.0	10.0
71-43-2	Benzene	1	0.4	J	0.3	0.5	1.0
74-97-5	Bromochloromethane	1	1.0	U	0.3	1.0	1.0
75-27-4	Bromodichloromethane	1	0.5	U	0.4	0.5	0.5
75-25-2	Bromoform	1	1.0	U	0.4	1.0	1.0
74-83-9	Bromomethane	1	2.0	U	0.9	2.0	2.0
78-93-3	2-Butanone (MEK)	1	2.0	U	1.1	2.0	2.0
75-15-0	Carbon disulfide	1	1.0	U	0.4	1.0	2.0
56-23-5	Carbon tetrachloride	1	1.0	U	0.4	1.0	1.0
108-90-7	Chlorobenzene	1	0.5	U	0.2	0.5	1.0
75-00-3	Chloroethane	1	2.0	U	0.6	2.0	2.0
67-66-3	Chloroform	1	1.0	U	0.3	1.0	1.0
74-87-3	Chloromethane	1	1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	2.0	U	0.9	2.0	2.0
124-48-1	Dibromochloromethane	1	0.5	U	0.3	0.5	0.5
106-93-4	1,2-Dibromoethane (EDB)	1	0.5	U	0.2	0.5	0.5
95-50-1	1,2-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
541-73-1	1,3-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
106-46-7	1,4-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
75-71-8	Dichlorodifluoromethane (Freon12)	1	2.0	U	0.6	2.0	2.0
75-34-3	1,1-Dichloroethane	1	1.0	U	0.3	1.0	1.0
107-06-2	1,2-Dichloroethane	1	1.0	U	0.3	1.0	1.0
75-35-4	1,1-Dichloroethene	1	1.0	U	0.7	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	1	0.5	U	0.3	0.5	1.0
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	0.4	1.0	1.0
78-87-5	1,2-Dichloropropane	1	1.0	U	0.3	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1	0.5	U	0.4	0.5	0.5
10061-02-6	trans-1,3-Dichloropropene	1	0.5	U	0.3	0.5	0.5
100-41-4	Ethylbenzene	1	0.5	U	0.3	0.5	1.0
591-78-6	2-Hexanone (MBK)	1	2.0	U	0.5	2.0	2.0
98-82-8	Isopropylbenzene	1	1.0	U	0.4	1.0	1.0
1634-04-4	Methyl tert-butyl ether	1	0.5	U	0.2	0.5	1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	2.0	U	0.5	2.0	2.0
75-09-2	Methylene chloride	1	2.0	U	0.7	2.0	2.0
100-42-5	Styrene	1	1.0	U	0.4	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1	0.5	U	0.3	0.5	0.5
127-18-4	Tetrachloroethene	1	1.0	U	0.6	1.0	1.0
108-88-3	Toluene	1	1.0	U	0.3	1.0	1.0

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-EBP-MW1000-082917

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>	
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>	
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>	
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-02</u>	File ID: <u>3867802.D</u>
Sampled: <u>08/29/17 14:52</u>	Prepared: <u>09/06/17 09:20</u>	Analyzed: <u>09/06/17 14:04</u>
% Solids:	Preparation: <u>SW846 5030 Water MS</u>	Initial/Final: <u>5 ml / 5 ml</u>
Batch: <u>1715197</u>	Sequence: <u>S707890</u>	Calibration: <u>1709004</u>
		Instrument: <u>HPV3</u>
Reported to: <u>LOD</u>		

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
87-61-6	1,2,3-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
71-55-6	1,1,1-Trichloroethane	1	1.0	U	0.5	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1	0.5	U	0.3	0.5	1.0
79-01-6	Trichloroethene	1	1.0	U	0.5	1.0	1.0
75-69-4	Trichlorofluoromethane (Freon 11)	1	1.0	U	0.5	1.0	1.0
75-01-4	Vinyl chloride	1	1.0	U	0.5	1.0	1.0
179601-23-1	m,p-Xylene	1	1.0	U	0.4	1.0	2.0
95-47-6	o-Xylene	1	1.0	U	0.3	1.0	1.0
110-82-7	Cyclohexane	1	2.0	U	0.8	2.0	5.0
79-20-9	Methyl acetate	1	2.0	U	0.6	2.0	5.0
108-87-2	Methylcyclohexane	1	2.0	U	0.7	2.0	5.0

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-MW1006-082917

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-03</u>
Sampled: <u>08/29/17 10:25</u>	Prepared: <u>09/06/17 09:20</u>
% Solids:	Preparation: <u>SW846 5030 Water MS</u>
Batch: <u>1715197</u>	Sequence: <u>S707890</u>
	Calibration: <u>1709004</u>
	Instrument: <u>HPV3</u>
Reported to: <u>LOD</u>	

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1	1.0	U	0.5	1.0	1.0
67-64-1	Acetone	1	2.0	U	0.8	2.0	10.0
71-43-2	Benzene	1	0.5	U	0.3	0.5	1.0
74-97-5	Bromochloromethane	1	1.0	U	0.3	1.0	1.0
75-27-4	Bromodichloromethane	1	1.2		0.4	0.5	0.5
75-25-2	Bromoform	1	0.4	J	0.4	1.0	1.0
74-83-9	Bromomethane	1	2.0	U	0.9	2.0	2.0
78-93-3	2-Butanone (MEK)	1	2.0	U	1.1	2.0	2.0
75-15-0	Carbon disulfide	1	1.0	U	0.4	1.0	2.0
56-23-5	Carbon tetrachloride	1	1.0	U	0.4	1.0	1.0
108-90-7	Chlorobenzene	1	0.5	U	0.2	0.5	1.0
75-00-3	Chloroethane	1	2.0	U	0.6	2.0	2.0
67-66-3	Chloroform	1	4.4		0.3	1.0	1.0
74-87-3	Chloromethane	1	1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	2.0	U	0.9	2.0	2.0
124-48-1	Dibromochloromethane	1	1.2		0.3	0.5	0.5
106-93-4	1,2-Dibromoethane (EDB)	1	0.5	U	0.2	0.5	0.5
95-50-1	1,2-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
541-73-1	1,3-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
106-46-7	1,4-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
75-71-8	Dichlorodifluoromethane (Freon12)	1	2.0	U	0.6	2.0	2.0
75-34-3	1,1-Dichloroethane	1	1.0	U	0.3	1.0	1.0
107-06-2	1,2-Dichloroethane	1	1.0	U	0.3	1.0	1.0
75-35-4	1,1-Dichloroethene	1	1.0	U	0.7	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	1	0.5	U	0.3	0.5	1.0
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	0.4	1.0	1.0
78-87-5	1,2-Dichloropropane	1	1.0	U	0.3	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1	0.5	U	0.4	0.5	0.5
10061-02-6	trans-1,3-Dichloropropene	1	0.5	U	0.3	0.5	0.5
100-41-4	Ethylbenzene	1	0.5	U	0.3	0.5	1.0
591-78-6	2-Hexanone (MBK)	1	2.0	U	0.5	2.0	2.0
98-82-8	Isopropylbenzene	1	1.0	U	0.4	1.0	1.0
1634-04-4	Methyl tert-butyl ether	1	0.5	U	0.2	0.5	1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	2.0	U	0.5	2.0	2.0
75-09-2	Methylene chloride	1	2.0	U	0.7	2.0	2.0
100-42-5	Styrene	1	1.0	U	0.4	1.0	1.0
79-34-5	1,1,1,2-Tetrachloroethane	1	0.5	U	0.3	0.5	0.5
127-18-4	Tetrachloroethene	1	1.0	U	0.6	1.0	1.0
108-88-3	Toluene	1	1.0	U	0.3	1.0	1.0



# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-MW1006-082917

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>		
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>		
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-03</u>	File ID: <u>3867803.D</u>	
Sampled: <u>08/29/17 10:25</u>	Prepared: <u>09/06/17 09:20</u>	Analyzed: <u>09/06/17 14:33</u>	
% Solids:	Preparation: <u>SW846 5030 Water MS</u>	Initial/Final: <u>5 ml / 5 ml</u>	
Batch: <u>1715197</u>	Sequence: <u>S707890</u>	Calibration: <u>1709004</u>	Instrument: <u>HPV3</u>
Reported to: <u>LOD</u>			

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
87-61-6	1,2,3-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
71-55-6	1,1,1-Trichloroethane	1	1.0	U	0.5	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1	0.5	U	0.3	0.5	1.0
79-01-6	Trichloroethene	1	1.0	U	0.5	1.0	1.0
75-69-4	Trichlorofluoromethane (Freon 11)	1	1.0	U	0.5	1.0	1.0
75-01-4	Vinyl chloride	1	1.0	U	0.5	1.0	1.0
179601-23-1	m,p-Xylene	1	1.0	U	0.4	1.0	2.0
95-47-6	o-Xylene	1	1.0	U	0.3	1.0	1.0
110-82-7	Cyclohexane	1	2.0	U	0.8	2.0	5.0
79-20-9	Methyl acetate	1	2.0	U	0.6	2.0	5.0
108-87-2	Methylcyclohexane	1	2.0	U	0.7	2.0	5.0

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-MW1002-082917

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-04</u>
Sampled: <u>08/29/17 11:05</u>	Prepared: <u>09/06/17 09:20</u>
% Solids:	Preparation: <u>SW846 5030 Water MS</u>
Batch: <u>1715197</u>	Sequence: <u>S707890</u>
	Calibration: <u>1709004</u>
	Instrument: <u>HPV3</u>
Reported to: <u>LOD</u>	

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1	1.0	U	0.5	1.0	1.0
67-64-1	Acetone	1	2.0	U	0.8	2.0	10.0
71-43-2	Benzene	1	0.5	U	0.3	0.5	1.0
74-97-5	Bromochloromethane	1	1.0	U	0.3	1.0	1.0
75-27-4	Bromodichloromethane	1	0.5	U	0.4	0.5	0.5
75-25-2	Bromoform	1	1.0	U	0.4	1.0	1.0
74-83-9	Bromomethane	1	2.0	U	0.9	2.0	2.0
78-93-3	2-Butanone (MEK)	1	2.0	U	1.1	2.0	2.0
75-15-0	Carbon disulfide	1	1.0	U	0.4	1.0	2.0
56-23-5	Carbon tetrachloride	1	1.0	U	0.4	1.0	1.0
108-90-7	Chlorobenzene	1	0.5	U	0.2	0.5	1.0
75-00-3	Chloroethane	1	2.0	U	0.6	2.0	2.0
67-66-3	Chloroform	1	1.0	U	0.3	1.0	1.0
74-87-3	Chloromethane	1	1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	2.0	U	0.9	2.0	2.0
124-48-1	Dibromochloromethane	1	0.5	U	0.3	0.5	0.5
106-93-4	1,2-Dibromoethane (EDB)	1	0.5	U	0.2	0.5	0.5
95-50-1	1,2-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
541-73-1	1,3-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
106-46-7	1,4-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
75-71-8	Dichlorodifluoromethane (Freon12)	1	2.0	U	0.6	2.0	2.0
75-34-3	1,1-Dichloroethane	1	1.0	U	0.3	1.0	1.0
107-06-2	1,2-Dichloroethane	1	1.0	U	0.3	1.0	1.0
75-35-4	1,1-Dichloroethene	1	1.0	U	0.7	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	1	0.5	U	0.3	0.5	1.0
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	0.4	1.0	1.0
78-87-5	1,2-Dichloropropane	1	1.0	U	0.3	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1	0.5	U	0.4	0.5	0.5
10061-02-6	trans-1,3-Dichloropropene	1	0.5	U	0.3	0.5	0.5
100-41-4	Ethylbenzene	1	0.5	U	0.3	0.5	1.0
591-78-6	2-Hexanone (MBK)	1	2.0	U	0.5	2.0	2.0
98-82-8	Isopropylbenzene	1	1.0	U	0.4	1.0	1.0
1634-04-4	Methyl tert-butyl ether	1	0.3	J	0.2	0.5	1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	2.0	U	0.5	2.0	2.0
75-09-2	Methylene chloride	1	2.0	U	0.7	2.0	2.0
100-42-5	Styrene	1	1.0	U	0.4	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1	0.5	U	0.3	0.5	0.5
127-18-4	Tetrachloroethene	1	1.0	U	0.6	1.0	1.0
108-88-3	Toluene	1	1.0	U	0.3	1.0	1.0

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-MW1002-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-04                      File ID: 3867804.D  
 Sampled: 08/29/17 11:05                      Prepared: 09/06/17 09:20                      Analyzed: 09/06/17 15:02  
 % Solids:                                      Preparation: SW846 5030 Water MS                      Initial/Final: 5 ml / 5 ml  
 Batch: 1715197                      Sequence: S707890                      Calibration: 1709004                      Instrument: HPV3  
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
87-61-6	1,2,3-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
71-55-6	1,1,1-Trichloroethane	1	1.0	U	0.5	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1	0.5	U	0.3	0.5	1.0
79-01-6	Trichloroethene	1	1.0	U	0.5	1.0	1.0
75-69-4	Trichlorofluoromethane (Freon 11)	1	1.0	U	0.5	1.0	1.0
75-01-4	Vinyl chloride	1	1.0	U	0.5	1.0	1.0
179601-23-1	m,p-Xylene	1	1.0	U	0.4	1.0	2.0
95-47-6	o-Xylene	1	1.0	U	0.3	1.0	1.0
110-82-7	Cyclohexane	1	2.0	U	0.8	2.0	5.0
79-20-9	Methyl acetate	1	2.0	U	0.6	2.0	5.0
108-87-2	Methylcyclohexane	1	2.0	U	0.7	2.0	5.0

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-GT-109-082917

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-05</u>
Sampled: <u>08/29/17 16:05</u>	Prepared: <u>09/06/17 09:20</u>
% Solids:	Preparation: <u>SW846 5030 Water MS</u>
Batch: <u>1715197</u>	Sequence: <u>S707890</u>
	Calibration: <u>1709004</u>
	Instrument: <u>HPV3</u>
Reported to: <u>LOD</u>	

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1	1.0	U	0.5	1.0	1.0
67-64-1	Acetone	1	2.0	U	0.8	2.0	10.0
71-43-2	Benzene	1	0.5	U	0.3	0.5	1.0
74-97-5	Bromochloromethane	1	1.0	U	0.3	1.0	1.0
75-27-4	Bromodichloromethane	1	0.5	U	0.4	0.5	0.5
75-25-2	Bromoform	1	1.0	U	0.4	1.0	1.0
74-83-9	Bromomethane	1	2.0	U	0.9	2.0	2.0
78-93-3	2-Butanone (MEK)	1	2.0	U	1.1	2.0	2.0
75-15-0	Carbon disulfide	1	1.0	U	0.4	1.0	2.0
56-23-5	Carbon tetrachloride	1	1.0	U	0.4	1.0	1.0
108-90-7	Chlorobenzene	1	0.5	U	0.2	0.5	1.0
75-00-3	Chloroethane	1	2.0	U	0.6	2.0	2.0
67-66-3	Chloroform	1	1.0	U	0.3	1.0	1.0
74-87-3	Chloromethane	1	1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	2.0	U	0.9	2.0	2.0
124-48-1	Dibromochloromethane	1	0.5	U	0.3	0.5	0.5
106-93-4	1,2-Dibromoethane (EDB)	1	0.5	U	0.2	0.5	0.5
95-50-1	1,2-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
541-73-1	1,3-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
106-46-7	1,4-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
75-71-8	Dichlorodifluoromethane (Freon12)	1	2.0	U	0.6	2.0	2.0
75-34-3	1,1-Dichloroethane	1	1.0	U	0.3	1.0	1.0
107-06-2	1,2-Dichloroethane	1	1.0	U	0.3	1.0	1.0
75-35-4	1,1-Dichloroethene	1	1.0	U	0.7	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	1	0.5	U	0.3	0.5	1.0
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	0.4	1.0	1.0
78-87-5	1,2-Dichloropropane	1	1.0	U	0.3	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1	0.5	U	0.4	0.5	0.5
10061-02-6	trans-1,3-Dichloropropene	1	0.5	U	0.3	0.5	0.5
100-41-4	Ethylbenzene	1	0.5	U	0.3	0.5	1.0
591-78-6	2-Hexanone (MBK)	1	2.0	U	0.5	2.0	2.0
98-82-8	Isopropylbenzene	1	1.0	U	0.4	1.0	1.0
1634-04-4	Methyl tert-butyl ether	1	0.5	U	0.2	0.5	1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	2.0	U	0.5	2.0	2.0
75-09-2	Methylene chloride	1	2.0	U	0.7	2.0	2.0
100-42-5	Styrene	1	1.0	U	0.4	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1	0.5	U	0.3	0.5	0.5
127-18-4	Tetrachloroethene	1	1.0	U	0.6	1.0	1.0
108-88-3	Toluene	1	1.0	U	0.3	1.0	1.0

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-GT-109-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-05                      File ID: 3867805.D  
 Sampled: 08/29/17 16:05                      Prepared: 09/06/17 09:20                      Analyzed: 09/06/17 15:31  
 % Solids:                                      Preparation: SW846 5030 Water MS                      Initial/Final: 5 ml / 5 ml  
 Batch: 1715197                      Sequence: S707890                      Calibration: 1709004                      Instrument: HPV3  
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
87-61-6	1,2,3-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
71-55-6	1,1,1-Trichloroethane	1	1.0	U	0.5	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1	0.5	U	0.3	0.5	1.0
79-01-6	Trichloroethene	1	1.0	U	0.5	1.0	1.0
75-69-4	Trichlorofluoromethane (Freon 11)	1	1.0	U	0.5	1.0	1.0
75-01-4	Vinyl chloride	1	1.0	U	0.5	1.0	1.0
179601-23-1	m,p-Xylene	1	1.0	U	0.4	1.0	2.0
95-47-6	o-Xylene	1	1.0	U	0.3	1.0	1.0
110-82-7	Cyclohexane	1	2.0	U	0.8	2.0	5.0
79-20-9	Methyl acetate	1	2.0	U	0.6	2.0	5.0
108-87-2	Methylcyclohexane	1	2.0	U	0.7	2.0	5.0

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-DUP-01-082917

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-06</u>
Sampled: <u>08/29/17 12:00</u>	Prepared: <u>09/06/17 09:20</u>
% Solids:	Preparation: <u>SW846 5030 Water MS</u>
Batch: <u>1715197</u>	Sequence: <u>S707890</u>
	Calibration: <u>1709004</u>
	Instrument: <u>HPV3</u>
Reported to: <u>LOD</u>	

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1	1.0	U	0.5	1.0	1.0
67-64-1	Acetone	1	2.0	U	0.8	2.0	10.0
71-43-2	Benzene	1	0.5	U	0.3	0.5	1.0
74-97-5	Bromochloromethane	1	1.0	U	0.3	1.0	1.0
75-27-4	Bromodichloromethane	1	0.5	U	0.4	0.5	0.5
75-25-2	Bromoform	1	1.0	U	0.4	1.0	1.0
74-83-9	Bromomethane	1	2.0	U	0.9	2.0	2.0
78-93-3	2-Butanone (MEK)	1	2.0	U	1.1	2.0	2.0
75-15-0	Carbon disulfide	1	1.0	U	0.4	1.0	2.0
56-23-5	Carbon tetrachloride	1	1.0	U	0.4	1.0	1.0
108-90-7	Chlorobenzene	1	0.5	U	0.2	0.5	1.0
75-00-3	Chloroethane	1	2.0	U	0.6	2.0	2.0
67-66-3	Chloroform	1	1.0	U	0.3	1.0	1.0
74-87-3	Chloromethane	1	1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	2.0	U	0.9	2.0	2.0
124-48-1	Dibromochloromethane	1	0.5	U	0.3	0.5	0.5
106-93-4	1,2-Dibromoethane (EDB)	1	0.5	U	0.2	0.5	0.5
95-50-1	1,2-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
541-73-1	1,3-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
106-46-7	1,4-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
75-71-8	Dichlorodifluoromethane (Freon12)	1	2.0	U	0.6	2.0	2.0
75-34-3	1,1-Dichloroethane	1	1.0	U	0.3	1.0	1.0
107-06-2	1,2-Dichloroethane	1	1.0	U	0.3	1.0	1.0
75-35-4	1,1-Dichloroethene	1	1.0	U	0.7	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	1	0.5	U	0.3	0.5	1.0
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	0.4	1.0	1.0
78-87-5	1,2-Dichloropropane	1	1.0	U	0.3	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1	0.5	U	0.4	0.5	0.5
10061-02-6	trans-1,3-Dichloropropene	1	0.5	U	0.3	0.5	0.5
100-41-4	Ethylbenzene	1	0.5	U	0.3	0.5	1.0
591-78-6	2-Hexanone (MBK)	1	2.0	U	0.5	2.0	2.0
98-82-8	Isopropylbenzene	1	1.0	U	0.4	1.0	1.0
1634-04-4	Methyl tert-butyl ether	1	0.2	J	0.2	0.5	1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	2.0	U	0.5	2.0	2.0
75-09-2	Methylene chloride	1	2.0	U	0.7	2.0	2.0
100-42-5	Styrene	1	1.0	U	0.4	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1	0.5	U	0.3	0.5	0.5
127-18-4	Tetrachloroethene	1	1.0	U	0.6	1.0	1.0
108-88-3	Toluene	1	1.0	U	0.3	1.0	1.0

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-DUP-01-082917

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>		
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>		
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-06</u>	File ID: <u>3867806.D</u>	
Sampled: <u>08/29/17 12:00</u>	Prepared: <u>09/06/17 09:20</u>	Analyzed: <u>09/06/17 16:00</u>	
% Solids:	Preparation: <u>SW846 5030 Water MS</u>	Initial/Final: <u>5 ml / 5 ml</u>	
Batch: <u>1715197</u>	Sequence: <u>S707890</u>	Calibration: <u>1709004</u>	Instrument: <u>HPV3</u>
Reported to: <u>LOD</u>			

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
87-61-6	1,2,3-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
71-55-6	1,1,1-Trichloroethane	1	1.0	U	0.5	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1	0.5	U	0.3	0.5	1.0
79-01-6	Trichloroethene	1	1.0	U	0.5	1.0	1.0
75-69-4	Trichlorofluoromethane (Freon 11)	1	1.0	U	0.5	1.0	1.0
75-01-4	Vinyl chloride	1	1.0	U	0.5	1.0	1.0
179601-23-1	m,p-Xylene	1	1.0	U	0.4	1.0	2.0
95-47-6	o-Xylene	1	1.0	U	0.3	1.0	1.0
110-82-7	Cyclohexane	1	2.0	U	0.8	2.0	5.0
79-20-9	Methyl acetate	1	2.0	U	0.6	2.0	5.0
108-87-2	Methylcyclohexane	1	2.0	U	0.7	2.0	5.0

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-TB-082917

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>		
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>		
Matrix: <u>QC</u>	Laboratory ID: <u>SC38678-07</u>	File ID: <u>3867807.D</u>	
Sampled: <u>08/29/17 08:00</u>	Prepared: <u>09/06/17 09:20</u>	Analyzed: <u>09/06/17 16:28</u>	
% Solids:	Preparation: <u>SW846 5030 Water MS</u>	Initial/Final: <u>5 ml / 5 ml</u>	
Batch: <u>1715197</u>	Sequence: <u>S707890</u>	Calibration: <u>1709004</u>	Instrument: <u>HPV3</u>
Reported to: <u>LOD</u>			

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1	1.0	U	0.5	1.0	1.0
67-64-1	Acetone	1	2.0	U	0.8	2.0	10.0
71-43-2	Benzene	1	0.5	U	0.3	0.5	1.0
74-97-5	Bromochloromethane	1	1.0	U	0.3	1.0	1.0
75-27-4	Bromodichloromethane	1	0.5	U	0.4	0.5	0.5
75-25-2	Bromoform	1	1.0	U	0.4	1.0	1.0
74-83-9	Bromomethane	1	2.0	U	0.9	2.0	2.0
78-93-3	2-Butanone (MEK)	1	2.0	U	1.1	2.0	2.0
75-15-0	Carbon disulfide	1	1.0	U	0.4	1.0	2.0
56-23-5	Carbon tetrachloride	1	1.0	U	0.4	1.0	1.0
108-90-7	Chlorobenzene	1	0.5	U	0.2	0.5	1.0
75-00-3	Chloroethane	1	2.0	U	0.6	2.0	2.0
67-66-3	Chloroform	1	1.0	U	0.3	1.0	1.0
74-87-3	Chloromethane	1	1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	2.0	U	0.9	2.0	2.0
124-48-1	Dibromochloromethane	1	0.5	U	0.3	0.5	0.5
106-93-4	1,2-Dibromoethane (EDB)	1	0.5	U	0.2	0.5	0.5
95-50-1	1,2-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
541-73-1	1,3-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
106-46-7	1,4-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
75-71-8	Dichlorodifluoromethane (Freon12)	1	2.0	U	0.6	2.0	2.0
75-34-3	1,1-Dichloroethane	1	1.0	U	0.3	1.0	1.0
107-06-2	1,2-Dichloroethane	1	1.0	U	0.3	1.0	1.0
75-35-4	1,1-Dichloroethene	1	1.0	U	0.7	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	1	0.5	U	0.3	0.5	1.0
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	0.4	1.0	1.0
78-87-5	1,2-Dichloropropane	1	1.0	U	0.3	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1	0.5	U	0.4	0.5	0.5
10061-02-6	trans-1,3-Dichloropropene	1	0.5	U	0.3	0.5	0.5
100-41-4	Ethylbenzene	1	0.5	U	0.3	0.5	1.0
591-78-6	2-Hexanone (MBK)	1	2.0	U	0.5	2.0	2.0
98-82-8	Isopropylbenzene	1	1.0	U	0.4	1.0	1.0
1634-04-4	Methyl tert-butyl ether	1	0.5	U	0.2	0.5	1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	2.0	U	0.5	2.0	2.0
75-09-2	Methylene chloride	1	2.0	U	0.7	2.0	2.0
100-42-5	Styrene	1	1.0	U	0.4	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1	0.5	U	0.3	0.5	0.5
127-18-4	Tetrachloroethene	1	1.0	U	0.6	1.0	1.0
108-88-3	Toluene	1	1.0	U	0.3	1.0	1.0



# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-TB-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: QC                                      Laboratory ID: SC38678-07                                      File ID: 3867807.D  
 Sampled: 08/29/17 08:00                                      Prepared: 09/06/17 09:20                                      Analyzed: 09/06/17 16:28  
 % Solids:                                      Preparation: SW846 5030 Water MS                                      Initial/Final: 5 ml / 5 ml  
 Batch: 1715197                      Sequence: S707890                                      Calibration: 1709004                                      Instrument: HPV3  
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
87-61-6	1,2,3-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
71-55-6	1,1,1-Trichloroethane	1	1.0	U	0.5	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1	0.5	U	0.3	0.5	1.0
79-01-6	Trichloroethene	1	1.0	U	0.5	1.0	1.0
75-69-4	Trichlorofluoromethane (Freon 11)	1	1.0	U	0.5	1.0	1.0
75-01-4	Vinyl chloride	1	1.0	U	0.5	1.0	1.0
179601-23-1	m,p-Xylene	1	1.0	U	0.4	1.0	2.0
95-47-6	o-Xylene	1	1.0	U	0.3	1.0	1.0
110-82-7	Cyclohexane	1	2.0	U	0.8	2.0	5.0
79-20-9	Methyl acetate	1	2.0	U	0.6	2.0	5.0
108-87-2	Methylcyclohexane	1	2.0	U	0.7	2.0	5.0

**FORM I - ORGANIC ANALYSIS DATA SHEET****SW846 8270D**

TF1-EBP-MW1001-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38678  
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport  
Project Number: 112608005-WE15 Received: 08/30/17 17:50  
Matrix: Ground Water Laboratory ID: SC38678-01RE1 File ID: R3867801.D  
Sampled: 08/29/17 10:44 Prepared: 09/07/17 15:00 Analyzed: 09/16/17 15:39  
% Solids: Preparation: SW846 3510C Initial/Final: 1070 ml / 1 ml  
Batch: 1715314 Sequence: S708252 Calibration: 1708113 Instrument: HPS4  
Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
83-32-9	Acenaphthene	1	0.935	U	0.646	0.935	4.67
208-96-8	Acenaphthylene	1	0.935	U	0.638	0.935	4.67
120-12-7	Anthracene	1	0.935	U	0.568	0.935	4.67
56-55-3	Benzo (a) anthracene	1	0.935	U	0.501	0.935	4.67
50-32-8	Benzo (a) pyrene	1	0.935	U	0.525	0.935	4.67
205-99-2	Benzo (b) fluoranthene	1	0.935	U	0.408	0.935	4.67
191-24-2	Benzo (g,h,i) perylene	1	0.935	U	0.495	0.935	4.67
207-08-9	Benzo (k) fluoranthene	1	0.935	U	0.449	0.935	4.67
218-01-9	Chrysene	1	0.935	U	0.497	0.935	4.67
53-70-3	Dibenzo (a,h) anthracene	1	0.935	U	0.421	0.935	4.67
206-44-0	Fluoranthene	1	0.935	U	0.596	0.935	4.67
86-73-7	Fluorene	1	0.935	U	0.572	0.935	4.67
193-39-5	Indeno (1,2,3-cd) pyrene	1	0.935	U	0.542	0.935	4.67
90-12-0	1-Methylnaphthalene	1	0.935	U	0.685	0.935	4.67
91-57-6	2-Methylnaphthalene	1	0.935	U	0.536	0.935	4.67
91-20-3	Naphthalene	1	0.935	U	0.640	0.935	4.67
85-01-8	Phenanthrene	1	0.935	U	0.548	0.935	4.67
129-00-0	Pyrene	1	0.935	U	0.570	0.935	4.67

**FORM I - ORGANIC ANALYSIS DATA SHEET**

**SW846 8270D**

TF1-EBP-MW1000-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-02                      File ID: C3867802.D  
 Sampled: 08/29/17 14:52                      Prepared: 09/01/17 08:00                      Analyzed: 09/15/17 15:03  
 % Solids:                                      Preparation: SW846 3510C                      Initial/Final: 1060 ml / 1 ml  
 Batch: 1715009                      Sequence: S708251                      Calibration: 1708113                      Instrument: HPS4  
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
83-32-9	Acenaphthene	1	0.943	U	0.652	0.943	4.72
208-96-8	Acenaphthylene	1	0.943	U	0.644	0.943	4.72
120-12-7	Anthracene	1	0.943	U	0.574	0.943	4.72
56-55-3	Benzo (a) anthracene	1	0.943	U	0.506	0.943	4.72
50-32-8	Benzo (a) pyrene	1	0.943	U	0.530	0.943	4.72
205-99-2	Benzo (b) fluoranthene	1	0.943	U	0.412	0.943	4.72
191-24-2	Benzo (g,h,i) perylene	1	0.943	U	0.500	0.943	4.72
207-08-9	Benzo (k) fluoranthene	1	0.943	U	0.453	0.943	4.72
218-01-9	Chrysene	1	0.943	U	0.502	0.943	4.72
53-70-3	Dibenzo (a,h) anthracene	1	0.943	U	0.425	0.943	4.72
206-44-0	Fluoranthene	1	0.943	U	0.602	0.943	4.72
86-73-7	Fluorene	1	0.943	U	0.577	0.943	4.72
193-39-5	Indeno (1,2,3-cd) pyrene	1	0.943	U	0.547	0.943	4.72
90-12-0	1-Methylnaphthalene	1	0.943	U	0.692	0.943	4.72
91-57-6	2-Methylnaphthalene	1	0.943	U	0.542	0.943	4.72
91-20-3	Naphthalene	1	0.943	U	0.646	0.943	4.72
85-01-8	Phenanthrene	1	0.943	U	0.553	0.943	4.72
129-00-0	Pyrene	1	0.943	U	0.575	0.943	4.72

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8270D

TF1-MW1006-082917

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>		
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>		
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-03</u>	File ID: <u>C3867803.D</u>	
Sampled: <u>08/29/17 10:25</u>	Prepared: <u>09/01/17 08:00</u>	Analyzed: <u>09/15/17 15:31</u>	
% Solids:	Preparation: <u>SW846 3510C</u>	Initial/Final: <u>1040 ml / 1 ml</u>	
Batch: <u>1715009</u>	Sequence: <u>S708251</u>	Calibration: <u>1708113</u>	Instrument: <u>HPS4</u>
Reported to: <u>LOD</u>			

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
83-32-9	Acenaphthene	1	0.962	U	0.664	0.962	4.81
208-96-8	Acenaphthylene	1	0.962	U	0.657	0.962	4.81
120-12-7	Anthracene	1	0.962	U	0.585	0.962	4.81
56-55-3	Benzo (a) anthracene	1	0.962	U	0.515	0.962	4.81
50-32-8	Benzo (a) pyrene	1	0.962	U	0.540	0.962	4.81
205-99-2	Benzo (b) fluoranthene	1	0.962	U	0.420	0.962	4.81
191-24-2	Benzo (g,h,i) perylene	1	0.962	U	0.510	0.962	4.81
207-08-9	Benzo (k) fluoranthene	1	0.962	U	0.462	0.962	4.81
218-01-9	Chrysene	1	0.962	U	0.512	0.962	4.81
53-70-3	Dibenzo (a,h) anthracene	1	0.962	U	0.433	0.962	4.81
206-44-0	Fluoranthene	1	0.962	U	0.613	0.962	4.81
86-73-7	Fluorene	1	0.962	U	0.588	0.962	4.81
193-39-5	Indeno (1,2,3-cd) pyrene	1	0.962	U	0.558	0.962	4.81
90-12-0	1-Methylnaphthalene	1	0.962	U	0.705	0.962	4.81
91-57-6	2-Methylnaphthalene	1	0.962	U	0.552	0.962	4.81
91-20-3	Naphthalene	1	0.962	U	0.659	0.962	4.81
85-01-8	Phenanthrene	1	0.962	U	0.563	0.962	4.81
129-00-0	Pyrene	1	0.962	U	0.587	0.962	4.81

**FORM I - ORGANIC ANALYSIS DATA SHEET**

**SW846 8270D**

TF1-MW1002-082917

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>				
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>				
Project Number:	<u>112608005-WE15</u>	Received:	<u>08/30/17 17:50</u>				
Matrix:	<u>Ground Water</u>	Laboratory ID:	<u>SC38678-04</u>	File ID:	<u>C3867804.D</u>		
Sampled:	<u>08/29/17 11:05</u>	Prepared:	<u>09/01/17 08:00</u>	Analyzed:	<u>09/15/17 16:00</u>		
% Solids:		Preparation:	<u>SW846 3510C</u>	Initial/Final:	<u>940 ml / 1 ml</u>		
Batch:	<u>1715009</u>	Sequence:	<u>S708251</u>	Calibration:	<u>1708113</u>	Instrument:	<u>HPS4</u>
Reported to:	<u>LOD</u>						

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
83-32-9	Acenaphthene	1	1.06	U	0.735	1.06	5.32
208-96-8	Acenaphthylene	1	1.06	U	0.727	1.06	5.32
120-12-7	Anthracene	1	1.06	U	0.647	1.06	5.32
56-55-3	Benzo (a) anthracene	1	1.06	U	0.570	1.06	5.32
50-32-8	Benzo (a) pyrene	1	1.06	U	0.598	1.06	5.32
205-99-2	Benzo (b) fluoranthene	1	1.06	U	0.465	1.06	5.32
191-24-2	Benzo (g,h,i) perylene	1	1.06	U	0.564	1.06	5.32
207-08-9	Benzo (k) fluoranthene	1	1.06	U	0.511	1.06	5.32
218-01-9	Chrysene	1	1.06	U	0.566	1.06	5.32
53-70-3	Dibenzo (a,h) anthracene	1	1.06	U	0.479	1.06	5.32
206-44-0	Fluoranthene	1	1.06	U	0.679	1.06	5.32
86-73-7	Fluorene	1	1.06	U	0.651	1.06	5.32
193-39-5	Indeno (1,2,3-cd) pyrene	1	1.06	U	0.617	1.06	5.32
90-12-0	1-Methylnaphthalene	1	1.06	U	0.780	1.06	5.32
91-57-6	2-Methylnaphthalene	1	1.06	U	0.611	1.06	5.32
91-20-3	Naphthalene	1	1.06	U	0.729	1.06	5.32
85-01-8	Phenanthrene	1	1.06	U	0.623	1.06	5.32
129-00-0	Pyrene	1	1.06	U	0.649	1.06	5.32

# FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8270D

TF1-GT-109-082917

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>		
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>		
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-05</u>	File ID: <u>C3867805.D</u>	
Sampled: <u>08/29/17 16:05</u>	Prepared: <u>09/01/17 08:00</u>	Analyzed: <u>09/15/17 16:28</u>	
% Solids:	Preparation: <u>SW846 3510C</u>	Initial/Final: <u>950 ml / 1 ml</u>	
Batch: <u>1715009</u>	Sequence: <u>S708251</u>	Calibration: <u>1708113</u>	Instrument: <u>HPS4</u>
Reported to: <u>LOD</u>			

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
83-32-9	Acenaphthene	1	1.05	U	0.727	1.05	5.26
208-96-8	Acenaphthylene	1	1.05	U	0.719	1.05	5.26
120-12-7	Anthracene	1	1.05	U	0.640	1.05	5.26
56-55-3	Benzo (a) anthracene	1	1.05	U	0.564	1.05	5.26
50-32-8	Benzo (a) pyrene	1	1.05	U	0.592	1.05	5.26
205-99-2	Benzo (b) fluoranthene	1	1.05	U	0.460	1.05	5.26
191-24-2	Benzo (g,h,i) perylene	1	1.05	U	0.558	1.05	5.26
207-08-9	Benzo (k) fluoranthene	1	1.05	U	0.505	1.05	5.26
218-01-9	Chrysene	1	1.05	U	0.560	1.05	5.26
53-70-3	Dibenzo (a,h) anthracene	1	1.05	U	0.474	1.05	5.26
206-44-0	Fluoranthene	1	1.05	U	0.672	1.05	5.26
86-73-7	Fluorene	1	1.05	U	0.644	1.05	5.26
193-39-5	Indeno (1,2,3-cd) pyrene	1	1.05	U	0.611	1.05	5.26
90-12-0	1-Methylnaphthalene	1	1.05	U	0.772	1.05	5.26
91-57-6	2-Methylnaphthalene	1	1.05	U	0.604	1.05	5.26
91-20-3	Naphthalene	1	1.05	U	0.721	1.05	5.26
85-01-8	Phenanthrene	1	1.05	U	0.617	1.05	5.26
129-00-0	Pyrene	1	1.05	U	0.642	1.05	5.26

**FORM I - ORGANIC ANALYSIS DATA SHEET****SW846 8270D**

TF1-DUP-01-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15 Received: 08/30/17 17:50  
 Matrix: Ground Water Laboratory ID: SC38678-06 File ID: C3867806.D  
 Sampled: 08/29/17 12:00 Prepared: 09/01/17 08:00 Analyzed: 09/15/17 16:56  
 % Solids: Preparation: SW846 3510C Initial/Final: 980 ml / 1 ml  
 Batch: 1715009 Sequence: S708251 Calibration: 1708113 Instrument: HPS4  
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
83-32-9	Acenaphthene	1	1.02	U	0.705	1.02	5.10
208-96-8	Acenaphthylene	1	1.02	U	0.697	1.02	5.10
120-12-7	Anthracene	1	1.02	U	0.620	1.02	5.10
56-55-3	Benzo (a) anthracene	1	1.02	U	0.547	1.02	5.10
50-32-8	Benzo (a) pyrene	1	1.02	U	0.573	1.02	5.10
205-99-2	Benzo (b) fluoranthene	1	1.02	U	0.446	1.02	5.10
191-24-2	Benzo (g,h,i) perylene	1	1.02	U	0.541	1.02	5.10
207-08-9	Benzo (k) fluoranthene	1	1.02	U	0.490	1.02	5.10
218-01-9	Chrysene	1	1.02	U	0.543	1.02	5.10
53-70-3	Dibenzo (a,h) anthracene	1	1.02	U	0.459	1.02	5.10
206-44-0	Fluoranthene	1	1.02	U	0.651	1.02	5.10
86-73-7	Fluorene	1	1.02	U	0.624	1.02	5.10
193-39-5	Indeno (1,2,3-cd) pyrene	1	1.02	U	0.592	1.02	5.10
90-12-0	1-Methylnaphthalene	1	1.02	U	0.748	1.02	5.10
91-57-6	2-Methylnaphthalene	1	1.02	U	0.586	1.02	5.10
91-20-3	Naphthalene	1	1.02	U	0.699	1.02	5.10
85-01-8	Phenanthrene	1	1.02	U	0.598	1.02	5.10
129-00-0	Pyrene	1	1.02	U	0.622	1.02	5.10

**FORM I - ANALYSIS DATA SHEET**  
**SW846 8082A**

TF1-GT-109-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
Project Number: 112608005-WE15    Received: 08/30/17 17:50  
Matrix: Ground Water                      Laboratory ID: SC38678-05                      File ID: 3867805.D  
Sampled: 08/29/17 16:05                      Prepared: 09/01/17 19:00                      Analyzed: 09/08/17 19:26  
% Solids:                                      Preparation: SW846 3510C                      Initial/Final: 950 ml / 10 ml  
Batch: 1715132                      Sequence: S708102                      Calibration: 1706075                      Instrument: HPS12  
Injection Volume (uL):      2.00  
Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
12674-11-2	Aroclor-1016	1	0.211	U	0.109	0.211	0.211
11104-28-2	Aroclor-1221	1	0.211	U	0.121	0.211	0.211
11141-16-5	Aroclor-1232	1	0.211	U	0.117	0.211	0.211
53469-21-9	Aroclor-1242	1	0.211	U	0.113	0.211	0.211
12672-29-6	Aroclor-1248	1	0.211	U	0.143	0.211	0.211
11097-69-1	Aroclor-1254	1	0.211	U	0.122	0.211	0.211
11096-82-5	Aroclor-1260	1	0.211	U	0.0896	0.211	0.211
37324-23-5	Aroclor-1262	1	0.211	U	0.0943	0.211	0.211
11100-14-4	Aroclor-1268	1	0.211	U	0.0963	0.211	0.211



**FORM I - ANALYSIS DATA SHEET**

**SW846 8081B**

**TF1-EBP-MW1001-082917**

Laboratory: Euofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-01                      File ID: 3867801.D  
 Sampled: 08/29/17 10:44                      Prepared: 09/01/17 08:00                      Analyzed: 09/08/17 01:41  
 % Solids:    Preparation: SW846 3510C                      Initial/Final: 1060 ml / 10 ml  
 Batch: 1715010                      Sequence: S708006                      Calibration: 1709015                      Instrument: HPS14  
 Injection Volume (uL): 2.00  
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
319-84-6	alpha-BHC	1	0.019	U	0.011	0.019	0.019
319-85-7	beta-BHC	1	0.019	U	0.014	0.019	0.019
319-86-8	delta-BHC	1	0.019	U	0.015	0.019	0.019
58-89-9	gamma-BHC (Lindane)	1	0.019	U	0.016	0.019	0.019
76-44-8	Heptachlor	1	0.019	U	0.018	0.019	0.019
309-00-2	Aldrin	1	0.019	U	0.015	0.019	0.019
1024-57-3	Heptachlor epoxide	1	0.019	U	0.014	0.019	0.019
959-98-8	Endosulfan I	1	0.019	U	0.015	0.019	0.019
60-57-1	Dieldrin	1	0.019	U	0.016	0.019	0.019
72-55-9	4,4'-DDE (p,p')	1	0.019	U	0.017	0.019	0.019
72-20-8	Endrin	1	0.019	U	0.018	0.019	0.038
33213-65-9	Endosulfan II	1	0.019	U	0.019	0.019	0.038
72-54-8	4,4'-DDD (p,p')	1	0.019	U	0.018	0.019	0.038
1031-07-8	Endosulfan sulfate	1	0.019	U	0.019	0.019	0.038
50-29-3	4,4'-DDT (p,p')	1	0.028	U	0.017	0.028	0.038
72-43-5	Methoxychlor	1	0.019	U	0.017	0.019	0.038
53494-70-5	Endrin ketone	1	0.019	U	0.016	0.019	0.038
7421-93-4	Endrin aldehyde	1	0.019	U	0.018	0.019	0.038
5103-71-9	alpha-Chlordane	1	0.019	U	0.015	0.019	0.019
5103-74-2	Chlordane (gamma)(trans)	1	0.019	U	0.015	0.019	0.019
8001-35-2	Toxaphene	1	0.472	U	0.309	0.472	0.472
57-74-9	Chlordane	1	0.061	U	0.048	0.061	0.061
15972-60-8	Alachlor	1	0.019	U	0.018	0.019	0.019

**FORM I - ANALYSIS DATA SHEET**  
**SW846 8081B**

TF1-EBP-MW1000-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15      Received: 08/30/17 17:50  
 Matrix: Ground Water      Laboratory ID: SC38678-02      File ID: 3867802.D  
 Sampled: 08/29/17 14:52      Prepared: 09/01/17 08:00      Analyzed: 09/08/17 01:58  
 % Solids:      Preparation: SW846 3510C      Initial/Final: 1070 ml / 10 ml  
 Batch: 1715010      Sequence: S708006      Calibration: 1709015      Instrument: HPS14  
 Injection Volume (uL):      2.00  
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
319-84-6	alpha-BHC	1	0.019	U	0.011	0.019	0.019
319-85-7	beta-BHC	1	0.019	U	0.014	0.019	0.019
319-86-8	delta-BHC	1	0.019	U	0.014	0.019	0.019
58-89-9	gamma-BHC (Lindane)	1	0.019	U	0.016	0.019	0.019
76-44-8	Heptachlor	1	0.019	U	0.018	0.019	0.019
309-00-2	Aldrin	1	0.019	U	0.015	0.019	0.019
1024-57-3	Heptachlor epoxide	1	0.019	U	0.014	0.019	0.019
959-98-8	Endosulfan I	1	0.019	U	0.015	0.019	0.019
60-57-1	Dieldrin	1	0.019	U	0.016	0.019	0.019
72-55-9	4,4'-DDE (p,p')	1	0.019	U	0.017	0.019	0.019
72-20-8	Endrin	1	0.019	U	0.018	0.019	0.037
33213-65-9	Endosulfan II	1	0.019	U	0.019	0.019	0.037
72-54-8	4,4'-DDD (p,p')	1	0.019	U	0.017	0.019	0.037
1031-07-8	Endosulfan sulfate	1	0.019	U	0.019	0.019	0.037
50-29-3	4,4'-DDT (p,p')	1	0.028	U	0.017	0.028	0.037
72-43-5	Methoxychlor	1	0.019	U	0.017	0.019	0.037
53494-70-5	Endrin ketone	1	0.019	U	0.016	0.019	0.037
7421-93-4	Endrin aldehyde	1	0.019	U	0.018	0.019	0.037
5103-71-9	alpha-Chlordane	1	0.019	U	0.014	0.019	0.019
5103-74-2	Chlordane (gamma)(trans)	1	0.019	U	0.015	0.019	0.019
8001-35-2	Toxaphene	1	0.467	U	0.307	0.467	0.467
57-74-9	Chlordane	1	0.061	U	0.048	0.061	0.061
15972-60-8	Alachlor	1	0.019	U	0.018	0.019	0.019

**FORM I - ANALYSIS DATA SHEET**  
**SW846 8081B**

TF1-MW1006-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15 Received: 08/30/17 17:50  
 Matrix: Ground Water Laboratory ID: SC38678-03 File ID: 3867803.D  
 Sampled: 08/29/17 10:25 Prepared: 09/01/17 08:00 Analyzed: 09/08/17 02:15  
 % Solids: Preparation: SW846 3510C Initial/Final: 960 ml / 10 ml  
 Batch: 1715010 Sequence: S708006 Calibration: 1709015 Instrument: HPS14  
 Injection Volume (uL): 2.00  
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
319-84-6	alpha-BHC	1	0.021	U	0.012	0.021	0.021
319-85-7	beta-BHC	1	0.021	U	0.015	0.021	0.021
319-86-8	delta-BHC	1	0.021	U	0.016	0.021	0.021
58-89-9	gamma-BHC (Lindane)	1	0.021	U	0.018	0.021	0.021
76-44-8	Heptachlor	1	0.021	U	0.020	0.021	0.021
309-00-2	Aldrin	1	0.021	U	0.016	0.021	0.021
1024-57-3	Heptachlor epoxide	1	0.021	U	0.016	0.021	0.021
959-98-8	Endosulfan I	1	0.021	U	0.017	0.021	0.021
60-57-1	Dieldrin	1	0.021	U	0.018	0.021	0.021
72-55-9	4,4'-DDE (p,p')	1	0.021	U	0.019	0.021	0.021
72-20-8	Endrin	1	0.021	U	0.020	0.021	0.042
33213-65-9	Endosulfan II	1	0.021	U	0.021	0.021	0.042
72-54-8	4,4'-DDD (p,p')	1	0.021	U	0.019	0.021	0.042
1031-07-8	Endosulfan sulfate	1	0.021	U	0.021	0.021	0.042
50-29-3	4,4'-DDT (p,p')	1	0.031	U	0.018	0.031	0.042
72-43-5	Methoxychlor	1	0.021	U	0.019	0.021	0.042
53494-70-5	Endrin ketone	1	0.021	U	0.018	0.021	0.042
7421-93-4	Endrin aldehyde	1	0.021	U	0.020	0.021	0.042
5103-71-9	alpha-Chlordane	1	0.021	U	0.016	0.021	0.021
5103-74-2	Chlordane (gamma)(trans)	1	0.021	U	0.017	0.021	0.021
8001-35-2	Toxaphene	1	0.521	U	0.342	0.521	0.521
57-74-9	Chlordane	1	0.068	U	0.053	0.068	0.068
15972-60-8	Alachlor	1	0.021	U	0.020	0.021	0.021

**FORM I - ANALYSIS DATA SHEET**  
**SW846 8081B**

TF1-MW1002-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15 Received: 08/30/17 17:50  
 Matrix: Ground Water Laboratory ID: SC38678-04 File ID: 3867804.D  
 Sampled: 08/29/17 11:05 Prepared: 09/01/17 08:00 Analyzed: 09/08/17 02:33  
 % Solids: Preparation: SW846 3510C Initial/Final: 950 ml / 10 ml  
 Batch: 1715010 Sequence: S708006 Calibration: 1709015 Instrument: HPS14  
 Injection Volume (uL): 2.00  
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
319-84-6	alpha-BHC	1	0.021	U	0.012	0.021	0.021
319-85-7	beta-BHC	1	0.021	U	0.015	0.021	0.021
319-86-8	delta-BHC	1	0.021	U	0.016	0.021	0.021
58-89-9	gamma-BHC (Lindane)	1	0.021	U	0.018	0.021	0.021
76-44-8	Heptachlor	1	0.021	U	0.021	0.021	0.021
309-00-2	Aldrin	1	0.021	U	0.017	0.021	0.021
1024-57-3	Heptachlor epoxide	1	0.021	U	0.016	0.021	0.021
959-98-8	Endosulfan I	1	0.021	U	0.017	0.021	0.021
60-57-1	Dieldrin	1	0.021	U	0.018	0.021	0.021
72-55-9	4,4'-DDE (p,p')	1	0.021	U	0.019	0.021	0.021
72-20-8	Endrin	1	0.021	U	0.020	0.021	0.042
33213-65-9	Endosulfan II	1	0.021	U	0.021	0.021	0.042
72-54-8	4,4'-DDD (p,p')	1	0.021	U	0.020	0.021	0.042
1031-07-8	Endosulfan sulfate	1	0.021	U	0.021	0.021	0.042
50-29-3	4,4'-DDT (p,p')	1	0.032	U	0.019	0.032	0.042
72-43-5	Methoxychlor	1	0.021	U	0.019	0.021	0.042
53494-70-5	Endrin ketone	1	0.021	U	0.018	0.021	0.042
7421-93-4	Endrin aldehyde	1	0.021	U	0.020	0.021	0.042
5103-71-9	alpha-Chlordane	1	0.021	U	0.016	0.021	0.021
5103-74-2	Chlordane (gamma)(trans)	1	0.021	U	0.017	0.021	0.021
8001-35-2	Toxaphene	1	0.526	U	0.345	0.526	0.526
57-74-9	Chlordane	1	0.068	U	0.054	0.068	0.068
15972-60-8	Alachlor	1	0.021	U	0.020	0.021	0.021

**FORM I - ANALYSIS DATA SHEET**  
**SW846 8081B**

TF1-GT-109-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15 Received: 08/30/17 17:50  
 Matrix: Ground Water Laboratory ID: SC38678-05 File ID: 3867805.D  
 Sampled: 08/29/17 16:05 Prepared: 09/01/17 08:00 Analyzed: 09/08/17 02:50  
 % Solids: Preparation: SW846 3510C Initial/Final: 950 ml / 10 ml  
 Batch: 1715010 Sequence: S708006 Calibration: 1709015 Instrument: HPS14  
 Injection Volume (uL): 2.00  
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
319-84-6	alpha-BHC	1	0.021	U	0.012	0.021	0.021
319-85-7	beta-BHC	1	0.021	U	0.015	0.021	0.021
319-86-8	delta-BHC	1	0.021	U	0.016	0.021	0.021
58-89-9	gamma-BHC (Lindane)	1	0.021	U	0.018	0.021	0.021
76-44-8	Heptachlor	1	0.021	U	0.021	0.021	0.021
309-00-2	Aldrin	1	0.021	U	0.017	0.021	0.021
1024-57-3	Heptachlor epoxide	1	0.021	U	0.016	0.021	0.021
959-98-8	Endosulfan I	1	0.021	U	0.017	0.021	0.021
60-57-1	Dieldrin	1	0.021	U	0.018	0.021	0.021
72-55-9	4,4'-DDE (p,p')	1	0.021	U	0.019	0.021	0.021
72-20-8	Endrin	1	0.021	U	0.020	0.021	0.042
33213-65-9	Endosulfan II	1	0.021	U	0.021	0.021	0.042
72-54-8	4,4'-DDD (p,p')	1	0.021	U	0.020	0.021	0.042
1031-07-8	Endosulfan sulfate	1	0.021	U	0.021	0.021	0.042
50-29-3	4,4'-DDT (p,p')	1	0.032	U	0.019	0.032	0.042
72-43-5	Methoxychlor	1	0.021	U	0.019	0.021	0.042
53494-70-5	Endrin ketone	1	0.021	U	0.018	0.021	0.042
7421-93-4	Endrin aldehyde	1	0.021	U	0.020	0.021	0.042
5103-71-9	alpha-Chlordane	1	0.021	U	0.016	0.021	0.021
5103-74-2	Chlordane (gamma)(trans)	1	0.021	U	0.017	0.021	0.021
8001-35-2	Toxaphene	1	0.526	U	0.345	0.526	0.526
57-74-9	Chlordane	1	0.068	U	0.054	0.068	0.068
15972-60-8	Alachlor	1	0.021	U	0.020	0.021	0.021

**FORM I - ANALYSIS DATA SHEET**  
**SW846 8081B**

TF1-DUP-01-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15 Received: 08/30/17 17:50  
 Matrix: Ground Water Laboratory ID: SC38678-06 File ID: 3867806.D  
 Sampled: 08/29/17 12:00 Prepared: 09/01/17 08:00 Analyzed: 09/08/17 03:08  
 % Solids: Preparation: SW846 3510C Initial/Final: 940 ml / 10 ml  
 Batch: 1715010 Sequence: S708006 Calibration: 1709015 Instrument: HPS14  
 Injection Volume (uL): 2.00  
 Reported to: LOD

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
319-84-6	alpha-BHC	1	0.021	U	0.012	0.021	0.021
319-85-7	beta-BHC	1	0.021	U	0.016	0.021	0.021
319-86-8	delta-BHC	1	0.021	U	0.016	0.021	0.021
58-89-9	gamma-BHC (Lindane)	1	0.021	U	0.018	0.021	0.021
76-44-8	Heptachlor	1	0.021	U	0.021	0.021	0.021
309-00-2	Aldrin	1	0.021	U	0.017	0.021	0.021
1024-57-3	Heptachlor epoxide	1	0.021	U	0.016	0.021	0.021
959-98-8	Endosulfan I	1	0.021	U	0.017	0.021	0.021
60-57-1	Dieldrin	1	0.021	U	0.018	0.021	0.021
72-55-9	4,4'-DDE (p,p')	1	0.021	U	0.019	0.021	0.021
72-20-8	Endrin	1	0.021	U	0.020	0.021	0.043
33213-65-9	Endosulfan II	1	0.021	U	0.021	0.021	0.043
72-54-8	4,4'-DDD (p,p')	1	0.021	U	0.020	0.021	0.043
1031-07-8	Endosulfan sulfate	1	0.021	U	0.021	0.021	0.043
50-29-3	4,4'-DDT (p,p')	1	0.032	U	0.019	0.032	0.043
72-43-5	Methoxychlor	1	0.021	U	0.019	0.021	0.043
53494-70-5	Endrin ketone	1	0.021	U	0.018	0.021	0.043
7421-93-4	Endrin aldehyde	1	0.021	U	0.020	0.021	0.043
5103-71-9	alpha-Chlordane	1	0.021	U	0.016	0.021	0.021
5103-74-2	Chlordane (gamma)(trans)	1	0.021	U	0.017	0.021	0.021
8001-35-2	Toxaphene	1	0.532	U	0.349	0.532	0.532
57-74-9	Chlordane	1	0.069	U	0.055	0.069	0.069
15972-60-8	Alachlor	1	0.021	U	0.020	0.021	0.021

# FORM I - ORGANIC ANALYSIS DATA SHEET

Mod EPA 3C/SOP RSK-175

TF1-EBP-MW1001-082917
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Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>		
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>		
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-01</u>	File ID: <u>090717-chanb-009-0</u>	
Sampled: <u>08/29/17 10:44</u>	Prepared: <u>09/07/17 06:00</u>	Analyzed: <u>09/07/17 12:58</u>	
% Solids:	Preparation: <u>General Air Prep</u>	Initial/Final: <u>10 µg / 10 µg</u>	
Batch: <u>1715310</u>	Sequence: <u>S707962</u>	Calibration: <u>1707028</u>	Instrument: <u>Air5</u>
Reported to: <u>LOD</u>			

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
74-82-8	Methane	1	2.20	U	2.16	2.20	2.20
74-84-0	Ethane	1	5.00	U	3.48	5.00	5.00

# FORM I - ORGANIC ANALYSIS DATA SHEET

Mod EPA 3C/SOP RSK-175

TF1-EBP-MW1000-082917
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Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>		
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>		
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-02</u>	File ID: <u>090717-chanb-010-0</u>	
Sampled: <u>08/29/17 14:52</u>	Prepared: <u>09/07/17 06:00</u>	Analyzed: <u>09/07/17 13:32</u>	
% Solids:	Preparation: <u>General Air Prep</u>	Initial/Final: <u>10 µg / 10 µg</u>	
Batch: <u>1715310</u>	Sequence: <u>S707962</u>	Calibration: <u>1707028</u>	Instrument: <u>Air5</u>
Reported to: <u>LOD</u>			

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
74-82-8	Methane	1	2.20	U	2.16	2.20	2.20
74-84-0	Ethane	1	5.00	U	3.48	5.00	5.00



# FORM I - ORGANIC ANALYSIS DATA SHEET

Mod EPA 3C/SOP RSK-175

TF1-MW1006-082917

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>		
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>		
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-03</u>	File ID: <u>090717-chanb-011-0</u>	
Sampled: <u>08/29/17 10:25</u>	Prepared: <u>09/07/17 06:00</u>	Analyzed: <u>09/07/17 14:14</u>	
% Solids:	Preparation: <u>General Air Prep</u>	Initial/Final: <u>10 µg / 10 µg</u>	
Batch: <u>1715310</u>	Sequence: <u>S707962</u>	Calibration: <u>1707028</u>	Instrument: <u>Air5</u>
Reported to: <u>LOD</u>			

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
74-82-8	Methane	1	2.20	U	2.16	2.20	2.20
74-84-0	Ethane	1	5.00	U	3.48	5.00	5.00

# FORM I - ORGANIC ANALYSIS DATA SHEET

Mod EPA 3C/SOP RSK-175

TF1-MW1002-082917

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>				
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>				
Project Number:	<u>112608005-WE15</u>	Received:	<u>08/30/17 17:50</u>				
Matrix:	<u>Ground Water</u>	Laboratory ID:	<u>SC38678-04</u>	File ID:	<u>090717-chanb-012-0</u>		
Sampled:	<u>08/29/17 11:05</u>	Prepared:	<u>09/07/17 06:00</u>	Analyzed:	<u>09/07/17 14:39</u>		
% Solids:		Preparation:	<u>General Air Prep</u>	Initial/Final:	<u>10 µg / 10 µg</u>		
Batch:	<u>1715310</u>	Sequence:	<u>S707962</u>	Calibration:	<u>1707028</u>	Instrument:	<u>Air5</u>
Reported to:	<u>LOD</u>						

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
74-82-8	Methane	1	2.20	U	2.16	2.20	2.20
74-84-0	Ethane	1	5.00	U	3.48	5.00	5.00

# FORM I - ORGANIC ANALYSIS DATA SHEET

Mod EPA 3C/SOP RSK-175

TF1-GT-109-082917
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Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>		
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>		
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-05</u>	File ID: <u>090717-chanb-013-0</u>	
Sampled: <u>08/29/17 16:05</u>	Prepared: <u>09/07/17 06:00</u>	Analyzed: <u>09/07/17 15:15</u>	
% Solids:	Preparation: <u>General Air Prep</u>	Initial/Final: <u>10 µg / 10 µg</u>	
Batch: <u>1715310</u>	Sequence: <u>S707962</u>	Calibration: <u>1707028</u>	Instrument: <u>Air5</u>
Reported to: <u>LOD</u>			

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
74-82-8	Methane	1	2.20	U	2.16	2.20	2.20
74-84-0	Ethane	1	5.00	U	3.48	5.00	5.00

# FORM I - ORGANIC ANALYSIS DATA SHEET

Mod EPA 3C/SOP RSK-175

TF1-DUP-01-082917
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Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>		
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>		
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-06</u>	File ID: <u>090717-chanb-014-0</u>	
Sampled: <u>08/29/17 12:00</u>	Prepared: <u>09/07/17 06:00</u>	Analyzed: <u>09/07/17 15:38</u>	
% Solids:	Preparation: <u>General Air Prep</u>	Initial/Final: <u>10 µg / 10 µg</u>	
Batch: <u>1715310</u>	Sequence: <u>S707962</u>	Calibration: <u>1707028</u>	Instrument: <u>Air5</u>
Reported to: <u>LOD</u>			

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
74-82-8	Methane	1	2.20	U	2.16	2.20	2.20
74-84-0	Ethane	1	5.00	U	3.48	5.00	5.00

# FORM I - INORGANIC ANALYSIS DATA SHEET

**SW846 6010C**

TF1-EBP-MW1001-082917
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Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>	
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>	
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>	
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-01</u>	File ID: <u>20170918-247</u>
Sampled: <u>08/29/17 10:44</u>	Prepared: <u>09/14/17 19:00</u>	
% Solids:	Preparation: <u>SW846 3005A</u>	Initial/Final: <u>50 ml / 50 ml</u>
Batch: <u>1715587</u>	Sequence: <u>S710181</u>	Calibration: <u>1711040</u>
Instrument: <u>ICAP5</u>		
Reported to: <u>LOD</u>		

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	7.57		1	0.0089	0.0300	0.0300
7440-09-7	Potassium	0.873	J	1	0.120	0.250	1.00
7440-23-5	Sodium	22.8		1	0.0785	0.250	0.500
7429-90-5	Aluminum	0.184		1	0.0206	0.0500	0.0500
7440-70-2	Calcium	11.0		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	5.38		1	0.0088	0.0100	0.0200

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**SW846 6010C**

**TF1-EBP-MW1000-082917**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-02                      File ID: 20170918-248  
 Sampled: 08/29/17 14:52                      Prepared: 09/14/17 19:00  
 % Solids:                                      Preparation: SW846 3005A                      Initial/Final: 50 ml / 50 ml  
 Batch: 1715587                      Sequence: S710181                      Calibration: 1711040  
 Instrument: ICAP5  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	13.9		1	0.0089	0.0300	0.0300
7440-09-7	Potassium	0.402	J	1	0.120	0.250	1.00
7440-23-5	Sodium	14.9		1	0.0785	0.250	0.500
7429-90-5	Aluminum	0.0500	U	1	0.0206	0.0500	0.0500
7440-70-2	Calcium	4.62		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	3.90		1	0.0088	0.0100	0.0200

# FORM I - INORGANIC ANALYSIS DATA SHEET

**SW846 6010C**

TF1-MW1006-082917
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Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>	
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>	
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>	
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-03</u>	File ID: <u>20170918-249</u>
Sampled: <u>08/29/17 10:25</u>	Prepared: <u>09/14/17 19:00</u>	
% Solids:	Preparation: <u>SW846 3005A</u>	Initial/Final: <u>50 ml / 50 ml</u>
Batch: <u>1715587</u>	Sequence: <u>S710181</u>	Calibration: <u>1711040</u>
Instrument: <u>ICAP5</u>		
Reported to: <u>LOD</u>		

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	0.154		1	0.0089	0.0300	0.0300
7440-09-7	Potassium	6.96		1	0.120	0.250	1.00
7440-23-5	Sodium	25.8		1	0.0785	0.250	0.500
7429-90-5	Aluminum	0.146		1	0.0206	0.0500	0.0500
7440-70-2	Calcium	23.9		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	3.77		1	0.0088	0.0100	0.0200

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**SW846 6010C**

**TF1-MW1002-082917**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-04                      File ID: 20170918-250  
 Sampled: 08/29/17 11:05                      Prepared: 09/14/17 19:00  
 % Solids:                                      Preparation: SW846 3005A                      Initial/Final: 50 ml / 50 ml  
 Batch: 1715587                      Sequence: S710181                      Calibration: 1711040  
 Instrument: ICAP5  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	17.8		1	0.0089	0.0300	0.0300
7440-09-7	Potassium	1.52		1	0.120	0.250	1.00
7440-23-5	Sodium	22.7		1	0.0785	0.250	0.500
7429-90-5	Aluminum	0.0500	U	1	0.0206	0.0500	0.0500
7440-70-2	Calcium	8.64		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	7.61		1	0.0088	0.0100	0.0200



**FORM I - INORGANIC ANALYSIS DATA SHEET**

**SW846 6010C**

**TF1-GT-109-082917**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-05                      File ID: 20170918-251  
 Sampled: 08/29/17 16:05                      Prepared: 09/14/17 19:00  
 % Solids:                                      Preparation: SW846 3005A                      Initial/Final: 50 ml / 50 ml  
 Batch: 1715587                      Sequence: S710181                      Calibration: 1711040  
 Instrument: ICAP5  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	4.47		1	0.0089	0.0300	0.0300
7440-09-7	Potassium	3.58		1	0.120	0.250	1.00
7440-23-5	Sodium	64.2		1	0.0785	0.250	0.500
7429-90-5	Aluminum	0.0430	J	1	0.0206	0.0500	0.0500
7440-70-2	Calcium	17.6		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	8.34		1	0.0088	0.0100	0.0200

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**SW846 6010C**

**TF1-DUP-01-082917**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-06                      File ID: 20170918-253  
 Sampled: 08/29/17 12:00                      Prepared: 09/14/17 19:00  
 % Solids:                                      Preparation: SW846 3005A                      Initial/Final: 50 ml / 50 ml  
 Batch: 1715587                      Sequence: S710181                      Calibration: 1711040  
 Instrument: ICAP5  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	17.9		1	0.0089	0.0300	0.0300
7440-09-7	Potassium	1.50		1	0.120	0.250	1.00
7440-23-5	Sodium	22.5		1	0.0785	0.250	0.500
7429-90-5	Aluminum	0.0500	U	1	0.0206	0.0500	0.0500
7440-70-2	Calcium	8.65		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	7.58		1	0.0088	0.0100	0.0200

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**EPA 245.1/7470A**

**TF1-EBP-MW1001-082917**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-01                      File ID: 092117-022  
 Sampled: 08/29/17 10:44                      Prepared: 09/14/17 19:00  
 % Solids:                                      Preparation: EPA200/SW7000 Series                      Initial/Final: 20 ml / 20 ml  
 Batch: 1715589                      Sequence: S710178                      Calibration: 1711039  
 Instrument: Mercury4  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-97-6	Mercury	0.00020	U	1	0.00013	0.00020	0.00020

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**EPA 245.1/7470A**

**TF1-EBP-MW1000-082917**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-02                      File ID: 092117-027  
 Sampled: 08/29/17 14:52                      Prepared: 09/14/17 19:00  
 % Solids:                                      Preparation: EPA200/SW7000 Series                      Initial/Final: 20 ml / 20 ml  
 Batch: 1715589                      Sequence: S710178                      Calibration: 1711039  
 Instrument: Mercury4  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-97-6	Mercury	0.00020	U	1	0.00013	0.00020	0.00020

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**EPA 245.1/7470A**

**TF1-MW1006-082917**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-03                      File ID: 092117-028  
 Sampled: 08/29/17 10:25                      Prepared: 09/14/17 19:00  
 % Solids:                                      Preparation: EPA200/SW7000 Series                      Initial/Final: 20 ml / 20 ml  
 Batch: 1715589                      Sequence: S710178                      Calibration: 1711039  
 Instrument: Mercury4  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-97-6	Mercury	0.00020	U	1	0.00013	0.00020	0.00020

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**EPA 245.1/7470A**

**TF1-MW1002-082917**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-04                      File ID: 092117-029  
 Sampled: 08/29/17 11:05                      Prepared: 09/14/17 19:00  
 % Solids:                                      Preparation: EPA200/SW7000 Series                      Initial/Final: 20 ml / 20 ml  
 Batch: 1715589                      Sequence: S710178                      Calibration: 1711039  
 Instrument: Mercury4  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-97-6	Mercury	0.00020	U	1	0.00013	0.00020	0.00020

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**EPA 245.1/7470A**

**TF1-GT-109-082917**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-05                      File ID: 092117-032  
 Sampled: 08/29/17 16:05                      Prepared: 09/14/17 19:00  
 % Solids:                                      Preparation: EPA200/SW7000 Series                      Initial/Final: 20 ml / 20 ml  
 Batch: 1715589                      Sequence: S710178                      Calibration: 1711039  
 Instrument: Mercury4  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-97-6	Mercury	0.00020	U	1	0.00013	0.00020	0.00020

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**EPA 245.1/7470A**

**TF1-DUP-01-082917**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-06                      File ID: 092117-033  
 Sampled: 08/29/17 12:00                      Prepared: 09/14/17 19:00  
 % Solids:                                      Preparation: EPA200/SW7000 Series                      Initial/Final: 20 ml / 20 ml  
 Batch: 1715589                      Sequence: S710178                      Calibration: 1711039  
 Instrument: Mercury4  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-97-6	Mercury	0.00020	U	1	0.00013	0.00020	0.00020



**FORM I - INORGANIC ANALYSIS DATA SHEET**

TF1-EBP-MW1001-082917

**EPA 300.0**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
Project Number: 112608005-WE15    Received: 08/30/17 17:50  
Matrix: Ground Water                      Laboratory ID: SC38678-01                      File ID: 083017-046  
Sampled: 08/29/17 10:44                      Prepared: 08/30/17 13:45                      Analyzed: 08/30/17 21:51  
% Solids:                                      Preparation: General Preparation                      Initial/Final: 5 ml / 5 ml  
Batch: 1714902                      Sequence: S709462                      Calibration: 1710011  
Instrument: IC3  
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	39.7		1	0.0897	0.100	1.00
14808-79-8	Sulfate as SO4	34.3		1	0.307	1.00	1.00
14797-55-8	Nitrate as N	0.101		1	0.009	0.100	0.100

# FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 300.0

TF1-EBP-MW1000-082917

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number:	<u>112608005-WE15</u>	Received:	<u>08/30/17 17:50</u>
Matrix:	<u>Ground Water</u>	Laboratory ID:	<u>SC38678-02</u>
		File ID:	<u>083017-055</u>
Sampled:	<u>08/29/17 14:52</u>	Prepared:	<u>08/30/17 13:45</u>
		Analyzed:	<u>08/31/17 00:15</u>
% Solids:		Preparation:	<u>General Preparation</u>
		Initial/Final:	<u>5 ml / 5 ml</u>
Batch:	<u>1714902</u>	Sequence:	<u>S709462</u>
		Calibration:	<u>1710011</u>
Instrument:	<u>IC3</u>		
Reported to:	<u>LOD</u>		

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	27.3		1	0.0897	0.100	1.00
14808-79-8	Sulfate as SO4	14.9		1	0.307	1.00	1.00
14797-55-8	Nitrate as N	0.011	J	1	0.009	0.100	0.100

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**EPA 300.0**

**TF1-MW1006-082917**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-03                      File ID: 083017-045  
 Sampled: 08/29/17 10:25                      Prepared: 08/30/17 13:45                      Analyzed: 08/30/17 21:35  
 % Solids:                                      Preparation: General Preparation                      Initial/Final: 5 ml / 5 ml  
 Batch: 1714902                      Sequence: S709462                      Calibration: 1710011  
 Instrument: IC3  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	16.7		1	0.0897	0.100	1.00
14808-79-8	Sulfate as SO4	35.9		1	0.307	1.00	1.00
14797-55-8	Nitrate as N	0.349		1	0.009	0.100	0.100

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**EPA 300.0**

**TF1-MW1002-082917**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-04                      File ID: 083017-050  
 Sampled: 08/29/17 11:05                      Prepared: 08/30/17 13:45                      Analyzed: 08/30/17 22:55  
 % Solids:                                      Preparation: General Preparation                      Initial/Final: 5 ml / 5 ml  
 Batch: 1714902                      Sequence: S709462                      Calibration: 1710011  
 Instrument: IC3  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	40.3		1	0.0897	0.100	1.00
14808-79-8	Sulfate as SO4	17.4		1	0.307	1.00	1.00
14797-55-8	Nitrate as N	0.100	U	1	0.009	0.100	0.100

# FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 300.0

TF1-GT-109-082917

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>		
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number:	<u>112608005-WE15</u>	Received:	<u>08/30/17 17:50</u>		
Matrix:	<u>Ground Water</u>	Laboratory ID:	<u>SC38678-05</u>	File ID:	<u>083117-061</u>
Sampled:	<u>08/29/17 16:05</u>	Prepared:	<u>08/31/17 14:00</u>	Analyzed:	<u>09/01/17 01:11</u>
% Solids:		Preparation:	<u>General Preparation</u>	Initial/Final:	<u>5 ml / 5 ml</u>
Batch:	<u>1714974</u>	Sequence:	<u>S709461</u>	Calibration:	<u>1710011</u>
Instrument:	<u>IC3</u>				
Reported to:	<u>LOD</u>				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	108		5	0.448	0.500	5.00
14808-79-8	Sulfate as SO4	5.43		1	0.307	1.00	1.00
14797-55-8	Nitrate as N	0.100	U	1	0.009	0.100	0.100

**FORM I - INORGANIC ANALYSIS DATA SHEET****EPA 300.0**

TF1-DUP-01-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-06                      File ID: 083017-052  
 Sampled: 08/29/17 12:00                      Prepared: 08/30/17 13:45                      Analyzed: 08/30/17 23:27  
 % Solids:                                      Preparation: General Preparation                      Initial/Final: 5 ml / 5 ml  
 Batch: 1714902                      Sequence: S709462                      Calibration: 1710011  
 Instrument: IC3  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	40.0		1	0.0897	0.100	1.00
14808-79-8	Sulfate as SO4	17.4		1	0.307	1.00	1.00
14797-55-8	Nitrate as N	0.100	U	1	0.009	0.100	0.100

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**SM18-22 5210B**

**TF1-EBP-MW1001-082917**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-01                      File ID:  
 Sampled: 08/29/17 10:44                      Prepared: 08/31/17 08:50                      Analyzed: 09/06/17 12:58  
 % Solids:                                      Preparation: General Preparation                      Initial/Final: 300 ml / 300 ml  
 Batch: 1714966                      Sequence: S707901                      Calibration: 1707032  
 Instrument: Spec 1  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
	Biochemical Oxygen Demand (5-day)	2.97	U	1	2.74	2.97	3.00

# FORM I - INORGANIC ANALYSIS DATA SHEET

SM18-22 5210B

TF1-EBP-MW1000-082917
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Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>	
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>	
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>	
Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-02</u>	File ID:
Sampled: <u>08/29/17 14:52</u>	Prepared: <u>08/31/17 08:50</u>	Analyzed: <u>09/06/17 12:58</u>
% Solids:	Preparation: <u>General Preparation</u>	Initial/Final: <u>300 ml / 300 ml</u>
Batch: <u>1714966</u>	Sequence: <u>S707901</u>	Calibration: <u>1707032</u>
Instrument: <u>Spec 1</u>		
Reported to: <u>LOD</u>		

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
	Biochemical Oxygen Demand (5-day)	2.97	U	1	2.74	2.97	3.00



**FORM I - INORGANIC ANALYSIS DATA SHEET****SM18-22 5210B**

TF1-MW1006-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
Project Number: 112608005-WE15    Received: 08/30/17 17:50  
Matrix: Ground Water                      Laboratory ID: SC38678-03                      File ID:  
Sampled: 08/29/17 10:25                      Prepared: 08/31/17 08:50                      Analyzed: 09/06/17 12:58  
% Solids:                                      Preparation: General Preparation                      Initial/Final: 300 ml / 300 ml  
Batch: 1714966                      Sequence: S707901                      Calibration: 1707032  
Instrument: Spec 1  
Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
	Biochemical Oxygen Demand (5-day)	2.97	U	1	2.74	2.97	3.00

**FORM I - INORGANIC ANALYSIS DATA SHEET**  
**SM18-22 5210B**

TF1-MW1002-082917

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number:	<u>112608005-WE15</u>	Received:	<u>08/30/17 17:50</u>
Matrix:	<u>Ground Water</u>	Laboratory ID:	<u>SC38678-04</u>
Sampled:	<u>08/29/17 11:05</u>	Prepared:	<u>08/31/17 08:50</u>
% Solids:		Preparation:	<u>General Preparation</u>
Batch:	<u>1714966</u>	Sequence:	<u>S707901</u>
Instrument:	<u>Spec 1</u>	Calibration:	<u>1707032</u>
Reported to:	<u>LOD</u>		

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
	Biochemical Oxygen Demand (5-day)	2.97	U	1	2.74	2.97	3.00

# FORM I - INORGANIC ANALYSIS DATA SHEET

SM18-22 5210B

TF1-GT-109-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15      Received: 08/30/17 17:50  
 Matrix: Ground Water      Laboratory ID: SC38678-05      File ID:  
 Sampled: 08/29/17 16:05      Prepared: 08/31/17 08:50      Analyzed: 09/06/17 12:58  
 % Solids:      Preparation: General Preparation      Initial/Final: 300 ml / 300 ml  
 Batch: 1714966      Sequence: S707901      Calibration: 1707032  
 Instrument: Spec 1  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
	Biochemical Oxygen Demand (5-day)	2.97	U	1	2.74	2.97	3.00

**FORM I - INORGANIC ANALYSIS DATA SHEET****SM18-22 5210B**

TF1-DUP-01-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-06                      File ID:  
 Sampled: 08/29/17 12:00                      Prepared: 08/31/17 08:50                      Analyzed: 09/06/17 12:58  
 % Solids:                                      Preparation: General Preparation                      Initial/Final: 300 ml / 300 ml  
 Batch: 1714966                      Sequence: S707901                      Calibration: 1707032  
 Instrument: Spec 1  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
	Biochemical Oxygen Demand (5-day)	2.97	U	1	2.74	2.97	3.00

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**SM5310B (00, 11)**

**TF1-EBP-MW1001-082917**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-01                      File ID: 1715538-006  
 Sampled: 08/29/17 10:44                      Prepared: 09/12/17 08:12                      Analyzed: 09/12/17 10:23  
 % Solids:                                      Preparation: General Preparation                      Initial/Final: 40 ml / 40 ml  
 Batch: 1715538                      Sequence: S708136                      Calibration: 1706085  
 Instrument: TOC4  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	1.38		1	0.238	0.500	1.00

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**SM5310B (00, 11)**

**TF1-EBP-MW1000-082917**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-02                      File ID: 1715538-007  
 Sampled: 08/29/17 14:52                      Prepared: 09/12/17 08:12                      Analyzed: 09/12/17 10:39  
 % Solids:                                      Preparation: General Preparation                      Initial/Final: 40 ml / 40 ml  
 Batch: 1715538                      Sequence: S708136                      Calibration: 1706085  
 Instrument: TOC4  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	0.665	J	1	0.238	0.500	1.00

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**SM5310B (00, 11)**

**TF1-MW1006-082917**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-03                      File ID: 1715538-008  
 Sampled: 08/29/17 10:25                      Prepared: 09/12/17 08:12                      Analyzed: 09/12/17 10:55  
 % Solids:                                      Preparation: General Preparation                      Initial/Final: 40 ml / 40 ml  
 Batch: 1715538                      Sequence: S708136                      Calibration: 1706085  
 Instrument: TOC4  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	1.46		1	0.238	0.500	1.00

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**SM5310B (00, 11)**

**TF1-MW1002-082917**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-04                      File ID: 1715538-009  
 Sampled: 08/29/17 11:05                      Prepared: 09/12/17 08:12                      Analyzed: 09/12/17 11:12  
 % Solids:                                      Preparation: General Preparation                      Initial/Final: 40 ml / 40 ml  
 Batch: 1715538                      Sequence: S708136                      Calibration: 1706085  
 Instrument: TOC4  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	0.942	J	1	0.238	0.500	1.00



**FORM I - INORGANIC ANALYSIS DATA SHEET**

**SM5310B (00, 11)**

**TF1-GT-109-082917**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-05                      File ID: 1715538-010  
 Sampled: 08/29/17 16:05                      Prepared: 09/12/17 08:12                      Analyzed: 09/12/17 11:28  
 % Solids:                                      Preparation: General Preparation                      Initial/Final: 40 ml / 40 ml  
 Batch: 1715538                      Sequence: S708136                      Calibration: 1706085  
 Instrument: TOC4  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	2.40		1	0.238	0.500	1.00

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**SM5310B (00, 11)**

TF1-DUP-01-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-06                      File ID: 1715538-011  
 Sampled: 08/29/17 12:00                      Prepared: 09/12/17 08:12                      Analyzed: 09/12/17 11:44  
 % Solids:                                      Preparation: General Preparation                      Initial/Final: 40 ml / 40 ml  
 Batch: 1715538                      Sequence: S708136                      Calibration: 1706085  
 Instrument: TOC4  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	0.964	J	1	0.238	0.500	1.00

# FORM I - INORGANIC ANALYSIS DATA SHEET

SM2320B (97, 11)

TF1-EBP-MW1001-082917
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Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>		
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>		
Project Number:	<u>112608005-WE15</u>	Received:	<u>08/30/17 17:50</u>		
Matrix:	<u>Ground Water</u>	Laboratory ID:	<u>SC38678-01</u>	File ID:	<u>DTOOL Alk 2017-09-01 1418-00</u>
Sampled:	<u>08/29/17 10:44</u>	Prepared:	<u>09/01/17 10:30</u>	Analyzed:	<u>09/01/17 14:31</u>
% Solids:		Preparation:	<u>General Preparation</u>	Initial/Final:	<u>100 ml / 50 ml</u>
Batch:	<u>1715035</u>	Sequence:		Calibration:	
Instrument:	<u>Titration</u>				
Reported to:	<u>LOD</u>				

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	12.6		1	0.524	1.50	2.00

**FORM I - INORGANIC ANALYSIS DATA SHEET****SM2320B (97, 11)**

TF1-EBP-MW1000-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-02                      File ID: DTOOL Alk 2017-08-31 1901-02(  
 Sampled: 08/29/17 14:52                      Prepared: 08/31/17 09:56                      Analyzed: 08/31/17 20:26  
 % Solids:                                      Preparation: General Preparation                      Initial/Final: 50 ml / 50 ml  
 Batch: 1714942                      Sequence:                                      Calibration:  
 Instrument: Titration  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	33.9		1	1.05	3.00	4.00

# FORM I - INORGANIC ANALYSIS DATA SHEET

SM2320B (97, 11)

TF1-MW1006-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                  Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-03                      File ID: DTOOL Alk 2017-08-31 1901-021  
 Sampled: 08/29/17 10:25                      Prepared: 08/31/17 09:56                      Analyzed: 08/31/17 20:29  
 % Solids:    Preparation: General Preparation                      Initial/Final: 50 ml / 50 ml  
 Batch: 1714942                      Sequence:    Calibration:  
 Instrument: Titration  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	73.7		1	1.05	3.00	4.00

# FORM I - INORGANIC ANALYSIS DATA SHEET

SM2320B (97, 11)

TF1-MW1002-082917

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number:	<u>112608005-WE15</u>	Received:	<u>08/30/17 17:50</u>
Matrix:	<u>Ground Water</u>	Laboratory ID:	<u>SC38678-04</u>
		File ID:	<u>DTOOL Alk 2017-08-31 1901-02</u>
Sampled:	<u>08/29/17 11:05</u>	Prepared:	<u>08/31/17 09:56</u>
% Solids:		Analyzed:	<u>08/31/17 20:34</u>
		Preparation:	<u>General Preparation</u>
		Initial/Final:	<u>50 ml / 50 ml</u>
Batch:	<u>1714942</u>	Sequence:	
		Calibration:	
Instrument:	<u>Titration</u>		
Reported to:	<u>LOD</u>		

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	60.5		1	1.05	3.00	4.00

# FORM I - INORGANIC ANALYSIS DATA SHEET

**SM2320B (97, 11)**

**TF1-GT-109-082917**

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>	Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Project Number: <u>112608005-WE15</u>	Received: <u>08/30/17 17:50</u>	Matrix: <u>Ground Water</u>	Laboratory ID: <u>SC38678-05</u> File ID: <u>DTOOL Alk 2017-08-31 1901-024</u>
Sampled: <u>08/29/17 16:05</u>	Prepared: <u>08/31/17 09:56</u>	% Solids:	Analyzed: <u>08/31/17 20:44</u>
Batch: <u>1714942</u>	Preparation: <u>General Preparation</u>	Sequence:	Initial/Final: <u>50 ml / 50 ml</u>
Instrument: <u>Titrator</u>	Calibration:		Reported to: <u>LOD</u>

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	74.8		1	1.05	3.00	4.00

**FORM I - INORGANIC ANALYSIS DATA SHEET**

**SM2320B (97, 11)**

**TF1-DUP-01-082917**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Project Number: 112608005-WE15    Received: 08/30/17 17:50  
 Matrix: Ground Water                      Laboratory ID: SC38678-06                      File ID: DTOOL Alk 2017-08-31 1901-02  
 Sampled: 08/29/17 12:00                      Prepared: 08/31/17 09:56                      Analyzed: 08/31/17 20:49  
 % Solids:                                      Preparation: General Preparation                      Initial/Final: 50 ml / 50 ml  
 Batch: 1714942                      Sequence:                                      Calibration:  
 Instrument: Titrator  
 Reported to: LOD

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	61.0		1	1.05	3.00	4.00



Sample Description: SC38678-01 Grab Water

ELLE Sample # WW 9188306

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Group # 1845406

Account # 30891

Collected: 08/29/2017 10:44

Eurofins Spectrum Analytical

Submitted: 09/01/2017 09:55

646 Camp Ave

Reported: 09/18/2017 16:53

North Kingstown RI 02582

O3601 SDG#: TNO36-01

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
<b>GC Petroleum Hydrocarbons</b>		<b>SW-846 8015B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
02740	C8-C44	n.a.	0.21	0.052	0.10	0.21	1
02740	Total TPH	n.a.	0.21	0.052	0.10	0.21	1
<b>Misc. Organics</b>		<b>EPA 537 Version 1.1 Modified</b>	<b>ng/l</b>	<b>ng/l</b>	<b>ng/l</b>	<b>ng/l</b>	
10954	Perfluorobutanesulfonate	375-73-5	60	0.8	3	3	1
10954	Perfluorobutanoic Acid	375-22-4	110	3	10	10	1
10954	Perfluorodecanesulfonate	335-77-3	6 U	2	6	6	1
10954	Perfluorodecanoic acid	335-76-2	0.7 J	0.5	2	2	1
10954	Perfluorododecanoic acid	307-55-1	2 U	0.5	2	2	1
10954	Perfluoroheptanesulfonate	375-92-8	4 J	2	6	6	1
10954	Perfluoroheptanoic acid	375-85-9	110	0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	230	1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	350	0.6	2	2	1
10954	Perfluorononanoic acid	375-95-1	2 U	0.6	2	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	170	2	6	6	1
10954	Perfluorooctanoic acid	335-67-1	160	0.6	2	2	1
10954	Perfluoropentanoic Acid	2706-90-3	400	0.5	2	2	1
10954	Perfluorotetradecanoic acid	376-06-7	2 U	0.5	2	2	1
10954	Perfluorotridecanoic acid	72629-94-8	2 U	0.5	2	2	1
10954	Perfluoroundecanoic acid	2058-94-8	3 U	1	3	3	1
10954	PFOA	754-91-6	9 U	3	9	9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

### Sample Comments

State of Massachusetts Laboratory Non-Potable Water Certification M-PA009

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02740	Custom TPH with Ranges (Water)	SW-846 8015B	1	172480005A	09/07/2017 22:32	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172480005A	09/05/2017 17:00	Ryan J Dowdy	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17246002	09/08/2017 11:07	Devon M Whooley	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17246002	09/05/2017 08:25	Pamela Rothharpt	1

\*=This limit was used in the evaluation of the final result

Sample Description: SC38678-02 Grab Water

ELLE Sample # WW 9188307

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Group # 1845406

Account # 30891

Collected: 08/29/2017 14:52

Eurofins Spectrum Analytical

Submitted: 09/01/2017 09:55

646 Camp Ave

Reported: 09/18/2017 16:53

North Kingstown RI 02582

O3602 SDG#: TNO36-02

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
<b>GC Petroleum Hydrocarbons</b>		<b>SW-846 8015B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
02740	C8-C44	n.a.	0.088 J	0.051	0.10	0.20	1
02740	Total TPH	n.a.	0.088 J	0.051	0.10	0.20	1
<b>Misc. Organics</b>		<b>EPA 537 Version 1.1 Modified</b>	<b>ng/l</b>	<b>ng/l</b>	<b>ng/l</b>	<b>ng/l</b>	
10954	Perfluorobutanesulfonate	375-73-5	53	0.8	3	3	1
10954	Perfluorobutanoic Acid	375-22-4	84	3	10	10	1
10954	Perfluorodecanesulfonate	335-77-3	6 U	2	6	6	1
10954	Perfluorodecanoic acid	335-76-2	2 J	0.5	2	2	1
10954	Perfluorododecanoic acid	307-55-1	2 U	0.5	2	2	1
10954	Perfluoroheptanesulfonate	375-92-8	6 U	2	6	6	1
10954	Perfluoroheptanoic acid	375-85-9	80	0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	53	1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	290	0.6	2	2	1
10954	Perfluorononanoic acid	375-95-1	2 U	0.6	2	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	6 U	2	6	6	1
10954	Perfluorooctanoic acid	335-67-1	140	0.6	2	2	1
10954	Perfluoropentanoic Acid	2706-90-3	290	0.5	2	2	1
10954	Perfluorotetradecanoic acid	376-06-7	2 U	0.5	2	2	1
10954	Perfluorotridecanoic acid	72629-94-8	2 U	0.5	2	2	1
10954	Perfluoroundecanoic acid	2058-94-8	3 U	1	3	3	1
10954	PFOA	754-91-6	9 U	3	9	9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

### Sample Comments

State of Massachusetts Laboratory Non-Potable Water Certification M-PA009

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02740	Custom TPH with Ranges (Water)	SW-846 8015B	1	172480005A	09/07/2017 22:54	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172480005A	09/05/2017 17:00	Ryan J Dowdy	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17246002	09/11/2017 18:08	Devon M Whooley	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17246002	09/05/2017 08:25	Pamela Rothharpt	1

\*=This limit was used in the evaluation of the final result

Sample Description: SC38678-03 Grab Water

ELLE Sample # WW 9188308

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Group # 1845406

Account # 30891

Collected: 08/29/2017 10:25

Eurofins Spectrum Analytical

Submitted: 09/01/2017 09:55

646 Camp Ave

Reported: 09/18/2017 16:53

North Kingstown RI 02582

03603 SDG#: TNO36-03

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
<b>GC Petroleum Hydrocarbons</b>		<b>SW-846 8015B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
02740	C8-C44	n.a.	0.10 U	0.051	0.10	0.20	1
02740	Total TPH	n.a.	0.10 U	0.051	0.10	0.20	1
<b>Misc. Organics</b>		<b>EPA 537 Version 1.1 Modified</b>	<b>ng/l</b>	<b>ng/l</b>	<b>ng/l</b>	<b>ng/l</b>	
10954	Perfluorobutanesulfonate	375-73-5	0.8 J	0.8	3	3	1
10954	Perfluorobutanoic Acid	375-22-4	10 U	3	10	10	1
10954	Perfluorodecanesulfonate	335-77-3	6 U	2	6	6	1
10954	Perfluorodecanoic acid	335-76-2	2 U	0.5	2	2	1
10954	Perfluorododecanoic acid	307-55-1	2 U	0.5	2	2	1
10954	Perfluoroheptanesulfonate	375-92-8	6 U	2	6	6	1
10954	Perfluoroheptanoic acid	375-85-9	2 J	0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	2 J	1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	4	0.6	2	2	1
10954	Perfluorononanoic acid	375-95-1	2 U	0.6	2	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	5 J	2	6	6	1
10954	Perfluorooctanoic acid	335-67-1	3	0.6	2	2	1
10954	Perfluoropentanoic Acid	2706-90-3	4	0.5	2	2	1
10954	Perfluorotetradecanoic acid	376-06-7	2 U	0.5	2	2	1
10954	Perfluorotridecanoic acid	72629-94-8	2 U	0.5	2	2	1
10954	Perfluoroundecanoic acid	2058-94-8	3 U	1	3	3	1
10954	PFOA	754-91-6	9 U	3	9	9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

### Sample Comments

State of Massachusetts Laboratory Non-Potable Water Certification M-PA009

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02740	Custom TPH with Ranges (Water)	SW-846 8015B	1	172480005A	09/07/2017 23:15	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172480005A	09/05/2017 17:00	Ryan J Dowdy	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17246002	09/08/2017 12:29	Devon M Whooley	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17246002	09/05/2017 08:25	Pamela Rothharpt	1

\*=This limit was used in the evaluation of the final result

Sample Description: SC38678-04 Grab Water

ELLE Sample # WW 9188309

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Group # 1845406

Account # 30891

Collected: 08/29/2017 11:05

Eurofins Spectrum Analytical

Submitted: 09/01/2017 09:55

646 Camp Ave

Reported: 09/18/2017 16:53

North Kingstown RI 02582

O3604 SDG#: TNO36-04

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
<b>GC Petroleum Hydrocarbons</b>		<b>SW-846 8015B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
02740	C8-C44	n.a.	0.072 J	0.057	0.11	0.23	1
02740	Total TPH	n.a.	0.072 J	0.057	0.11	0.23	1
<b>Misc. Organics</b>		<b>EPA 537 Version 1.1 Modified</b>	<b>ng/l</b>	<b>ng/l</b>	<b>ng/l</b>	<b>ng/l</b>	
10954	Perfluorobutanesulfonate	375-73-5	17	0.8	3	3	1
10954	Perfluorobutanoic Acid	375-22-4	24	3	10	10	1
10954	Perfluorodecanesulfonate	335-77-3	6 U	2	6	6	1
10954	Perfluorodecanoic acid	335-76-2	2 U	0.5	2	2	1
10954	Perfluorododecanoic acid	307-55-1	2 U	0.5	2	2	1
10954	Perfluoroheptanesulfonate	375-92-8	6 U	2	6	6	1
10954	Perfluoroheptanoic acid	375-85-9	14	0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	100	1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	84	0.6	2	2	1
10954	Perfluorononanoic acid	375-95-1	2 U	0.6	2	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	9	2	6	6	1
10954	Perfluorooctanoic acid	335-67-1	46	0.6	2	2	1
10954	Perfluoropentanoic Acid	2706-90-3	62	0.5	2	2	1
10954	Perfluorotetradecanoic acid	376-06-7	2 U	0.5	2	2	1
10954	Perfluorotridecanoic acid	72629-94-8	2 U	0.5	2	2	1
10954	Perfluoroundecanoic acid	2058-94-8	3 U	1	3	3	1
10954	PFOA	754-91-6	9 U	3	9	9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

### Sample Comments

State of Massachusetts Laboratory Non-Potable Water Certification M-PA009

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02740	Custom TPH with Ranges (Water)	SW-846 8015B	1	172480005A	09/07/2017 23:37	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172480005A	09/05/2017 17:00	Ryan J Dowdy	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17246002	09/08/2017 12:49	Devon M Whooley	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17246002	09/05/2017 08:25	Pamela Rothharpt	1

\*=This limit was used in the evaluation of the final result

Sample Description: SC38678-05 Grab Water

ELLE Sample # WW 9188310

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Group # 1845406

Account # 30891

Collected: 08/29/2017 16:05

Eurofins Spectrum Analytical

Submitted: 09/01/2017 09:55

646 Camp Ave

Reported: 09/18/2017 16:53

North Kingstown RI 02582

O3605 SDG#: TNO36-05

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
<b>GC Petroleum Hydrocarbons</b>		<b>SW-846 8015B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
02740	C8-C44	n.a.	0.14 J	0.056	0.11	0.22	1
02740	Total TPH	n.a.	0.14 J	0.056	0.11	0.22	1
<b>Misc. Organics</b>		<b>EPA 537 Version 1.1 Modified</b>	<b>ng/l</b>	<b>ng/l</b>	<b>ng/l</b>	<b>ng/l</b>	
10954	Perfluorobutanesulfonate	375-73-5	10	0.8	3	3	1
10954	Perfluorobutanoic Acid	375-22-4	14	3	10	10	1
10954	Perfluorodecanesulfonate	335-77-3	6 U	2	6	6	1
10954	Perfluorodecanoic acid	335-76-2	3	0.5	2	2	1
10954	Perfluorododecanoic acid	307-55-1	2 U	0.5	2	2	1
10954	Perfluoroheptanesulfonate	375-92-8	6 U	2	6	6	1
10954	Perfluoroheptanoic acid	375-85-9	15	0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	120	1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	38	0.6	2	2	1
10954	Perfluorononanoic acid	375-95-1	5	0.6	2	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	100	2	6	6	1
10954	Perfluorooctanoic acid	335-67-1	40	0.6	2	2	1
10954	Perfluoropentanoic Acid	2706-90-3	31	0.5	2	2	1
10954	Perfluorotetradecanoic acid	376-06-7	2 U	0.5	2	2	1
10954	Perfluorotridecanoic acid	72629-94-8	2 U	0.5	2	2	1
10954	Perfluoroundecanoic acid	2058-94-8	3 U	1	3	3	1
10954	PFOA	754-91-6	9 U	3	9	9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

### Sample Comments

State of Massachusetts Laboratory Non-Potable Water Certification M-PA009

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02740	Custom TPH with Ranges (Water)	SW-846 8015B	1	172480005A	09/07/2017 23:59	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172480005A	09/05/2017 17:00	Ryan J Dowdy	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17246002	09/08/2017 13:10	Devon M Whooley	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17246002	09/05/2017 08:25	Pamela Rothharpt	1

\*=This limit was used in the evaluation of the final result

Sample Description: SC38678-06 Grab Water

ELLE Sample # WW 9188311

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Group # 1845406

Account # 30891

Collected: 08/29/2017 12:00

Eurofins Spectrum Analytical

Submitted: 09/01/2017 09:55

646 Camp Ave

Reported: 09/18/2017 16:53

North Kingstown RI 02582

O3606 SDG#: TNO36-06

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
<b>GC Petroleum Hydrocarbons</b>		<b>SW-846 8015B</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
02740	C8-C44	n.a.	0.11 U	0.056	0.11	0.22	1
02740	Total TPH	n.a.	0.11 U	0.056	0.11	0.22	1
<b>Misc. Organics</b>		<b>EPA 537 Version 1.1 Modified</b>	<b>ng/l</b>	<b>ng/l</b>	<b>ng/l</b>	<b>ng/l</b>	
10954	Perfluorobutanesulfonate	375-73-5	16	0.8	3	3	1
10954	Perfluorobutanoic Acid	375-22-4	25	3	10	10	1
10954	Perfluorodecanesulfonate	335-77-3	6 U	2	6	6	1
10954	Perfluorodecanoic acid	335-76-2	2 U	0.5	2	2	1
10954	Perfluorododecanoic acid	307-55-1	2 U	0.5	2	2	1
10954	Perfluoroheptanesulfonate	375-92-8	6 U	2	6	6	1
10954	Perfluoroheptanoic acid	375-85-9	15	0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	97	1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	76	0.6	2	2	1
10954	Perfluorononanoic acid	375-95-1	2 U	0.6	2	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	8	2	6	6	1
10954	Perfluorooctanoic acid	335-67-1	43	0.6	2	2	1
10954	Perfluoropentanoic Acid	2706-90-3	61	0.5	2	2	1
10954	Perfluorotetradecanoic acid	376-06-7	2 U	0.5	2	2	1
10954	Perfluorotridecanoic acid	72629-94-8	2 U	0.5	2	2	1
10954	Perfluoroundecanoic acid	2058-94-8	3 U	1	3	3	1
10954	PFOA	754-91-6	9 U	3	9	9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

### Sample Comments

State of Massachusetts Laboratory Non-Potable Water Certification M-PA009

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02740	Custom TPH with Ranges (Water)	SW-846 8015B	1	172480005A	09/08/2017 00:21	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172480005A	09/05/2017 17:00	Ryan J Dowdy	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17246002	09/08/2017 13:31	Devon M Whooley	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17246002	09/05/2017 08:25	Pamela Rothharpt	1

\*=This limit was used in the evaluation of the final result

Sample Description: SC38678-08 Grab Water

ELLE Sample # WW 9188312

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Group # 1845406

Account # 30891

Collected: 08/29/2017 11:05

Eurofins Spectrum Analytical

Submitted: 09/01/2017 09:55

646 Camp Ave

Reported: 09/18/2017 16:53

North Kingstown RI 02582

O3607 SDG#: TNO36-07

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
<b>Misc. Organics</b>							
<b>EPA 537 Version</b>							
<b>1.1 Modified</b>							
			ng/l	ng/l	ng/l	ng/l	
10954	Perfluorobutanesulfonate	375-73-5	3 U	0.8	3	3	1
10954	Perfluorobutanoic Acid	375-22-4	10 U	3	10	10	1
10954	Perfluorodecanesulfonate	335-77-3	6 U	2	6	6	1
10954	Perfluorodecanoic acid	335-76-2	2 U	0.5	2	2	1
10954	Perfluorododecanoic acid	307-55-1	2 U	0.5	2	2	1
10954	Perfluoroheptanesulfonate	375-92-8	6 U	2	6	6	1
10954	Perfluoroheptanoic acid	375-85-9	2 U	0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	3 U	1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	2 U	0.6	2	2	1
10954	Perfluorononanoic acid	375-95-1	2 U	0.6	2	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	6 U	2	6	6	1
10954	Perfluorooctanoic acid	335-67-1	2 U	0.6	2	2	1
10954	Perfluoropentanoic Acid	2706-90-3	2 U	0.5	2	2	1
10954	Perfluorotetradecanoic acid	376-06-7	2 U	0.5	2	2	1
10954	Perfluorotridecanoic acid	72629-94-8	2 U	0.5	2	2	1
10954	Perfluoroundecanoic acid	2058-94-8	3 U	1	3	3	1
10954	PFOA	754-91-6	9 U	3	9	9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

### Sample Comments

State of Massachusetts Laboratory Non-Potable Water Certification M-PA009

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17246002	09/08/2017 13:51	Devon M Whooley	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17246002	09/05/2017 08:25	Pamela Rothharpt	1

\*=This limit was used in the evaluation of the final result

Sample Description: SC38678-01 Groundwater

ELLE Sample # WW 9240365

Project Name: SC38678

ELLE Group # 1857430

Account # 30891

Collected: 08/29/2017 10:44

Eurofins Spectrum Analytical

Submitted: 09/30/2017 09:55

11 Almgren Drive

Reported: 10/12/2017 16:22

Agawan MA 01001

67801 SDG#: SAI26-01

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
<b>Metals</b>		<b>SW-846 6020A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
06024	Antimony	7440-36-0	0.0010 U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.0020 U	0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0057	0.00072	0.0020	0.0040	1
06027	Beryllium	7440-41-7	0.00012 J	0.000071	0.00025	0.0010	1
06028	Cadmium	7440-43-9	0.00050 U	0.00015	0.00050	0.0010	1
06031	Chromium	7440-47-3	0.0013 J	0.00087	0.0020	0.0040	1
06032	Cobalt	7440-48-4	0.105	0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.0114	0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.00025 J	0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	1.68	0.00090	0.0020	0.0040	1
06038	Molybdenum	7439-98-7	0.00050 U	0.00025	0.00050	0.0010	1
06039	Nickel	7440-02-0	0.0559	0.0010	0.0020	0.0040	1
06041	Selenium	7782-49-2	0.0010 U	0.00050	0.0010	0.0040	1
06042	Silver	7440-22-4	0.00025 U	0.00015	0.00025	0.0010	1
06045	Thallium	7440-28-0	0.00025 U	0.00012	0.00025	0.0010	1
06048	Vanadium	7440-62-2	0.00050 U	0.00021	0.00050	0.0010	1
06049	Zinc	7440-66-6	0.0663	0.0039	0.0075	0.0300	1

### Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06024	Antimony	SW-846 6020A	1	172771063901A	10/09/2017 19:06	Bradley M Berlot	1
06025	Arsenic	SW-846 6020A	1	172771063901A	10/09/2017 19:06	Bradley M Berlot	1
06026	Barium	SW-846 6020A	1	172771063901D	10/12/2017 06:48	Sarah L Burt	1
06027	Beryllium	SW-846 6020A	1	172771063901A	10/09/2017 19:06	Bradley M Berlot	1
06028	Cadmium	SW-846 6020A	1	172771063901A	10/09/2017 19:06	Bradley M Berlot	1
06031	Chromium	SW-846 6020A	1	172771063901A	10/09/2017 19:06	Bradley M Berlot	1
06032	Cobalt	SW-846 6020A	1	172771063901A	10/09/2017 19:06	Bradley M Berlot	1
06033	Copper	SW-846 6020A	1	172771063901A	10/09/2017 19:06	Bradley M Berlot	1
06035	Lead	SW-846 6020A	1	172771063901A	10/09/2017 19:06	Bradley M Berlot	1
06037	Manganese	SW-846 6020A	1	172771063901A	10/09/2017 19:06	Bradley M Berlot	1
06038	Molybdenum	SW-846 6020A	1	172771063901C	10/09/2017 19:06	Bradley M Berlot	1
06039	Nickel	SW-846 6020A	1	172771063901A	10/12/2017 06:48	Sarah L Burt	1
06041	Selenium	SW-846 6020A	1	172771063901B	10/09/2017 19:06	Bradley M Berlot	1
06042	Silver	SW-846 6020A	1	172771063901A	10/09/2017 19:06	Bradley M Berlot	1
06045	Thallium	SW-846 6020A	1	172771063901A	10/09/2017 19:06	Bradley M Berlot	1
06048	Vanadium	SW-846 6020A	1	172771063901A	10/09/2017 19:06	Bradley M Berlot	1
06049	Zinc	SW-846 6020A	1	172771063901A	10/09/2017 19:06	Bradley M Berlot	1
10639	ICPMS - Water, 3020A - U4	SW-846 3020A	1	172771063901	10/05/2017 06:47	James L Mertz	1

\*=This limit was used in the evaluation of the final result



Sample Description: SC38678-02 Groundwater

ELLE Sample # WW 9240366

Project Name: SC38678

ELLE Group # 1857430

Account # 30891

Collected: 08/29/2017 14:52

Eurofins Spectrum Analytical

Submitted: 09/30/2017 09:55

11 Almgren Drive

Reported: 10/12/2017 16:22

Agawan MA 01001

67802 SDG#: SAI26-02

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
<b>Metals</b>		<b>SW-846 6020A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
06024	Antimony	7440-36-0	0.0010 U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.0020 U	0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0041	0.00072	0.0020	0.0040	1
06027	Beryllium	7440-41-7	0.00015 J	0.000071	0.00025	0.0010	1
06028	Cadmium	7440-43-9	0.00050 U	0.00015	0.00050	0.0010	1
06031	Chromium	7440-47-3	0.0020 U	0.00087	0.0020	0.0040	1
06032	Cobalt	7440-48-4	0.0020	0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.0010 U	0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.00079 J	0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	0.650	0.00090	0.0020	0.0040	1
06038	Molybdenum	7439-98-7	0.00050 U	0.00025	0.00050	0.0010	1
06039	Nickel	7440-02-0	0.0024 J	0.0010	0.0020	0.0040	1
06041	Selenium	7782-49-2	0.0010 U	0.00050	0.0010	0.0040	1
06042	Silver	7440-22-4	0.00025 U	0.00015	0.00025	0.0010	1
06045	Thallium	7440-28-0	0.00025 U	0.00012	0.00025	0.0010	1
06048	Vanadium	7440-62-2	0.00050 U	0.00021	0.00050	0.0010	1
06049	Zinc	7440-66-6	0.0075 U	0.0039	0.0075	0.0300	1

### Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06024	Antimony	SW-846 6020A	1	172771063901A	10/09/2017 19:09	Bradley M Berlot	1
06025	Arsenic	SW-846 6020A	1	172771063901A	10/09/2017 19:09	Bradley M Berlot	1
06026	Barium	SW-846 6020A	1	172771063901D	10/12/2017 06:50	Sarah L Burt	1
06027	Beryllium	SW-846 6020A	1	172771063901A	10/09/2017 19:09	Bradley M Berlot	1
06028	Cadmium	SW-846 6020A	1	172771063901A	10/09/2017 19:09	Bradley M Berlot	1
06031	Chromium	SW-846 6020A	1	172771063901A	10/09/2017 19:09	Bradley M Berlot	1
06032	Cobalt	SW-846 6020A	1	172771063901A	10/09/2017 19:09	Bradley M Berlot	1
06033	Copper	SW-846 6020A	1	172771063901A	10/09/2017 19:09	Bradley M Berlot	1
06035	Lead	SW-846 6020A	1	172771063901A	10/09/2017 19:09	Bradley M Berlot	1
06037	Manganese	SW-846 6020A	1	172771063901A	10/09/2017 19:09	Bradley M Berlot	1
06038	Molybdenum	SW-846 6020A	1	172771063901C	10/09/2017 19:09	Bradley M Berlot	1
06039	Nickel	SW-846 6020A	1	172771063901A	10/12/2017 06:50	Sarah L Burt	1
06041	Selenium	SW-846 6020A	1	172771063901B	10/09/2017 19:09	Bradley M Berlot	1
06042	Silver	SW-846 6020A	1	172771063901A	10/09/2017 19:09	Bradley M Berlot	1
06045	Thallium	SW-846 6020A	1	172771063901A	10/09/2017 19:09	Bradley M Berlot	1
06048	Vanadium	SW-846 6020A	1	172771063901A	10/09/2017 19:09	Bradley M Berlot	1
06049	Zinc	SW-846 6020A	1	172771063901A	10/09/2017 19:09	Bradley M Berlot	1
10639	ICPMS - Water, 3020A - U4	SW-846 3020A	1	172771063901	10/05/2017 06:47	James L Mertz	1

\*=This limit was used in the evaluation of the final result

Sample Description: SC38678-03 Groundwater

ELLE Sample # WW 9240367

Project Name: SC38678

ELLE Group # 1857430

Account # 30891

Collected: 08/29/2017 10:25

Eurofins Spectrum Analytical

Submitted: 09/30/2017 09:55

11 Almgren Drive

Reported: 10/12/2017 16:22

Agawan MA 01001

67803 SDG#: SAI26-03

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
<b>Metals</b>							
		<b>SW-846 6020A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
06024	Antimony	7440-36-0	0.0058	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.0098	0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0185	0.00072	0.0020	0.0040	1
06027	Beryllium	7440-41-7	0.00025 U	0.000071	0.00025	0.0010	1
06028	Cadmium	7440-43-9	0.00050 U	0.00015	0.00050	0.0010	1
06031	Chromium	7440-47-3	0.0740	0.00087	0.0020	0.0040	1
06032	Cobalt	7440-48-4	0.00018 J	0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.00068 J	0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.00012 J	0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	0.0058	0.00090	0.0020	0.0040	1
06038	Molybdenum	7439-98-7	0.0103	0.00025	0.00050	0.0010	1
06039	Nickel	7440-02-0	0.0020 U	0.0010	0.0020	0.0040	1
06041	Selenium	7782-49-2	0.0016 J	0.00050	0.0010	0.0040	1
06042	Silver	7440-22-4	0.00025 U	0.00015	0.00025	0.0010	1
06045	Thallium	7440-28-0	0.00025 U	0.00012	0.00025	0.0010	1
06048	Vanadium	7440-62-2	0.0130	0.00021	0.00050	0.0010	1
06049	Zinc	7440-66-6	0.0075 U	0.0039	0.0075	0.0300	1

### Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06024	Antimony	SW-846 6020A	1	172771063901A	10/09/2017 19:13	Bradley M Berlot	1
06025	Arsenic	SW-846 6020A	1	172771063901A	10/09/2017 19:13	Bradley M Berlot	1
06026	Barium	SW-846 6020A	1	172771063901D	10/12/2017 06:52	Sarah L Burt	1
06027	Beryllium	SW-846 6020A	1	172771063901A	10/09/2017 19:13	Bradley M Berlot	1
06028	Cadmium	SW-846 6020A	1	172771063901A	10/09/2017 19:13	Bradley M Berlot	1
06031	Chromium	SW-846 6020A	1	172771063901A	10/09/2017 19:13	Bradley M Berlot	1
06032	Cobalt	SW-846 6020A	1	172771063901A	10/09/2017 19:13	Bradley M Berlot	1
06033	Copper	SW-846 6020A	1	172771063901A	10/09/2017 19:13	Bradley M Berlot	1
06035	Lead	SW-846 6020A	1	172771063901A	10/09/2017 19:13	Bradley M Berlot	1
06037	Manganese	SW-846 6020A	1	172771063901A	10/12/2017 06:52	Sarah L Burt	1
06038	Molybdenum	SW-846 6020A	1	172771063901C	10/09/2017 19:13	Bradley M Berlot	1
06039	Nickel	SW-846 6020A	1	172771063901A	10/09/2017 19:13	Bradley M Berlot	1
06041	Selenium	SW-846 6020A	1	172771063901B	10/09/2017 19:13	Bradley M Berlot	1
06042	Silver	SW-846 6020A	1	172771063901A	10/09/2017 19:13	Bradley M Berlot	1
06045	Thallium	SW-846 6020A	1	172771063901A	10/09/2017 19:13	Bradley M Berlot	1
06048	Vanadium	SW-846 6020A	1	172771063901A	10/09/2017 19:13	Bradley M Berlot	1
06049	Zinc	SW-846 6020A	1	172771063901A	10/09/2017 19:13	Bradley M Berlot	1
10639	ICPMS - Water, 3020A - U4	SW-846 3020A	1	172771063901	10/05/2017 06:47	James L Mertz	1

\*=This limit was used in the evaluation of the final result

Sample Description: SC38678-04 Groundwater

ELLE Sample # WW 9240368

Project Name: SC38678

ELLE Group # 1857430

Account # 30891

Collected: 08/29/2017 11:05

Eurofins Spectrum Analytical

Submitted: 09/30/2017 09:55

11 Almgren Drive

Reported: 10/12/2017 16:22

Agawan MA 01001

67804 SDG#: SAI26-04

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
<b>Metals</b>		<b>SW-846 6020A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
06024	Antimony	7440-36-0	0.0010 U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.0018 J	0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0116	0.00072	0.0020	0.0040	1
06027	Beryllium	7440-41-7	0.00012 J	0.000071	0.00025	0.0010	1
06028	Cadmium	7440-43-9	0.00050 U	0.00015	0.00050	0.0010	1
06031	Chromium	7440-47-3	0.0020 U	0.00087	0.0020	0.0040	1
06032	Cobalt	7440-48-4	0.0286	0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.0010 U	0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.00025 U	0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	2.04	0.00090	0.0020	0.0040	1
06038	Molybdenum	7439-98-7	0.00050 U	0.00025	0.00050	0.0010	1
06039	Nickel	7440-02-0	0.0470	0.0010	0.0020	0.0040	1
06041	Selenium	7782-49-2	0.0010 U	0.00050	0.0010	0.0040	1
06042	Silver	7440-22-4	0.00025 U	0.00015	0.00025	0.0010	1
06045	Thallium	7440-28-0	0.00025 U	0.00012	0.00025	0.0010	1
06048	Vanadium	7440-62-2	0.00050 U	0.00021	0.00050	0.0010	1
06049	Zinc	7440-66-6	0.0787	0.0039	0.0075	0.0300	1

### Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06024	Antimony	SW-846 6020A	1	172771063901A	10/09/2017 19:16	Bradley M Berlot	1
06025	Arsenic	SW-846 6020A	1	172771063901A	10/09/2017 19:16	Bradley M Berlot	1
06026	Barium	SW-846 6020A	1	172771063901D	10/12/2017 06:54	Sarah L Burt	1
06027	Beryllium	SW-846 6020A	1	172771063901A	10/09/2017 19:16	Bradley M Berlot	1
06028	Cadmium	SW-846 6020A	1	172771063901A	10/09/2017 19:16	Bradley M Berlot	1
06031	Chromium	SW-846 6020A	1	172771063901A	10/09/2017 19:16	Bradley M Berlot	1
06032	Cobalt	SW-846 6020A	1	172771063901A	10/09/2017 19:16	Bradley M Berlot	1
06033	Copper	SW-846 6020A	1	172771063901A	10/09/2017 19:16	Bradley M Berlot	1
06035	Lead	SW-846 6020A	1	172771063901A	10/09/2017 19:16	Bradley M Berlot	1
06037	Manganese	SW-846 6020A	1	172771063901A	10/09/2017 19:16	Bradley M Berlot	1
06038	Molybdenum	SW-846 6020A	1	172771063901C	10/09/2017 19:16	Bradley M Berlot	1
06039	Nickel	SW-846 6020A	1	172771063901A	10/12/2017 06:54	Sarah L Burt	1
06041	Selenium	SW-846 6020A	1	172771063901B	10/09/2017 19:16	Bradley M Berlot	1
06042	Silver	SW-846 6020A	1	172771063901A	10/09/2017 19:16	Bradley M Berlot	1
06045	Thallium	SW-846 6020A	1	172771063901A	10/09/2017 19:16	Bradley M Berlot	1
06048	Vanadium	SW-846 6020A	1	172771063901A	10/09/2017 19:16	Bradley M Berlot	1
06049	Zinc	SW-846 6020A	1	172771063901A	10/09/2017 19:16	Bradley M Berlot	1
10639	ICPMS - Water, 3020A - U4	SW-846 3020A	1	172771063901	10/05/2017 06:47	James L Mertz	1

\*=This limit was used in the evaluation of the final result

Sample Description: SC38678-05 Groundwater

ELLE Sample # WW 9240369

Project Name: SC38678

ELLE Group # 1857430

Account # 30891

Collected: 08/29/2017 16:05

Eurofins Spectrum Analytical

Submitted: 09/30/2017 09:55

11 Almgren Drive

Reported: 10/12/2017 16:22

Agawan MA 01001

67805 SDG#: SAI26-05

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
<b>Metals</b>		<b>SW-846 6020A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
06024	Antimony	7440-36-0	0.0010 U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.0036 J	0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0099	0.00072	0.0020	0.0040	1
06027	Beryllium	7440-41-7	0.00025 U	0.000071	0.00025	0.0010	1
06028	Cadmium	7440-43-9	0.00050 U	0.00015	0.00050	0.0010	1
06031	Chromium	7440-47-3	0.0020 U	0.00087	0.0020	0.0040	1
06032	Cobalt	7440-48-4	0.0134	0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.0010 U	0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.00025 U	0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	1.23	0.00090	0.0020	0.0040	1
06038	Molybdenum	7439-98-7	0.00034 J	0.00025	0.00050	0.0010	1
06039	Nickel	7440-02-0	0.0107	0.0010	0.0020	0.0040	1
06041	Selenium	7782-49-2	0.0010 U	0.00050	0.0010	0.0040	1
06042	Silver	7440-22-4	0.00025 U	0.00015	0.00025	0.0010	1
06045	Thallium	7440-28-0	0.00025 U	0.00012	0.00025	0.0010	1
06048	Vanadium	7440-62-2	0.00050 U	0.00021	0.00050	0.0010	1
06049	Zinc	7440-66-6	0.0071 J	0.0039	0.0075	0.0300	1

### Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06024	Antimony	SW-846 6020A	1	172771063901A	10/09/2017 19:19	Bradley M Berlot	1
06025	Arsenic	SW-846 6020A	1	172771063901A	10/09/2017 19:19	Bradley M Berlot	1
06026	Barium	SW-846 6020A	1	172771063901D	10/12/2017 06:59	Sarah L Burt	1
06027	Beryllium	SW-846 6020A	1	172771063901A	10/09/2017 19:19	Bradley M Berlot	1
06028	Cadmium	SW-846 6020A	1	172771063901A	10/09/2017 19:19	Bradley M Berlot	1
06031	Chromium	SW-846 6020A	1	172771063901A	10/09/2017 19:19	Bradley M Berlot	1
06032	Cobalt	SW-846 6020A	1	172771063901A	10/09/2017 19:19	Bradley M Berlot	1
06033	Copper	SW-846 6020A	1	172771063901A	10/09/2017 19:19	Bradley M Berlot	1
06035	Lead	SW-846 6020A	1	172771063901A	10/09/2017 19:19	Bradley M Berlot	1
06037	Manganese	SW-846 6020A	1	172771063901A	10/09/2017 19:19	Bradley M Berlot	1
06038	Molybdenum	SW-846 6020A	1	172771063901C	10/09/2017 19:19	Bradley M Berlot	1
06039	Nickel	SW-846 6020A	1	172771063901A	10/12/2017 06:59	Sarah L Burt	1
06041	Selenium	SW-846 6020A	1	172771063901B	10/09/2017 19:19	Bradley M Berlot	1
06042	Silver	SW-846 6020A	1	172771063901A	10/09/2017 19:19	Bradley M Berlot	1
06045	Thallium	SW-846 6020A	1	172771063901A	10/09/2017 19:19	Bradley M Berlot	1
06048	Vanadium	SW-846 6020A	1	172771063901A	10/09/2017 19:19	Bradley M Berlot	1
06049	Zinc	SW-846 6020A	1	172771063901A	10/09/2017 19:19	Bradley M Berlot	1
10639	ICPMS - Water, 3020A - U4	SW-846 3020A	1	172771063901	10/05/2017 06:47	James L Mertz	1

\*=This limit was used in the evaluation of the final result

Sample Description: SC38678-06 Groundwater

ELLE Sample # WW 9240370

Project Name: SC38678

ELLE Group # 1857430

Account # 30891

Collected: 08/29/2017 12:00

Eurofins Spectrum Analytical

Submitted: 09/30/2017 09:55

11 Almgren Drive

Reported: 10/12/2017 16:22

Agawan MA 01001

67806 SDG#: SAI26-06

CAT No.	Analysis Name	CAS Number	Result	Detection Limit*	Limit of Detection	Limit of Quantitation	DF
<b>Metals</b>		<b>SW-846 6020A</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
06024	Antimony	7440-36-0	0.0010 U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.0022 J	0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0109	0.00072	0.0020	0.0040	1
06027	Beryllium	7440-41-7	0.00012 J	0.000071	0.00025	0.0010	1
06028	Cadmium	7440-43-9	0.00050 U	0.00015	0.00050	0.0010	1
06031	Chromium	7440-47-3	0.0020 U	0.00087	0.0020	0.0040	1
06032	Cobalt	7440-48-4	0.0279	0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.0010 U	0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.00025 U	0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	1.93	0.00090	0.0020	0.0040	1
06038	Molybdenum	7439-98-7	0.00050 U	0.00025	0.00050	0.0010	1
06039	Nickel	7440-02-0	0.0457	0.0010	0.0020	0.0040	1
06041	Selenium	7782-49-2	0.0010 U	0.00050	0.0010	0.0040	1
06042	Silver	7440-22-4	0.00025 U	0.00015	0.00025	0.0010	1
06045	Thallium	7440-28-0	0.00025 U	0.00012	0.00025	0.0010	1
06048	Vanadium	7440-62-2	0.00050 U	0.00021	0.00050	0.0010	1
06049	Zinc	7440-66-6	0.0864	0.0039	0.0075	0.0300	1

### Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06024	Antimony	SW-846 6020A	1	172771063901A	10/09/2017 19:22	Bradley M Berlot	1
06025	Arsenic	SW-846 6020A	1	172771063901A	10/09/2017 19:22	Bradley M Berlot	1
06026	Barium	SW-846 6020A	1	172771063901D	10/12/2017 07:01	Sarah L Burt	1
06027	Beryllium	SW-846 6020A	1	172771063901A	10/09/2017 19:22	Bradley M Berlot	1
06028	Cadmium	SW-846 6020A	1	172771063901A	10/09/2017 19:22	Bradley M Berlot	1
06031	Chromium	SW-846 6020A	1	172771063901A	10/09/2017 19:22	Bradley M Berlot	1
06032	Cobalt	SW-846 6020A	1	172771063901A	10/09/2017 19:22	Bradley M Berlot	1
06033	Copper	SW-846 6020A	1	172771063901A	10/09/2017 19:22	Bradley M Berlot	1
06035	Lead	SW-846 6020A	1	172771063901A	10/09/2017 19:22	Bradley M Berlot	1
06037	Manganese	SW-846 6020A	1	172771063901A	10/09/2017 19:22	Bradley M Berlot	1
06038	Molybdenum	SW-846 6020A	1	172771063901C	10/09/2017 19:22	Bradley M Berlot	1
06039	Nickel	SW-846 6020A	1	172771063901A	10/12/2017 07:01	Sarah L Burt	1
06041	Selenium	SW-846 6020A	1	172771063901B	10/09/2017 19:22	Bradley M Berlot	1
06042	Silver	SW-846 6020A	1	172771063901A	10/09/2017 19:22	Bradley M Berlot	1
06045	Thallium	SW-846 6020A	1	172771063901A	10/09/2017 19:22	Bradley M Berlot	1
06048	Vanadium	SW-846 6020A	1	172771063901A	10/09/2017 19:22	Bradley M Berlot	1
06049	Zinc	SW-846 6020A	1	172771063901A	10/09/2017 19:22	Bradley M Berlot	1
10639	ICPMS - Water, 3020A - U4	SW-846 3020A	1	172771063901	10/05/2017 06:47	James L Mertz	1

\*=This limit was used in the evaluation of the final result

**APPENDIX C**

**SUPPORT DOCUMENTATION**

ANALYTE	ORIGINAL	DUPLICATE	RL	RPD	RPD > 30%
PENTADEC AFLUORO OCTANOIC ACID	46	43	2	6.74	FALSE
PERFLUOROBUTANE SULFONATE	17	16	3	6.06	FALSE
PERFLUOROBUTANOIC ACID	24	25	10	4.08	FALSE
PERFLUOROHEPTANOIC ACID	14	15	2	6.90	FALSE
PERFLUOROHEXANE SULFONATE	100	97	3	3.05	FALSE
PERFLUOROHEXANOIC ACID	84	76	2	10.00	FALSE
PERFLUORO OCTANE SULFONIC ACID	9	8	6	11.76	FALSE
PERFLUOROPENTANOIC ACID	62	61	2	1.63	FALSE

ORIGINAL SAMPLE CONC >2xRL	DUPLICATE SAMPLE CONC >2xRL	DIFFERENCE >2xRL
TRUE	TRUE	FALSE
TRUE	TRUE	FALSE
TRUE	TRUE	FALSE
TRUE	TRUE	FALSE
TRUE	TRUE	FALSE
TRUE	TRUE	TRUE
FALSE	FALSE	FALSE
TRUE	TRUE	FALSE

**SDG SC38678**

**TF1-DUP-01-082917/TF1-MW1002-082917**



Spectrum Analytical

# CHAIN OF CUSTODY RECORD

Page \_\_\_\_ of \_\_\_\_

SC 38678 JBY

### Special Handling:

Standard TAT - 7 to 10 business days

Rush TAT - Date Needed: \_\_\_\_\_

All TATs subject to laboratory approval  
Min. 24-hr notification needed for rushes  
Samples disposed after 30 days unless otherwise instructed.

Report To: TETRA TECH  
5 INDUSTRIAL WAY  
SUITE 2B  
SALEM NH 03079  
Telephone #: 603-328-1469  
Project Mgr: STEVE PARKER

Invoice To: MIKE DREYDEN  
EARTH TOXICS INC.  
8275 S. EASTERN AVE  
LAS VEGAS NV 89123  
P.O No.: \_\_\_\_\_ Quote #: \_\_\_\_\_

Project No: 112608005-WE15  
Site Name: TANK FARM 1, NAUSTA NEWPORT  
Location: PORTSMOUTH State: RI  
Sampler(s): D. WHALEN, W. PRYOR  
K. LAMONTAGNE

F=Field Filtered 1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid  
7=CH<sub>3</sub>OH 8=NaHSO<sub>4</sub> 9=Deionized Water 10=H<sub>3</sub>PO<sub>4</sub> 11= \_\_\_\_\_ 12= \_\_\_\_\_

### List Preservative Code below:

2 4 2 10

### QA/QC Reporting Notes:

\* additional charges may apply

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water

O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= QC X2= \_\_\_\_\_ X3= \_\_\_\_\_

G= Grab

C=Composite

### Containers

### Analysis

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	TPH (80/SD)	SOC/PAH (8270D)	TAL Metals (6020A/7470A)	TCL VOCs (8260)	Anions (9030A) BOD (5210B), A.H. (2320B)	TOC (5310B)	Dissolved Gases (RSK-175)	PFAS (537 Mod.)	Check if chlorinated	
SC 38678 01	TFI-EBP-MW1001-082917	8/29/17	1044	G	GW	7	6		4	✓	✓	✓	✓	✓	✓	✓	✓	✓	<input type="checkbox"/>
02	TFI-EBP-MW1010-082917		1452	G	GW	7	6		4	✓	✓	✓	✓	✓	✓	✓	✓	✓	<input type="checkbox"/>
03	TFI-MW-1006-082917		1025	G	GW	7	6		4	✓	✓	✓	✓	✓	✓	✓	✓	✓	<input type="checkbox"/>
04	TFI-MW-1002-082917		1105	G	GW	7	6		4	✓	✓	✓	✓	✓	✓	✓	✓	✓	<input type="checkbox"/>
05	TFI-GT-109-082917		1605	G	GW	7	8		4	✓	✓	✓	✓	✓	✓	✓	✓	✓	<input type="checkbox"/>
06	TFI-DUP-01-082917		1200	G	GW	7	6		4	✓	✓	✓	✓	✓	✓	✓	✓	✓	<input type="checkbox"/>
07	TFI-TB-082917		0800	G	XI	1							✓						<input type="checkbox"/>
08	TFI-FRB-082917		1105	G	XI				1								✓		<input type="checkbox"/>

MA DEP MCP CAM Report?  Yes  No  
 CT DPH RCP Report?  Yes  No  
 Standard  No QC  
 DQA\*  
 ASP A\*  ASP B\*  
 NJ Reduced\*  NJ Full\*  
 Tier II\*  Tier IV\*  
 Other: \_\_\_\_\_  
 State-specific reporting standards: \_\_\_\_\_

Relinquished by:

Received by:

Date:

Time:

Temp °C

EDD format: \_\_\_\_\_

E-mail to: stephen.parker@tetra.tech.com

Observed

Correction Factor

Corrected

IR ID #

Condition upon receipt: Custody Seals:  Present  Intact  Broken

Ambient  Ice  Refrigerated  DI VOA Frozen  Soil Jar Frozen





Spectrum Analytical

# CHAIN OF CUSTODY RECORD

Page \_\_\_\_ of \_\_\_\_

### Special Handling:

- Standard TAT - 7 to 10 business days
- Rush TAT - Date Needed: \_\_\_\_\_

All TATs subject to laboratory approval  
 Min. 24-hr notification needed for rushes  
 Samples disposed after 30 days unless otherwise instructed.

Report To: TETRA TECH  
5 INDUSTRIAL WAY  
SUITE 2B  
SALEM NH 03079

Telephone #: \_\_\_\_\_  
 Project Mgr: \_\_\_\_\_

Invoice To: MIKE DREYDEN  
EARTH TOXICS INC  
8275 S. EASTERN AVE  
LAS VEGAS NV 89123

P.O. No.: \_\_\_\_\_ Quote #: \_\_\_\_\_

Project No: 112608005-LWEIS

Site Name: TANK FARM 1, NAUSTA NEWPORT

Location: PORTSMOUTH State: RI

Sampler(s): D. WHALEN, W. PRYOR  
K. LAMONTAGNE

F=Field Filtered 1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid  
 7=CH<sub>3</sub>OH 8=NaHSO<sub>4</sub> 9=Deionized Water 10=H<sub>3</sub>PO<sub>4</sub> 11= \_\_\_\_\_ 12= \_\_\_\_\_

### List Preservative Code below:

### QA/QC Reporting Notes:

\* additional charges may apply

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water

O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= QC X2= \_\_\_\_\_ X3= \_\_\_\_\_

G=Grab

C=Composite

### Containers

### Analysis

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Pesticides (EPA 816)	PCB (Aroclors, PCBs)	Check if chlorinated
SC38678-01	TFI-ERP-MW1001-082917	8/29/17	1044	G	GW	7	6		4	✓		<input type="checkbox"/>
02	TFI-ERP-MW1000-082917		1452	G	GW	7	6		4	✓		<input type="checkbox"/>
03	TFI-MW-1006-082917		1025	G	GW	7	6		4	✓		<input type="checkbox"/>
04	TFI-MW-1002-082917		1105	G	GW	7	6		4	✓		<input type="checkbox"/>
05	TFI-GT-109-082917		1605	G	GW	7	8		4	✓	✓	<input type="checkbox"/>
06	TFI-DUP-01-082917		1200	G	GW	7	6		4	✓		<input type="checkbox"/>
07	TFI-TB-082917		0800	G	XI	1						<input type="checkbox"/>
08	TFI-FRB-082917		1105	G	XI				1			<input type="checkbox"/>

- MA DEP MCP CAM Report?  Yes  No  
 CT DPH RCP Report?  Yes  No  
 Standard  No QC  
 DQA\*  
 ASP A\*  ASP B\*  
 NJ Reduced\*  NJ Full\*  
 Tier II\*  Tier IV\*  
 Other: \_\_\_\_\_  
 State-specific reporting standards:

Relinquished by:

Received by:

Date:

Time:

Temp °C

EDD format:

E-mail to:

Donald Whalen  
DW@TetraTech

Dawid Dec  
jen

8/30/17 11:00  
8/30/17 17:50

Observed 1.4  
 Correction Factor 0  
 Corrected 1.4  
 IR ID# 01

Stephen.parker@tetratech.com

Condition upon receipt: Custody Seals:  Present  Intact  Broken

Ambient  Iced  Refrigerated  DI VOA Frozen  Soil Jar Frozen

## SDGSC38678

### SC38678 General Narrative

Eurofins Spectrum Analytical, Inc. submits the enclosed data package for the site characterization of WE15 Tank Farm 1 NAVSTA Newport. Samples submitted for analysis by Tetra Tech, Inc. - Salem, NH. Under this deliverable, analysis results are presented for two QC samples and six Ground Water samples submitted on August 30th, 2017.

The analyses were performed according to USEPA SW846 method analytical guidelines and other methods. In addition the analyses were performed according to criteria dictated by National Environmental Laboratory Accreditation Conference (NELAC) and in accordance with project contract requirements and chain of custody forms.

Observations and/or deviations observed for specific analyses can be found in the analysis narrative:

#### 1. Overall Observations:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual Integrations are coded to provide the data reviewer justification for such action. The codes are labeled on corresponding raw data for GC/MS and GC analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Scanned copies of logbook pages are included, with the originals are archived within the laboratory.

The pages in this report have been numbered consecutively, starting with the general narrative and ending with the page labeled as "Last Page of data Report".

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this electronic data package, has been authorized by the laboratory director as verified by the following signature.



Christina A. White  
Laboratory Director

Date: 11/30/2017

## CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112608005-WE15

SDG #: SC38678

### I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

### II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

### III. METHODS

Analyses were performed according to SW846 8260C.

### IV. PREPARATION

Aqueous samples were prepared according to SW846 5030 Water MS.

### V. INSTRUMENTATION

The following equipment was used to analyze SW846 8260C:

HPV3 details: GC/MS EST Centurion Autosampler  
EST Evolution Sample Concentrator  
Supelco vocarb 3000 (K) trap and conditions used  
Agilent 7890A series Gas Chromatograph  
Agilent 5975C Mass Selective Detector  
Column - DB-VRX, 20 meters, 0.18mm diameter, 1.0um film

### VI. ANALYSIS

#### A. Calibration:

All quality control samples were within the acceptance criteria with the following exceptions:

In calibration 1709004:

Analyte quantified by quadratic type calibration: 1,2,3-Trichlorobenzene, 2-Hexanone (MBK), Bromoform, cis-1,3-Dichloropropene, Dibromochloromethane, trans-1,3-Dichloropropene

This affected the following samples:

TF1-TB-082917, TF1-MW1006-082917, TF1-MW1002-082917, TF1-GT-109-082917, TF1-EBP-MW1001-082917, TF1-EBP-MW1000-082917, TF1-DUP-01-082917, S707890-CCV2, S707890-CCV1, S707839-ICV1, 1715197-BSD1, 1715197-BS1, 1715197-BLK1

#### B. Blanks:

All blanks were within the acceptance criteria.

**C. Surrogates:**

All method criteria were met.

**D. Spikes:**

**1. Laboratory Control Samples (LCS):**

All method criteria were met.

**2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):**

No matrix spike or matrix spike duplicates were analyzed.

**E. Duplicates:**

No client requested duplicate. However, the method criteria may have been fulfilled with non-SDG source samples.

**F. Internal Standards:**

Internal standards were within the acceptance criteria.

**G. Samples:**

All method criteria were met.

# FORM II - SURROGATE STANDARD RECOVERY SUMMARY

**SW846 8260C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
<b>Blank (1715197-BLK1)</b>	102	104	102	104			0
<b>LCS (1715197-BS1)</b>	99	101	101	104			0
<b>LCS Dup (1715197-BSD1)</b>	101	105	101	104			0
<b>TF1-EBP-MW1001-082917 (SC38678-01)</b>	100	100	103	103			0
<b>TF1-EBP-MW1000-082917 (SC38678-02)</b>	100	101	100	106			0
<b>TF1-MW1006-082917 (SC38678-03)</b>	100	101	101	105			0
<b>TF1-MW1002-082917 (SC38678-04)</b>	102	102	104	103			0
<b>TF1-GT-109-082917 (SC38678-05)</b>	102	103	103	106			0
<b>TF1-DUP-01-082917 (SC38678-06)</b>	101	101	104	103			0
<b>TF1-TB-082917 (SC38678-07)</b>	101	102	100	102			0

**Control Limits**

S1 = 1,2-Dichloroethane-d4	81 - 118
S2 = 4-Bromofluorobenzene	85 - 114
S3 = Dibromofluoromethane	80 - 119
S4 = Toluene-d8	89 - 112

# Column to be used to flag recovery values

\* Values outside of QC limits

# FORM VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

**SW846 8260C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA  
 Client: Tetra Tech, Inc. - Salem, NH  
 Sequence: S707890  
 Matrix: Aqueous  
 Analyzed: 09/06/17 10:13

SDG: SC38678  
 Project: WE15 Tank Farm 1 NAVSTA Newport  
 Instrument: HPV3  
 Calibration: 1709004  
 File ID: LCS0906A.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	456491	11.15	457250	8.80	930651	5.48						
Upper Limit	912982	11.65	914500	9.30	1861302	5.98						
Lower Limit	228246	10.65	228625	8.30	465326	4.98						
Sample ID												
Calibration Check (S707890-CCV2)	461160	11.146	463545	8.799	950842	5.477						
Blank (1715197-BLK1)	429688	11.146	431580	8.803	915572	5.477						
LCS (1715197-BS1)	456491	11.146	457250	8.803	930651	5.481						
LCS Dup (1715197-BSD1)	459415	11.146	450999	8.799	939534	5.477						
TF1-EBP-MW1001-082917 (SC38678-01)	448512	11.142	447251	8.799	928288	5.477						
TF1-EBP-MW1000-082917 (SC38678-02)	438196	11.146	453146	8.798	932768	5.481						
TF1-MW1006-082917 (SC38678-03)	436822	11.146	437221	8.798	902834	5.477						
TF1-MW1002-082917 (SC38678-04)	433592	11.146	437782	8.799	918113	5.477						
TF1-GT-109-082917 (SC38678-05)	432751	11.146	431378	8.803	891237	5.481						
TF1-DUP-01-082917 (SC38678-06)	430071	11.146	440771	8.799	906185	5.481						
TF1-TB-082917 (SC38678-07)	425593	11.146	428256	8.803	909025	5.481						

IS1 = 1,4-Dichlorobenzene-d4

IS2 = Chlorobenzene-d5

IS3 = Fluorobenzene

# Column to be used to flag internal standard area values

\* Values outside of QC limits

Area Upper Limit = 200% of internal standard area

Area Lower Limit = 50% of internal standard area

RT Limit = +/- 0.50

**FORM IV - METHOD BLANK SUMMARY**  
**SW846 8260C**

**1715197-BLK1**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
Matrix: Aqueous                      Laboratory ID: 1715197-BLK1                      File ID: BK30906A.D  
   Preparation: SW846 5030 Water MS                      Initial/Final: 5 ml / 5 ml  
Analyzed: 09/06/17 09:15                      Instrument: HPV3  
Batch: 1715197                      Sequence: S707890                      Calibration: 1709004

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1715197-BS1	LCS0906A.D	09/06/17	10:13
LCS Dup	1715197-BSD1	LCS0906B.D	09/06/17	10:42
TF1-EBP-MW1001-082917	SC38678-01	3867801.D	09/06/17	13:35
TF1-EBP-MW1000-082917	SC38678-02	3867802.D	09/06/17	14:04
TF1-MW1006-082917	SC38678-03	3867803.D	09/06/17	14:33
TF1-MW1002-082917	SC38678-04	3867804.D	09/06/17	15:02
TF1-GT-109-082917	SC38678-05	3867805.D	09/06/17	15:31
TF1-DUP-01-082917	SC38678-06	3867806.D	09/06/17	16:00
TF1-TB-082917	SC38678-07	3867807.D	09/06/17	16:28

**FORM I - ORGANIC ANALYSIS DATA SHEET**  
**SW846 8260C**

1715197-BLK1

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport  
 Matrix: Aqueous Laboratory ID: 1715197-BLK1 File ID: BK30906A.D  
 Preparation: SW846 5030 Water MS Initial/Final: 5 ml / 5 ml  
 Analyzed: 09/06/17 09:15 Instrument: HPV3  
 Batch: 1715197 Sequence: S707890 Calibration: 1709004

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	1	1.0	U	0.5	1.0	1.0
67-64-1	Acetone	1	2.0	U	0.8	2.0	10.0
71-43-2	Benzene	1	0.5	U	0.3	0.5	1.0
74-97-5	Bromochloromethane	1	1.0	U	0.3	1.0	1.0
75-27-4	Bromodichloromethane	1	0.5	U	0.4	0.5	0.5
75-25-2	Bromoform	1	1.0	U	0.4	1.0	1.0
74-83-9	Bromomethane	1	2.0	U	0.9	2.0	2.0
78-93-3	2-Butanone (MEK)	1	2.0	U	1.1	2.0	2.0
75-15-0	Carbon disulfide	1	1.0	U	0.4	1.0	2.0
56-23-5	Carbon tetrachloride	1	1.0	U	0.4	1.0	1.0
108-90-7	Chlorobenzene	1	0.5	U	0.2	0.5	1.0
75-00-3	Chloroethane	1	2.0	U	0.6	2.0	2.0
67-66-3	Chloroform	1	1.0	U	0.3	1.0	1.0
74-87-3	Chloromethane	1	1.0	U	0.4	1.0	2.0
96-12-8	1,2-Dibromo-3-chloropropane	1	2.0	U	0.9	2.0	2.0
124-48-1	Dibromochloromethane	1	0.5	U	0.3	0.5	0.5
106-93-4	1,2-Dibromoethane (EDB)	1	0.5	U	0.2	0.5	0.5
95-50-1	1,2-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
541-73-1	1,3-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
106-46-7	1,4-Dichlorobenzene	1	0.5	U	0.3	0.5	1.0
75-71-8	Dichlorodifluoromethane (Freon12)	1	2.0	U	0.6	2.0	2.0
75-34-3	1,1-Dichloroethane	1	1.0	U	0.3	1.0	1.0
107-06-2	1,2-Dichloroethane	1	1.0	U	0.3	1.0	1.0
75-35-4	1,1-Dichloroethene	1	1.0	U	0.7	1.0	1.0
156-59-2	cis-1,2-Dichloroethene	1	0.5	U	0.3	0.5	1.0
156-60-5	trans-1,2-Dichloroethene	1	1.0	U	0.4	1.0	1.0
78-87-5	1,2-Dichloropropane	1	1.0	U	0.3	1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	1	0.5	U	0.4	0.5	0.5
10061-02-6	trans-1,3-Dichloropropene	1	0.5	U	0.3	0.5	0.5
100-41-4	Ethylbenzene	1	0.5	U	0.3	0.5	1.0
591-78-6	2-Hexanone (MBK)	1	2.0	U	0.5	2.0	2.0
98-82-8	Isopropylbenzene	1	1.0	U	0.4	1.0	1.0



**FORM I - ORGANIC ANALYSIS DATA SHEET**  
**SW846 8260C**

**1715197-BLK1**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
 Matrix: Aqueous                      Laboratory ID: 1715197-BLK1                      File ID: BK30906A.D  
    Preparation: SW846 5030 Water MS                      Initial/Final: 5 ml / 5 ml  
 Analyzed: 09/06/17 09:15                      Instrument: HPV3  
 Batch: 1715197                      Sequence: S707890                      Calibration: 1709004

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
1634-04-4	Methyl tert-butyl ether	1	0.5	U	0.2	0.5	1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	1	2.0	U	0.5	2.0	2.0
75-09-2	Methylene chloride	1	2.0	U	0.7	2.0	2.0
100-42-5	Styrene	1	1.0	U	0.4	1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1	0.5	U	0.3	0.5	0.5
127-18-4	Tetrachloroethene	1	1.0	U	0.6	1.0	1.0
108-88-3	Toluene	1	1.0	U	0.3	1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
120-82-1	1,2,4-Trichlorobenzene	1	1.0	U	0.4	1.0	1.0
71-55-6	1,1,1-Trichloroethane	1	1.0	U	0.5	1.0	1.0
79-00-5	1,1,2-Trichloroethane	1	0.5	U	0.3	0.5	1.0
79-01-6	Trichloroethene	1	1.0	U	0.5	1.0	1.0
75-69-4	Trichlorofluoromethane (Freon 11)	1	1.0	U	0.5	1.0	1.0
75-01-4	Vinyl chloride	1	1.0	U	0.5	1.0	1.0
179601-23-1	m,p-Xylene	1	1.0	U	0.4	1.0	2.0
95-47-6	o-Xylene	1	1.0	U	0.3	1.0	1.0
110-82-7	Cyclohexane	1	2.0	U	0.8	2.0	5.0
79-20-9	Methyl acetate	1	2.0	U	0.6	2.0	5.0
108-87-2	Methylcyclohexane	1	2.0	U	0.7	2.0	5.0

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SW846 8260C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPV3

Batch: 1715197

Laboratory ID: 1715197-BS1

Preparation: SW846 5030 Water MS

Initial/Final: 5 ml / 5 ml

Analyzed: 09/06/17 10:13

Spike ID: 17I0077

File ID: LCS0906A.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	21.5	107	70 - 136
Acetone	20.0	22.9	115	39 - 160
Benzene	20.0	22.7	114	79 - 120
Bromochloromethane	20.0	22.4	112	78 - 123
Bromodichloromethane	20.0	21.9	110	79 - 125
Bromoform	20.0	21.1	106	66 - 130
Bromomethane	20.0	20.0	100	53 - 141
2-Butanone (MEK)	20.0	23.2	116	56 - 143
Carbon disulfide	20.0	21.8	109	64 - 133
Carbon tetrachloride	20.0	21.7	108	72 - 136
Chlorobenzene	20.0	20.5	103	82 - 118
Chloroethane	20.0	20.4	102	60 - 138
Chloroform	20.0	21.9	110	79 - 124
Chloromethane	20.0	21.0	105	50 - 139
1,2-Dibromo-3-chloropropane	20.0	19.8	99	62 - 128
Dibromochloromethane	20.0	21.8	109	74 - 126
1,2-Dibromoethane (EDB)	20.0	23.2	116	77 - 121
1,2-Dichlorobenzene	20.0	20.0	100	80 - 119
1,3-Dichlorobenzene	20.0	21.0	105	80 - 119
1,4-Dichlorobenzene	20.0	19.1	95	79 - 118
Dichlorodifluoromethane (Freon12)	20.0	20.7	104	32 - 152
1,1-Dichloroethane	20.0	22.1	111	77 - 125
1,2-Dichloroethane	20.0	21.7	109	73 - 128
1,1-Dichloroethene	20.0	21.9	110	71 - 131
cis-1,2-Dichloroethene	20.0	21.7	108	78 - 123
trans-1,2-Dichloroethene	20.0	23.4	117	75 - 124
1,2-Dichloropropane	20.0	20.9	105	78 - 128
cis-1,3-Dichloropropene	20.0	20.7	103	75 - 124
trans-1,3-Dichloropropene	20.0	21.6	108	73 - 127
Ethylbenzene	20.0	21.0	105	79 - 121

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SW846 8260C**

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix: <u>Aqueous</u>	Instrument: <u>HPV3</u>
Batch: <u>1715197</u>	Laboratory ID: <u>1715197-BS1</u>
Preparation: <u>SW846 5030 Water MS</u>	Initial/Final: <u>5 ml / 5 ml</u>
Analyzed: <u>09/06/17 10:13</u>	Spike ID: <u>17I0077</u>
	File ID: <u>LCS0906A.D</u>

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
2-Hexanone (MBK)	20.0	21.8	109	57 - 139
Isopropylbenzene	20.0	20.4	102	72 - 131
Methyl tert-butyl ether	20.0	22.7	113	71 - 124
4-Methyl-2-pentanone (MIBK)	20.0	22.1	111	67 - 130
Methylene chloride	20.0	22.3	112	74 - 124
Styrene	20.0	21.5	108	78 - 123
1,1,2,2-Tetrachloroethane	20.0	21.2	106	71 - 121
Tetrachloroethene	20.0	22.3	112	74 - 129
Toluene	20.0	22.7	114	80 - 121
1,2,3-Trichlorobenzene	20.0	20.3	102	69 - 129
1,2,4-Trichlorobenzene	20.0	19.8	99	69 - 130
1,1,1-Trichloroethane	20.0	22.5	112	74 - 131
1,1,2-Trichloroethane	20.0	23.0	115	80 - 119
Trichloroethene	20.0	21.8	109	79 - 123
Trichlorofluoromethane (Freon 11)	20.0	22.6	113	64 - 141
Vinyl chloride	20.0	21.5	108	58 - 137
m,p-Xylene	20.0	21.3	106	80 - 121
o-Xylene	20.0	20.9	104	78 - 122
Cyclohexane	20.0	22.4	112	71 - 130
Methyl acetate	20.0	19.9	100	56 - 136
Methylcyclohexane	20.0	22.2	111	72 - 132

File ID: LCS0906B.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
1,1,2-Trichlorotrifluoroethane (Freon	20.0	20.5	102	5	25	70 - 136
Acetone	20.0	21.8	109	5	50	39 - 160
Benzene	20.0	21.8	109	4	25	79 - 120
Bromochloromethane	20.0	22.1	110	1	25	78 - 123
Bromodichloromethane	20.0	22.4	112	2	25	79 - 125

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SW846 8260C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Instrument: HPV3

Batch: 1715197

Laboratory ID: 1715197-BSD1

Preparation: SW846 5030 Water MS

Initial/Final: 5 ml / 5 ml

Analyzed: 09/06/17 10:42

Spike ID: 17I0077

File ID: LCS0906B.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Bromoform	20.0	21.4	107	1	25	66 - 130
Bromomethane	20.0	20.6	103	3	50	53 - 141
2-Butanone (MEK)	20.0	19.8	99	16	50	56 - 143
Carbon disulfide	20.0	21.1	105	3	25	64 - 133
Carbon tetrachloride	20.0	20.6	103	5	25	72 - 136
Chlorobenzene	20.0	20.2	101	2	25	82 - 118
Chloroethane	20.0	19.9	100	2	50	60 - 138
Chloroform	20.0	21.6	108	2	25	79 - 124
Chloromethane	20.0	20.7	103	2	25	50 - 139
1,2-Dibromo-3-chloropropane	20.0	22.1	111	11	25	62 - 128
Dibromochloromethane	20.0	21.3	107	2	50	74 - 126
1,2-Dibromoethane (EDB)	20.0	23.0	115	0.8	25	77 - 121
1,2-Dichlorobenzene	20.0	19.7	99	1	25	80 - 119
1,3-Dichlorobenzene	20.0	20.8	104	1	25	80 - 119
1,4-Dichlorobenzene	20.0	18.7	93	2	25	79 - 118
Dichlorodifluoromethane (Freon12)	20.0	19.6	98	6	50	32 - 152
1,1-Dichloroethane	20.0	21.6	108	2	25	77 - 125
1,2-Dichloroethane	20.0	21.6	108	0.6	25	73 - 128
1,1-Dichloroethene	20.0	21.2	106	3	25	71 - 131
cis-1,2-Dichloroethene	20.0	21.9	109	0.8	25	78 - 123
trans-1,2-Dichloroethene	20.0	22.5	113	4	25	75 - 124
1,2-Dichloropropane	20.0	21.6	108	3	25	78 - 128
cis-1,3-Dichloropropene	20.0	20.8	104	0.4	25	75 - 124
trans-1,3-Dichloropropene	20.0	20.5	102	5	25	73 - 127
Ethylbenzene	20.0	20.9	105	0.4	25	79 - 121
2-Hexanone (MBK)	20.0	23.2	116	6	25	57 - 139
Isopropylbenzene	20.0	20.2	101	1	25	72 - 131
Methyl tert-butyl ether	20.0	22.8	114	0.6	25	71 - 124
4-Methyl-2-pentanone (MIBK)	20.0	21.8	109	2	50	67 - 130
Methylene chloride	20.0	20.8	104	7	25	74 - 124

**FORM IIIa - LCS / LCS DUPLICATE RECOVERY**  
**SW846 8260C**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	HPV3
Batch:	<u>1715197</u>	Laboratory ID:	<u>1715197-BSD1</u>
Preparation:	<u>SW846 5030 Water MS</u>	Initial/Final:	<u>5 ml / 5 ml</u>
Analyzed:	<u>09/06/17 10:42</u>	Spike ID:	1710077
		File ID:	<u>LCS0906B.D</u>

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Styrene	20.0	21.5	107	0.2	25	78 - 123
1,1,2,2-Tetrachloroethane	20.0	21.1	105	0.6	25	71 - 121
Tetrachloroethene	20.0	21.0	105	6	25	74 - 129
Toluene	20.0	21.4	107	6	25	80 - 121
1,2,3-Trichlorobenzene	20.0	20.8	104	2	25	69 - 129
1,2,4-Trichlorobenzene	20.0	18.8	94	5	25	69 - 130
1,1,1-Trichloroethane	20.0	21.5	107	5	25	74 - 131
1,1,2-Trichloroethane	20.0	22.3	111	3	25	80 - 119
Trichloroethene	20.0	21.0	105	4	25	79 - 123
Trichlorofluoromethane (Freon 11)	20.0	21.4	107	5	50	64 - 141
Vinyl chloride	20.0	20.8	104	3	25	58 - 137
m,p-Xylene	20.0	20.7	103	3	25	80 - 121
o-Xylene	20.0	21.4	107	2	25	78 - 122
Cyclohexane	20.0	21.2	106	5	30	71 - 130
Methyl acetate	20.0	19.8	99	0.5	30	56 - 136
Methylcyclohexane	20.0	21.0	105	5	30	72 - 132

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

## CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112608005-WE15

SDG #: SC38678

### I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

### II. HOLDING TIMES

Samples were prepared and analyzed within the method-specific holding time with the following exceptions:

Sample TF1-EBP-MW1001-082917 (SC38678-01RE1): Sample was originally analyzed within the recommended method holding time; however, QC materials for the sample run were out of control. As a result, the sample was immediately re-analyzed (outside the holding time).

### III. METHODS

Analyses were performed according to SW846 8270D.

### IV. PREPARATION

Aqueous samples were prepared according to SW846 3510C.

### V. INSTRUMENTATION

The following equipment was used to analyze SW846 8270D:

HPS4 details: Agilent 6890 with 5973 MS: Phenomenex ZB-Semivolatiles (30M, 0.25mm, 0.25um)

### VI. ANALYSIS

#### A. Calibration:

All quality control samples were within the acceptance criteria.

#### B. Blanks:

All blanks were within the acceptance criteria.

#### C. Surrogates:

All method criteria were met with the following exceptions:

2-Fluorobiphenyl in batch 1715009, samples 1715009-BLK1, TF1-DUP-01-082917 (SC38678-06), TF1-EBP-MW1000-082917 (SC38678-02): Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

2-Fluorobiphenyl in batch 1715314, sample TF1-EBP-MW1001-082917 (SC38678-01RE1): Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

Nitrobenzene-d5 in batch 1715314, sample TF1-EBP-MW1001-082917 (SC38678-01RE1): Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

#### **D. Spikes:**

##### **1. Laboratory Control Samples (LCS):**

All method criteria were met with the following exceptions:

Anthracene, Benzo (g,h,i) perylene, Phenanthrene in batch 1715009, samples 1715009-BS1, 1715009-BSD1: Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Benzo (k) fluoranthene in batch 1715009, sample 1715009-BSD1: The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

##### In batch 1715009 BS/BSD:

Anthracene percent recoveries (53/60) are outside individual acceptance criteria (57-123), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

TF1-DUP-01-082917, TF1-EBP-MW1000-082917, TF1-GT-109-082917, TF1-MW1002-082917, TF1-MW1006-082917

Benzo (g,h,i) perylene percent recoveries (48/50) are outside individual acceptance criteria (50-134), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

TF1-DUP-01-082917, TF1-EBP-MW1000-082917, TF1-GT-109-082917, TF1-MW1002-082917, TF1-MW1006-082917

Phenanthrene percent recoveries (53/56) are outside individual acceptance criteria (59-120), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

TF1-DUP-01-082917, TF1-EBP-MW1000-082917, TF1-GT-109-082917, TF1-MW1002-082917, TF1-MW1006-082917

##### In batch 1715009 BSD:

Benzo (k) fluoranthene RPD 30% (20%) is outside individual acceptance criteria.

##### **2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):**

No matrix spike or matrix spike duplicates were analyzed.

#### **E. Duplicates:**

No client requested duplicate. However, the method criteria may have been fulfilled with non-SDG source samples.

**F. Internal Standards:**

Internal standards were within the acceptance criteria.

**G. Samples:**

All method criteria were met.

TF1-EBP-MW1001-082917 (SC38678-01RE1) Preparation Start: 09/07/17 15:00, Preparation End: 09/12/17 20:31



# FORM II - SURROGATE STANDARD RECOVERY SUMMARY

**SW846 8270D**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Spike ID: 17H0260

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
<b>Blank (1715009-BLK1)</b>	39 *	43	62				1
<b>LCS (1715009-BS1)</b>	61	64	82				0
<b>LCS Dup (1715009-BSD1)</b>	66	70	93				0

**Control Limits**

S1 = 2-Fluorobiphenyl                      44 - 119

S2 = Nitrobenzene-d5                        40 - 110

S3 = Terphenyl-dl4                         50 - 134

# Column to be used to flag recovery values

\* Values outside of QC limits

# FORM II - SURROGATE STANDARD RECOVERY SUMMARY

**SW846 8270D**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Spike ID: 17H0260

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
<b>TF1-EBP-MW1000-082917 (SC38678-02)</b>	42 *	49	67				1
<b>TF1-MW1006-082917 (SC38678-03)</b>	48	50	75				0
<b>TF1-MW1002-082917 (SC38678-04)</b>	47	54	65				0
<b>TF1-GT-109-082917 (SC38678-05)</b>	48	49	76				0
<b>TF1-DUP-01-082917 (SC38678-06)</b>	43 *	53	71				1

**Control Limits**

S1 = 2-Fluorobiphenyl

44 - 119

S2 = Nitrobenzene-d5

40 - 110

S3 = Terphenyl-dl4

50 - 134

# Column to be used to flag recovery values

\* Values outside of QC limits

# FORM II - SURROGATE STANDARD RECOVERY SUMMARY

**SW846 8270D**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Spike ID: 17H0260

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
<b>Blank (1715314-BLK1)</b>	44	50	75				0
<b>LCS (1715314-BS1)</b>	76	74	105				0
<b>LCS Dup (1715314-BSD1)</b>	84	80	99				0
<b>TF1-EBP-MW1001-082917 (SC38678-01RE1)</b>	36 *	39 *	53				2

**Control Limits**

S1 = 2-Fluorobiphenyl

44 - 119

S2 = Nitrobenzene-d5

40 - 110

S3 = Terphenyl-d14

50 - 134

# Column to be used to flag recovery values

\* Values outside of QC limits

# FORM VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

**SW846 8270D**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708168

Instrument: HPS4

Matrix: Aqueous

Calibration: 1708113

Analyzed: 09/13/17 09:39

File ID: SCT40913.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	347180	7.69	1134382	12.92	825091	5.50	1282129	15.33	1169836	9.46		
Upper Limit	694360	8.19	2268764	13.42	1650182	6.00	2564258	15.83	2339672	9.96		
Lower Limit	173590	7.19	567191	12.42	412546	5.00	641065	14.83	584918	8.96		
Sample ID												
<b>Calibration Check (S708168-CCV2)</b>	479811	7.675	1552143	12.898	1201317	5.486	1606007	15.304	1436101	9.445		
<b>Blank (1715009-BLK1)</b>	539973	7.685	1543138	12.914	1428554	5.491	1681011	15.326	1667590	9.456		
<b>LCS (1715009-BS1)</b>	613716	7.691	1937367	12.926	1351726	5.497	1814928	15.338	1781931	9.462		
<b>LCS Dup (1715009-BSD1)</b>	490309	7.691	1495020	12.926	1204383	5.497	1212034	15.332	1444492	9.462		

IS1 = Acenaphthene-d10

IS2 = Chrysene-d12

IS3 = Naphthalene-d8

IS4 = Perylene-d12

IS5 = Phenanthrene-d10

# Column to be used to flag internal standard area values

\* Values outside of QC limits

Area Upper Limit = 200% of internal standard area

Area Lower Limit = 50% of internal standard area

RT Limit = +/- 0.50

# FORM VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

**SW846 8270D**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA  
 Client: Tetra Tech, Inc. - Salem, NH  
 Sequence: S708251  
 Matrix: Aqueous  
 Analyzed: 09/15/17 09:51

SDG: SC38678  
 Project: WE15 Tank Farm 1 NAVSTA Newport  
 Instrument: HPS4  
 Calibration: 1708113  
 File ID: SCT40915.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	456312	7.64	1583402	12.86	1157054	5.45	1669808	15.26	1366061	9.41		
Upper Limit	912624	8.14	3166804	13.36	2314108	5.95	3339616	15.76	2732122	9.91		
Lower Limit	228156	7.14	791701	12.36	578527	4.95	834904	14.76	683031	8.91		
Sample ID												
Calibration Check (S708251-CCV2)	523346	7.641	1623560	12.864	1337590	5.447	1444810	15.258	1594827	9.412		
TF1-EBP-MW1000-082917 (SC38678-02)	721142	7.635	2075483	12.853	1676826	5.441	1424974	15.258	2025307	9.412		
TF1-MW1006-082917 (SC38678-03)	690573	7.635	2044430	12.853	1760948	5.441	1704473	15.253	1988023	9.406		
TF1-MW1002-082917 (SC38678-04)	715029	7.635	1789402	12.859	1670327	5.441	1727502	15.258	1574505	9.406		
TF1-GT-109-082917 (SC38678-05)	694741	7.635	1766862	12.853	1690363	5.441	1551336	15.253	1901514	9.406		
TF1-DUP-01-082917 (SC38678-06)	703577	7.635	1852563	12.853	1595103	5.441	1710704	15.252	1931365	9.406		

IS1 = Acenaphthene-d10

IS2 = Chrysene-d12

IS3 = Naphthalene-d8

IS4 = Perylene-d12

IS5 = Phenanthrene-d10

# Column to be used to flag internal standard area values

\* Values outside of QC limits

Area Upper Limit = 200% of internal standard area

Area Lower Limit = 50% of internal standard area

RT Limit = +/- 0.50

# FORM VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

**SW846 8270D**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA  
 Client: Tetra Tech, Inc. - Salem, NH  
 Sequence: S708252  
 Matrix: Aqueous  
 Analyzed: 09/16/17 13:46

SDG: SC38678  
 Project: WE15 Tank Farm 1 NAVSTA Newport  
 Instrument: HPS4  
 Calibration: 1708113  
 File ID: SCR40917.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	473546	7.62	1612500	12.84	1278287	5.43	1686003	15.23	1430697	9.39		
Upper Limit	947092	8.12	3225000	13.34	2556574	5.93	3372006	15.73	2861394	9.89		
Lower Limit	236773	7.12	806250	12.34	639144	4.93	843002	14.73	715349	8.89		
Sample ID												
Calibration Check (S708252-CCV2)	588853	7.624	1975362	12.841	1500492	5.435	2129628	15.241	1822698	9.4		
Blank (1715314-BLK1)	866746	7.618	2411061	12.829	2049791	5.424	2651826	15.229	2358591	9.388		
LCS (1715314-BS1)	691397	7.624	2101613	12.841	1735584	5.43	2281845	15.235	1966087	9.394		
LCS Dup (1715314-BS1)	727533	7.624	2201654	12.841	1764495	5.43	2262595	15.241	2037873	9.394		
TF1-EBP-MW1001-082917 (SC38678-01R)	881153	7.618	2542739	12.829	2021756	5.424	2698813	15.229	2505002	9.388		

IS1 = Acenaphthene-d10  
 IS2 = Chrysene-d12  
 IS3 = Naphthalene-d8  
 IS4 = Perylene-d12  
 IS5 = Phenanthrene-d10

# Column to be used to flag internal standard area values  
 \* Values outside of QC limits

Area Upper Limit = 200% of internal standard area  
 Area Lower Limit = 50% of internal standard area  
 RT Limit = +/- 0.50

**FORM IV - METHOD BLANK SUMMARY**  
**SW846 8270D**

<u><b>1715009-BLK1</b></u>
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Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Laboratory ID:	<u>1715009-BLK1</u>
		File ID:	<u>BKR15009.D</u>
		Preparation:	<u>SW846 3510C</u>
		Initial/Final:	<u>980 ml / 1 ml</u>
Analyzed:	<u>09/13/17 16:12</u>	Instrument:	<u>HPS4</u>
Batch:	<u>1715009</u>	Sequence:	<u>S708168</u>
		Calibration:	<u>1708113</u>

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1715009-BS1	BSR15009.D	09/13/17	17:09
LCS Dup	1715009-BSD1	BSDR5009.D	09/13/17	17:37
TF1-EBP-MW1000-082917	SC38678-02	C3867802.D	09/15/17	15:03
TF1-MW1006-082917	SC38678-03	C3867803.D	09/15/17	15:31
TF1-MW1002-082917	SC38678-04	C3867804.D	09/15/17	16:00
TF1-GT-109-082917	SC38678-05	C3867805.D	09/15/17	16:28
TF1-DUP-01-082917	SC38678-06	C3867806.D	09/15/17	16:56

**FORM I - ORGANIC ANALYSIS DATA SHEET**  
**SW846 8270D**

1715009-BLK1
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Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Laboratory ID:	<u>1715009-BLK1</u>
		File ID:	<u>BKR15009.D</u>
		Preparation:	<u>SW846 3510C</u>
		Initial/Final:	<u>980 ml / 1 ml</u>
Analyzed:	<u>09/13/17 16:12</u>	Instrument:	<u>HPS4</u>
Batch:	<u>1715009</u>	Sequence:	<u>S708168</u>
		Calibration:	<u>1708113</u>

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
83-32-9	Acenaphthene	1	1.02	U	0.705	1.02	5.10
208-96-8	Acenaphthylene	1	1.02	U	0.697	1.02	5.10
120-12-7	Anthracene	1	1.02	U	0.620	1.02	5.10
56-55-3	Benzo (a) anthracene	1	1.02	U	0.547	1.02	5.10
50-32-8	Benzo (a) pyrene	1	1.02	U	0.573	1.02	5.10
205-99-2	Benzo (b) fluoranthene	1	1.02	U	0.446	1.02	5.10
191-24-2	Benzo (g,h,i) perylene	1	1.02	U	0.541	1.02	5.10
207-08-9	Benzo (k) fluoranthene	1	1.02	U	0.490	1.02	5.10
218-01-9	Chrysene	1	1.02	U	0.543	1.02	5.10
53-70-3	Dibenzo (a,h) anthracene	1	1.02	U	0.459	1.02	5.10
206-44-0	Fluoranthene	1	1.02	U	0.651	1.02	5.10
86-73-7	Fluorene	1	1.02	U	0.624	1.02	5.10
193-39-5	Indeno (1,2,3-cd) pyrene	1	1.02	U	0.592	1.02	5.10
90-12-0	1-Methylnaphthalene	1	1.02	U	0.748	1.02	5.10
91-57-6	2-Methylnaphthalene	1	1.02	U	0.586	1.02	5.10
91-20-3	Naphthalene	1	1.02	U	0.699	1.02	5.10
85-01-8	Phenanthrene	1	1.02	U	0.598	1.02	5.10
129-00-0	Pyrene	1	1.02	U	0.622	1.02	5.10



**FORM IIIa - LCS / LCS DUPLICATE RECOVERY**

**SW846 8270D**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA  
 Client: Tetra Tech, Inc. - Salem, NH  
 Matrix: Aqueous  
 Batch: 1715009  
 Preparation: SW846 3510C  
 Analyzed: 09/13/17 17:09

SDG: SC38678  
 Project: WE15 Tank Farm 1 NAVSTA Newport  
 Instrument: HPS4  
 Laboratory ID: 1715009-BS1  
 Initial/Final: 990 ml / 1 ml  
 Spike ID: 17H0927  
 File ID: BSR15009.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
Acenaphthene	50.5	24.6	49	47 - 122
Acenaphthylene	50.5	25.2	50	41 - 130
Anthracene	50.5	27.0	53 *	57 - 123
Benzo (a) anthracene	50.5	30.4	60	58 - 125
Benzo (a) pyrene	50.5	34.3	68	54 - 128
Benzo (b) fluoranthene	50.5	41.3	82	53 - 131
Benzo (g,h,i) perylene	50.5	24.3	48 *	50 - 134
Benzo (k) fluoranthene	50.5	33.8	67	57 - 129
Chrysene	50.5	30.3	60	59 - 123
Dibenzo (a,h) anthracene	50.5	28.8	57	51 - 134
Fluoranthene	50.5	28.6	57	57 - 128
Fluorene	50.5	27.1	54	52 - 124
Indeno (1,2,3-cd) pyrene	50.5	26.7	53	52 - 134
1-Methylnaphthalene	50.5	22.7	45	41 - 119
2-Methylnaphthalene	50.5	29.7	59	40 - 121
Naphthalene	50.5	21.5	43	40 - 121
Phenanthrene	50.5	26.6	53 *	59 - 120
Pyrene	50.5	28.8	57	57 - 126

File ID: BSDR5009.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Acenaphthene	50.5	25.3	50	3	20	47 - 122
Acenaphthylene	50.5	28.2	56	11	20	41 - 130
Anthracene	50.5	30.4	60	12	20	57 - 123
Benzo (a) anthracene	50.5	32.4	64	6	20	58 - 125
Benzo (a) pyrene	50.5	37.4	74	9	20	54 - 128
Benzo (b) fluoranthene	50.5	46.5	92	12	20	53 - 131
Benzo (g,h,i) perylene	50.5	25.5	50	5	20	50 - 134
Benzo (k) fluoranthene	50.5	45.6	90	30 *	20	57 - 129

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SW846 8270D**

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix: <u>Aqueous</u>	Instrument: <u>HPS4</u>
Batch: <u>1715009</u>	Laboratory ID: <u>1715009-BSD1</u>
Preparation: <u>SW846 3510C</u>	Initial/Final: <u>990 ml / 1 ml</u>
Analyzed: <u>09/13/17 17:37</u>	Spike ID: <u>17H0927</u>
	File ID: <u>BSDR5009.D</u>

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Chrysene	50.5	33.8	67	11	20	59 - 123
Dibenzo (a,h) anthracene	50.5	29.9	59	4	20	51 - 134
Fluoranthene	50.5	29.1	58	2	20	57 - 128
Fluorene	50.5	28.7	57	5	20	52 - 124
Indeno (1,2,3-cd) pyrene	50.5	29.0	57	8	20	52 - 134
1-Methylnaphthalene	50.5	24.9	49	9	20	41 - 119
2-Methylnaphthalene	50.5	29.9	59	0.7	20	40 - 121
Naphthalene	50.5	22.7	45	5	20	40 - 121
Phenanthrene	50.5	28.3	56	*	20	59 - 120
Pyrene	50.5	29.6	59	3	20	57 - 126

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

**FORM IV - METHOD BLANK SUMMARY**  
**SW846 8270D**

<u>1715314-BLK1</u>
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Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Laboratory ID:	<u>1715314-BLK1</u>
		Preparation:	<u>SW846 3510C</u>
Analyzed:	<u>09/16/17 14:14</u>	Instrument:	<u>HPS4</u>
Batch:	<u>1715314</u>	Sequence:	<u>S708252</u>
		File ID:	<u>BK715314.D</u>
		Initial/Final:	<u>990 ml / 1 ml</u>
		Calibration:	<u>1708113</u>

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1715314-BS1	BS715314.D	09/16/17	14:42
LCS Dup	1715314-BSD1	BSD15314.D	09/16/17	15:11
TF1-EBP-MW1001-082917	SC38678-01RE1	R3867801.D	09/16/17	15:39



# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SW846 8270D**

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix: <u>Aqueous</u>	Instrument: <u>HPS4</u>
Batch: <u>1715314</u>	Laboratory ID: <u>1715314-BS1</u>
Preparation: <u>SW846 3510C</u>	Initial/Final: <u>990 ml / 1 ml</u>
Analyzed: <u>09/16/17 14:42</u>	Spike ID: <u>17H0927</u>
	File ID: <u>BS715314.D</u>

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
Acenaphthene	50.5	29.7	59	47 - 122
Acenaphthylene	50.5	32.3	64	41 - 130
Anthracene	50.5	33.1	66	57 - 123
Benzo (a) anthracene	50.5	35.7	71	58 - 125
Benzo (a) pyrene	50.5	41.0	81	54 - 128
Benzo (b) fluoranthene	50.5	42.1	83	53 - 131
Benzo (g,h,i) perylene	50.5	43.9	87	50 - 134
Benzo (k) fluoranthene	50.5	41.4	82	57 - 129
Chrysene	50.5	37.5	74	59 - 123
Dibenzo (a,h) anthracene	50.5	48.6	96	51 - 134
Fluoranthene	50.5	37.1	73	57 - 128
Fluorene	50.5	32.3	64	52 - 124
Indeno (1,2,3-cd) pyrene	50.5	44.2	87	52 - 134
1-Methylnaphthalene	50.5	29.4	58	41 - 119
2-Methylnaphthalene	50.5	36.7	73	40 - 121
Naphthalene	50.5	25.0	50	40 - 121
Phenanthrene	50.5	32.4	64	59 - 120
Pyrene	50.5	36.6	72	57 - 126

File ID: BSD15314.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Acenaphthene	50.5	32.6	65	9	20	47 - 122
Acenaphthylene	50.5	34.2	68	6	20	41 - 130
Anthracene	50.5	33.0	65	0.4	20	57 - 123
Benzo (a) anthracene	50.5	35.6	70	0.3	20	58 - 125
Benzo (a) pyrene	50.5	42.2	84	3	20	54 - 128
Benzo (b) fluoranthene	50.5	49.1	97	15	20	53 - 131
Benzo (g,h,i) perylene	50.5	41.8	83	5	20	50 - 134
Benzo (k) fluoranthene	50.5	39.3	78	5	20	57 - 129

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SW846 8270D**

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix: <u>Aqueous</u>	Instrument: <u>HPS4</u>
Batch: <u>1715314</u>	Laboratory ID: <u>1715314-BSD1</u>
Preparation: <u>SW846 3510C</u>	Initial/Final: <u>990 ml / 1 ml</u>
Analyzed: <u>09/16/17 15:11</u>	Spike ID: <u>17H0927</u>
	File ID: <u>BSD15314.D</u>

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Chrysene	50.5	38.0	75	1	20	59 - 123
Dibenzo (a,h) anthracene	50.5	47.0	93	3	20	51 - 134
Fluoranthene	50.5	35.5	70	4	20	57 - 128
Fluorene	50.5	35.7	71	10	20	52 - 124
Indeno (1,2,3-cd) pyrene	50.5	43.8	87	0.9	20	52 - 134
1-Methylnaphthalene	50.5	31.3	62	6	20	41 - 119
2-Methylnaphthalene	50.5	31.2	62	16	20	40 - 121
Naphthalene	50.5	28.2	56	12	20	40 - 121
Phenanthrene	50.5	31.3	62	3	20	59 - 120
Pyrene	50.5	34.0	67	7	20	57 - 126

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

PREPARATION BENCH SHEET

\* A = Analyst \* W = Witness

1715009

FINAL COPY

Eurofins Spectrum Analytical, Inc. - MA

- |   |         |  |         |   |         |  |         |
|---|---------|--|---------|---|---------|--|---------|
| <input type="checkbox"/> Sodium Chloride (NaCl)             | 17G0504 | <input type="checkbox"/> Florisil              | 17G0149 | <input checked="" type="checkbox"/> Methylene Chloride (CH2Cl2) | 17H1033 | <input type="checkbox"/> Ethyl Acetate (C4H8O2)          | 14K0438 |
| <input type="checkbox"/> Ottawa Sand                        | 17H0732 | <input type="checkbox"/> Silica gel (EPH)      | 17H0666 | <input type="checkbox"/> Hexane (C6H14)                         | 17G0939 | <input checked="" type="checkbox"/> Aqueous Filter Paper | 17H0640 |
| <input type="checkbox"/> HCL                                | 17H0221 | <input type="checkbox"/> Silica gel (TPH)      | 17H0665 | <input type="checkbox"/> Acetone (CH3COCH3)                     | 17G0906 | <input type="checkbox"/> Soil Filter Paper               | 17H0545 |
| <input type="checkbox"/> Copper                             | 17G0316 | <input type="checkbox"/> Sulfuric Acid (H2SO4) | 17H0891 | <input type="checkbox"/> Methanol (CH3OH)                       | 17E0681 |  |         |
| <input checked="" type="checkbox"/> Sodium Sulfate (Na2SO4) | 17H1005 |  |         | <input type="checkbox"/> Ether (C2H5OC2H5)                      | 17H0567 | <input type="checkbox"/> Gauze Wipe                      | 17A0428 |
| <input type="checkbox"/> PCB Transformer Oil                | 10H0132 | <input type="checkbox"/> MTBE                  | 16I0388 | <input type="checkbox"/> Acidified Sodium Sulfate               | 17G0918 | <input type="checkbox"/> 1:1 HCl Mix                     | 17G0111 |
| <input checked="" type="checkbox"/> 1:1 H2SO4 Mix           | 17G1000 | <input type="checkbox"/> Acidified Methanol    | 17G0302 | <input checked="" type="checkbox"/> Sodium Hydroxide (NaOH)     | 17G0775 | <input type="checkbox"/> Glass Wool                      | 17H0734 |
| <input type="checkbox"/> Iso-octane                         | 17B0969 | <input type="checkbox"/> 37% KOH               | 17C0273 | <input type="checkbox"/> Sodium Bicarbonate                     | 14K0424 | <input type="checkbox"/> Cupric Sulfate Pentahydrate     |         |
| <input type="checkbox"/> 1ml Syringe I                      | 15A0480 | <input type="checkbox"/> 1ml Syringe II        | 15A0481 | <input type="checkbox"/> 1ml Syringe III                        | 15A0482 | <input type="checkbox"/> 500ul Syringe                   | 15C0951 |
| <input type="checkbox"/> 250ul Syringe                      | 15A0484 | <input type="checkbox"/> 100ul Syringe         | 15A0485 | <input type="checkbox"/> 25ul Syringe I                         | 15A0486 | <input type="checkbox"/> 25ul Syringe II                 | 15A0487 |
| <input type="checkbox"/> 25ul Syringe III                   | 15A0488 | <input type="checkbox"/> 25ul Syringe IV       | 15A0489 | <input type="checkbox"/> 25ul Syringe V                         | 15A0490 | <input type="checkbox"/> 10ul Syringe I                  | 15A0491 |
| <input type="checkbox"/> 1:1 DCM-Acetone                    | 17H0945 | <input checked="" type="checkbox"/> pH paper   | 16A0780 | <input type="checkbox"/> Chlorine Chk Strips                    | 17D0909 | Balance ID   |         |

Matrix: Aqueous

Prepared using: SVOC - SW846 3510C

MS/MSD  
All Red  
Preliminary

1260

Lab Number	Client Sample ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	A * Init	W * Init	ul Spike	ul Surr	ul Surr 2	Due	Collected	Prepared			pH Init	CL
1715009-BLK1	Blank	QC	980	1						1000			01-Sep-17 08:00	01-Sep-17				
1715009-BS1	LCS	QC	990	1	17H0927				1000	1000			01-Sep-17 08:00	01-Sep-17				
1715009-BSD1	LCS Dup	QC	990	1	17H0927				1000	1000			01-Sep-17 08:00	01-Sep-17				
1715009-DUP1	Duplicate	QC	930	1		SC38627-01				1000			28-Aug-17 15:30	01-Sep-17	Cloudy orange	Cont: K		
1715009-MS1	Matrix Spike	QC	1000	1	17H0927	SC38733-04			1000	1000			30-Aug-17 10:10	01-Sep-17	Cont. AF			
1715009-MSD1	Matrix Spike Dup	QC	1000	1	17H0927	SC38733-04			1000	1000			30-Aug-17 10:10	01-Sep-17	Cont. AL			
SC38627-01	TF1-MW-1003-082817	8270 PAH DoD	950	1						1000		08-Sep-17 16	28-Aug-17 15:30	01-Sep-17	DoD Level IV/Extra Liter orange	Cloudy	L	
SC38627-02	TF1-EBP-GZ101R-082817	8270 PAH DoD	1060	1						1000		08-Sep-17 16	28-Aug-17 15:16	01-Sep-17	DoD Level IV/Extra Liter	M		
SC38627-03	TF1-GT-106-082817	8270 PAH DoD	1030	1						1000		08-Sep-17 16	28-Aug-17 15:25	01-Sep-17	DoD Level IV/Extra Liter	M		
SC38678-01	TF1-EBP-MW1001-082917	8270 PAH DoD	1060	1						1000		11-Sep-17 16	29-Aug-17 10:44	01-Sep-17	DoD Level IV/Extra Liter yellow	Clear	M	
SC38678-02	TF1-EBP-MW1000-082917	8270 PAH DoD	1060	1						1000		11-Sep-17 16	29-Aug-17 14:52	01-Sep-17	DoD Level IV/Extra Liter yellow	Clear	L	
SC38678-03	TF1-MW1006-082917	8270 PAH DoD	1040	1						1000		11-Sep-17 16	29-Aug-17 10:25	01-Sep-17	DoD Level IV/Extra Liter	L		
SC38678-04	TF1-MW1002-082917	8270 PAH DoD	940	1						1000		11-Sep-17 16	29-Aug-17 11:05	01-Sep-17	DoD Level IV/Extra Liter yellow	Clear	M	

*[Signature]*  
Analyst Reviewed 9/14/17  
Date

*[Signature]*  
Manager Reviewed 9/14/17  
Date

*[Signature]*  
Extracts Prepared By 9/14/17  
Date

PREPARATION BENCH SHEET

\* A = Analyst \* W = Witness

1715009


Eurofins Spectrum Analytical, Inc. - MA

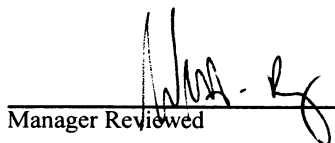
Prepared using: SVOC - SW846 3510C


Surrogate used: 17H0260

Matrix: Aqueous

Lab Number	Client Sample ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	A * Init	W * Init	ul Spike	ul Surr	ul Surr 2	Due	Collected	Prepared	Extraction Comments	C	pH BASIC	pH ACID	pH Init	CL
SC38678-05	TF1-GT-109-082917	8270 PAH DoD	950	1						1000		11-Sep-17 16	29-Aug-17 16:05	01-Sep-17	DoD Level IV/Extra Liter	L				
SC38678-06	TF1-DUP-01-082917	8270 PAH DoD	980	1						1000		11-Sep-17 16	29-Aug-17 12:00	01-Sep-17	DoD Level IV/Extra Liter yellow	Clear J				
SC38733-01	TF1-MW-1007-083017	8270 PAH DoD	1040	1						1000		12-Sep-17 16	30-Aug-17 10:52	01-Sep-17	DoD Level IV/Extra Liter	K				
SC38733-02	TF1-MW-1007D-083017	8270 PAH DoD	1030	1						1000		12-Sep-17 16	30-Aug-17 14:55	01-Sep-17	DoD Level IV/Extra Liter	K				
SC38733-03	TF1-GZ-112-083017	8270 PAH DoD	940	1						1000		12-Sep-17 16	30-Aug-17 14:20	01-Sep-17	DoD Level IV/Extra Liter	L				
SC38733-04	TF1-MW-1005-083017	8270 PAH DoD	1050	1						1000		12-Sep-17 16	30-Aug-17 10:10	01-Sep-17	Run MS/MSD/DoD Level IV/Extra Liter	AM				
SC38733-05	TF1-GZ-118-083017	8270 PAH DoD	1050	1						1000		12-Sep-17 16	30-Aug-17 15:05	01-Sep-17	DoD Level IV/Extra Liter	L				

 9/14/17  
 Analyst Reviewed Date

 9/14/17  
 Manager Reviewed Date

 9/14/17  
 Extracts Prepared By Date



PREPARATION BENCH SHEET

1715314

FINAL COPY

\* A = Analyst \* W = Witness

Eurofins Spectrum Analytical, Inc. - MA

- |   |         |  |         |  |         |  |         |
|---|---------|--|---------|--|---------|--|---------|
| <input type="checkbox"/> Sodium Chloride (NaCl)                                       | 17G0504 | <input type="checkbox"/> Florisil  | 17G0149 | <input checked="" type="checkbox"/> Methylene Chloride (CH <sub>2</sub> Cl <sub>2</sub> )      | 17H1033 | <input type="checkbox"/> Ethyl Acetate (C <sub>4</sub> H <sub>8</sub> O <sub>2</sub> ) | 14K0438 |
| <input type="checkbox"/> Ottawa Sand  | 17H0732 | <input type="checkbox"/> Silica gel (EPH)                                | 17H0666 | <input type="checkbox"/> Hexane (C <sub>6</sub> H <sub>14</sub> )                              | 17I0189 | <input checked="" type="checkbox"/> Aqueous Filter Paper                               |         |
| <input type="checkbox"/> HCL  | 17H0221 | <input type="checkbox"/> Silica gel (TPH)                                | 17H0665 | <input type="checkbox"/> Acetone (CH <sub>3</sub> COCH <sub>3</sub> )                          | 17G0906 | <input type="checkbox"/> Soil Filter Paper   | 17I0209 |
| <input type="checkbox"/> Copper   | 17I0204 | <input type="checkbox"/> Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> ) | 17H0891 | <input type="checkbox"/> Methanol (CH <sub>3</sub> OH)   | 17E0681 |  |         |
| <input checked="" type="checkbox"/> Sodium Sulfate (Na <sub>2</sub> SO <sub>4</sub> ) | 17I0186 |  |         | <input type="checkbox"/> Ether (C <sub>2</sub> H <sub>5</sub> OC <sub>2</sub> H <sub>5</sub> ) | 17H0567 | <input type="checkbox"/> Gauze Wipe  | 17A0428 |
| <input type="checkbox"/> PCB Transformer Oil  | 10H0132 | <input type="checkbox"/> MTBE  | 16I0388 | <input type="checkbox"/> Acidified Sodium Sulfate  | 17G0918 | <input type="checkbox"/> 1:1 HCl Mix   | 17G0111 |
| <input checked="" type="checkbox"/> 1:1 H <sub>2</sub> SO <sub>4</sub> Mix            | 17G1000 | <input type="checkbox"/> Acidified Methanol                              | 17G0302 | <input checked="" type="checkbox"/> Sodium Hydroxide (NaOH)                                    | 17G0775 | <input type="checkbox"/> Glass Wool  | 17H0734 |
| <input type="checkbox"/> Iso-octane   | 17B0969 | <input type="checkbox"/> 37% KOH   | 17C0273 | <input type="checkbox"/> Sodium Bicarbonate  | 14K0424 | <input type="checkbox"/> Cupric Sulfate Pentahydrate                                   |         |
| <input type="checkbox"/> 1ml Syringe I  | 15A0480 | <input type="checkbox"/> 1ml Syringe II                                  | 15A0481 | <input type="checkbox"/> 1ml Syringe III   | 15A0482 | <input type="checkbox"/> 500ul Syringe   | 15C0951 |
| <input type="checkbox"/> 250ul Syringe  | 15A0484 | <input type="checkbox"/> 100ul Syringe                                   | 15A0485 | <input type="checkbox"/> 25ul Syringe I  | 15A0486 | <input type="checkbox"/> 25ul Syringe II   | 15A0487 |
| <input type="checkbox"/> 25ul Syringe III   | 15A0488 | <input type="checkbox"/> 25ul Syringe IV                                 | 15A0489 | <input type="checkbox"/> 25ul Syringe V  | 15A0490 | <input type="checkbox"/> 10ul Syringe I  | 15A0491 |
| <input type="checkbox"/> 1:1 DCM-Acetone  | 17H0945 | <input checked="" type="checkbox"/> pH paper                             | 16A0780 | <input type="checkbox"/> Chlorine Chk Strips   | 17D0909 | Balance ID   |         |

Matrix: Aqueous

Prepared using: SVOC - SW846 3510C

Surrogate used: 17H0260

Lab Number	Client Sample ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	A * Init	W * Init	ul Spike	ul Surr	ul Surr 2	Due	Collected	Prepared	Extraction Comments	C	pH		pH Init	CL
																	BASIC	ACID		
1715314-BLK1	Blank	QC	990	1						1000			07-Sep-17 15:00	07-Sep-17						
1715314-BS1	LCS	QC	990	1	17H0927				1000	1000			07-Sep-17 15:00	07-Sep-17						
1715314-BSD1	LCS Dup	QC	990	1	17H0927				1000	1000			07-Sep-17 15:00	07-Sep-17						
1715314-DUP1	Duplicate	QC	1030	1						1000			07-Sep-17 15:00	07-Sep-17	Clear yellow Cont: J 38778-10					
1715314-MS1	Matrix Spike	QC	1000	1						1000			07-Sep-17 15:00	07-Sep-17						
1715314-MSD1	Matrix Spike Dup	QC	1000	1						1000			07-Sep-17 15:00	07-Sep-17						
SC38678-01RE1	TF1-EBP-MW1001-082917	8270 PAH DoD	1070	1						1000		11-Sep-17 16	29-Aug-17 10:44	07-Sep-17	Re-extract added 9/12/2017 by CA	K				
SC38778-01	TF1-EBP-GT124R-083117	8270 PAH DoD	1040	1						1000		13-Sep-17 16	31-Aug-17 16:22	07-Sep-17	DoD Level IV/Extra Liter	Clear	L			
SC38778-02	TF1-GT-110-083117	8270 PAH DoD	1030	1						1000		13-Sep-17 16	31-Aug-17 10:56	07-Sep-17	DoD Level IV/Extra Liter yellow	Clear	O			
SC38778-03	TF1-DUP-02-083117	8270 PAH DoD	1030	1						1000		13-Sep-17 16	31-Aug-17 00:00	07-Sep-17	DoD Level IV/Extra Liter yellow	Clear	K			
SC38778-04	TF1-GT-128-083117	8270 PAH DoD	1040	1						1000		13-Sep-17 16	31-Aug-17 14:40	07-Sep-17	DoD Level IV/Extra Liter	Clear	L			
SC38778-05	TF1-GZ-114-083117	8270 PAH DoD	850	1						1000		13-Sep-17 16	31-Aug-17 09:15	07-Sep-17	DoD Level IV/Extra Liter	Clear	K			
SC38778-06	TF1-GZ-117-083117	8270 PAH DoD	960	1						1000		13-Sep-17 16	31-Aug-17 15:05	07-Sep-17	DoD Level IV/Extra Liter yellow	Cloudy	M			
SC38778-09	TF1-GT-112-090117	8270 PAH DoD	980	1						1000		13-Sep-17 16	01-Sep-17 09:00	07-Sep-17	DoD Level IV/Extra Liter yellow	Clear	M			

*[Signature]*  
Analyst Reviewed Date 9/18/17

*[Signature]* WB  
Manager Reviewed Date 10-18-17

*[Signature]*  
Extracts Prepared By Date 9/18/17

PREPARATION BENCH SHEET

\* A = Analyst \* W = Witness

1715314

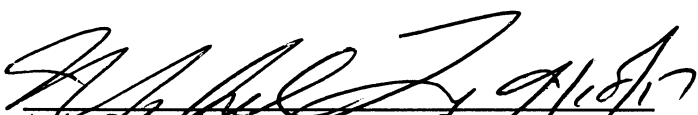
Eurofins Spectrum Analytical, Inc. - MA

Prepared using: SVOC - SW846 3510C

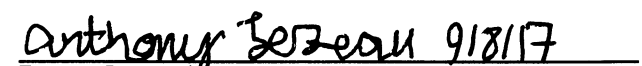
Surrogate used: 17H0260

Matrix: Aqueous

Lab Number	Client Sample ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	A * Init	W * Init	ul Spike	ul Surr	ul Surr 2	Due	Collected	Prepared	Extraction Comments	C	pH BASIC	pH ACID	pH Init	CL
SC38778-10	TF1-GT-120-090117	8270 PAH DoD	1030	1						1000		13-Sep-17 16	01-Sep-17 09:07	07-Sep-17	DoD Level IV/Extra Liter	L				
SC38778-11	TF1-GT-131-090117	8270 PAH DoD	1030	1						1000		13-Sep-17 16	01-Sep-17 09:03	07-Sep-17	DoD Level IV/Extra Liter	J				
SC38778-12	TF1-RB-090117	8270 PAH DoD	1030	1						1000		13-Sep-17 16	01-Sep-17 10:00	07-Sep-17	DoD Level IV/Extra Liter	K				

  
 Analyst Reviewed \_\_\_\_\_ Date 9/13/17

  
 Manager Reviewed \_\_\_\_\_ Date 10/8/17

  
 Extracts Prepared By \_\_\_\_\_ Date 9/18/17

## CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112608005-WE15

SDG #: SC38678

### I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

### II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

### III. METHODS

Analyses were performed according to SW846 8082A.

### IV. PREPARATION

Aqueous samples were prepared according to SW846 3510C.

### V. INSTRUMENTATION

The following equipment was used to analyze SW846 8082A:

HPS12 details: Agilent 6890 series dual column ECD GC with RTX-CLPesticides (30m, 0.53mmID, 0.5um df) & RTX-CLPesticides2 Column (30m, 0.53mmID, 0.42um df)

### VI. ANALYSIS

#### A. Calibration:

All quality control samples were within the acceptance criteria.

#### B. Blanks:

All blanks were within the acceptance criteria.

#### C. Surrogates:

All method criteria were met.

#### D. Spikes:

##### 1. Laboratory Control Samples (LCS):

All method criteria were met.

##### 2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

No matrix spike or matrix spike duplicates were analyzed.

**E. Duplicates:**

A duplicate was analyzed.

In batch 1715132 from source sample TF1-GT-109-082917 (SC38678-05).

All method criteria were met.

**F. Internal Standards:**

Internal standards were within the acceptance criteria.

**G. Samples:**

All method criteria were met.

# FORM II - SURROGATE STANDARD RECOVERY SUMMARY

**SW846 8082A**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Spike ID: 17H0222

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
<b>Blank (1715132-BLK1)</b>	80	90	90	110			0
<b>LCS (1715132-BS1)</b>	90	90	110	105			0
<b>LCS Dup (1715132-BSD1)</b>	90	90	95	115			0
<b>Duplicate (1715132-DUP1)</b>	105	115	130	130			0
<b>Instrument Blank (S708102-IBL1)</b>	90	95	90	95			0
<b>Instrument Blank (S708102-IBL2)</b>	90	95	90	100			0
<b>TF1-GT-109-082917 (SC38678-05)</b>	110	115	115	110			0

**Control Limits**

S1 = 4,4-DB-Octafluorobiphenyl (Sr)            30 - 150  
 S2 = 4,4-DB-Octafluorobiphenyl (Sr) [2C]    30 - 150  
 S3 = Decachlorobiphenyl (Sr)                 40 - 135  
 S4 = Decachlorobiphenyl (Sr) [2C]           40 - 135

# Column to be used to flag recovery values

\* Values outside of QC limits

# FORM VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

**SW846 8082A**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708102

Instrument: HPS12

Matrix: Aqueous

Calibration: 1706075

Analyzed: 09/08/17 18:17

File ID: C1120908.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	108000000	1.35	42942470	1.99								
Upper Limit	216000000	1.85	85884940	2.49								
Lower Limit	54000000	0.85	21471235	1.49								
Sample ID												
Calibration Check (S708102-CCV2)	109000000	1.35	42906540	1.99								
Blank (1715132-BLK1)	105700000	1.35	42282970	1.99								
LCS (1715132-BS1)	99011260	1.35	38673730	2.02								
LCS Dup (1715132-BSD1)	103200000	1.35	36011480	1.99								
Duplicate (1715132-DUP1)	94668910	1.35	36743680	1.99								
Instrument Blank (S708102-IBL1)	109000000	1.36	43721830	2								
Instrument Blank (S708102-IBL2)	113500000	1.35	42535410	2								
TF1-GT-109-082917 (SC38678-05)	98949980	1.35	37465670	2.01								

IS1 = 2,4,5,6-TC-M-Xylene (IS)

IS2 = 2,4,5,6-TC-M-Xylene (IS) [2C]

# Column to be used to flag internal standard area values

\* Values outside of QC limits

Area Upper Limit = 200% of internal standard area

Area Lower Limit = 50% of internal standard area

RT Limit = +/- 0.50

**FORM IV - METHOD BLANK SUMMARY**  
**SW846 8082A**

<u>1715132-BLK1</u>
---------------------

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Laboratory ID:	<u>1715132-BLK1</u>
		Preparation:	<u>SW846 3510C</u>
Analyzed:	<u>09/08/17 18:47</u>	Instrument:	<u>HPS12</u>
Batch:	<u>1715132</u>	Sequence:	<u>S708102</u>
		File ID:	<u>B1120908.D</u>
		Initial/Final:	<u>970 ml / 10 ml</u>
		Calibration:	<u>1706075</u>

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1715132-BS1	L1120908.D	09/08/17	18:56
LCS Dup	1715132-BSD1	L2120908.D	09/08/17	19:06
Duplicate	1715132-DUP1	D1120908.D	09/08/17	19:16
TF1-GT-109-082917	SC38678-05	3867805.D	09/08/17	19:26

**FORM I - ANALYSIS DATA SHEET**  
**SW846 8082A**

1715132-BLK1
--------------

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38678  
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport  
Matrix: Aqueous Laboratory ID: 1715132-BLK1 File ID: B1120908.D  
Preparation: SW846 3510C Initial/Final: 970 ml / 10 ml  
Analyzed: 09/08/17 18:47 Instrument: HPS12  
Batch: 1715132 Sequence: S708102 Calibration: 1706075

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
12674-11-2	Aroclor-1016	1	0.206	U	0.107	0.206	0.206
12674-11-2	Aroclor-1016 [2C]	1	0.206	U	0.125	0.206	0.206
11104-28-2	Aroclor-1221	1	0.206	U	0.119	0.206	0.206
11104-28-2	Aroclor-1221 [2C]	1	0.206	U	0.186	0.206	0.206
11141-16-5	Aroclor-1232	1	0.206	U	0.114	0.206	0.206
11141-16-5	Aroclor-1232 [2C]	1	0.206	U	0.0874	0.206	0.206
53469-21-9	Aroclor-1242	1	0.206	U	0.111	0.206	0.206
53469-21-9	Aroclor-1242 [2C]	1	0.206	U	0.109	0.206	0.206
12672-29-6	Aroclor-1248	1	0.206	U	0.140	0.206	0.206
12672-29-6	Aroclor-1248 [2C]	1	0.206	U	0.129	0.206	0.206
11097-69-1	Aroclor-1254	1	0.206	U	0.120	0.206	0.206
11097-69-1	Aroclor-1254 [2C]	1	0.206	U	0.117	0.206	0.206
11096-82-5	Aroclor-1260	1	0.206	U	0.0877	0.206	0.206
11096-82-5	Aroclor-1260 [2C]	1	0.206	U	0.119	0.206	0.206
37324-23-5	Aroclor-1262	1	0.206	U	0.0924	0.206	0.206
37324-23-5	Aroclor-1262 [2C]	1	0.206	U	0.131	0.206	0.206
11100-14-4	Aroclor-1268	1	0.206	U	0.0943	0.206	0.206
11100-14-4	Aroclor-1268 [2C]	1	0.206	U	0.123	0.206	0.206



# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SW846 8082A**

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix: <u>Aqueous</u>	Instrument: <u>HPS12</u>
Batch: <u>1715132</u>	Laboratory ID: <u>1715132-BS1</u>
Preparation: <u>SW846 3510C</u>	Initial/Final: <u>970 ml / 10 ml</u>
Analyzed: <u>09/08/17 18:56</u>	Spike ID: <u>17E0920</u>
	File ID: <u>L1120908.D</u>

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
Aroclor-1016	2.58	2.69	104	46 - 129
Aroclor-1016 [2C]	2.58	2.60	101	46 - 129
Aroclor-1260	2.58	2.54	98	45 - 134
Aroclor-1260 [2C]	2.58	2.75	107	45 - 134

File ID: L2120908.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Aroclor-1016	2.50	2.58	103	4	30	46 - 129
Aroclor-1016 [2C]	2.50	2.67	107	3	30	46 - 129
Aroclor-1260	2.50	2.37	95	7	30	45 - 134
Aroclor-1260 [2C]	2.50	2.91	116	6	30	45 - 134

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**SW846 8082A**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S705626

Instrument: HPS12

Calibration: 1706075

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Cal Standard	S705626-CAL1	W1120619.D	06/20/17 15:49
Cal Standard	S705626-CAL2	W2120619.D	06/20/17 15:58
Cal Standard	S705626-CAL3	W3120619.D	06/20/17 16:08
Cal Standard	S705626-CAL4	W4120619.D	06/20/17 16:18
Cal Standard	S705626-CAL5	W5120619.D	06/20/17 16:28
Initial Cal Check	S705626-ICV1	W6120619.D	06/20/17 16:38
Low Cal Check	S705626-LCV1	W7120619.D	06/20/17 16:48
Cal Standard	S705626-CAL6	E1120620.D	06/20/17 17:25
Cal Standard	S705626-CAL7	E2120620.D	06/20/17 17:35
Cal Standard	S705626-CAL8	E3120620.D	06/20/17 17:45
Cal Standard	S705626-CAL9	E4120620.D	06/20/17 17:54
Cal Standard	S705626-CALA	E5120620.D	06/20/17 18:04
Initial Cal Check	S705626-ICV2	E6120620.D	06/20/17 18:14
Low Cal Check	S705626-LCV2	E7120620.D	06/20/17 18:24
Cal Standard	S705626-CALB	F1120620.D	06/20/17 18:34
Cal Standard	S705626-CALC	F2120620.D	06/20/17 18:44
Cal Standard	S705626-CALD	F3120620.D	06/20/17 18:53
Cal Standard	S705626-CALE	F4120620.D	06/20/17 19:03
Cal Standard	S705626-CALF	F5120620.D	06/20/17 19:13
Initial Cal Check	S705626-ICV3	F6120620.D	06/20/17 19:23
Low Cal Check	S705626-LCV3	F7120620.D	06/20/17 19:33
Cal Standard	S705626-CALG	G1120620.D	06/20/17 19:43
Cal Standard	S705626-CALH	G2120620.D	06/20/17 19:52
Cal Standard	S705626-CALI	G3120620.D	06/20/17 20:02
Cal Standard	S705626-CALJ	G4120620.D	06/20/17 20:12
Cal Standard	S705626-CALK	G5120620.D	06/20/17 20:22
Initial Cal Check	S705626-ICV4	G6120620.D	06/20/17 20:32
Low Cal Check	S705626-LCV4	G7120620.D	06/20/17 20:41
Cal Standard	S705626-CALL	K1120620.D	06/20/17 20:51
Cal Standard	S705626-CALM	K2120620.D	06/20/17 21:01
Cal Standard	S705626-CALN	K3120620.D	06/20/17 21:11
Cal Standard	S705626-CALO	K4120620.D	06/20/17 21:21
Cal Standard	S705626-CALP	K5120620.D	06/20/17 21:31

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**SW846 8082A**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S705626

Instrument: HPS12

Calibration: 1706075

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Initial Cal Check	S705626-ICV5	K6120620.D	06/20/17 21:40
Low Cal Check	S705626-LCV5	K7120620.D	06/20/17 21:50
Cal Standard	S705626-CALQ	X1120620.D	06/20/17 22:00
Cal Standard	S705626-CALR	X2120620.D	06/20/17 22:10
Cal Standard	S705626-CALS	X3120620.D	06/20/17 22:20
Cal Standard	S705626-CALT	X4120620.D	06/20/17 22:30
Cal Standard	S705626-CALU	X5120620.D	06/20/17 22:39
Initial Cal Check	S705626-ICV6	X6120620.D	06/20/17 22:49
Low Cal Check	S705626-LCV6	X7120620.D	06/20/17 22:59

**FORM IIIc - DUPLICATES**

**TF1-GT-109-082917**

**SW846 8082A**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1715132-DUP1

Batch: 1715132

Lab Source ID: SC38678-05

Preparation: SW846 3510C

Initial/Final: 1000 ml / 10 ml

Source Sample Name: TF1-GT-109-082917

% Solids:

File ID: D1120908.D

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (µg/l)	C	DUPLICATE CONCENTRATION (µg/l)	C	RPD %	Q	METHOD
Aroclor-1016	40	BRL		BDL				SW846 8082A
Aroclor-1016 [2C]	40			BDL				SW846 8082A
Aroclor-1221	40	BRL		BDL				SW846 8082A
Aroclor-1221 [2C]	40			BDL				SW846 8082A
Aroclor-1232	40	BRL		BDL				SW846 8082A
Aroclor-1232 [2C]	40			BDL				SW846 8082A
Aroclor-1242	40	BRL		BDL				SW846 8082A
Aroclor-1242 [2C]	40			BDL				SW846 8082A
Aroclor-1248	40	BRL		BDL				SW846 8082A
Aroclor-1248 [2C]	40			BDL				SW846 8082A
Aroclor-1254	40	BRL		BDL				SW846 8082A
Aroclor-1254 [2C]	40			BDL				SW846 8082A
Aroclor-1260	40	BRL		BDL				SW846 8082A
Aroclor-1260 [2C]	40			BDL				SW846 8082A
Aroclor-1262	40	BRL		BDL				SW846 8082A
Aroclor-1262 [2C]	40			BDL				SW846 8082A
Aroclor-1268	40	BRL		BDL				SW846 8082A
Aroclor-1268 [2C]	40			BDL				SW846 8082A

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

PREPARATION BENCH SHEET

\* A = Analyst \* W = Witness

1715132

**FINAL COPY**

Euofins Spectrum Analytical, Inc. - MA

- Sodium Chloride (NaCl)
- Ottawa Sand
- HCL
- Copper
- Sodium Sulfate (Na2SO4)
- PCB Transformer Oil
- 1:1 H2SO4 Mix
- Iso-octane
- 1ml Syringe I
- 250ul Syringe
- 25ul Syringe III
- 1:1 DCM-Acetone

- 17G0504
- 17H0732
- 17H0221
- 17A0800
- 17H1005
- 10H0132
- 17G1000
- 17B0969
- 15A0480
- 15A0484
- 15A0488
- 17H0945

- Florisil
- Silica gel (EPH)
- Silica gel (TPH)
- Sulfuric Acid (H2SO4)
- MTBE
- Acidified Methanol
- 37% KOH
- 1ml Syringe II
- 100ul Syringe
- 25ul Syringe IV
- pH paper

- 17G0149
- 17H0666
- 17H0665
- 17H0891
- 16I0388
- 17G0302
- 17C0273
- 15A0481
- 15A0485
- 15A0489
- 16A0780

- Methylene Chloride (CH2Cl2)
- Hexane (C6H14)
- Acetone (CH3COCH3)
- Methanol (CH3OH)
- Ether (C2H5OC2H5)
- Acidified Sodium Sulfate
- Sodium Hydroxide (NaOH)
- Sodium Bicarbonate
- 1ml Syringe III
- 25ul Syringe I
- 25ul Syringe V
- Chlorine Chk Strips

- 17H1033
- 17F0370
- 17G0906
- 17E0681
- 17H0567
- 17G0918
- 17G0775
- 14K0424
- 15A0482
- 15A0486
- 15A0490
- 17D0909

- Ethyl Acetate (C4H8O2)
- Aqueous Filter Paper
- Soil Filter Paper
- Gauze Wipe
- 1:1 HCl Mix
- Glass Wool
- Cupric Sulfate Pentahydrate
- 500ul Syringe
- 25ul Syringe II
- 10ul Syringe I
- Balance ID

- 14K0438
- 17H0640
- 17A0428
- 17G0111
- 17H0734
- 15C0951
- 15A0487
- 15A0491

Matrix: Aqueous

Prepared using: SVOC - SW846 3510C

Surrogate used: 17H0222

Lab Number	Client Sample ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	A * Init	W * Init	ul Spike	ul Surr	ul Surr 2	Due	Collected	Prepared	Extraction Comments	C	pH		pH Init	CL
																	BASIC	ACID		
1715132-BLK1	PBLK01	QC	970	10						1000			01-Sep-17 19:00	01-Sep-17						
1715132-BS1	PLCS01	QC	970	10	17E0920					1000			01-Sep-17 19:00	01-Sep-17						
1715132-BSD1	LCS Dup	QC	1000	10	17E0920					1000			01-Sep-17 19:00	01-Sep-17						
1715132-DUP1	Duplicate	QC	1000	10		SC38678-05				1000			29-Aug-17 16:05	01-Sep-17	Cont. N					
SC38678-05	TF1-GT-109-082917	8082 PCBs DoD	950	10						1000		14-Sep-17 16	29-Aug-17 16:05	01-Sep-17	DoD Level IV/Extra Liter	O				
SC38778-02	TF1-GT-110-083117	8082 PCBs DoD	1020	10						1000		13-Sep-17 16	31-Aug-17 10:56	01-Sep-17	DoD Level IV/Extra Liter	L				
SC38778-03	TF1-DUP-02-083117	8082 PCBs DoD	1020	10						1000		13-Sep-17 16	31-Aug-17 00:00	01-Sep-17	DoD Level IV/Extra Liter	N				

Anthony LeBarr 09/13/17  
Analyst Reviewed Date

Anthony LeBarr 9/13/17  
Manager Reviewed Date

Anthony LeBarr 9/17/17  
Extracts Prepared By Date

## CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112608005-WE15

SDG #: SC38678

### I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

### II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

### III. METHODS

Analyses were performed according to SW846 8081B.

### IV. PREPARATION

Aqueous samples were prepared according to SW846 3510C.

### V. INSTRUMENTATION

The following equipment was used to analyze SW846 8081B:

HPS14 details: Agilent 6890 RTX-CLPesticides 2 column (30m, 0.53mmID, 0.42um)  
RTX-CLP confirmation column (30m, 0.53mmID, 0.5um)

### VI. ANALYSIS

#### A. Calibration:

All quality control samples were within the acceptance criteria.

#### B. Blanks:

All blanks were within the acceptance criteria.

#### C. Surrogates:

All method criteria were met.

#### D. Spikes:

##### 1. Laboratory Control Samples (LCS):

All method criteria were met.

##### 2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

No matrix spike or matrix spike duplicates were analyzed.

**E. Duplicates:**

A duplicate was analyzed.

In batch 1715010 from source sample TF1-GT-109-082917 (SC38678-05).

All method criteria were met.

**F. Internal Standards:**

Internal standards were within the acceptance criteria.

**G. Samples:**

All method criteria were met.

# FORM II - SURROGATE STANDARD RECOVERY SUMMARY

**SW846 8081B**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Spike ID: 17H0222

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
<b>Blank (1715010-BLK1)</b>	105	106	78	71			0
<b>LCS (1715010-BS1)</b>	101	101	88	71			0
<b>LCS Dup (1715010-BSD1)</b>	101	101	85	71			0
<b>Duplicate (1715010-DUP1)</b>	137	141	106	105			0
<b>Instrument Blank (S708006-IBL1)</b>	93	94	107	90			0
<b>Instrument Blank (S708006-IBL2)</b>	94	96	107	101			0
<b>TF1-EBP-MW1001-082917 (SC38678-01)</b>	72	76	66	61			0
<b>TF1-EBP-MW1000-082917 (SC38678-02)</b>	129	138	106	110			0
<b>TF1-MW1006-082917 (SC38678-03)</b>	134	139	113	101			0
<b>TF1-MW1002-082917 (SC38678-04)</b>	74	76	61	54			0
<b>TF1-GT-109-082917 (SC38678-05)</b>	130	131	102	92			0
<b>TF1-DUP-01-082917 (SC38678-06)</b>	84	76	59	53			0

**Control Limits**

S1 = 4,4-DB-Octafluorobiphenyl (Sr)                      30 - 150  
 S2 = 4,4-DB-Octafluorobiphenyl (Sr) [2C]              30 - 150  
 S3 = Decachlorobiphenyl (Sr)                              30 - 135  
 S4 = Decachlorobiphenyl (Sr) [2C]                      30 - 135

# Column to be used to flag recovery values

\* Values outside of QC limits



# FORM VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

**SW846 8081B**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA  
 Client: Tetra Tech, Inc. - Salem, NH  
 Sequence: S708006  
 Matrix: Aqueous  
 Analyzed: 09/07/17 22:11

SDG: SC38678  
 Project: WE15 Tank Farm 1 NAVSTA Newport  
 Instrument: HPS14  
 Calibration: 1709015  
 File ID: C3140907.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	81166410	2.65	80437760	2.37								
Upper Limit	162332820	3.15	160875520	2.87								
Lower Limit	40583205	2.15	40218880	1.87								
Sample ID												
Calibration Check (S708006-CCV2)	76713720	2.65	74141700	2.38								
Calibration Check (S708006-CCV3)	75889220	2.65	72407130	2.38								
Calibration Check (S708006-CCV4)	84498780	2.65	77053920	2.37								
Calibration Check (S708006-CCV5)	77662810	2.65	74061870	2.38								
Calibration Check (S708006-CCV6)	77592990	2.65	74578450	2.38								
Blank (1715010-BLK1)	85573700	2.65	78935570	2.38								
LCS (1715010-BS1)	84731020	2.65	79211060	2.38								
LCS Dup (1715010-BSD1)	85832340	2.65	78682690	2.39								
Duplicate (1715010-DUP1)	70858530	2.65	66175830	2.36								
Instrument Blank (S708006-IBL1)	94605500	2.66	96739030	2.37								
Instrument Blank (S708006-IBL2)	75007010	2.66	73442400	2.36								
Performance Mix (S708006-PEM1)	73945500	2.65	70583520	2.37								
Performance Mix (S708006-PEM2)	75469660	2.66	69773980	2.36								
TF1-EBP-MW1001-082917 (SC38678-01)	69126940	2.65	59599340	2.37								
TF1-EBP-MW1000-082917 (SC38678-02)	77086210	2.65	75236840	2.38								
TF1-MW1006-082917 (SC38678-03)	76686060	2.65	72270610	2.38								
TF1-MW1002-082917 (SC38678-04)	69931770	2.65	64667670	2.38								
TF1-GT-109-082917 (SC38678-05)	71689820	2.65	68940900	2.38								
TF1-DUP-01-082917 (SC38678-06)	78390380	2.65	71511170	2.38								

IS1 = 2,4,5,6-TC-M-Xylene (IS)

IS2 = 2,4,5,6-TC-M-Xylene (IS) [2C]

# Column to be used to flag internal standard area values  
 \* Values outside of QC limits

Area Upper Limit = 200% of internal standard area  
 Area Lower Limit = 50% of internal standard area  
 RT Limit = +/- 0.50

**FORM IV - METHOD BLANK SUMMARY**  
**SW846 8081B**

**1715010-BLK1**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport  
 Matrix: Aqueous Laboratory ID: 1715010-BLK1 File ID: B2140907.D  
 Preparation: SW846 3510C Initial/Final: 990 ml / 10 ml  
 Analyzed: 09/07/17 23:04 Instrument: HPS14  
 Batch: 1715010 Sequence: S708006 Calibration: 1709015  
 Column 1: RTX-CLPesticidesII; 0.42um df 0.53mmID 30m  
 Column [2C]: RTX-CLPesticides; 0.5um df 0.53mmID 30m

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1715010-BS1	L3140907.D	09/07/17	23:21
LCS Dup	1715010-BSD1	L4140907.D	09/07/17	23:39
Duplicate	1715010-DUP1	D2140907.D	09/07/17	23:56
TF1-EBP-MW1001-082917	SC38678-01	3867801.D	09/08/17	1:41
TF1-EBP-MW1000-082917	SC38678-02	3867802.D	09/08/17	1:58
TF1-MW1006-082917	SC38678-03	3867803.D	09/08/17	2:15
TF1-MW1002-082917	SC38678-04	3867804.D	09/08/17	2:33
TF1-GT-109-082917	SC38678-05	3867805.D	09/08/17	2:50
TF1-DUP-01-082917	SC38678-06	3867806.D	09/08/17	3:08

**FORM I - ANALYSIS DATA SHEET**  
**SW846 8081B**

**1715010-BLK1**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38678  
 Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport  
 Matrix: Aqueous Laboratory ID: 1715010-BLK1 File ID: B2140907.D  
 Preparation: SW846 3510C Initial/Final: 990 ml / 10 ml  
 Analyzed: 09/07/17 23:04 Instrument: HPS14  
 Batch: 1715010 Sequence: S708006 Calibration: 1709015

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
319-84-6	alpha-BHC	1	0.020	U	0.012	0.020	0.020
319-84-6	alpha-BHC [2C]	1	0.020	U	0.018	0.020	0.020
319-85-7	beta-BHC	1	0.020	U	0.015	0.020	0.020
319-85-7	beta-BHC [2C]	1	0.020	U	0.019	0.020	0.020
319-86-8	delta-BHC	1	0.020	U	0.016	0.020	0.020
319-86-8	delta-BHC [2C]	1	0.020	U	0.019	0.020	0.020
58-89-9	gamma-BHC (Lindane)	1	0.020	U	0.017	0.020	0.020
58-89-9	gamma-BHC (Lindane) [2C]	1	0.020	U	0.018	0.020	0.020
76-44-8	Heptachlor	1	0.020	U	0.020	0.020	0.020
76-44-8	Heptachlor [2C]	1	0.020	U	0.020	0.020	0.020
309-00-2	Aldrin	1	0.020	U	0.016	0.020	0.020
309-00-2	Aldrin [2C]	1	0.020	U	0.019	0.020	0.020
1024-57-3	Heptachlor epoxide	1	0.020	U	0.015	0.020	0.020
1024-57-3	Heptachlor epoxide [2C]	1	0.020	U	0.015	0.020	0.020
959-98-8	Endosulfan I	1	0.020	U	0.016	0.020	0.020
959-98-8	Endosulfan I [2C]	1	0.020	U	0.016	0.020	0.020
60-57-1	Dieldrin	1	0.020	U	0.017	0.020	0.020
60-57-1	Dieldrin [2C]	1	0.020	U	0.019	0.020	0.020
72-55-9	4,4'-DDE (p,p')	1	0.020	U	0.018	0.020	0.020
72-55-9	4,4'-DDE (p,p') [2C]	1	0.020	U	0.018	0.020	0.020
72-20-8	Endrin	1	0.020	U	0.019	0.020	0.040
72-20-8	Endrin [2C]	1	0.020	U	0.020	0.020	0.040
33213-65-9	Endosulfan II	1	0.020	U	0.020	0.020	0.040
33213-65-9	Endosulfan II [2C]	1	0.020	U	0.016	0.020	0.040
72-54-8	4,4'-DDD (p,p')	1	0.020	U	0.019	0.020	0.040
72-54-8	4,4'-DDD (p,p') [2C]	1	0.020	U	0.018	0.020	0.040
1031-07-8	Endosulfan sulfate	1	0.020	U	0.020	0.020	0.040
1031-07-8	Endosulfan sulfate [2C]	1	0.020	U	0.017	0.020	0.040
50-29-3	4,4'-DDT (p,p')	1	0.030	U	0.018	0.030	0.040
50-29-3	4,4'-DDT (p,p') [2C]	1	0.030	U	0.022	0.030	0.040
72-43-5	Methoxychlor	1	0.020	U	0.018	0.020	0.040
72-43-5	Methoxychlor [2C]	1	0.020	U	0.018	0.020	0.040

FORM I - ANALYSIS DATA SHEET  
SW846 8081B

1715010-BLK1

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38678  
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport  
Matrix: Aqueous Laboratory ID: 1715010-BLK1 File ID: B2140907.D  
Preparation: SW846 3510C Initial/Final: 990 ml / 10 ml  
Analyzed: 09/07/17 23:04 Instrument: HPS14  
Batch: 1715010 Sequence: S708006 Calibration: 1709015

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
53494-70-5	Endrin ketone	1	0.020	U	0.017	0.020	0.040
53494-70-5	Endrin ketone [2C]	1	0.020	U	0.018	0.020	0.040
7421-93-4	Endrin aldehyde	1	0.020	U	0.019	0.020	0.040
7421-93-4	Endrin aldehyde [2C]	1	0.020	U	0.018	0.020	0.040
5103-71-9	alpha-Chlordane	1	0.020	U	0.016	0.020	0.020
5103-71-9	alpha-Chlordane [2C]	1	0.020	U	0.017	0.020	0.020
5103-74-2	Chlordane (gamma)(trans)	1	0.020	U	0.016	0.020	0.020
5103-74-2	Chlordane (gamma)(trans) [2C]	1	0.020	U	0.014	0.020	0.020
8001-35-2	Toxaphene	1	0.505	U	0.331	0.505	0.505
8001-35-2	Toxaphene [2C]	1	0.505	U	0.290	0.505	0.505
57-74-9	Chlordane	1	0.066	U	0.052	0.066	0.066
57-74-9	Chlordane [2C]	1	0.066	U	0.062	0.066	0.066
15972-60-8	Alachlor	1	0.020	U	0.019	0.020	0.020
15972-60-8	Alachlor [2C]	1	0.020	U	0.018	0.020	0.020

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SW846 8081B**

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix: <u>Aqueous</u>	Instrument: <u>HPS14</u>
Batch: <u>1715010</u>	Laboratory ID: <u>1715010-BS1</u>
Preparation: <u>SW846 3510C</u>	Initial/Final: <u>980 ml / 10 ml</u>
Analyzed: <u>09/07/17 23:21</u>	Spike ID: <u>17G0198</u>
Column 1: <u>RTX-CLPesticidesII; 0.42um df 0.53mmID 30m</u>	
Column [2C]: <u>RTX-CLPesticides; 0.5um df 0.53mmID 30m</u>	

File ID: L3140907.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	0.510	0.377	74	54 - 138
alpha-BHC [2C]	0.510	0.352	69	54 - 138
beta-BHC	0.510	0.388	76	56 - 136
beta-BHC [2C]	0.510	0.392	77	56 - 136
delta-BHC	0.510	0.381	75	52 - 142
delta-BHC [2C]	0.510	0.360	71	52 - 142
gamma-BHC (Lindane)	0.510	0.390	76	59 - 134
gamma-BHC (Lindane) [2C]	0.510	0.400	78	59 - 134
Heptachlor	0.510	0.376	74	54 - 130
Heptachlor [2C]	0.510	0.376	74	54 - 130
Aldrin	0.510	0.372	73	45 - 134
Aldrin [2C]	0.510	0.392	77	45 - 134
Heptachlor epoxide	0.510	0.388	76	61 - 133
Heptachlor epoxide [2C]	0.510	0.383	75	61 - 133
Endosulfan I	0.510	0.396	78	62 - 126
Endosulfan I [2C]	0.510	0.396	78	62 - 126
Dieldrin	0.510	0.389	76	60 - 136
Dieldrin [2C]	0.510	0.376	74	60 - 136
4,4'-DDE (p,p')	0.510	0.385	75	57 - 135
4,4'-DDE (p,p') [2C]	0.510	0.385	75	57 - 135
Endrin	0.510	0.436	85	60 - 138
Endrin [2C]	0.510	0.423	83	60 - 138
Endosulfan II	0.510	0.410	80	52 - 135
Endosulfan II [2C]	0.510	0.371	73	52 - 135
4,4'-DDD (p,p')	0.510	0.394	77	56 - 143
4,4'-DDD (p,p') [2C]	0.510	0.379	74	56 - 143
Endosulfan sulfate	0.510	0.415	81	62 - 133
Endosulfan sulfate [2C]	0.510	0.367	72	62 - 133

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SW846 8081B**

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix: <u>Aqueous</u>	Instrument: <u>HPS14</u>
Batch: <u>1715010</u>	Laboratory ID: <u>1715010-BS1</u>
Preparation: <u>SW846 3510C</u>	Initial/Final: <u>980 ml / 10 ml</u>
Analyzed: <u>09/07/17 23:21</u>	Spike ID: <u>17G0198</u>
Column 1: <u>RTX-CLPesticidesII; 0.42um df 0.53mmID 30m</u>	
Column [2C]: <u>RTX-CLPesticides; 0.5um df 0.53mmID 30m</u>	

File ID: L3140907.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
4,4'-DDT (p,p')	0.510	0.398	78	51 - 143
4,4'-DDT (p,p') [2C]	0.510	0.334	65	51 - 143
Methoxychlor	0.510	0.447	88	54 - 145
Methoxychlor [2C]	0.510	0.355	70	54 - 145
Endrin ketone	0.510	0.407	80	58 - 134
Endrin ketone [2C]	0.510	0.343	67	58 - 134
Endrin aldehyde	0.510	0.445	87	51 - 132
Endrin aldehyde [2C]	0.510	0.400	78	51 - 132
alpha-Chlordane	0.510	0.393	77	60 - 129
alpha-Chlordane [2C]	0.510	0.390	76	60 - 129
Chlordane (gamma)(trans)	0.510	0.385	75	56 - 136
Chlordane (gamma)(trans) [2C]	0.510	0.381	75	56 - 136
Alachlor	0.510	0.468	92	40 - 140
Alachlor [2C]	0.510	0.387	76	40 - 140

File ID: L4140907.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
alpha-BHC	0.505	0.376	74	0.3	20	54 - 138
alpha-BHC [2C]	0.505	0.351	69	0.5	20	54 - 138
beta-BHC	0.505	0.385	76	0.8	20	56 - 136
beta-BHC [2C]	0.505	0.386	76	2	20	56 - 136
delta-BHC	0.505	0.380	75	0.3	20	52 - 142
delta-BHC [2C]	0.505	0.356	70	1	20	52 - 142
gamma-BHC (Lindane)	0.505	0.388	77	0.5	20	59 - 134
gamma-BHC (Lindane) [2C]	0.505	0.397	79	0.6	20	59 - 134
Heptachlor	0.505	0.374	74	0.7	20	54 - 130
Heptachlor [2C]	0.505	0.376	75	0.05	20	54 - 130

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SW846 8081B**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA  
 Client: Tetra Tech, Inc. - Salem, NH  
 Matrix: Aqueous  
 Batch: 1715010  
 Preparation: SW846 3510C  
 Analyzed: 09/07/17 23:39  
 Column 1: RTX-CLPesticidesII; 0.42um df 0.53mmID 30m  
 Column [2C]: RTX-CLPesticides; 0.5um df 0.53mmID 30m

SDG: SC38678  
 Project: WE15 Tank Farm 1 NAVSTA Newport  
 Instrument: HPS14  
 Laboratory ID: 1715010-BSD1  
 Initial/Final: 990 ml / 10 ml  
 Spike ID: 17G0198

File ID: L4140907.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Aldrin	0.505	0.369	73	0.7	20	45 - 134
Aldrin [2C]	0.505	0.390	77	0.6	20	45 - 134
Heptachlor epoxide	0.505	0.384	76	1	20	61 - 133
Heptachlor epoxide [2C]	0.505	0.378	75	1	20	61 - 133
Endosulfan I	0.505	0.392	78	1	20	62 - 126
Endosulfan I [2C]	0.505	0.389	77	2	20	62 - 126
Dieldrin	0.505	0.383	76	2	20	60 - 136
Dieldrin [2C]	0.505	0.375	74	0.3	20	60 - 136
4,4'-DDE (p,p')	0.505	0.381	75	1	20	57 - 135
4,4'-DDE (p,p') [2C]	0.505	0.382	76	0.7	20	57 - 135
Endrin	0.505	0.418	83	4	20	60 - 138
Endrin [2C]	0.505	0.422	84	0.2	20	60 - 138
Endosulfan II	0.505	0.397	79	3	20	52 - 135
Endosulfan II [2C]	0.505	0.363	72	2	20	52 - 135
4,4'-DDD (p,p')	0.505	0.384	76	3	20	56 - 143
4,4'-DDD (p,p') [2C]	0.505	0.368	73	3	20	56 - 143
Endosulfan sulfate	0.505	0.401	79	3	20	62 - 133
Endosulfan sulfate [2C]	0.505	0.357	71	3	20	62 - 133
4,4'-DDT (p,p')	0.505	0.390	77	2	20	51 - 143
4,4'-DDT (p,p') [2C]	0.505	0.330	65	1	20	51 - 143
Methoxychlor	0.505	0.421	83	6	20	54 - 145
Methoxychlor [2C]	0.505	0.350	69	2	20	54 - 145
Endrin ketone	0.505	0.400	79	2	20	58 - 134
Endrin ketone [2C]	0.505	0.336	66	2	20	58 - 134
Endrin aldehyde	0.505	0.435	86	2	20	51 - 132
Endrin aldehyde [2C]	0.505	0.392	78	2	20	51 - 132
alpha-Chlordane	0.505	0.391	77	0.4	20	60 - 129
alpha-Chlordane [2C]	0.505	0.387	77	0.9	20	60 - 129

**FORM IIIa - LCS / LCS DUPLICATE RECOVERY**

**SW846 8081B**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	HPS14
Batch:	<u>1715010</u>	Laboratory ID:	<u>1715010-BSD1</u>
Preparation:	<u>SW846 3510C</u>	Initial/Final:	<u>990 ml / 10 ml</u>
Analyzed:	<u>09/07/17 23:39</u>	Spike ID:	17G0198
Column 1:	RTX-CLPesticidesII; 0.42um df 0.53mmID 30m		
Column [2C]:	RTX-CLPesticides; 0.5um df 0.53mmID 30m		

File ID: L4140907.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Chlordane (gamma)(trans)	0.505	0.381	75	1	20	56 - 136
Chlordane (gamma)(trans) [2C]	0.505	0.377	75	1	20	56 - 136
Alachlor	0.505	0.460	91	2	20	40 - 140
Alachlor [2C]	0.505	0.387	77	0.1	20	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses



**FORM IIIc - DUPLICATES**

**TF1-GT-109-082917**

**SW846 8081B**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1715010-DUP1

Batch: 1715010

Lab Source ID: SC38678-05

Preparation: SW846 3510C

Initial/Final: 1000 ml / 10 ml

Source Sample Name: TF1-GT-109-082917

% Solids:

File ID: D2140907.D

Column 1: RTX-CLPesticidesII; 0.42um df 0.53mmID 30m

Column [2C]: RTX-CLPesticides; 0.5um df 0.53mmID 30m

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (µg/l)	C	DUPLICATE CONCENTRATION (µg/l)	C	RPD %	Q	METHOD
alpha-BHC	30	BRL		BDL				SW846 8081B
alpha-BHC [2C]	30			BDL				SW846 8081B
beta-BHC	30	BRL		BDL				SW846 8081B
beta-BHC [2C]	30			BDL				SW846 8081B
delta-BHC	30	BRL		BDL				SW846 8081B
delta-BHC [2C]	30			BDL				SW846 8081B
gamma-BHC (Lindane)	30	BRL		BDL				SW846 8081B
gamma-BHC (Lindane) [2C]	30			BDL				SW846 8081B
Heptachlor	30	BRL		BDL				SW846 8081B
Heptachlor [2C]	30			BDL				SW846 8081B
Aldrin	30	BRL		BDL				SW846 8081B
Aldrin [2C]	30			BDL				SW846 8081B
Heptachlor epoxide	30	BRL		BDL				SW846 8081B
Heptachlor epoxide [2C]	30			BDL				SW846 8081B
Endosulfan I	30	BRL		BDL				SW846 8081B
Endosulfan I [2C]	30			BDL				SW846 8081B
Dieldrin	30	BRL		BDL				SW846 8081B
Dieldrin [2C]	30			BDL				SW846 8081B
4,4'-DDE (p,p')	30	BRL		BDL				SW846 8081B
4,4'-DDE (p,p') [2C]	30			BDL				SW846 8081B
Endrin	30	BRL		BDL				SW846 8081B
Endrin [2C]	30			BDL				SW846 8081B
Endosulfan II	30	BRL		BDL				SW846 8081B
Endosulfan II [2C]	30			BDL				SW846 8081B
4,4'-DDD (p,p')	30	BRL		BDL				SW846 8081B
4,4'-DDD (p,p') [2C]	30			BDL				SW846 8081B
Endosulfan sulfate	30	BRL		BDL				SW846 8081B

**FORM IIIc - DUPLICATES**

**TF1-GT-109-082917**

**SW846 8081B**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1715010-DUP1

Batch: 1715010

Lab Source ID: SC38678-05

Preparation: SW846 3510C

Initial/Final: 1000 ml / 10 ml

Source Sample Name: TF1-GT-109-082917

% Solids:

File ID: D2140907.D

Column 1: RTX-CLPesticidesII; 0.42um df 0.53mmID 30m

Column [2C]: RTX-CLPesticides; 0.5um df 0.53mmID 30m

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (µg/l)	C	DUPLICATE CONCENTRATION (µg/l)	C	RPD %	Q	METHOD
Endosulfan sulfate [2C]	30			BDL				SW846 8081B
4,4'-DDT (p,p')	30	BRL		BDL				SW846 8081B
4,4'-DDT (p,p') [2C]	30			BDL				SW846 8081B
Methoxychlor	30	BRL		BDL				SW846 8081B
Methoxychlor [2C]	30			BDL				SW846 8081B
Endrin ketone	30	BRL		BDL				SW846 8081B
Endrin ketone [2C]	30			BDL				SW846 8081B
Endrin aldehyde	30	BRL		BDL				SW846 8081B
Endrin aldehyde [2C]	30			BDL				SW846 8081B
alpha-Chlordane	30	BRL		BDL				SW846 8081B
alpha-Chlordane [2C]	30			BDL				SW846 8081B
Chlordane (gamma)(trans)	30	BRL		BDL				SW846 8081B
Chlordane (gamma)(trans) [2C]	30			BDL				SW846 8081B
Toxaphene	30	BRL		BDL				SW846 8081B
Toxaphene [2C]	30			BDL				SW846 8081B
Chlordane	30	BRL		BDL				SW846 8081B
Chlordane [2C]	30			BDL				SW846 8081B
Alachlor	30	BRL		BDL				SW846 8081B
Alachlor [2C]	30			BDL				SW846 8081B

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

PREPARATION BENCH SHEET

1715010

FINAL COPY

\* A = Analyst \* W = Witness

Eurofins Spectrum Analytical, Inc. - MA

- |   |         |  |         |  |         |  |         |
|---|---------|--|---------|--|---------|--|---------|
| <input type="checkbox"/> Sodium Chloride (NaCl)                                       | 17G0504 | <input type="checkbox"/> Florisil  | 17G0149 | <input type="checkbox"/> Methylene Chloride (CH <sub>2</sub> Cl <sub>2</sub> )                 | 17H1033 | <input type="checkbox"/> Ethyl Acetate (C <sub>4</sub> H <sub>8</sub> O <sub>2</sub> ) | 14K0438 |
| <input type="checkbox"/> Ottawa Sand  | 17H0732 | <input type="checkbox"/> Silica gel (EPH)                                | 17H0666 | <input checked="" type="checkbox"/> Hexane (C <sub>6</sub> H <sub>14</sub> )                   | 17G0939 | <input checked="" type="checkbox"/> Aqueous Filter Paper                               | 17H0640 |
| <input type="checkbox"/> HCL  | 17H0221 | <input type="checkbox"/> Silica gel (TPH)                                | 17H0665 | <input type="checkbox"/> Acetone (CH <sub>3</sub> COCH <sub>3</sub> )                          | 17G0906 | <input type="checkbox"/> Soil Filter Paper   | 17H0545 |
| <input type="checkbox"/> Copper   | 17G0316 | <input type="checkbox"/> Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> ) | 17H0891 | <input type="checkbox"/> Methanol (CH <sub>3</sub> OH)   | 17E0681 |  |         |
| <input checked="" type="checkbox"/> Sodium Sulfate (Na <sub>2</sub> SO <sub>4</sub> ) | 17H1005 |  |         | <input type="checkbox"/> Ether (C <sub>2</sub> H <sub>5</sub> OC <sub>2</sub> H <sub>5</sub> ) | 17H0567 | <input type="checkbox"/> Gauze Wipe  | 17A0428 |
| <input type="checkbox"/> PCB Transformer Oil  | 10H0132 | <input type="checkbox"/> MTBE  | 16I0388 | <input type="checkbox"/> Acidified Sodium Sulfate  | 17G0918 | <input type="checkbox"/> 1:1 HCl Mix   | 17G0111 |
| <input type="checkbox"/> 1:1 H <sub>2</sub> SO <sub>4</sub> Mix                       | 17G1000 | <input type="checkbox"/> Acidified Methanol                              | 17G0302 | <input type="checkbox"/> Sodium Hydroxide (NaOH)   | 17G0775 | <input type="checkbox"/> Glass Wool  | 17H0734 |
| <input type="checkbox"/> Iso-octane   | 17B0969 | <input type="checkbox"/> 37% KOH   | 17C0273 | <input type="checkbox"/> Sodium Bicarbonate  | 14K0424 | <input type="checkbox"/> Cupric Sulfate Pentahydrate                                   |         |
| <input type="checkbox"/> 1ml Syringe I  | 15A0480 | <input type="checkbox"/> 1ml Syringe II                                  | 15A0481 | <input type="checkbox"/> 1ml Syringe III   | 15A0482 | <input type="checkbox"/> 500ul Syringe   | 15C0951 |
| <input type="checkbox"/> 250ul Syringe  | 15A0484 | <input type="checkbox"/> 100ul Syringe                                   | 15A0485 | <input type="checkbox"/> 25ul Syringe I  | 15A0486 | <input type="checkbox"/> 25ul Syringe II   | 15A0487 |
| <input type="checkbox"/> 25ul Syringe III   | 15A0488 | <input type="checkbox"/> 25ul Syringe IV                                 | 15A0489 | <input type="checkbox"/> 25ul Syringe V  | 15A0490 | <input type="checkbox"/> 10ul Syringe I  | 15A0491 |
| <input type="checkbox"/> 1:1 DCM-Acetone  | 17H0945 | <input checked="" type="checkbox"/> pH paper                             | 16A0780 | <input type="checkbox"/> Chlorine Chk Strips   | 17D0909 | Balance ID   |         |

Matrix: Aqueous

Prepared using: SVOC - SW846 3510C

Surrogate used: 17H0222

Lab Number	Client Sample ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	A * Init	W * Init	ul Spike	ul Surr	ul Surr 2	Due	Collected	Prepared	Extraction Comments	C	pH		pH Init	CL
																	BASIC	ACID		
1715010-BLK1	Blank	QC	990	10						1000			01-Sep-17 08:00	01-Sep-17						
1715010-BS1	LCS	QC	980	10	17G0198				1000	1000			01-Sep-17 08:00	01-Sep-17						
1715010-BSD1	LCS Dup	QC	990	10	17G0198				1000	1000			01-Sep-17 08:00	01-Sep-17						
1715010-DUP1	Duplicate	QC	1000	10		SC38678-05				1000			29-Aug-17 16:05	01-Sep-17	Cont. N					
1715010-MS1	Matrix Spike	QC	1040	10	17G0198	SC38733-04			1000	1000			30-Aug-17 10:10	01-Sep-17	Cont. AG					
1715010-MSD1	Matrix Spike Dup	QC	1030	10	17G0198	SC38733-04			1000	1000			30-Aug-17 10:10	01-Sep-17	Cont. AD					
SC38627-01	TF1-MW-1003-082817	8081 Pesticides DoD	950	10						1000			13-Sep-17 16	28-Aug-17 15:30	01-Sep-17	DoD Level IV/Extra Liter	M			
SC38627-02	TF1-EBP-GZ101R-082817	8081 Pesticides DoD	1040	10						1000			13-Sep-17 16	28-Aug-17 15:16	01-Sep-17	DoD Level IV/Extra Liter	K			
SC38627-03	TF1-GT-106-082817	8081 Pesticides DoD	1020	10						1000			13-Sep-17 16	28-Aug-17 15:25	01-Sep-17	DoD Level IV/Extra Liter	J			
SC38678-01	TF1-EBP-MW1001-082917	8081 Pesticides DoD	1060	10						1000			11-Sep-17 16	29-Aug-17 10:44	01-Sep-17	DoD Level IV/Extra Liter	J			
SC38678-02	TF1-EBP-MW1000-082917	8081 Pesticides DoD	1070	10						1000			11-Sep-17 16	29-Aug-17 14:52	01-Sep-17	DoD Level IV/Extra Liter	J			
SC38678-03	TF1-MW1006-082917	8081 Pesticides DoD	960	10						1000			11-Sep-17 16	29-Aug-17 10:25	01-Sep-17	DoD Level IV/Extra Liter	K			
SC38678-04	TF1-MW1002-082917	8081 Pesticides DoD	950	10						1000			11-Sep-17 16	29-Aug-17 11:05	01-Sep-17	DoD Level IV/Extra Liter	J			

S. Malleaga 9/11/17  
 Analyst Reviewed Date

[Signature] 9/11/17  
 Manager Reviewed Date

[Signature] 9/11/17  
 Extracts Prepared By Date

PREPARATION BENCH SHEET

\* A = Analyst \* W = Witness

1715010

Eurofins Spectrum Analytical, Inc. - MA

Prepared using: SVOC - SW846 3510C

Surrogate used: 17H0222

Matrix: Aqueous

Lab Number	Client Sample ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	A * Init	W * Init	ul Spike	ul Surr	ul Surr 2	Due	Collected	Prepared	Extraction Comments	C	pH BASIC	pH ACID	pH Init	CL
SC38678-05	TF1-GT-109-082917	8081 Pesticides DoD	950	10						1000		11-Sep-17 16	29-Aug-17 16:05	01-Sep-17	DoD Level IV/Extra Liter	O				
SC38678-06	TF1-DUP-01-082917	8081 Pesticides DoD	940	10						1000		11-Sep-17 16	29-Aug-17 12:00	01-Sep-17	DoD Level IV/Extra Liter	M				
SC38733-01	TF1-MW-1007-083017	8081 Pesticides DoD	1040	10						1000		12-Sep-17 16	30-Aug-17 10:52	01-Sep-17	DoD Level IV/Extra Liter	J				
SC38733-02	TF1-MW-1007D-083017	8081 Pesticides DoD	1020	10						1000		12-Sep-17 16	30-Aug-17 14:55	01-Sep-17	DoD Level IV/Extra Liter	L				
SC38733-03	TF1-GZ-112-083017	8081 Pesticides DoD	940	10						1000		12-Sep-17 16	30-Aug-17 14:20	01-Sep-17	DoD Level IV/Extra Liter	K				
SC38733-04	TF1-MW-1005-083017	8081 Pesticides DoD	1040	10						1000		12-Sep-17 16	30-Aug-17 10:10	01-Sep-17	Run MS/MSD/DoD Level IV/Extra Liter	AI				
SC38733-05	TF1-GZ-118-083017	8081 Pesticides DoD	1030	10						1000		12-Sep-17 16	30-Aug-17 15:05	01-Sep-17	DoD Level IV/Extra Liter	K				

S. M. Ortega 9/11/17  
Analyst Reviewed Date

[Signature] 9/11/17  
Manager Reviewed Date

[Signature] 9/11/17  
Extracts Prepared By Date

## CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112608005-WE15

SDG #: SC38678

### I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

### II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

### III. METHODS

Analyses were performed according to Mod EPA 3C/SOP RSK-175.

### IV. PREPARATION

Aqueous samples were prepared according to General Air Prep.

### V. INSTRUMENTATION

The following equipment was used to analyze Mod EPA 3C/SOP RSK-175:

Air5 details: Perkin-Elmer / Arnel Clarus 500 GC  
TCD detector 7' HayeSep N 60/80, 1/8" SF column  
9' Molecular Sieve 13x45/60, 1/8" SF column

### VI. ANALYSIS

#### A. Calibration:

All quality control samples were within the acceptance criteria.

#### B. Blanks:

All blanks were within the acceptance criteria.

#### C. Spikes:

##### 1. Laboratory Control Samples (LCS):

All method criteria were met.

##### 2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

No matrix spike or matrix spike duplicates were analyzed.

**D. Duplicates:**

No client requested duplicate. However, the method criteria may have been fulfilled with non-SDG source samples.

**E. Samples:**

All method criteria were met.

**FORM IV - METHOD BLANK SUMMARY**  
**Mod EPA 3C/SOP RSK-175**

<b>1715310-BLK1</b>
---------------------

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Laboratory ID:	<u>1715310-BLK1</u>
		File ID:	<u>090717-chanb-004-0</u>
		Preparation:	<u>General Air Prep</u>
		Initial/Final:	<u>10 µg / 10 µg</u>
Analyzed:	<u>09/07/17 10:14</u>	Instrument:	<u>Air5</u>
Batch:	<u>1715310</u>	Sequence:	<u>S707962</u>
		Calibration:	<u>1707028</u>

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1715310-BS1	090717-chanb-003-0	09/07/17	9:39
TF1-EBP-MW1001-082917	SC38678-01	090717-chanb-009-0	09/07/17	12:58
TF1-EBP-MW1000-082917	SC38678-02	090717-chanb-010-0	09/07/17	13:32
TF1-MW1006-082917	SC38678-03	090717-chanb-011-0	09/07/17	14:14
TF1-MW1002-082917	SC38678-04	090717-chanb-012-0	09/07/17	14:39
TF1-GT-109-082917	SC38678-05	090717-chanb-013-0	09/07/17	15:15
TF1-DUP-01-082917	SC38678-06	090717-chanb-014-0	09/07/17	15:38

**FORM I - AIR ANALYSIS DATA SHEET**  
**Mod EPA 3C/SOP RSK-175**

**1715310-BLK1**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC38678  
Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport  
Matrix: Aqueous Laboratory ID: 1715310-BLK1 File ID: 090717-chanb-004-0  
Preparation: General Air Prep Initial/Final: 10 µg / 10 µg  
Analyzed: 09/07/17 10:14 Instrument: Air5  
Batch: 1715310 Sequence: S707962 Calibration: 1707028  
Units: µg/l

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
74-82-8	Methane	2.20	U	2.16	2.20	2.20
74-84-0	Ethane	5.00	U	3.48	5.00	5.00



**FORM IIIa - LCS / LCS DUPLICATE RECOVERY****Mod EPA 3C/SOP RSK-175**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
Matrix: Aqueous    Instrument: Air5  
Batch: 1715310    Laboratory ID: 1715310-BS1  
Preparation: General Air Prep    Initial/Final: 10 µg / 10 µg  
Analyzed: 09/07/17 09:39    Spike ID: 17F0404  
File ID: 090717-chanb-003-0

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Methane	500	527	105	73 - 125
Ethane	500	596	119	74 - 131

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**Mod EPA 3C/SOP RSK-175**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S706268

Instrument: Air5

Calibration: 1707028

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Cal Standard	S706268-CAL1	071117-chanB-002-0	07/11/17 08:55
Cal Standard	S706268-CAL2	071117-chanB-003-0	07/11/17 09:27
Cal Standard	S706268-CAL3	071117-chanB-004-0	07/11/17 10:24
Cal Standard	S706268-CAL4	071117-chanB-005-0	07/11/17 10:49
Cal Standard	S706268-CAL5	071117-chanB-006-0	07/11/17 11:19
Cal Standard	S706268-CAL6	071117-chanB-009-0	07/11/17 13:34
Cal Standard	S706268-CAL7	071117-chanB-010-0	07/11/17 14:03
Low Cal Check	S706268-LCV1	071117-chanB-012-0	07/11/17 15:51
Initial Cal Check	S706268-ICV1	071117-chanB-014-0	07/11/17 16:44

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**Mod EPA 3C/SOP RSK-175**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Sequence:	<u>S707962</u>	Instrument:	<u>Air5</u>
		Calibration:	<u>1707028</u>

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	S707962-CCV1	090717-chanb-001-0	09/07/17 08:30
LCS	1715310-BS1	090717-chanb-003-0	09/07/17 09:39
Blank	1715310-BLK1	090717-chanb-004-0	09/07/17 10:14
TF1-EBP-MW1001-082917	SC38678-01	090717-chanb-009-0	09/07/17 12:58
TF1-EBP-MW1000-082917	SC38678-02	090717-chanb-010-0	09/07/17 13:32
TF1-MW1006-082917	SC38678-03	090717-chanb-011-0	09/07/17 14:14
TF1-MW1002-082917	SC38678-04	090717-chanb-012-0	09/07/17 14:39
TF1-GT-109-082917	SC38678-05	090717-chanb-013-0	09/07/17 15:15
TF1-DUP-01-082917	SC38678-06	090717-chanb-014-0	09/07/17 15:38
Calibration Check	S707962-CCV2	090717-chanb-015-0	09/07/17 16:01

PREPARATION BENCH SHEET

1715310

Method No.: 1107028

Sequence No.: 5707962

Matrix: Aqueous

Prepared using: Air - General Air Prep

Surrogate used: 17D0155

Lab Number	Client Sample ID	Collected	Initial (µg)	Final (µg)	Spike ID	Source ID	Analysis	Due	Pres.	RPD	Comments
1715310-BLK1	Blank	07-Sep-17 06:00	10	10			QC				
1715310-BS1	LCS	07-Sep-17 06:00	10	10	17F0404		QC				
1715310-DUP1	Duplicate	28-Aug-17 15:30	10	10		SC38627-01	QC				
SC38627-01	TF1-MW-1003-082817	28-Aug-17 15:30	10	10			Dissolved Gases	08-Sep-17 16:00			DoD Level IV / Methane & Ethane
SC38627-02	TF1-EBP-GZ101R-082817	28-Aug-17 15:16	10	10			Dissolved Gases	08-Sep-17 16:00			DoD Level IV / Methane & Ethane
SC38627-03	TF1-GT-106-082817	28-Aug-17 15:25	10	10			Dissolved Gases	08-Sep-17 16:00			DoD Level IV / Methane & Ethane
SC38678-01	TF1-EBP-MW1001-082917	29-Aug-17 10:44	10	10			Dissolved Gases	11-Sep-17 16:00			DoD Level IV / Methane & Ethane
SC38678-02	TF1-EBP-MW1000-082917	29-Aug-17 14:52	10	10			Dissolved Gases	11-Sep-17 16:00			DoD Level IV / Methane & Ethane
SC38678-03	TF1-MW1006-082917	29-Aug-17 10:25	10	10			Dissolved Gases	11-Sep-17 16:00			DoD Level IV / Methane & Ethane
SC38678-04	TF1-MW1002-082917	29-Aug-17 11:05	10	10			Dissolved Gases	11-Sep-17 16:00			DoD Level IV / Methane & Ethane
SC38678-05	TF1-GT-109-082917	29-Aug-17 16:05	10	10			Dissolved Gases	11-Sep-17 16:00			DoD Level IV / Methane & Ethane
SC38678-06	TF1-DUP-01-082917	29-Aug-17 12:00	10	10			Dissolved Gases	11-Sep-17 16:00			DoD Level IV / Methane & Ethane

Air5  
9/7/17  
diss gas  
SAD

*Samantha Dean* 9/8/17  
Analyst Reviewed Date

*[Signature]*  
Manager Reviewed

09/08/17  
Date

BEF  
Sequence Reviewed By

9/8/17  
Date

## CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112608005-WE15

SDG #: SC38678

### I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

### II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

### III. METHODS

Analyses were performed according to SW846 6010C.

### IV. PREPARATION

Aqueous samples were prepared according to SW846 3005A.

### V. INSTRUMENTATION

The following equipment was used to analyze SW846 6010C:

iCAP5 details: Thermo ICAP 6000 series CETAC Autosampler

All sample data within this SDG was generated after ICP-AES interelement corrections and background corrections were applied.

Samples are diluted when concentrations exceed the highest calibration standard in the associated curve, therefore Linear Ranges are not performed.

### VI. ANALYSIS

#### A. Calibration:

All quality control samples were within the acceptance criteria.

#### B. Blanks:

All blanks were within the acceptance criteria.

#### C. Spikes:

##### 1. Laboratory Control Samples (LCS):

All method criteria were met.

##### 2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1715587 from source sample TF1-DUP-01-082917 (SC38678-06).

All method criteria were met.

**3. Post Spike Samples (PS):**

A post spike was analyzed.

In batch 1715587 from source sample TF1-DUP-01-082917 (SC38678-06).

All method criteria were met.

**D. Duplicates:**

A duplicate was analyzed.

In batch 1715587 from source sample TF1-DUP-01-082917 (SC38678-06).

All method criteria were met.

**E. Serial Dilutions:**

No serial dilution was performed for this sample delivery group.

**F. Samples:**

All method criteria were met.

# Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
Iron	0.0089	0.0300	mg/l
Potassium	0.120	1.00	mg/l
Sodium	0.0785	0.500	mg/l
Aluminum	0.0206	0.0500	mg/l
Calcium	0.0142	0.200	mg/l
Magnesium	0.0088	0.0200	mg/l

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**SW846 6010C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710180

Instrument: ICAP5

Calibration: 1711040

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Cal Standard	S710180-CAL1	20170918-001	09/18/17 09:26
Cal Standard	S710180-CAL2	20170918-002	09/18/17 09:30
Cal Standard	S710180-CAL3	20170918-003	09/18/17 09:34
Cal Standard	S710180-CAL4	20170918-004	09/18/17 09:38
Cal Standard	S710180-CAL5	20170918-005	09/18/17 09:42
Cal Standard	S710180-CAL6	20170918-006	09/18/17 09:45
Cal Standard	S710180-CAL7	20170918-007	09/18/17 09:49
Cal Standard	S710180-CAL8	20170918-008	09/18/17 09:54
Cal Standard	S710180-CAL9	20170918-009	09/18/17 09:58
Cal Standard	S710180-CAL9	20170918-010	09/18/17 10:05
Initial Cal Check	S710180-ICV1	20170918-011	09/18/17 10:12
Initial Cal Blank	S710180-ICB1	20170918-012	09/18/17 10:17
Instrument RL Check	S710180-CRL1	20170918-013	09/18/17 10:22
Instrument RL Check	S710180-CRL2	20170918-014	09/18/17 10:27
Calibration Check	S710180-CCV1	20170918-017	09/18/17 10:43
Calibration Blank	S710180-CCB1	20170918-018	09/18/17 10:48



# METALS ANALYSIS RUN LOG

**SW846 6010C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710180

Instrument: ICAP5

Calibration: 1711040

Sample Name	Lab ID	D/F	Time	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	S U	T L	V	Z N		
Cal Standard	S710180-CAL1	1	09/18/17 09:26	X					X				X	X					X			X							
Cal Standard	S710180-CAL2	1	09/18/17 09:30	X					X				X	X					X			X							
Cal Standard	S710180-CAL3	1	09/18/17 09:34	X					X				X	X					X			X							
Cal Standard	S710180-CAL4	1	09/18/17 09:38	X					X				X	X					X			X							
Cal Standard	S710180-CAL5	1	09/18/17 09:42	X					X				X	X					X			X							
Cal Standard	S710180-CAL6	1	09/18/17 09:45	X					X				X	X					X			X							
Cal Standard	S710180-CAL7	1	09/18/17 09:49	X					X				X	X					X			X							
Cal Standard	S710180-CAL8	1	09/18/17 09:54	X					X				X	X					X			X							
Cal Standard	S710180-CAL9	1	09/18/17 09:58	X					X										X			X							
Cal Standard	S710180-CAL9	1	09/18/17 10:05										X																
Initial Cal Check	S710180-ICV1	1	09/18/17 10:12	X					X				X	X					X			X							
Initial Cal Blank	S710180-ICB1	1	09/18/17 10:17	X					X				X	X					X			X							
Instrument RL Check	S710180-CRL1	1	09/18/17 10:22	X					X					X					X			X							
Instrument RL Check	S710180-CRL2	1	09/18/17 10:27	X					X				X	X					X			X							
Calibration Check	S710180-CCV1	1	09/18/17 10:43	X					X				X	X					X			X							
Calibration Blank	S710180-CCB1	1	09/18/17 10:48	X					X				X	X					X			X							

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**SW846 6010C**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Sequence:	<u>S710181</u>	Instrument:	<u>ICAP5</u>
		Calibration:	<u>1711040</u>

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Blank	S710181-CCB5	20170918-286	09/19/17 09:33

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**SW846 6010C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710181

Instrument: ICAP5

Calibration: 1711040

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	S710181-CCV1	20170918-240	09/19/17 05:38
Calibration Blank	S710181-CCB1	20170918-241	09/19/17 05:43
Instrument RL Check	S710181-CRL1	20170918-242	09/19/17 05:48
Instrument RL Check	S710181-CRL2	20170918-243	09/19/17 05:53
Blank	1715587-BLK1	20170918-244	09/19/17 05:58
LCS	1715587-BS1	20170918-245	09/19/17 06:03
LCS Dup	1715587-BSD1	20170918-246	09/19/17 06:08
TF1-EBP-MW1001-082917	SC38678-01	20170918-247	09/19/17 06:13
TF1-EBP-MW1000-082917	SC38678-02	20170918-248	09/19/17 06:18
TF1-MW1006-082917	SC38678-03	20170918-249	09/19/17 06:24
TF1-MW1002-082917	SC38678-04	20170918-250	09/19/17 06:29
TF1-GT-109-082917	SC38678-05	20170918-251	09/19/17 06:34
TF1-DUP-01-082917	S710181-SRD1	20170918-252	09/19/17 06:39
TF1-DUP-01-082917	SC38678-06	20170918-253	09/19/17 06:44
Calibration Check	S710181-CCV2	20170918-254	09/19/17 06:49
Calibration Blank	S710181-CCB2	20170918-255	09/19/17 06:54
TF1-DUP-01-082917	1715587-DUP1	20170918-256	09/19/17 07:00
TF1-DUP-01-082917	1715587-MS1	20170918-257	09/19/17 07:05
TF1-DUP-01-082917	1715587-MSD1	20170918-258	09/19/17 07:10
TF1-DUP-01-082917	1715587-PS1	20170918-259	09/19/17 07:15
Instrument RL Check	S710181-CRL3	20170918-260	09/19/17 07:20
Instrument RL Check	S710181-CRL4	20170918-261	09/19/17 07:25
Interference Check A	S710181-IFA1	20170918-262	09/19/17 07:30
Interference Check B	S710181-IFB1	20170918-263	09/19/17 07:35
Calibration Check	S710181-CCV3	20170918-264	09/19/17 07:40
Calibration Blank	S710181-CCB3	20170918-265	09/19/17 07:45
Calibration Check	S710181-CCV4	20170918-276	09/19/17 08:42
Calibration Blank	S710181-CCB4	20170918-277	09/19/17 08:47
Instrument RL Check	S710181-CRL5	20170918-281	09/19/17 09:07
Instrument RL Check	S710181-CRL6	20170918-282	09/19/17 09:12
Interference Check A	S710181-IFA2	20170918-283	09/19/17 09:17
Interference Check B	S710181-IFB2	20170918-284	09/19/17 09:23
Calibration Check	S710181-CCV5	20170918-285	09/19/17 09:28

# METALS ANALYSIS RUN LOG

**SW846 6010C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710181

Instrument: ICAP5

Calibration: 1711040

Sample Name	Lab ID	D/F	Time	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	S U	T L	V	Z N		
Calibration Check	S710181-CCV1	1	09/19/17 05:38	X					X				X	X					X			X							
Calibration Blank	S710181-CCB1	1	09/19/17 05:43	X					X				X	X					X			X							
Instrument RL Check	S710181-CRL1	1	09/19/17 05:48	X					X				X	X					X			X							
Instrument RL Check	S710181-CRL2	1	09/19/17 05:53	X					X				X	X					X			X							
Blank	1715587-BLK1	1	09/19/17 05:58	X					X				X	X					X			X							
LCS	1715587-BS1	1	09/19/17 06:03	X					X				X	X					X			X							
LCS Dup	1715587-BSD1	1	09/19/17 06:08	X					X				X	X					X			X							
TF1-EBP-MW1001-0	SC38678-01	1	09/19/17 06:13	X					X				X	X					X			X							
TF1-EBP-MW1000-0	SC38678-02	1	09/19/17 06:18	X					X				X	X					X			X							
TF1-MW1006-08291	SC38678-03	1	09/19/17 06:24	X					X				X	X					X			X							
TF1-MW1002-08291	SC38678-04	1	09/19/17 06:29	X					X				X	X					X			X							
TF1-GT-109-082917	SC38678-05	1	09/19/17 06:34	X					X				X	X					X			X							
TF1-DUP-01-082917	S710181-SRD1	5	09/19/17 06:39	X					X				X	X					X			X							
TF1-DUP-01-082917	SC38678-06	1	09/19/17 06:44	X					X				X	X					X			X							
Calibration Check	S710181-CCV2	1	09/19/17 06:49	X					X				X	X					X			X							
Calibration Blank	S710181-CCB2	1	09/19/17 06:54	X					X				X	X					X			X							
TF1-DUP-01-082917	1715587-DUP1	1	09/19/17 07:00	X					X				X	X					X			X							
TF1-DUP-01-082917	1715587-MS1	1	09/19/17 07:05	X					X				X	X					X			X							
TF1-DUP-01-082917	1715587-MSD1	1	09/19/17 07:10	X					X				X	X					X			X							
TF1-DUP-01-082917	1715587-PS1	1	09/19/17 07:15	X					X				X	X					X			X							
Instrument RL Check	S710181-CRL3	1	09/19/17 07:20	X					X				X	X					X			X							
Instrument RL Check	S710181-CRL4	1	09/19/17 07:25	X					X				X	X					X			X							
Interference Check A	S710181-IFA1	1	09/19/17 07:30	X					X				X	X					X			X							
Interference Check B	S710181-IFB1	1	09/19/17 07:35	X					X				X	X					X			X							
Calibration Check	S710181-CCV3	1	09/19/17 07:40	X					X				X	X					X			X							
Calibration Blank	S710181-CCB3	1	09/19/17 07:45	X					X				X	X					X			X							
Calibration Check	S710181-CCV4	1	09/19/17 08:42	X					X				X	X					X			X							
Calibration Blank	S710181-CCB4	1	09/19/17 08:47	X					X				X	X					X			X							
Instrument RL Check	S710181-CRL5	1	09/19/17 09:07	X					X				X	X					X			X							
Instrument RL Check	S710181-CRL6	1	09/19/17 09:12	X					X				X	X					X			X							
Interference Check A	S710181-IFA2	1	09/19/17 09:17	X					X				X	X					X			X							
Interference Check B	S710181-IFB2	1	09/19/17 09:23	X					X				X	X					X			X							
Calibration Check	S710181-CCV5	1	09/19/17 09:28	X					X				X	X					X			X							
Calibration Blank	S710181-CCB5	1	09/19/17 09:33	X					X				X	X					X			X							

**FORM III - BLANKS****SW846 6010C**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC38678Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportInstrument ID: ICAP5Calibration: 1711040Sequence: S710180

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S710180-ICB1	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S710180-CCB1	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C

# FORM III - BLANKS

**SW846 6010C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: ICAP5

Calibration: 1711040

Sequence: S710181

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S710181-CCB1	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
1715587-BLK1	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S710181-CCB2	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	0.0148	0.200	mg/l	J	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S710181-CCB3	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S710181-CCB4	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S710181-CCB5	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	BRL	0.200	mg/l	U	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C

# FORM IV - ICP INTERFERENCE CHECK SAMPLE

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: ICAP5

Calibration: 1711040

Sequence: S710181

Units: mg/l

Lab Sample ID	Analyte	True	Found	%R
S710181-IFA1	Iron	100	101.00000	101
	Potassium		-0.05870	
	Sodium		-0.05230	
	Aluminum	250	273.30000	109
	Calcium	250	267.80000	107
	Magnesium	250	248.40000	99
S710181-IFB1	Iron	100	92.62000	93
	Potassium		-0.05890	
	Sodium		-0.06430	
	Aluminum	250	257.80000	103
	Calcium	250	243.40000	97
	Magnesium	250	233.90000	94
S710181-IFA2	Iron	100	91.11000	91
	Potassium		-0.05430	
	Sodium		-0.07330	
	Aluminum	250	250.80000	100
	Calcium	250	243.20000	97
	Magnesium	250	224.00000	90
S710181-IFB2	Iron	100	92.33000	92
	Potassium		-0.05540	
	Sodium		-0.07720	
	Aluminum	250	257.90000	103
	Calcium	250	245.30000	98
	Magnesium	250	228.70000	91

\* Values outside of QC limits (Acceptance Limits: +/- 20% of the true value or +/- 2xMRL)

# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SW846 6010C**

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix: <u>Aqueous</u>	Instrument: <u>ICAP5</u>
Batch: <u>1715587</u>	Laboratory ID: <u>1715587-BS1</u>
Preparation: <u>SW846 3005A</u>	Initial/Final: <u>50 ml / 50 ml</u>
Analyzed: <u>09/19/17 06:03</u>	Spike ID: <u>17H1034</u>
	File ID: <u>20170918-245</u>

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Iron	2.50	2.51	101	87 - 115
Potassium	25.0	24.4	98	86 - 114
Sodium	12.5	12.0	96	87 - 115
Aluminum	2.50	2.51	101	86 - 115
Calcium	12.5	12.5	100	87 - 113
Magnesium	2.50	2.48	99	85 - 113

File ID: 20170918-246

COMPOUND	SPIKE ADDED (mg/l)	LCSD CONCENTRATION (mg/l)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Iron	2.50	2.60	104	3	20	87 - 115
Potassium	25.0	25.0	100	2	20	86 - 114
Sodium	12.5	12.3	98	2	20	87 - 115
Aluminum	2.50	2.53	101	0.5	20	86 - 115
Calcium	12.5	12.9	103	3	20	87 - 113
Magnesium	2.50	2.57	103	4	20	85 - 113

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses



**FORM IIIb (Organic) / FORM V (Inorganic)**  
**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY**

**TF1-DUP-01-082917**

**SW846 6010C**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	<u>ICAP5</u>
Batch:	<u>1715587</u>	Laboratory ID:	<u>1715587-MS1</u>
Preparation:	<u>SW846 3005A</u>	Initial/Final:	<u>50 ml / 50 ml</u>
Source Sample Name:	<u>TF1-DUP-01-082917</u>	% Solids:	
		Spike ID:	17H1034
		File ID:	<u>20170918-257</u>

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Iron	2.50	17.9	20.7	112	87 - 115
Potassium	25.0	1.50	27.5	104	86 - 114
Sodium	12.5	22.5	36.2	110	87 - 115
Aluminum	2.50	BRL	2.60	104	86 - 115
Calcium	12.5	8.65	21.8	105	87 - 113
Magnesium	2.50	7.58	10.4	113	85 - 113

File ID: 20170918-258

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Iron	2.50	20.6	106	0.8	20	87 - 115
Potassium	25.0	26.9	101	2	20	86 - 114
Sodium	12.5	35.3	102	3	20	87 - 115
Aluminum	2.50	2.59	104	0.6	20	86 - 115
Calcium	12.5	21.8	105	0.05	20	87 - 113
Magnesium	2.50	10.1	99	3	20	85 - 113

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

**FORM Vb - POST DIGEST SPIKE SAMPLE RECOVERY**

TF1-DUP-01-082917

**SW846 6010C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1715587-PS1

Batch: 1715587

Lab Source ID: SC38678-06

Preparation: SW846 3005A

Initial/Final: 50 ml / 50 ml

Source Sample Name: TF1-DUP-01-082917

% Solids:

Analyte	Control Limit %R	Spike Sample Result (SSR) (mg/l)	Sample Result (SR) (mg/l)	Spike Added (SA) (mg/l)	%R	Method
Iron	80 - 120	20.0	17.9	2.50	85	SW846 6010C
Potassium	80 - 120	26.7	1.50	25.0	101	SW846 6010C
Sodium	80 - 120	35.0	22.5	12.5	100	SW846 6010C
Aluminum	80 - 120	2.54	BRL	2.50	102	SW846 6010C
Calcium	80 - 120	21.2	8.65	12.5	100	SW846 6010C
Magnesium	80 - 120	9.98	7.58	2.50	96	SW846 6010C

\* Values outside of QC limits

**FORM IIIc - DUPLICATES**

**TF1-DUP-01-082917**

**SW846 6010C**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1715587-DUP1

Batch: 1715587

Lab Source ID: SC38678-06

Preparation: SW846 3005A

Initial/Final: 50 ml / 50 ml

Source Sample Name: TF1-DUP-01-082917

% Solids:

File ID: 20170918-256

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l)	C	DUPLICATE CONCENTRATION (mg/l)	C	RPD %	Q	METHOD
Iron	20	17.9		17.8		0.8		SW846 6010C
Potassium	20	1.50		1.47		2		SW846 6010C
Sodium	20	22.5		22.3		0.9		SW846 6010C
Aluminum	20	BRL		BDL				SW846 6010C
Calcium	20	8.65		8.59		0.6		SW846 6010C
Magnesium	20	7.58		7.52		0.8		SW846 6010C

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

# FORM VIII - SERIAL DILUTION

**SW846 6010C**

TF1-DUP-01-082917

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Laboratory ID: S710181-SRD1

Sequence: S710181

Lab Source ID: SC38678-06

Preparation: 1715597

Initial/Final: 50 / 50

Source Sample Name: TF1-DUP-01-082917

% Solids:

Units: mg/l

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method	QC Limits % Difference
Iron	17.9		18.7		4		SW846 6010C	10
Potassium	1.50		1.39				SW846 6010C	10
Sodium	22.5		22.8		1		SW846 6010C	10
Aluminum	BRL		BRL				SW846 6010C	10
Calcium	8.65		9.00		4		SW846 6010C	10
Magnesium	7.58		7.80		3		SW846 6010C	10

\* Values outside of QC limits

PREPARATION BENCH SHEET

1715587

Eurofins Spectrum Analytical, Inc. - MA

Matrix: Aqueous

Prepared using: Metals - SW846 3005A

Lab Number	Prepared	Initial (ml)	Final (ml)	Source ID	Spike ID	ul Spike	Spike 2 ID	ul Spike 2	Comments	Client ID	Collected	Due
1715587-BLK1	14-Sep-17 19:00	50	50							Blank	14-Sep-17 19:00	
1715587-BS1	14-Sep-17 19:00	50	50		17H1034	5000				LCS	14-Sep-17 19:00	
1715587-BSD1	14-Sep-17 19:00	50	50		17H1034	5000				LCS Dup	14-Sep-17 19:00	
1715587-DUP1	14-Sep-17 19:00	50	50	SC38678-06						Duplicate	29-Aug-17 12:00	
1715587-MS1	14-Sep-17 19:00	50	50	SC38678-06	17H1034	5000				Matrix Spike	29-Aug-17 12:00	
1715587-MSD1	14-Sep-17 19:00	50	50	SC38678-06	17H1034	5000				Matrix Spike Dup	29-Aug-17 12:00	
1715587-PS1	14-Sep-17 19:00	50	50	SC38678-06	17H1034	5000				Post Spike	29-Aug-17 12:00	
<b>SC38678-01</b>	14-Sep-17 19:00	50	50							TF1-EBP-MW100	29-Aug-17 10:44	<b>11-Sep-17 16:00</b>
<i>Al Total ICP 6010 DoD</i>		<i>Ca Total ICP 6010 DoD</i>		<i>Fe Total ICP 6010 DoD</i>		<i>K Total ICP 6010 DoD</i>		<i>Mg Total ICP 6010 DoD</i>		<i>Na Total ICP 6010 DoD</i>		
DoD Level IV		DoD Level IV		DoD Level IV		DoD Level IV		DoD Level IV		DoD Level IV		
<b>SC38678-02</b>	14-Sep-17 19:00	50	50							TF1-EBP-MW100	29-Aug-17 14:52	<b>11-Sep-17 16:00</b>
<i>Al Total ICP 6010 DoD</i>		<i>Ca Total ICP 6010 DoD</i>		<i>Fe Total ICP 6010 DoD</i>		<i>K Total ICP 6010 DoD</i>		<i>Mg Total ICP 6010 DoD</i>		<i>Na Total ICP 6010 DoD</i>		
DoD Level IV		DoD Level IV		DoD Level IV		DoD Level IV		DoD Level IV		DoD Level IV		
<b>SC38678-03</b>	14-Sep-17 19:00	50	50							TF1-MW1006-082	29-Aug-17 10:25	<b>11-Sep-17 16:00</b>
<i>Al Total ICP 6010 DoD</i>		<i>Ca Total ICP 6010 DoD</i>		<i>Fe Total ICP 6010 DoD</i>		<i>K Total ICP 6010 DoD</i>		<i>Mg Total ICP 6010 DoD</i>		<i>Na Total ICP 6010 DoD</i>		
DoD Level IV		DoD Level IV		DoD Level IV		DoD Level IV		DoD Level IV		DoD Level IV		
<b>SC38678-04</b>	14-Sep-17 19:00	50	50							TF1-MW1002-082	29-Aug-17 11:05	<b>11-Sep-17 16:00</b>
<i>Al Total ICP 6010 DoD</i>		<i>Ca Total ICP 6010 DoD</i>		<i>Fe Total ICP 6010 DoD</i>		<i>K Total ICP 6010 DoD</i>		<i>Mg Total ICP 6010 DoD</i>		<i>Na Total ICP 6010 DoD</i>		
DoD Level IV		DoD Level IV		DoD Level IV		DoD Level IV		DoD Level IV		DoD Level IV		
<b>SC38678-05</b>	14-Sep-17 19:00	50	50							TF1-GT-109-0829	29-Aug-17 16:05	<b>11-Sep-17 16:00</b>
<i>Al Total ICP 6010 DoD</i>		<i>Ca Total ICP 6010 DoD</i>		<i>Fe Total ICP 6010 DoD</i>		<i>K Total ICP 6010 DoD</i>		<i>Mg Total ICP 6010 DoD</i>		<i>Na Total ICP 6010 DoD</i>		
DoD Level IV		DoD Level IV		DoD Level IV		DoD Level IV		DoD Level IV		DoD Level IV		
<b>SC38678-06</b>	14-Sep-17 19:00	50	50							TF1-DUP-01-0829	29-Aug-17 12:00	<b>11-Sep-17 16:00</b>
<i>Al Total ICP 6010 DoD</i>		<i>Ca Total ICP 6010 DoD</i>		<i>Fe Total ICP 6010 DoD</i>		<i>K Total ICP 6010 DoD</i>		<i>Mg Total ICP 6010 DoD</i>		<i>Na Total ICP 6010 DoD</i>		
DoD Level IV		DoD Level IV		DoD Level IV		DoD Level IV		DoD Level IV		DoD Level IV		

+ SPD

9/14/17 aQ 6010 N

DoD

TR 9.19.17  
Analyst Reviewed Date

SMR 9.19.17  
Manager Reviewed Date

TJ 9.14.17  
Prepared By Date

## CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112608005-WE15

SDG #: SC38678

### I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

### II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

### III. METHODS

Analyses were performed according to EPA 245.1/7470A.

### IV. PREPARATION

Aqueous samples were prepared according to EPA200/SW7000 Series.

### V. INSTRUMENTATION

The following equipment was used to analyze EPA 245.1/7470A:

Mercury4 details: Leeman Labs Hydra IIAA Mercury Analyzer

### VI. ANALYSIS

#### A. Calibration:

All quality control samples were within the acceptance criteria with the following exceptions:

#### In sample S710178-CCV1:

Analyte percent recovery is outside individual acceptance criteria (90-110).

Mercury (114%)

This affected the following samples:

1715589-BLK1, 1715589-BS1, 1715589-DUP1, 1715589-MS1, 1715589-MSD1, 1715589-PS1, S710178-CCV1, S710178-CCV2, S710178-CCV3, S710178-CCV4, TF1-DUP-01-082917, TF1-EBP-MW1000-082917, TF1-EBP-MW1001-082917, TF1-GT-109-082917, TF1-MW1002-082917, TF1-MW1006-082917

#### In sample S710178-CCV2:

Analyte percent recovery is outside individual acceptance criteria (90-110).

Mercury (111%)

This affected the following samples:

1715589-BLK1, 1715589-BS1, 1715589-DUP1, 1715589-MS1, 1715589-MSD1, 1715589-PS1, S710178-CCV1, S710178-CCV2, S710178-CCV3, S710178-CCV4, TF1-DUP-01-082917, TF1-EBP-MW1000-082917, TF1-EBP-MW1001-082917, TF1-GT-109-082917, TF1-MW1002-082917, TF1-MW1006-082917

Mercury in sequence S710178, samples S710178-CCV1, S710178-CCV2: Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

**B. Blanks:**

All blanks were within the acceptance criteria.

**C. Spikes:**

**1. Laboratory Control Samples (LCS):**

All method criteria were met.

**2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):**

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1715589 from source sample TF1-EBP-MW1001-082917 (SC38678-01).

All method criteria were met.

**3. Post Spike Samples (PS):**

A post spike was analyzed.

In batch 1715589 from source sample TF1-EBP-MW1001-082917 (SC38678-01).

All method criteria were met.

**D. Duplicates:**

A duplicate was analyzed.

In batch 1715589 from source sample TF1-EBP-MW1001-082917 (SC38678-01).

All method criteria were met.

**E. Samples:**

All method criteria were met.

# Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
Mercury	0.00013	0.00020	mg/l



**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**EPA 245.1/7470A**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710177

Instrument: Mercury4

Calibration: 1711039

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Cal Standard	S710177-CAL1	092117-001	09/21/17 15:58
Cal Standard	S710177-CAL2	092117-002	09/21/17 16:00
Cal Standard	S710177-CAL3	092117-003	09/21/17 16:02
Cal Standard	S710177-CAL4	092117-004	09/21/17 16:04
Cal Standard	S710177-CAL5	092117-005	09/21/17 16:06
Cal Standard	S710177-CAL6	092117-006	09/21/17 16:08
Cal Standard	S710177-CAL7	092117-007	09/21/17 16:10
Cal Standard	S710177-CAL8	092117-008	09/21/17 16:12
Initial Cal Check	S710177-ICV1	092117-009	09/21/17 16:19
Initial Cal Blank	S710177-ICB1	092117-010	09/21/17 16:21
Calibration Check	S710177-CCV1	092117-012	09/21/17 16:40
Calibration Blank	S710177-CCB1	092117-013	09/21/17 16:42
Instrument RL Check	S710177-CRL2	092117-018	09/21/17 17:09
Instrument RL Check	S710177-CRL3	092117-019	09/21/17 17:16

# METALS ANALYSIS RUN LOG

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710177

Instrument: Mercury4

Calibration: 1711039

Sample Name	Lab ID	D/F	Time	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	S U	T L	V	Z N				
Cal Standard	S710177-CAL1	1	09/21/17 15:58																							X					
Cal Standard	S710177-CAL2	1	09/21/17 16:00																							X					
Cal Standard	S710177-CAL3	1	09/21/17 16:02																							X					
Cal Standard	S710177-CAL4	1	09/21/17 16:04																							X					
Cal Standard	S710177-CAL5	1	09/21/17 16:06																							X					
Cal Standard	S710177-CAL6	1	09/21/17 16:08																							X					
Cal Standard	S710177-CAL7	1	09/21/17 16:10																							X					
Cal Standard	S710177-CAL8	1	09/21/17 16:12																							X					
Initial Cal Check	S710177-ICV1	1	09/21/17 16:19																							X					
Initial Cal Blank	S710177-ICB1	1	09/21/17 16:21																							X					
Calibration Check	S710177-CCV1	1	09/21/17 16:40																							X					
Calibration Blank	S710177-CCB1	1	09/21/17 16:42																							X					
Instrument RL Check	S710177-CRL2	1	09/21/17 17:09																							X					
Instrument RL Check	S710177-CRL3	1	09/21/17 17:16																							X					

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**EPA 245.1/7470A**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710178

Instrument: Mercury4

Calibration: 1711039

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Blank	1715589-BLK1	092117-020	09/21/17 17:18
LCS	1715589-BS1	092117-021	09/21/17 17:20
TF1-EBP-MW1001-082917	SC38678-01	092117-022	09/21/17 17:22
TF1-EBP-MW1001-082917	1715589-DUP1	092117-023	09/21/17 17:25
TF1-EBP-MW1001-082917	1715589-MS1	092117-024	09/21/17 17:26
TF1-EBP-MW1001-082917	1715589-MSD1	092117-025	09/21/17 17:28
TF1-EBP-MW1001-082917	1715589-PS1	092117-026	09/21/17 17:31
TF1-EBP-MW1000-082917	SC38678-02	092117-027	09/21/17 17:33
TF1-MW1006-082917	SC38678-03	092117-028	09/21/17 17:35
TF1-MW1002-082917	SC38678-04	092117-029	09/21/17 17:37
Calibration Check	S710178-CCV1	092117-030	09/21/17 17:39
Calibration Blank	S710178-CCB1	092117-031	09/21/17 17:41
TF1-GT-109-082917	SC38678-05	092117-032	09/21/17 17:43
TF1-DUP-01-082917	SC38678-06	092117-033	09/21/17 17:45
Instrument RL Check	S710178-CRL1	092117-034	09/21/17 17:47
Calibration Check	S710178-CCV2	092117-035	09/21/17 17:49
Calibration Blank	S710178-CCB2	092117-036	09/21/17 17:51
Calibration Check	S710178-CCV3	092117-047	09/21/17 18:15
Calibration Blank	S710178-CCB3	092117-048	09/21/17 18:17
Instrument RL Check	S710178-CRL2	092117-050	09/21/17 18:21
Calibration Check	S710178-CCV4	092117-051	09/21/17 18:23
Calibration Blank	S710178-CCB4	092117-052	09/21/17 18:25

# METALS ANALYSIS RUN LOG

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S710178

Instrument: Mercury4

Calibration: 1711039

Sample Name	Lab ID	D/F	Time	Analytes																																	
				A L	S B	A S	B A	B E	C D	C A	C O	C R	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	A A	N A	S U	T L	V	Z N									
Blank	1715589-BLK1	1	09/21/17 17:18																										X								
LCS	1715589-BS1	1	09/21/17 17:20																											X							
TF1-EBP-MW1001-0	SC38678-01	1	09/21/17 17:22																										X								
TF1-EBP-MW1001-0	1715589-DUP1	1	09/21/17 17:25																										X								
TF1-EBP-MW1001-0	1715589-MS1	1	09/21/17 17:26																										X								
TF1-EBP-MW1001-0	1715589-MSD1	1	09/21/17 17:28																										X								
TF1-EBP-MW1001-0	1715589-PS1	1	09/21/17 17:31																										X								
TF1-EBP-MW1000-0	SC38678-02	1	09/21/17 17:33																										X								
TF1-MW1006-08291	SC38678-03	1	09/21/17 17:35																										X								
TF1-MW1002-08291	SC38678-04	1	09/21/17 17:37																										X								
Calibration Check	S710178-CCV1	1	09/21/17 17:39																										X								
Calibration Blank	S710178-CCB1	1	09/21/17 17:41																										X								
TF1-GT-109-082917	SC38678-05	1	09/21/17 17:43																										X								
TF1-DUP-01-082917	SC38678-06	1	09/21/17 17:45																										X								
Instrument RL Check	S710178-CRL1	1	09/21/17 17:47																										X								
Calibration Check	S710178-CCV2	1	09/21/17 17:49																											X							
Calibration Blank	S710178-CCB2	1	09/21/17 17:51																										X								
Calibration Check	S710178-CCV3	1	09/21/17 18:15																											X							
Calibration Blank	S710178-CCB3	1	09/21/17 18:17																										X								
Instrument RL Check	S710178-CRL2	1	09/21/17 18:21																										X								
Calibration Check	S710178-CCV4	1	09/21/17 18:23																											X							
Calibration Blank	S710178-CCB4	1	09/21/17 18:25																										X								

# FORM III - BLANKS

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: Mercury4

Calibration: 1711039

Sequence: S710177

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S710177-ICB1	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710177-CCB1	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A

# FORM III - BLANKS

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: Mercury4

Calibration: 1711039

Sequence: S710178

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
1715589-BLK1	Mercury	0.00013	0.00020	mg/l	J	EPA 245.1/7470A
S710178-CCB1	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710178-CCB2	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710178-CCB3	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710178-CCB4	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A

**FORM IIIa - LCS / LCS DUPLICATE RECOVERY****EPA 245.1/7470A**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
Matrix: Aqueous    Instrument: Mercury4  
Batch: 1715589    Laboratory ID: 1715589-BS1  
Preparation: EPA200/SW7000 Series    Initial/Final: 20 ml / 20 ml  
Analyzed: 09/21/17 17:20    Spike ID: 1710429  
File ID: 092117-021

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Mercury	0.00500	0.00526	105	82 - 119

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

**FORM IIIb (Organic) / FORM V (Inorganic)**  
**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY**

**TF1-EBP-MW1001-082917**

**EPA 245.1/7470A**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	<u>Mercury4</u>
Batch:	<u>1715589</u>	Laboratory ID:	<u>1715589-MS1</u>
Preparation:	<u>EPA200/SW7000 Series</u>	Initial/Final:	<u>20 ml / 20 ml</u>
Source Sample Name:	<u>TF1-EBP-MW1001-082917</u>	% Solids:	
		Spike ID:	17I0429
		File ID:	<u>092117-024</u>

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Mercury	0.00500	BRL	0.00481	96	82 - 119

File ID: 092117-025

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Mercury	0.00500	0.00448	90	7	20	82 - 119

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits



# FORM Vb - POST DIGEST SPIKE SAMPLE RECOVERY

TF1-EBP-MW1001-082917

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1715589-PS1

Batch: 1715589

Lab Source ID: SC38678-01

Preparation: EPA200/SW7000 Series

Initial/Final: 20 ml / 20 ml

Source Sample Name: TF1-EBP-MW1001-082917

% Solids:

Analyte	Control Limit %R	Spike Sample Result (SSR) (mg/l)	Sample Result (SR) (mg/l)	Spike Added (SA) (mg/l)	%R	Method
Mercury	85 - 115	0.00478	BRL	0.00500	96	EPA 245.1/7470A

\* Values outside of QC limits

**FORM IIIc - DUPLICATES**

**TF1-EBP-MW1001-082917**

**EPA 245.1/7470A**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1715589-DUP1

Batch: 1715589

Lab Source ID: SC38678-01

Preparation: EPA200/SW7000 Series

Initial/Final: 20 ml / 20 ml

Source Sample Name: TF1-EBP-MW1001-082917

% Solids:

File ID: 092117-023

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l)	C	DUPLICATE CONCENTRATION (mg/l)	C	RPD %	Q	METHOD
Mercury	20	BRL		BDL				EPA 245.1/7470A

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

CDR Zoppb  
SNL2 17 I0638

PREPARATION BENCH SHEET

1715589

Eurofins Spectrum Analytical, Inc. - MA

Matrix: Aqueous

Prepared using: Metals - EPA200/SW7000 Series

Lab Number	Prepared	Initial (ml)	Final (ml)	Source ID	Spike ID	ul Spike	Spike 2 ID	ul Spike 2	Comments	Client ID	Collected	Due
1715589-BLK1	14-Sep-17 19:00	20	20							Blank	14-Sep-17 19:00	
1715589-BS1	14-Sep-17 19:00	20	20		1710429	500				LCS	14-Sep-17 19:00	
1715589-DUP1	14-Sep-17 19:00	20	20	SC38678-01						Duplicate	29-Aug-17 10:44	
1715589-MS1	14-Sep-17 19:00	20	20	SC38678-01	1710429	500				Matrix Spike	29-Aug-17 10:44	
1715589-MSD1	14-Sep-17 19:00	20	20	SC38678-01	1710429	500				Matrix Spike Dup	29-Aug-17 10:44	
1715589-PS1	14-Sep-17 19:00	20	20	SC38678-01	1710429	500				Post Spike	29-Aug-17 10:44	
SC38678-01	14-Sep-17 19:00	20	20							TF1-EBP-MW100	29-Aug-17 10:44	11-Sep-17 16:00
<i>Hg Total CVAA DoD</i>												
DoD Level IV												
SC38678-02	14-Sep-17 19:00	20	20							TF1-EBP-MW100	29-Aug-17 14:52	11-Sep-17 16:00
<i>Hg Total CVAA DoD</i>												
DoD Level IV												
SC38678-03	14-Sep-17 19:00	20	20							TF1-MW1006-082	29-Aug-17 10:25	11-Sep-17 16:00
<i>Hg Total CVAA DoD</i>												
DoD Level IV												
SC38678-04	14-Sep-17 19:00	20	20							TF1-MW1002-082	29-Aug-17 11:05	11-Sep-17 16:00
<i>Hg Total CVAA DoD</i>												
DoD Level IV												
SC38678-05	14-Sep-17 19:00	20	20							TF1-GT-109-0829	29-Aug-17 16:05	11-Sep-17 16:00
<i>Hg Total CVAA DoD</i>												
DoD Level IV												
SC38678-06	14-Sep-17 19:00	20	20							TF1-DUP-01-0825	29-Aug-17 12:00	11-Sep-17 16:00
<i>Hg Total CVAA DoD</i>												
DoD Level IV												

9/14/17 AQ HG N

DoD

IKW 9-21-17  
Analyst Reviewed Date

SMP 9-22-17  
Manager Reviewed Date

JD 9-17-17  
Prepared By Date

## CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112608005-WE15

SDG #: SC38678

### I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

### II. HOLDING TIMES

All samples were prepared and analyzed within the method-specific holding time.

### III. METHODS

Analyses were performed according to EPA 300.0.

### IV. PREPARATION

Aqueous samples were prepared according to General Preparation.

### V. INSTRUMENTATION

The following equipment was used to analyze EPA 300.0:

IC3 details: Metrohm model 881 Compact Pro Ion Chromatograph

### VI. ANALYSIS

#### A. Calibration:

All quality control samples were within the acceptance criteria.

#### B. Blanks:

All blanks were within the acceptance criteria.

#### C. Spikes:

##### 1. Laboratory Control Samples (LCS):

All method criteria were met.

##### 2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1714902 from source sample TF1-GT-109-082917 (SC38678-05).

All method criteria were met with the following exceptions:

Chloride in batch 1714902, lab sample 1714902-MS2 from source sample TF1-GT-109-082917 (SC38678-05): The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

**3. Reference:**

All method criteria were met.

**D. Duplicates:**

A duplicate was analyzed.

In batch 1714902 from source sample TF1-GT-109-082917 (SC38678-05).

All method criteria were met.

**E. Samples:**

All method criteria were met with the following exceptions:

Chloride in batch 1714974, sample TF1-GT-109-082917 (SC38678-05): Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**EPA 300.0**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708848

Instrument: IC3

Calibration: 1710011

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Cal Standard	S708848-CAL3	081717-012	08/17/17 14:13
Cal Standard	S708848-CAL2	081717-013	08/17/17 14:29
Cal Standard	S708848-CAL4	081717-014	08/17/17 14:45
Cal Standard	S708848-CAL5	081717-015	08/17/17 15:01
Cal Standard	S708848-CAL6	081717-016	08/17/17 15:16
Cal Standard	S708848-CAL7	081717-017	08/17/17 15:32
Cal Standard	S708848-CAL8	081717-018	08/17/17 15:48
Cal Standard	S708848-CAL1	081717-025	08/17/17 17:39
Initial Cal Check	S708848-ICV1	081717-026	08/17/17 17:55
Initial Cal Blank	S708848-ICB1	081717-027	08/17/17 18:11

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**EPA 300.0**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S709461

Instrument: IC3

Calibration: 1710011

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	1714974-CCV1	083117-020	08/31/17 14:16
Calibration Blank	1714974-CCB1	083117-021	08/31/17 14:32
Blank	1714974-BLK1	083117-023	08/31/17 15:04
LCS	1714974-BS1	083117-024	08/31/17 15:20
Reference	1714974-SRM1	083117-025	08/31/17 15:36
Calibration Check	1714974-CCV2	083117-032	08/31/17 17:28
Calibration Blank	1714974-CCB2	083117-033	08/31/17 17:44
Calibration Check	1714974-CCV3	083117-044	08/31/17 20:40
Calibration Blank	1714974-CCB3	083117-045	08/31/17 20:56
Calibration Check	1714974-CCV4	083117-056	08/31/17 23:52
Calibration Blank	1714974-CCB4	083117-057	09/01/17 00:08
TF1-GT-109-082917	SC38678-05	083117-061	09/01/17 01:11
Calibration Check	1714974-CCV5	083117-068	09/01/17 03:02
Calibration Blank	1714974-CCB5	083117-069	09/01/17 03:18
Calibration Check	1714974-CCV6	083117-075	09/01/17 04:53
Calibration Blank	1714974-CCB6	083117-076	09/01/17 05:09
Calibration Check	1714974-CCV7	090117-003	09/01/17 10:30
Calibration Blank	1714974-CCB7	090117-004	09/01/17 10:46
Calibration Check	1714974-CCV8	090117-015	09/01/17 13:46
Calibration Blank	1714974-CCB8	090117-016	09/01/17 14:02

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**EPA 300.0**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S709462

Instrument: IC3

Calibration: 1710011

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	1714902-CCV1	083017-016	08/30/17 13:48
Calibration Blank	1714902-CCB1	083017-017	08/30/17 14:04
Calibration Check	1714902-CCV2	083017-028	08/30/17 17:05
Calibration Blank	1714902-CCB2	083017-029	08/30/17 17:21
Calibration Check	1714902-CCV3	083017-036	08/30/17 19:12
Calibration Blank	1714902-CCB3	083017-037	08/30/17 19:28
TF1-MW1006-082917	SC38678-03	083017-045	08/30/17 21:35
TF1-EBP-MW1001-082917	SC38678-01	083017-046	08/30/17 21:51
Calibration Check	1714902-CCV4	083017-048	08/30/17 22:23
Calibration Blank	1714902-CCB4	083017-049	08/30/17 22:39
TF1-MW1002-082917	SC38678-04	083017-050	08/30/17 22:55
TF1-DUP-01-082917	SC38678-06	083017-052	08/30/17 23:27
TF1-EBP-MW1000-082917	SC38678-02	083017-055	08/31/17 00:15
TF1-GT-109-082917	SC38678-05	083017-059	08/31/17 01:19
Calibration Check	1714902-CCV5	083017-060	08/31/17 01:35
Calibration Blank	1714902-CCB5	083017-061	08/31/17 01:51
TF1-GT-109-082917	1714902-DUP2	083017-062	08/31/17 02:07
Calibration Check	1714902-CCV6	083017-072	08/31/17 04:46
Calibration Blank	1714902-CCB6	083017-073	08/31/17 05:02
TF1-GT-109-082917	1714902-MS2	083017-076	08/31/17 05:50
TF1-GT-109-082917	1714902-MSD2	083017-077	08/31/17 06:06
Calibration Check	1714902-CCV7	083017-084	08/31/17 07:58
Calibration Blank	1714902-CCB7	083017-085	08/31/17 08:13
Reference	1714902-SRM1	083017-087	08/31/17 08:45
Calibration Check	1714902-CCV8	083117-008	08/31/17 11:07
Calibration Blank	1714902-CCB8	083117-009	08/31/17 11:23
Calibration Check	1714902-CCV9	083117-020	08/31/17 14:16
Calibration Blank	1714902-CCB9	083117-021	08/31/17 14:32
LCS	1714902-BS1	083117-022	08/31/17 14:48
Blank	1714902-BLK1	083117-023	08/31/17 15:04
Calibration Check	1714902-CCVA	083117-032	08/31/17 17:28
Calibration Blank	1714902-CCBA	083117-033	08/31/17 17:44



**FORM III - BLANKS****EPA 300.0**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC38678Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportInstrument ID: IC3Calibration: 1710011Sequence: S708848

Matrix: Drinking Water

<b>Lab Sample ID</b>	<b>Analyte</b>	<b>Found</b>	<b>MRL</b>	<b>Units</b>	<b>C</b>	<b>Method</b>
S708848-ICB1	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.010	mg/l	U	EPA 300.0

**FORM III - BLANKS****EPA 300.0**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC38678Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportInstrument ID: IC3Calibration: 1710011Sequence: S709461

Matrix: Aqueous

<b>Lab Sample ID</b>	<b>Analyte</b>	<b>Found</b>	<b>MRL</b>	<b>Units</b>	<b>C</b>	<b>Method</b>
1714974-CCB1	Chloride	BRL	1.00	mg/l	U	EPA 300.0
1714974-BLK1	Chloride	BRL	1.00	mg/l	U	EPA 300.0
1714974-CCB2	Chloride	BRL	1.00	mg/l	U	EPA 300.0
1714974-CCB3	Chloride	BRL	1.00	mg/l	U	EPA 300.0
1714974-CCB4	Chloride	BRL	1.00	mg/l	U	EPA 300.0
1714974-CCB5	Chloride	BRL	1.00	mg/l	U	EPA 300.0
1714974-CCB6	Chloride	BRL	1.00	mg/l	U	EPA 300.0
1714974-CCB7	Chloride	BRL	1.00	mg/l	U	EPA 300.0
1714974-CCB8	Chloride	BRL	1.00	mg/l	U	EPA 300.0

**FORM III - BLANKS****EPA 300.0**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC38678Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportInstrument ID: IC3Calibration: 1710011Sequence: S709462Matrix: Aqueous

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
1714902-CCB1	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1714902-CCB2	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1714902-CCB3	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1714902-CCB4	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1714902-CCB5	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1714902-CCB6	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1714902-CCB7	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1714902-CCB8	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1714902-CCB9	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1714902-BLK1	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1714902-CCBA	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0

# FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

## EPA 300.0

**Laboratory:** Eurofins Spectrum Analytical, Inc. - MA

**SDG:** SC38678

**Client:** Tetra Tech, Inc. - Salem, NH

**Project:** WE15 Tank Farm 1 NAVSTA Newport

**Matrix:** Aqueous

**Spike ID:** 17H0736

**Batch:** 1714902

**Laboratory ID:** 1714902-SRM1

**Preparation:** General Preparation

**Initial/Final:** 5 ml / 5 ml

ANALYTE	TRUE (mg/l)	FOUND (mg/l)	SRM % REC.	QC LIMITS REC.
Chloride	25.0	25.2	101	90 - 110
Sulfate as SO4	25.0	26.1	104	90 - 110
Nitrate as N	2.50	2.66	106	90 - 110

\* Values outside of QC limits

# FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

## EPA 300.0

**Laboratory:** Eurofins Spectrum Analytical, Inc. - MA

**SDG:** SC38678

**Client:** Tetra Tech, Inc. - Salem, NH

**Project:** WE15 Tank Farm 1 NAVSTA Newport

**Matrix:** Aqueous

**Spike ID:** 17H1028

**Batch:** 1714974

**Laboratory ID:** 1714974-SRM1

**Preparation:** General Preparation

**Initial/Final:** 5 ml / 5 ml

ANALYTE	TRUE (mg/l)	FOUND (mg/l)	SRM % REC.	QC LIMITS REC.
Chloride	25.0	23.5	94	90 - 110

\* Values outside of QC limits

# Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS

## EPA 300.0

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
Chloride	0.0994	1.00	mg/l
	0.0994	1.00	mg/l
Nitrate as N	0.007	0.010	mg/l
Sulfate as SO4	0.798	1.00	mg/l
	0.798	1.00	mg/l
Nitrate as N	0.007	0.100	mg/l

**PREPARATION BENCH SHEET**

1714974

Balance ID NIA

**Matrix: Aqueous**

**Prepared using: Wet Chem - General Preparation**

**(No Surrogate)**

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
1714974-BLK1	Blank		QC	5	5					
1714974-BS1	LCS		QC	5	5	17H1027				
1714974-CCB1	Calibration Blank		QC	5	5					
1714974-CCB2	Calibration Blank		QC	5	5					
1714974-CCB3	Calibration Blank		QC	5	5					
1714974-CCB4	Calibration Blank		QC	5	5					
1714974-CCB5	Calibration Blank		QC	5	5					
1714974-CCB6	Calibration Blank		QC	5	5					
1714974-CCB7	Calibration Blank		QC	5	5					
1714974-CCB8	Calibration Blank		QC	5	5					
1714974-CCV1	Calibration Check		QC	5	5	17H1027				
1714974-CCV2	Calibration Check		QC	5	5	17H1027				
1714974-CCV3	Calibration Check		QC	5	5	17H1027				
1714974-CCV4	Calibration Check		QC	5	5	17H1027				
1714974-CCV5	Calibration Check		QC	5	5	17H1027				
1714974-CCV6	Calibration Check		QC	5	5	17H1027				
1714974-CCV7	Calibration Check		QC	5	5	17H1027				
1714974-CCV8	Calibration Check		QC	5	5	17H1027				
1714974-DUP1	Duplicate		QC	5	5		SC38676-14			
1714974-DUP2	Duplicate		QC	5	5		SC38733-04			
1714974-MS1	Matrix Spike		QC	1	5	17F0999	SC38676-14			
1714974-MS2	Matrix Spike		QC	5	5	17F0999	SC38733-04			

IC#174  
IC#1174

LS      9.9.17  
Analyst Reviewed      Date

Law      9/11/17  
Manager Reviewed      Date

\_\_\_\_\_  
Extracts Received By      Date

**PREPARATION BENCH SHEET**

1714974

Balance ID \_\_\_\_\_

**Matrix: Aqueous**

**Prepared using: Wet Chem - General Preparation**

**(No Surrogate)**

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
1714974-MSD1	Matrix Spike Dup		QC	1	5	17F0999	SC38676-14		IC#1, T4	
1714974-MSD2	Matrix Spike Dup		QC	5	5	17F0999	SC38733-04		IC#1, T4	
1714974-SRM1	Reference		QC	5	5	17H1028				
SC38676-11	MW-5	D	wc-Chloride-30	5	5	<		11-Sep-17 16:00		CT RCP
SC38676-12	MW-6	D	wc-Chloride-30	5	5	<		11-Sep-17 16:00		CT RCP
SC38676-14	MW-14	J	wc-Chloride-30	5	5	<		11-Sep-17 16:00		Run MS/MSD/CT RCP
SC38676-14	MW-14	J	wc-Fluoride-30	5	5	<				BatchQC
SC38676-14	MW-14	J	wc-Nitrate 300.	5	5	<				BatchQC
SC38676-14	MW-14	J	wc-Nitrite 300.	5	5	<				BatchQC
SC38676-14	MW-14	J	wc-Sulfate - 30	5	5	<				BatchQC
SC38676-15	MW-25R	D	wc-Chloride-30	5	5	<		11-Sep-17 16:00		CT RCP
SC38676-16	MW-28D	D	wc-Chloride-30	5	5	<		11-Sep-17 16:00		CT RCP
SC38676-17	MW-28	D	wc-Chloride-30	5	5	<		11-Sep-17 16:00		CT RCP
SC38676-18	MW-30	D	wc-Chloride-30	5	5	<		11-Sep-17 16:00		CT RCP
SC38678-05	TF1-GT-109-082917	R	wc-Chloride-30	5	5	<		11-Sep-17 16:00		DoD Level IV
SC38683-02	AP-526M	F	wc-Sulfate - 30	5	5			11-Sep-17 16:00		CT RCP/RSRs/GA/RVC
SC38683-03	AP-518	F	wc-Sulfate - 30	5	5			11-Sep-17 16:00		CT RCP/RSRs/GA/RVC
SC38683-04	AP-517D	F	wc-Sulfate - 30	5	5			11-Sep-17 16:00		CT RCP/RSRs/GA/RVC
SC38688-01	Linde Process Water	C	wc-Fluoride-30	5	5			12-Sep-17 16:00		
SC38704-01	RD083017-P5	B	wc-Nitrate 300.	5	5	<		12-Sep-17 16:00		
SC38704-01	RD083017-P5	B	wc-Nitrite 300.	5	5	<		12-Sep-17 16:00		
SC38733-01	TF1-MW-1007-083017	N	wc-Chloride-30	5	5			12-Sep-17 16:00		DoD Level IV

LBS 9.9.17  
 Analyst Reviewed \_\_\_\_\_ Date \_\_\_\_\_

Caw 9/11/17  
 Manager Reviewed \_\_\_\_\_ Date \_\_\_\_\_

Extracts Received By \_\_\_\_\_ Date \_\_\_\_\_



**PREPARATION BENCH SHEET**

1714974

Balance ID \_\_\_\_\_

**Matrix: Aqueous**

**Prepared using: Wet Chem - General Preparation**

**(No Surrogate)**

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
SC38733-01	TF1-MW-1007-083017	N	wc-Nitrate 300.	5	5			12-Sep-17 16:00		DoD Level IV
SC38733-01	TF1-MW-1007-083017	N	wc-Sulfate - 30	5	5			12-Sep-17 16:00		DoD Level IV
SC38733-02	TF1-MW-1007D-083017	N	wc-Chloride-30	5	5			12-Sep-17 16:00		DoD Level IV
SC38733-02	TF1-MW-1007D-083017	N	wc-Nitrate 300.	5	5			12-Sep-17 16:00		DoD Level IV
SC38733-02	TF1-MW-1007D-083017	N	wc-Sulfate - 30	5	5			12-Sep-17 16:00		DoD Level IV
SC38733-03	TF1-GZ-112-083017	N	wc-Chloride-30	5	5			12-Sep-17 16:00		DoD Level IV
SC38733-03	TF1-GZ-112-083017	N	wc-Nitrate 300.	5	5			12-Sep-17 16:00		DoD Level IV
SC38733-03	TF1-GZ-112-083017	N	wc-Sulfate - 30	5	5			12-Sep-17 16:00		DoD Level IV
SC38733-04	TF1-MW-1005-083017	AN	wc-Chloride-30	5	5			12-Sep-17 16:00		Run MS/MSD/DoD Level IV
SC38733-04	TF1-MW-1005-083017	AN	wc-Fluoride-30	5	5					BatchQC
SC38733-04	TF1-MW-1005-083017	AN	wc-Nitrate 300.	5	5			12-Sep-17 16:00		Run MS/MSD/DoD Level IV
SC38733-04	TF1-MW-1005-083017	AN	wc-Nitrite 300.	5	5					BatchQC
SC38733-04	TF1-MW-1005-083017	AN	wc-Sulfate - 30	5	5			12-Sep-17 16:00		Run MS/MSD/DoD Level IV
SC38733-05	TF1-GZ-118-083017	N	wc-Chloride-30	5	5			12-Sep-17 16:00		DoD Level IV
SC38733-05	TF1-GZ-118-083017	N	wc-Nitrate 300.	5	5			12-Sep-17 16:00		DoD Level IV
SC38733-05	TF1-GZ-118-083017	N	wc-Sulfate - 30	5	5			12-Sep-17 16:00		DoD Level IV

8/31/17 AQ ANIONS LNB

**Reagents Used:**

17A0456 IC3 column  
 17H0949 IC3 Eluent 082917

LNB                      9.9.17  
 Analyst Reviewed                      Date

Cow                      9/11/17  
 Manager Reviewed                      Date

Extracts Received By \_\_\_\_\_ Date \_\_\_\_\_

**PREPARATION BENCH SHEET**

1714902

Balance ID N/A

Matrix: Aqueous

Prepared using: Wet Chem - General Preparation

(No Surrogate)

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
1714902-BLK1	Blank		QC	5	5					
1714902-BS1	LCS		QC	5	5	17H0737				
1714902-CCB1	Calibration Blank		QC	5	5					
1714902-CCB2	Calibration Blank		QC	5	5					
1714902-CCB3	Calibration Blank		QC	5	5					
1714902-CCB4	Calibration Blank		QC	5	5					
1714902-CCB5	Calibration Blank		QC	5	5					
1714902-CCB6	Calibration Blank		QC	5	5					
1714902-CCB7	Calibration Blank		QC	5	5					
1714902-CCB8	Calibration Blank		QC	5	5					
1714902-CCB9	Calibration Blank		QC	5	5					
1714902-CCBA	Calibration Blank		QC	5	5					
1714902-CCV1	Calibration Check		QC	5	5	17H0737				
1714902-CCV2	Calibration Check		QC	5	5	17H0737				
1714902-CCV3	Calibration Check		QC	5	5	17H0737				
1714902-CCV4	Calibration Check		QC	5	5	17H0737				
1714902-CCV5	Calibration Check		QC	5	5	17H0737				
1714902-CCV6	Calibration Check		QC	5	5	17H0737				
1714902-CCV7	Calibration Check		QC	5	5	17H0737				
1714902-CCV8	Calibration Check		QC	5	5	17H0737				
1714902-CCV9	Calibration Check		QC	5	5	17H0737				
1714902-CCVA	Calibration Check		QC	5	5	17H0737				

WB 9-8-17  
 Analyst Reviewed Date

[Signature] 9/11/17  
 Manager Reviewed Date

\_\_\_\_\_  
 Extracts Received By Date

PREPARATION BENCH SHEET

1714902

Balance ID \_\_\_\_\_

Matrix: Aqueous

Prepared using: Wet Chem - General Preparation

(No Surrogate)

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
1714902-DUP1	Duplicate		QC	5	5		SC38663-02			
1714902-DUP2	Duplicate		QC	5	5		SC38678-05			
1714902-MS1	Matrix Spike		QC	5	5	17F0999	SC38663-02		IC34, T4	
1714902-MS2	Matrix Spike		QC	5	5	17F0999	SC38678-05		IC34, T4	
1714902-MSD1	Matrix Spike Dup		QC	5	5	17F0999	SC38663-02		IC34, T4	
1714902-MSD2	Matrix Spike Dup		QC	5	5	17F0999	SC38678-05		IC34, T4	
1714902-SRM1	Reference		QC	5	5	17H0736				
SC38657-05	7500-E	A	wc-Nitrate 300.	5	5			11-Sep-17 16:00		
SC38657-05	7500-E	A	wc-Nitrite 300.	5	5			11-Sep-17 16:00		
SC38663-01	Effluent 0829	A	wc-Nitrate 300.	5	5			11-Sep-17 15:00		report to the hundreth place
SC38663-01	Effluent 0829	A	wc-Nitrite 300.	5	5			11-Sep-17 15:00		report to the hundreth place
SC38663-02	Effluent 0830	A	wc-Chloride-30	5	5					BatchQC
SC38663-02	Effluent 0830	A	wc-Nitrate 300.	5	5			11-Sep-17 15:00		report to the hundreth place
SC38663-02	Effluent 0830	A	wc-Nitrite 300.	5	5			11-Sep-17 15:00		report to the hundreth place
SC38663-02	Effluent 0830	A	wc-Sulfate - 30	5	5					BatchQC
SC38668-01	MW-1S	F	wc-Chloride-30	5	5	<		11-Sep-17 16:00		
SC38668-01	MW-1S	F	wc-Nitrate 300.	5	5			11-Sep-17 16:00		
SC38668-01	MW-1S	F	wc-Sulfate - 30	5	5			11-Sep-17 16:00		
SC38668-02	MW-1D	F	wc-Chloride-30	5	5	<		11-Sep-17 16:00		
SC38668-02	MW-1D	F	wc-Nitrate 300.	5	5			11-Sep-17 16:00		
SC38668-02	MW-1D	F	wc-Sulfate - 30	5	5			11-Sep-17 16:00		
SC38668-03	MW-2S	F	wc-Chloride-30	5	5	<		11-Sep-17 16:00		

LAB 9/8/17  
 Analyst Reviewed Date

Case 9/11/17  
 Manager Reviewed Date

\_\_\_\_\_  
 Extracts Received By Date

**PREPARATION BENCH SHEET**

1714902

Balance ID \_\_\_\_\_

**Matrix: Aqueous**

**Prepared using: Wet Chem - General Preparation**

**(No Surrogate)**

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
SC38668-03	MW-2S	F	wc-Nitrate 300.	5	5			11-Sep-17 16:00		
SC38668-03	MW-2S	F	wc-Sulfate - 300	5	5			11-Sep-17 16:00		
SC38668-04	MW-2D	F	wc-Chloride-300	5	5	<		11-Sep-17 16:00		
SC38668-04	MW-2D	F	wc-Nitrate 300.	5	5			11-Sep-17 16:00		
SC38668-04	MW-2D	F	wc-Sulfate - 300	5	5			11-Sep-17 16:00		
SC38668-05	MW-3S	F	wc-Chloride-300	5	5	<		11-Sep-17 16:00		
SC38668-05	MW-3S	F	wc-Nitrate 300.	5	5			11-Sep-17 16:00		
SC38668-05	MW-3S	F	wc-Sulfate - 300	5	5			11-Sep-17 16:00		
SC38668-06	MW-3D	F	wc-Chloride-300	5	5	<		11-Sep-17 16:00		
SC38668-06	MW-3D	F	wc-Nitrate 300.	5	5			11-Sep-17 16:00		
SC38668-06	MW-3D	F	wc-Sulfate - 300	5	5			11-Sep-17 16:00		
SC38668-10	SW-2	F	wc-Chloride-300	5	5			11-Sep-17 16:00		
SC38668-10	SW-2	F	wc-Nitrate 300.	5	5			11-Sep-17 16:00		
SC38668-10	SW-2	F	wc-Sulfate - 300	5	5			11-Sep-17 16:00		
SC38678-01	TF1-EBP-MW1001-082917	N	wc-Chloride-300	5	5			11-Sep-17 16:00		DoD Level IV
SC38678-01	TF1-EBP-MW1001-082917	N	wc-Nitrate 300.	5	5			11-Sep-17 16:00		DoD Level IV
SC38678-01	TF1-EBP-MW1001-082917	N	wc-Sulfate - 300	5	5			11-Sep-17 16:00		DoD Level IV
SC38678-02	TF1-EBP-MW1000-082917	O	wc-Chloride-300	5	5			11-Sep-17 16:00		DoD Level IV
SC38678-02	TF1-EBP-MW1000-082917	O	wc-Nitrate 300.	5	5			11-Sep-17 16:00		DoD Level IV
SC38678-02	TF1-EBP-MW1000-082917	O	wc-Sulfate - 300	5	5			11-Sep-17 16:00		DoD Level IV
SC38678-03	TF1-MW1006-082917	O	wc-Chloride-300	5	5			11-Sep-17 16:00		DoD Level IV
SC38678-03	TF1-MW1006-082917	O	wc-Nitrate 300.	5	5			11-Sep-17 16:00		DoD Level IV

    LNB              9-8-17      
 Analyst Reviewed      Date

    Caw              9/11/17      
 Manager Reviewed      Date

Extracts Received By \_\_\_\_\_ Date \_\_\_\_\_

**PREPARATION BENCH SHEET**

1714902

Balance ID \_\_\_\_\_

**Matrix: Aqueous**

**Prepared using: Wet Chem - General Preparation**

**(No Surrogate)**

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
SC38678-03	TF1-MW1006-082917	O	wc-Sulfate - 30	5	5			11-Sep-17 16:00		DoD Level IV
SC38678-04	TF1-MW1002-082917	O	wc-Chloride-30	5	5			11-Sep-17 16:00		DoD Level IV
SC38678-04	TF1-MW1002-082917	O	wc-Nitrate 300.	5	5			11-Sep-17 16:00		DoD Level IV
SC38678-04	TF1-MW1002-082917	O	wc-Sulfate - 30	5	5			11-Sep-17 16:00		DoD Level IV
SC38678-05	TF1-GT-109-082917	S	wc-Nitrate 300.	5	5			11-Sep-17 16:00		DoD Level IV
SC38678-05	TF1-GT-109-082917	S	wc-Nitrite 300.	5	5					BatchQC
SC38678-05	TF1-GT-109-082917	S	wc-Sulfate - 30	5	5			11-Sep-17 16:00		DoD Level IV
SC38678-05RE1	TF1-GT-109-082917	S	wc-Chloride-30	5	5					BatchQC
SC38678-06	TF1-DUP-01-082917	N	wc-Chloride-30	5	5			11-Sep-17 16:00		DoD Level IV
SC38678-06	TF1-DUP-01-082917	N	wc-Nitrate 300.	5	5			11-Sep-17 16:00		DoD Level IV
SC38678-06	TF1-DUP-01-082917	N	wc-Sulfate - 30	5	5			11-Sep-17 16:00		DoD Level IV

8/30/17 AQ ANIONS LNB

**Reagents Used:**

17A0456      IC3 column  
 17H0949      IC3 Eluent 082917

*LNB 9.8.17*

*Cass 9/11/17*

\_\_\_\_\_  
 Analyst Reviewed      Date

\_\_\_\_\_  
 Manager Reviewed      Date

\_\_\_\_\_  
 Extracts Received By      Date

# CROSS REFERENCE TABLE

## SM18-22 5210B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA                      SDG: SC38678  
Client: Tetra Tech, Inc. - Salem, NH                                      Project: WE15 Tank Farm 1 NAVSTA Newport  
Project Number: 112608005-WE15

---

<b>Client Sample ID:</b>	<b>Lab Sample ID:</b>
<u>TF1-EBP-MW1001-082917</u>	<u>SC38678-01</u>
<u>TF1-EBP-MW1000-082917</u>	<u>SC38678-02</u>
<u>TF1-MW1006-082917</u>	<u>SC38678-03</u>
<u>TF1-MW1002-082917</u>	<u>SC38678-04</u>
<u>TF1-GT-109-082917</u>	<u>SC38678-05</u>
<u>TF1-DUP-01-082917</u>	<u>SC38678-06</u>

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**SM18-22 5210B**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S707901

Instrument: Spec 1

Calibration: 1707032

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Blank	1714966-BLK1		09/06/17 12:58
LCS	1714966-BS1		09/06/17 12:58
Reference	1714966-SRM1		09/06/17 12:58
TF1-EBP-MW1001-082917	SC38678-01		09/06/17 12:58
TF1-EBP-MW1000-082917	SC38678-02		09/06/17 12:58
TF1-MW1006-082917	SC38678-03		09/06/17 12:58
TF1-MW1002-082917	SC38678-04		09/06/17 12:58
TF1-GT-109-082917	SC38678-05		09/06/17 12:58
TF1-DUP-01-082917	SC38678-06		09/06/17 12:58
Reference	1714966-SRM2		09/06/17 12:58
Blank	1714966-BLK2		09/06/17 12:58

**FORM III - BLANKS****SM18-22 5210B**Laboratory: Eurofins Spectrum Analytical, Inc. - MASDG: SC38678Client: Tetra Tech, Inc. - Salem, NHProject: WE15 Tank Farm 1 NAVSTA NewportInstrument ID: Spec 1Calibration: 1707032Sequence: S707901

Matrix: Aqueous

<b>Lab Sample ID</b>	<b>Analyte</b>	<b>Found</b>	<b>MRL</b>	<b>Units</b>	<b>C</b>	<b>Method</b>
1714966-BLK1	Biochemical Oxygen Demand (5-day	BRL	3.00	mg/l	U	SM18-22 5210B
1714966-BLK2	Biochemical Oxygen Demand (5-day	BRL	3.00	mg/l	U	SM18-22 5210B



# FORM IIIa - LCS / LCS DUPLICATE RECOVERY

**SM18-22 5210B**

Laboratory: <u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG: <u>SC38678</u>
Client: <u>Tetra Tech, Inc. - Salem, NH</u>	Project: <u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix: <u>Aqueous</u>	Instrument: <u>Spec 1</u>
Batch: <u>1714966</u>	Laboratory ID: <u>1714966-BS1</u>
Preparation: <u>General Preparation</u>	Initial/Final: <u>300 ml / 300 ml</u>
Analyzed: <u>09/06/17 12:58</u>	Spike ID: <u>17H0348</u>
	File ID:

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Biochemical Oxygen Demand (5-day)	198	183	92	85 - 115

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

# FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

SM18-22 5210B

**Laboratory:** Eurofins Spectrum Analytical, Inc. - MA

**SDG:** SC38678

**Client:** Tetra Tech, Inc. - Salem, NH

**Project:** WE15 Tank Farm 1 NAVSTA Newport

**Matrix:** Aqueous

**Spike ID:** 17H0609

**Batch:** 1714966

**Laboratory ID:** 1714966-SRM1

**Preparation:** General Preparation

**Initial/Final:** 300 ml / 300 ml

ANALYTE	TRUE (mg/l)	FOUND (mg/l)	SRM % REC.	QC LIMITS REC.
Biochemical Oxygen Demand (5-day)	64.5	52.0	81	67 - 133

\* Values outside of QC limits

# FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

SM18-22 5210B

**Laboratory:** Eurofins Spectrum Analytical, Inc. - MA

**SDG:** SC38678

**Client:** Tetra Tech, Inc. - Salem, NH

**Project:** WE15 Tank Farm 1 NAVSTA Newport

**Matrix:** Aqueous

**Spike ID:** 17H0609

**Batch:** 1714966

**Laboratory ID:** 1714966-SRM2

**Preparation:** General Preparation

**Initial/Final:** 300 ml / 300 ml

ANALYTE	TRUE (mg/l)	FOUND (mg/l)	SRM % REC.	QC LIMITS REC.
Biochemical Oxygen Demand (5-day)	64.5	54.0	84	67 - 133

\* Values outside of QC limits

**Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS**

**SM18-22 5210B**

**Laboratory:** Eurofins Spectrum Analytical, Inc. - MA

**SDG:** SC38678

**Client:** Tetra Tech, Inc. - Salem, NH

**Project:** WE15 Tank Farm 1 NAVSTA Newport

<b>Analyte</b>	<b>MDL</b>	<b>MRL</b>	<b>Units</b>
Biochemical Oxygen Demand (5-day)	2.74	3.00	mg/l

PREPARATION BENCH SHEET

1714966

Sequence S707901

Balance ID NA

Matrix: Aqueous

Prepared using: Wet Chem - General Preparation

(No Surrogate)

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
1714966-BLK1	Blank		QC	300	300					
1714966-BLK2	Blank		QC	300	300					
1714966-BS1	LCS		QC	300	300	17H0348				
1714966-DUP1	Duplicate		QC	300	300		SC38688-01			
1714966-MS1	Matrix Spike		QC	300	300	17H0348	SC38688-01			
1714966-MSD1	Matrix Spike Dup		QC	300	300	17H0348	SC38688-01			
1714966-SRM1	Reference		QC	300	300	17H0609				
1714966-SRM2	Reference		QC	300	300	17H0609				
SC38598-01	Comp	B	wc-BOD/5-day	300	300			06-Sep-17 14:00		
SC38624-01	Influent	C	wc-BOD/5-day	300	300			08-Sep-17 16:00		
SC38624-02	Effluent	D	wc-BOD/5-day	300	300			08-Sep-17 16:00		
SC38643-01	Comp.	A	wc-BOD/5-day	300	300			07-Sep-17 14:00		
SC38657-01	7496-I	A	wc-BOD/5-day	300	300			11-Sep-17 16:00		
SC38657-03	7498-E	A	wc-BOD/5-day	300	300			11-Sep-17 16:00		
SC38658-02	MPO1	A	wc-BOD/5-day	300	300			11-Sep-17 16:00		
SC38658-04	PCO1	A	wc-BOD/5-day	300	300			11-Sep-17 16:00		
SC38662-01	EQ Tank	C	wc-BOD/5-day	300	300			07-Sep-17 15:00		
SC38662-02	PH Tank	D	wc-BOD/5-day	300	300			07-Sep-17 15:00		
SC38672-05	CedarsB3-Composite	B	wc-BOD/5-day	300	300			11-Sep-17 16:00		
SC38678-01	TF1-EBP-MW1001-082917	N	wc-BOD/5-day	300	300			11-Sep-17 16:00		DoD Level IV
SC38678-02	TF1-EBP-MW1000-082917	O	wc-BOD/5-day	300	300			11-Sep-17 16:00		DoD Level IV
SC38678-03	TF1-MW1006-082917	O	wc-BOD/5-day	300	300			11-Sep-17 16:00		DoD Level IV

W  
 Analyst Reviewed 09/06/17  
 Date

Agree - 9.06.17  
 Manager Reviewed 9.06.17  
 Date

Extracts Received By \_\_\_\_\_ Date \_\_\_\_\_

PREPARATION BENCH SHEET

1714966

Sequence S707901

Balance ID NA

Matrix: Aqueous

Prepared using: Wet Chem - General Preparation

(No Surrogate)

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
SC38678-04	TF1-MW1002-082917	O	wc-BOD/5-day	300	300			11-Sep-17 16:00		DoD Level IV
SC38678-05	TF1-GT-109-082917	S	wc-BOD/5-day	300	300			11-Sep-17 16:00		DoD Level IV
SC38678-06	TF1-DUP-01-082917	N	wc-BOD/5-day	300	300			11-Sep-17 16:00		DoD Level IV
SC38688-01	Linde Process Water	B	wc-BOD/5-day	300	300			12-Sep-17 16:00		Sample pulled at 10:45 am
SC38690-01	Comp.	A	wc-BOD/5-day	300	300			08-Sep-17 14:00		
SC38724-05	CedarsA1-Composite	A	wc-BOD/5-day	300	300			12-Sep-17 16:00		

wc-BOD5 08/31/17

Reagents Used:

PN 09/06/17  
 Analyst Reviewed Date

CA [Signature] 9-06-17  
 Manager Reviewed Date

\_\_\_\_\_  
 Extracts Received By Date

## CASE NARRATIVE

**Spectrum Analytical, Inc. Lab Reference No. SC38678**

**Client: Tetra Tech, Inc. - Salem, NH**

**Project: WE15 Tank Farm 1 NAVSTA Newport / 112608005-WE15**

**SDG #: SC38678**

### **I. RECEIPT**

No exceptions were encountered unless a Sample Receipt Exception or a communication form is included in the addendum with this package.

### **II. HOLDING TIMES**

All samples were prepared and analyzed within the method-specific holding time.

### **III. METHODS**

Analyses were performed according to SM5310B (00, 11).

### **IV. PREPARATION**

Aqueous samples were prepared according to General Preparation.

### **V. INSTRUMENTATION**

The following equipment was used to analyze SM5310B (00, 11):

TOC4 details: Shimadzu TOC-L

### **VI. ANALYSIS**

#### **A. Calibration:**

All quality control samples were within the acceptance criteria.

#### **B. Blanks:**

All blanks were within the acceptance criteria.

#### **C. Spikes:**

##### **1. Laboratory Control Samples (LCS):**

All method criteria were met.

##### **2. Matrix Spike / Matrix Spike Duplicate Samples (MS/MSD):**

No matrix spike or matrix spike duplicates were analyzed.

##### **3. Reference:**

All method criteria were met with the following exceptions:

Total Organic Carbon in batch 1715538: The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.

**D. Duplicates:**

No client requested duplicate. However, the method criteria may have been fulfilled with non-SDG source samples.

**E. Samples:**

All method criteria were met.



**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**SM5310B (00, 11)**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S705799

Instrument: TOC4

Calibration: 1706085

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Cal Standard	S705799-CAL1	0-100 062217-012	06/21/17 13:22
Cal Standard	S705799-CAL2	0-100 062217-016	06/21/17 13:48
Cal Standard	S705799-CAL3	0-100 062217-020	06/21/17 14:10
Cal Standard	S705799-CAL4	0-100 062217-024	06/21/17 14:33
Cal Standard	S705799-CAL5	0-100 062217-028	06/21/17 14:55
Cal Standard	S705799-CAL6	0-100 062217-032	06/21/17 15:18
Cal Standard	S705799-CAL7	0-100 062217-036	06/21/17 15:41
Cal Standard	S705799-CAL8	0-100 062217-040	06/21/17 16:04
Initial Cal Check	S705799-ICV1	0-100 062217-044	06/21/17 16:26
Initial Cal Blank	S705799-ICB1	0-100 062217-048	06/21/17 16:43

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**SM5310B (00, 11)**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence: S708136

Instrument: TOC4

Calibration: 1706085

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	1715538-CCV1	1715538-001	09/12/17 08:56
Calibration Blank	1715538-CCB1	1715538-002	09/12/17 09:12
Blank	1715538-BLK1	1715538-003	09/12/17 09:29
LCS	1715538-BS1	1715538-004	09/12/17 09:44
Reference	1715538-SRM1	1715538-005	09/12/17 10:00
TF1-EBP-MW1001-082917	SC38678-01	1715538-006	09/12/17 10:23
TF1-EBP-MW1000-082917	SC38678-02	1715538-007	09/12/17 10:39
TF1-MW1006-082917	SC38678-03	1715538-008	09/12/17 10:55
TF1-MW1002-082917	SC38678-04	1715538-009	09/12/17 11:12
TF1-GT-109-082917	SC38678-05	1715538-010	09/12/17 11:28
TF1-DUP-01-082917	SC38678-06	1715538-011	09/12/17 11:44
Calibration Check	1715538-CCV2	1715538-015	09/12/17 12:58
Calibration Blank	1715538-CCB2	1715538-016	09/12/17 13:14
Calibration Check	1715538-CCV3	1715538-021	09/12/17 14:41
Calibration Blank	1715538-CCB3	1715538-022	09/12/17 14:57
Calibration Check	1715538-CCV4	1715538-027	09/12/17 16:39
Calibration Blank	1715538-CCB4	1715538-028	09/12/17 16:55

**FORM III - BLANKS**  
**SM5310B (00, 11)**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: TOC4

Calibration: 1706085

Sequence: S705799

Matrix: Aqueous

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S705799-ICB1	Total Organic Carbon	0.3281	1.00	mg/l	J	SM5310B (00, 11)

**FORM III - BLANKS**  
**SM5310B (00, 11)**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: TOC4

Calibration: 1706085

Sequence: S708136

Matrix: Aqueous

<b>Lab Sample ID</b>	<b>Analyte</b>	<b>Found</b>	<b>MRL</b>	<b>Units</b>	<b>C</b>	<b>Method</b>
1715538-CCB1	Total Organic Carbon	BRL	1.00	mg/l	U	SM5310B (00, 11)
1715538-BLK1	Total Organic Carbon	BRL	1.00	mg/l	U	SM5310B (00, 11)
1715538-CCB2	Total Organic Carbon	BRL	1.00	mg/l	U	SM5310B (00, 11)
1715538-CCB3	Total Organic Carbon	0.3347	1.00	mg/l	J	SM5310B (00, 11)
1715538-CCB4	Total Organic Carbon	0.3159	1.00	mg/l	J	SM5310B (00, 11)

**FORM IIIa - LCS / LCS DUPLICATE RECOVERY**  
**SM5310B (00, 11)**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	TOC4
Batch:	<u>1715538</u>	Laboratory ID:	<u>1715538-BS1</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>40 ml / 40 ml</u>
Analyzed:	<u>09/12/17 09:44</u>	Spike ID:	17H0827
		File ID:	<u>1715538-004</u>

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	15.0	16.9	113	85 - 115

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

**FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY**

**SM5310B (00, 11)**

**Laboratory:** Eurofins Spectrum Analytical, Inc. - MA

**SDG:** SC38678

**Client:** Tetra Tech, Inc. - Salem, NH

**Project:** WE15 Tank Farm 1 NAVSTA Newport

**Matrix:** Aqueous

**Spike ID:** 17H0608

**Batch:** 1715538

**Laboratory ID:** 1715538-SRM1

**Preparation:** General Preparation

**Initial/Final:** 40 ml / 40 ml

ANALYTE	TRUE (mg/l)	FOUND (mg/l)	SRM % REC.	QC LIMITS REC.
Total Organic Carbon	14.6	17.5	121 *	88 - 112

\* Values outside of QC limits

**Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS**  
**SM5310B (00, 11)**

**Laboratory:** Eurofins Spectrum Analytical, Inc. - MA

**SDG:** SC38678

**Client:** Tetra Tech, Inc. - Salem, NH

**Project:** WE15 Tank Farm 1 NAVSTA Newport

<b>Analyte</b>	<b>MDL</b>	<b>MRL</b>	<b>Units</b>
Total Organic Carbon	0.238	1.00	mg/l

PREPARATION BENCH SHEET

1715538

5708136

Balance ID NA

Matrix: Aqueous

Prepared using: Wet Chem - General Preparation

(No Surrogate)

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
1715538-BLK1	Blank		QC	40	40					
1715538-BS1	LCS		QC	40	40	17H0827				
1715538-CCB1	Calibration Blank		QC	40	40					
1715538-CCB2	Calibration Blank		QC	40	40					
1715538-CCB3	Calibration Blank		QC	40	40					
1715538-CCB4	Calibration Blank		QC	40	40					
1715538-CCV1	Calibration Check		QC	40	40	17H0827				
1715538-CCV2	Calibration Check		QC	40	40	17H0827				
1715538-CCV3	Calibration Check		QC	40	40	17H0827				
1715538-CCV4	Calibration Check		QC	40	40	17H0827				
1715538-DUP1	Duplicate		QC	40	40		SC38733-04			
1715538-MS1	Matrix Spike		QC	40	40	16E0251	SC38733-04		JCI	
1715538-MSD1	Matrix Spike Dup		QC	40	40	16E0251	SC38733-04		JCI	
1715538-SRM1	Reference		QC	40	40	17H0608			JCI	
SC38678-01 /	TF1-EBP-MW1001-082917	F	wc-TOC - wate	40	40			11-Sep-17 16:00		DoD Level IV
SC38678-02 /	TF1-EBP-MW1000-082917	F	wc-TOC - wate	40	40			11-Sep-17 16:00		DoD Level IV
SC38678-03 /	TF1-MW1006-082917	F	wc-TOC - wate	40	40			11-Sep-17 16:00		DoD Level IV
SC38678-04 //	TF1-MW1002-082917	F	wc-TOC - wate	40	40			11-Sep-17 16:00		DoD Level IV
SC38678-05 //	TF1-GT-109-082917	F	wc-TOC - wate	40	40			11-Sep-17 16:00		DoD Level IV
SC38678-06 /	TF1-DUP-01-082917	F	wc-TOC - wate	40	40			11-Sep-17 16:00		DoD Level IV
SC38733-01	TF1-MW-1007-083017	F	wc-TOC - wate	40	40			12-Sep-17 16:00		DoD Level IV
SC38733-02	TF1-MW-1007D-083017	F	wc-TOC - wate	40	40			12-Sep-17 16:00		DoD Level IV

M. [Signature] 9/12/17  
Analyst Reviewed Date

B.D. [Signature] 9/13/17  
Manager Reviewed Date

\_\_\_\_\_  
Extracts Received By Date



PREPARATION BENCH SHEET

1715538

Balance ID MS

Matrix: Aqueous

Prepared using: Wet Chem - General Preparation

(No Surrogate)

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
SC38733-03	TF1-GZ-112-083017	F	wc-TOC - water	40	40			12-Sep-17 16:00		DoD Level IV
SC38733-04	TF1-MW-1005-083017	P	wc-TOC - water	40	40			12-Sep-17 16:00		Run MS/MSD/DoD Level IV
SC38733-05	TF1-GZ-118-083017	F	wc-TOC - water	40	40			12-Sep-17 16:00		DoD Level IV

toc9/12/17rlt  
VIAL LOT 7-080-001

Reagents Used:

17E0315 TOC WATER---1M HCL

Amel 9/12/17  
Analyst Reviewed Date

BO 9/13/17  
Manager Reviewed Date

\_\_\_\_\_  
Extracts Received By Date

# CROSS REFERENCE TABLE

SM2320B (97, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Project Number: 112608005-WE15

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**Client Sample ID:**

**Lab Sample ID:**

TF1-EBP-MW1001-082917

SC38678-01

TF1-EBP-MW1000-082917

SC38678-02

TF1-MW1006-082917

SC38678-03

TF1-MW1002-082917

SC38678-04

TF1-GT-109-082917

SC38678-05

TF1-DUP-01-082917

SC38678-06

**FORM VIII(Organics)/FORM XIII(Inorganics)  
ANALYSIS BATCH (SEQUENCE) SUMMARY**

**SM2320B (97, 11)**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Blank	1714942-BLK1	TOOL Alk 2017-08-31 1901-00	08/31/17 19:01
LCS	1714942-BS1	TOOL Alk 2017-08-31 1901-00	08/31/17 19:03
Reference	1714942-SRM1	TOOL Alk 2017-08-31 1901-00	08/31/17 19:08
Blank	1714942-BLK2	TOOL Alk 2017-08-31 1901-00	08/31/17 19:58
LCS	1714942-BS2	TOOL Alk 2017-08-31 1901-00	08/31/17 20:00
Blank	1714942-BLK3	TOOL Alk 2017-08-31 1901-00	08/31/17 20:38
LCS	1714942-BS3	TOOL Alk 2017-08-31 1901-00	08/31/17 20:40
TF1-DUP-01-082917	1714942-DUP1	TOOL Alk 2017-08-31 1901-00	08/31/17 20:53
TF1-DUP-01-082917	1714942-MS1	TOOL Alk 2017-08-31 1901-00	08/31/17 20:57
TF1-DUP-01-082917	1714942-MSD1	TOOL Alk 2017-08-31 1901-00	08/31/17 21:02
Blank	1714942-BLK4	TOOL Alk 2017-08-31 1901-00	08/31/17 21:07
LCS	1714942-BS4	TOOL Alk 2017-08-31 1901-00	08/31/17 21:08
Blank	1715035-BLK1	TOOL Alk 2017-09-01 1418-00	09/01/17 14:18
LCS	1715035-BS1	TOOL Alk 2017-09-01 1418-00	09/01/17 14:19
Reference	1715035-SRM1	TOOL Alk 2017-09-01 1418-00	09/01/17 14:24
Blank	1715035-BLK2	TOOL Alk 2017-09-01 1418-00	09/01/17 15:23
LCS	1715035-BS2	TOOL Alk 2017-09-01 1418-00	09/01/17 15:25
Blank	1715035-BLK3	TOOL Alk 2017-09-01 1418-00	09/01/17 16:15
LCS	1715035-BS3	TOOL Alk 2017-09-01 1418-00	09/01/17 16:16
Blank	1715035-BLK4	TOOL Alk 2017-09-01 1418-00	09/01/17 16:36
LCS	1715035-BS4	TOOL Alk 2017-09-01 1418-00	09/01/17 16:38

**FORM III - BLANKS**  
**SM2320B (97, 11)**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument ID: Titration

Calibration:

Sequence:

Matrix: Aqueous

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
1714942-BLK1	Total Alkalinity	1.87	4.00	mg/l CaCO3	J	SM2320B (97, 11)
1714942-BLK2	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)
1714942-BLK3	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)
1714942-BLK4	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)
1715035-BLK1	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)
1715035-BLK2	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)
1715035-BLK3	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)
1715035-BLK4	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)

**FORM IIIb (Organic) / FORM V (Inorganic)**  
**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY**

<b>TF1-DUP-01-082917</b>
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**SM2320B (97, 11)**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	<u>Titration</u>
Batch:	<u>1714942</u>	Laboratory ID:	<u>1714942-MS1</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>50 ml / 50 ml</u>
Source Sample Name:	<u>TF1-DUP-01-082917</u>	% Solids:	
		Spike ID:	17E0587
		File ID:	<u>DTOOL Alk 2017-08-31 1901-028</u>

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l CaCO3)	MS CONCENTRATION (mg/l CaCO3)	MS % REC. #	QC LIMITS REC.
Total Alkalinity	20.0	61.0	84.8	119	80 - 120

File ID: DTOOL Alk 2017-08-31 1901-029

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l CaCO3)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Total Alkalinity	20.0	82.6	108	3	20	80 - 120

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

**FORM IIIc - DUPLICATES**

**TF1-DUP-01-082917**

**SM2320B (97, 11)**

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC38678

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1714942-DUP1

Batch: 1714942

Lab Source ID: SC38678-06

Preparation: General Preparation

Initial/Final: 50 ml / 50 ml

Source Sample Name: TF1-DUP-01-082917

% Solids:

File ID: DTOOL Alk 2017-08-31 1901-027

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l CaCO3)	C	DUPLICATE CONCENTRATION (mg/l CaCO3)	C	RPD %	Q	METHOD
Total Alkalinity	20	61.0		59.1		3		SM2320B (97, 11)

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

**FORM IIIa - LCS / LCS DUPLICATE RECOVERY**  
**SM2320B (97, 11)**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	Titrator
Batch:	<u>1714942</u>	Laboratory ID:	<u>1714942-BS1</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>50 ml / 50 ml</u>
Analyzed:	<u>08/31/17 19:03</u>	Spike ID:	17E0587
		File ID:	<u>DTOOL Alk 2017-08-31 1901-002</u>

COMPOUND	SPIKE ADDED (mg/l CaCO <sub>3</sub> )	LCS CONCENTRATION (mg/l CaCO <sub>3</sub> )	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	50.9	102	90 - 110

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

**FORM IIIa - LCS / LCS DUPLICATE RECOVERY**  
**SM2320B (97, 11)**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	Titrator
Batch:	<u>1714942</u>	Laboratory ID:	<u>1714942-BS2</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>50 ml / 50 ml</u>
Analyzed:	<u>08/31/17 20:00</u>	Spike ID:	17E0587
		File ID:	<u>DTOOL Alk 2017-08-31 1901-012</u>

COMPOUND	SPIKE ADDED (mg/l CaCO <sub>3</sub> )	LCS CONCENTRATION (mg/l CaCO <sub>3</sub> )	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	50.9	102	90 - 110

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses



**FORM IIIa - LCS / LCS DUPLICATE RECOVERY**  
**SM2320B (97, 11)**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	Titrator
Batch:	<u>1714942</u>	Laboratory ID:	<u>1714942-BS3</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>50 ml / 50 ml</u>
Analyzed:	<u>08/31/17 20:40</u>	Spike ID:	17E0587
		File ID:	<u>DTOOL Alk 2017-08-31 1901-024</u>

COMPOUND	SPIKE ADDED (mg/l CaCO <sub>3</sub> )	LCS CONCENTRATION (mg/l CaCO <sub>3</sub> )	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	51.3	103	90 - 110

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

**FORM IIIa - LCS / LCS DUPLICATE RECOVERY**  
**SM2320B (97, 11)**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	Titrator
Batch:	<u>1714942</u>	Laboratory ID:	<u>1714942-BS4</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>50 ml / 50 ml</u>
Analyzed:	<u>08/31/17 21:08</u>	Spike ID:	17E0587
		File ID:	<u>DTOOL Alk 2017-08-31 1901-031</u>

COMPOUND	SPIKE ADDED (mg/l CaCO <sub>3</sub> )	LCS CONCENTRATION (mg/l CaCO <sub>3</sub> )	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	50.8	102	90 - 110

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

**FORM IIIa - LCS / LCS DUPLICATE RECOVERY**  
**SM2320B (97, 11)**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	Titrator
Batch:	<u>1715035</u>	Laboratory ID:	<u>1715035-BS1</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>50 ml / 50 ml</u>
Analyzed:	<u>09/01/17 14:19</u>	Spike ID:	17E0587
		File ID:	<u>DTOOL Alk 2017-09-01 1418-002</u>

COMPOUND	SPIKE ADDED (mg/l CaCO <sub>3</sub> )	LCS CONCENTRATION (mg/l CaCO <sub>3</sub> )	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	52.6	105	90 - 110

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

**FORM IIIa - LCS / LCS DUPLICATE RECOVERY**  
**SM2320B (97, 11)**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	Titrator
Batch:	<u>1715035</u>	Laboratory ID:	<u>1715035-BS2</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>50 ml / 50 ml</u>
Analyzed:	<u>09/01/17 15:25</u>	Spike ID:	17E0587
		File ID:	<u>DTOOL Alk 2017-09-01 1418-012</u>

COMPOUND	SPIKE ADDED (mg/l CaCO <sub>3</sub> )	LCS CONCENTRATION (mg/l CaCO <sub>3</sub> )	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	53.4	107	90 - 110

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

**FORM IIIa - LCS / LCS DUPLICATE RECOVERY**  
**SM2320B (97, 11)**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	Titrator
Batch:	<u>1715035</u>	Laboratory ID:	<u>1715035-BS3</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>50 ml / 50 ml</u>
Analyzed:	<u>09/01/17 16:16</u>	Spike ID:	17E0587
		File ID:	<u>DTOOL Alk 2017-09-01 1418-024</u>

COMPOUND	SPIKE ADDED (mg/l CaCO <sub>3</sub> )	LCS CONCENTRATION (mg/l CaCO <sub>3</sub> )	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	52.1	104	90 - 110

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

**FORM IIIa - LCS / LCS DUPLICATE RECOVERY**  
**SM2320B (97, 11)**

Laboratory:	<u>Eurofins Spectrum Analytical, Inc. - MA</u>	SDG:	<u>SC38678</u>
Client:	<u>Tetra Tech, Inc. - Salem, NH</u>	Project:	<u>WE15 Tank Farm 1 NAVSTA Newport</u>
Matrix:	<u>Aqueous</u>	Instrument:	Titrator
Batch:	<u>1715035</u>	Laboratory ID:	<u>1715035-BS4</u>
Preparation:	<u>General Preparation</u>	Initial/Final:	<u>50 ml / 50 ml</u>
Analyzed:	<u>09/01/17 16:38</u>	Spike ID:	17E0587
		File ID:	<u>DTOOL Alk 2017-09-01 1418-028</u>

COMPOUND	SPIKE ADDED (mg/l CaCO <sub>3</sub> )	LCS CONCENTRATION (mg/l CaCO <sub>3</sub> )	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	52.9	106	90 - 110

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

Individual peaks for multi-component analytes are indicated by a number in parentheses

# FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

SM2320B (97, 11)

**Laboratory:** Eurofins Spectrum Analytical, Inc. - MA

**SDG:** SC38678

**Client:** Tetra Tech, Inc. - Salem, NH

**Project:** WE15 Tank Farm 1 NAVSTA Newport

**Matrix:** Aqueous

**Spike ID:** 17H0359

**Batch:** 1714942

**Laboratory ID:** 1714942-SRM1

**Preparation:** General Preparation

**Initial/Final:** 20 ml / 50 ml

ANALYTE	TRUE (mg/l CaCO <sub>3</sub> )	FOUND (mg/l CaCO <sub>3</sub> )	SRM % REC.	QC LIMITS REC.
Total Alkalinity	124	132	107	92 - 111

\* Values outside of QC limits

# FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

SM2320B (97, 11)

**Laboratory:** Eurofins Spectrum Analytical, Inc. - MA

**SDG:** SC38678

**Client:** Tetra Tech, Inc. - Salem, NH

**Project:** WE15 Tank Farm 1 NAVSTA Newport

**Matrix:** Aqueous

**Spike ID:** 17H0359

**Batch:** 1715035

**Laboratory ID:** 1715035-SRM1

**Preparation:** General Preparation

**Initial/Final:** 20 ml / 50 ml

ANALYTE	TRUE (mg/l CaCO <sub>3</sub> )	FOUND (mg/l CaCO <sub>3</sub> )	SRM % REC.	QC LIMITS REC.
Total Alkalinity	124	122	98	92 - 111

\* Values outside of QC limits



**Organic/FORM IX(Inorganic) - METHOD DETECTION AND REPORTING LIMITS**

**SM2320B (97, 11)**

**Laboratory:** Eurofins Spectrum Analytical, Inc. - MA

**SDG:** SC38678

**Client:** Tetra Tech, Inc. - Salem, NH

**Project:** WE15 Tank Farm 1 NAVSTA Newport

<b>Analyte</b>	<b>MDL</b>	<b>MRL</b>	<b>Units</b>
Total Alkalinity	1.05	4.00	mg/l CaCO3

PREPARATION BENCH SHEET

1715035

AIK-20170901-1418

Balance ID AK

Matrix: Aqueous

Prepared using: Wet Chem - General Preparation

(No Surrogate)

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
1715035-BLK1	Blank		QC	50	50					
1715035-BLK2	Blank		QC	50	50					
1715035-BLK3	Blank		QC	50	50					
1715035-BLK4	Blank		QC	50	50					
1715035-BS1	LCS		QC	50	50	17E0587				
1715035-BS2	LCS		QC	50	50	17E0587				
1715035-BS3	LCS		QC	50	50	17E0587				
1715035-BS4	LCS		QC	50	50	17E0587				
1715035-DUP1	Duplicate		QC	100	50		SC38733-04			
1715035-MS1	Matrix Spike		QC	100	50	17E0587	SC38733-04			
1715035-MSD1	Matrix Spike Dup		QC	100	50	17E0587	SC38733-04			
1715035-SRM1	Reference		QC	20	50	17H0359				
SC38668-10	SW-2		F wc-Alkalinity S	100	50			11-Sep-17 16:00		
SC38678-01	TF1-EBP-MW1001-082917		N wc-Alkalinity S	100	50			11-Sep-17 16:00		DoD Level IV
SC38731-01	MW-1		E wc-Alkalinity S	100	50			12-Sep-17 16:00		
SC38731-02	MW-1D		E wc-Alkalinity S	100	50			12-Sep-17 16:00		
SC38731-03	MW-2		E wc-Alkalinity S	100	50			12-Sep-17 16:00		
SC38731-04	MW-3		E wc-Alkalinity S	100	50			12-Sep-17 16:00		
SC38731-05	MW-3D		E wc-Alkalinity S	50	50			12-Sep-17 16:00		
SC38731-06	MW-4		E wc-Alkalinity S	50	50			12-Sep-17 16:00		
SC38731-07	MW-4D		E wc-Alkalinity S	50	50			12-Sep-17 16:00		
SC38731-08	MW-5		E wc-Alkalinity S	50	50			12-Sep-17 16:00		

Bo

Analyst Reviewed 9/2/17 Date

Caro

Manager Reviewed 9/9/17 Date

Extracts Received By \_\_\_\_\_ Date

PREPARATION BENCH SHEET

1715035

Balance ID MA

Matrix: Aqueous

Prepared using: Wet Chem - General Preparation

(No Surrogate)

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
SC38731-09	SW-2	E	wc-Alkalinity S	50	50			12-Sep-17 16:00		
SC38733-01	TF1-MW-1007-083017	N	wc-Alkalinity S	100	50			12-Sep-17 16:00		DoD Level IV
SC38733-02	TF1-MW-1007D-083017	N	wc-Alkalinity S	100	50			12-Sep-17 16:00		DoD Level IV
SC38733-03	TF1-GZ-112-083017	N	wc-Alkalinity S	100	50			12-Sep-17 16:00		DoD Level IV
SC38733-04	TF1-MW-1005-083017	AQ	wc-Alkalinity S	100	50			12-Sep-17 16:00		Run MS/MSD/DoD Level IV
SC38733-05	TF1-GZ-118-083017	N	wc-Alkalinity S	100	50			12-Sep-17 16:00		DoD Level IV

9/1/17

Reagents Used:

BD 7/2/17  
 Analyst Reviewed Date

Car 9/9/17  
 Manager Reviewed Date

\_\_\_\_\_  
 Extracts Received By Date

PREPARATION BENCH SHEET

1714942

AIK-20170831-1901

Balance ID NA

Matrix: Aqueous

Prepared using: Wet Chem - General Preparation

(No Surrogate)

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
1714942-BLK1	Blank		QC	50	50					
1714942-BLK2	Blank		QC	50	50					
1714942-BLK3	Blank		QC	50	50					
1714942-BLK4	Blank		QC	50	50					
1714942-BS1	LCS		QC	50	50	17E0587				
1714942-BS2	LCS		QC	50	50	17E0587				
1714942-BS3	LCS		QC	50	50	17E0587				
1714942-BS4	LCS		QC	50	50	17E0587				
1714942-DUP1	Duplicate		QC	50	50		SC38678-06			
1714942-MS1	Matrix Spike		QC	50	50	17E0587	SC38678-06			
1714942-MSD1	Matrix Spike Dup		QC	50	50	17E0587	SC38678-06			
1714942-SRM1	Reference		QC	20	50	17H0359				
SC38516-01	DW-1		E wc-Alkalinity S	100	50			06-Sep-17 16:00		
SC38516-02	DW-5		E wc-Alkalinity S	100	50			06-Sep-17 16:00		
SC38624-02	Effluent		D wc-Alkalinity S	50	50			08-Sep-17 16:00		
SC38627-01	TF1-MW-1003-082817		O wc-Alkalinity S	50	50			08-Sep-17 16:00		DoD Level IV
SC38627-02	TF1-EBP-GZ101R-082817		O wc-Alkalinity S	100	50			08-Sep-17 16:00		DoD Level IV
SC38627-03	TF1-GT-106-082817		O wc-Alkalinity S	50	50			08-Sep-17 16:00		DoD Level IV
SC38668-01	MW-1S		F wc-Alkalinity S	50	50			11-Sep-17 16:00		
SC38668-02	MW-1D		F wc-Alkalinity S	50	50			11-Sep-17 16:00		
SC38668-03	MW-2S		F wc-Alkalinity S	50	50			11-Sep-17 16:00		
SC38668-04	MW-2D		F wc-Alkalinity S	50	50			11-Sep-17 16:00		

RD 9/2/17  
Analyst Reviewed Date

Cow 9/2/17  
Manager Reviewed Date

\_\_\_\_\_  
Extracts Received By Date

PREPARATION BENCH SHEET

1714942

Balance ID NA

Matrix: Aqueous

Prepared using: Wet Chem - General Preparation

(No Surrogate)

Lab Number	Client ID	ID	Analysis	Initial (ml)	Final (ml)	Spike ID	Source ID	Due Date	Pipet ID	Sample Comments
SC38668-05	MW-3S	F	wc-Alkalinity S	50	50			11-Sep-17 16:00		
SC38668-06	MW-3D	F	wc-Alkalinity S	50	50			11-Sep-17 16:00		
SC38678-02	TF1-EBP-MW1000-082917	N	wc-Alkalinity S	50	50			11-Sep-17 16:00		DoD Level IV
SC38678-03	TF1-MW1006-082917	N	wc-Alkalinity S	50	50			11-Sep-17 16:00		DoD Level IV
SC38678-04	TF1-MW1002-082917	N	wc-Alkalinity S	50	50			11-Sep-17 16:00		DoD Level IV
SC38678-05	TF1-GT-109-082917	R	wc-Alkalinity S	50	50			11-Sep-17 16:00		DoD Level IV
SC38678-06	TF1-DUP-01-082917	O	wc-Alkalinity S	50	50			11-Sep-17 16:00		DoD Level IV

8/31/17

Reagents Used:

BD 9/2/17  
 Analyst Reviewed Date

Caro 9/17/17  
 Manager Reviewed Date

\_\_\_\_\_  
 Extracts Received By Date

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 · 717-656-2300 Fax: 717-656-2681 · www.lancasterlabs.com

**02740 Custom TPH with Ranges (Water)**

Sample extracts in methylene chloride are analyzed by capillary chromatography using flame ionization detection. Quantitation is performed using the total peak area detected within the hydrocarbon ranges defined in the method.

Reference: Test Methods for Evaluating Solid Wastes SW-846, Method 8015B, December 1996

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**11181 Custom TPH w/ Ranges Water Ext**

A measured volume of water is serially liquid/liquid extracted with methylene chloride in a separatory funnel. The serial extracts are combined, dried and concentrated.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3510C, Rev 3, December 1996

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**10954 PFAS in Water by LC/MS/MS****14091 PFAS Water Prep**

A 100 ml sample of water is extracted using a solid phase extraction (SPE) cartridge. The resulting extract is analyzed by LC/MS/MS in negative electrospray ionization (ESI) mode.

Reference: Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LCMSMS), Version 1.1, September 2009.

## SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Collection Information</u>	<u>ELLE#</u>
SC38678-01 Grab Water	08/29/2017 10:44	9188306
SC38678-02 Grab Water	08/29/2017 14:52	9188307
SC38678-03 Grab Water	08/29/2017 10:25	9188308
SC38678-04 Grab Water	08/29/2017 11:05	9188309
SC38678-05 Grab Water	08/29/2017 16:05	9188310
SC38678-06 Grab Water	08/29/2017 12:00	9188311
SC38678-08 Grab Water	08/29/2017 11:05	9188312

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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Project Name: WE15 Tank Farm 1 NAVSTA Newport  
LL Group #: 1845406

**General Comments:**

All analyses have been performed in accordance with DOD QSM Version 5.0 unless otherwise noted below.

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

For dual column analyses, the surrogate (for multi-surrogate tests, at least one surrogate) must be within the acceptance limits on at least one of the two columns.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

**Analysis Specific Comments:****EPA 537 Version 1.1 Modified, Misc. Organics**

Sample #s: 9188306, 9188307, 9188308, 9188309, 9188310, 9188311, 9188312

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Batch #: 17246002 (Sample number(s): 9188306-9188312 UNSPK: P185281)

The recovery(ies) for the following analyte(s) in the MS exceeded the acceptance window indicating a positive bias: Perfluorohexanoic acid, Perfluorohexanesulfonate, Perfluoro-octanesulfonate

The recovery(ies) for the following analyte(s) in the MS were below the acceptance window: Perfluorobutanesulfonate

The recovery(ies) for one or more surrogates were below the acceptance window for sample(s) 9188306, 9188307, 9188308, 9188309, 9188310, 9188311, 9188312, Blank, LCS, LCSD, MS



# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>BMQL</b>	Below Minimum Quantitation Level	<b>mg</b>	milligram(s)
<b>C</b>	degrees Celsius	<b>mL</b>	milliliter(s)
<b>cfu</b>	colony forming units	<b>MPN</b>	Most Probable Number
<b>CP Units</b>	cobalt-chloroplatinate units	<b>N.D.</b>	non-detect
<b>F</b>	degrees Fahrenheit	<b>ng</b>	nanogram(s)
<b>g</b>	gram(s)	<b>NTU</b>	nephelometric turbidity units
<b>IU</b>	International Units	<b>pg/L</b>	picogram/liter
<b>kg</b>	kilogram(s)	<b>RL</b>	Reporting Limit
<b>L</b>	liter(s)	<b>TNTC</b>	Too Numerous To Count
<b>lb.</b>	pound(s)	<b>µg</b>	microgram(s)
<b>m3</b>	cubic meter(s)	<b>µL</b>	microliter(s)
<b>meq</b>	milliequivalents	<b>umhos/cm</b>	micromhos/cm
<b>&lt;</b>	less than		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

**Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value $\geq$ the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$ . The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$ . The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

## Case Narrative/Conformance Summary

**CLIENT: Eurofins Spectrum Analytical**  
**SDG: TNO36**

### EPH/Miscellaneous GC

Fraction: Custom TPH by GC with Ranges

Sample #	Client ID	Matrix		DF	Comments
		Liquid	Solid		
9188306	SC38678-01	X		1	
9188307	SC38678-02	X		1	
9188308	SC38678-03	X		1	
9188309	SC38678-04	X		1	
9188310	SC38678-05	X		1	
9188311	SC38678-06	X		1	

All analyses have been performed in accordance with DOD QSM Version 5.0 unless otherwise noted below.  
See QC Reference List for Associated Batch QC Samples

#### SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

#### HOLDING TIME:

All holding times were met.

#### PREPARATION/EXTRACTION/DIGESTION:

No problems were encountered.

#### CALIBRATION/STANDARDIZATION:

All criteria were met.

#### QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

##### MS/MSD

Matrix QC may not be included if site-specific QC were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, laboratory spike data (LCS) are provided.

#### SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.

## Case Narrative/Conformance Summary

**CLIENT: Eurofins Spectrum Analytical**  
**SDG: TNO36**

### EPH/Miscellaneous GC

Fraction: Custom TPH by GC with Ranges

#### Abbreviation Key

UNSPK = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
+MS = Matrix Spike	MDL = Method Detection Limit
MSD = Matrix Spike Duplicate	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value
D = Duplicate (DUP)	E= out of calibration range
LCS = Lab Control Sample	RE = Repreparation/Reanalysis
LCSD = Lab Control Sample Duplicate	* = Out of Specification

Fraction: Custom TPH by GC with Ranges

172480005A Sample	Chlorobenzene		Orthoterphenyl	
	Spike Added	0.0121 mg/l	Spike Added	0.0121 mg/l
	% Recovery	Limits	% Recovery	Limits
PBLK05248	78	35 - 135	90	56 - 125
LCS05248	82	35 - 135	88	56 - 125
LCSD05248	65	35 - 135	71	56 - 125
9188306	88	35 - 135	93	56 - 125
9188307	86	35 - 135	89	56 - 125
9188308	88	35 - 135	94	56 - 125
9188309	90	35 - 135	96	56 - 125
9188310	92	35 - 135	95	56 - 125
9188311	89	35 - 135	94	56 - 125

**Quality Control Reference List**  
**EPH/Miscellaneous GC**

**CLIENT: Eurofins Spectrum Analytical**  
**SDG: TNO36**

**Fraction: Custom TPH by GC with Ranges**

<b>Analysis</b>	<b>Batch Number</b>	<b>Sample Number</b>	<b>Analysis Date</b>
Custom TPH with Ranges (Water)	172480005A	PBLK05248	09/07/2017 21:26:00
		LCS05248	09/07/2017 21:49:00
		LCSD05248	09/07/2017 22:10:00
		9188306	09/07/2017 22:32:00
		9188307	09/07/2017 22:54:00
		9188308	09/07/2017 23:15:00
		9188309	09/07/2017 23:37:00
		9188310	09/07/2017 23:59:00
		9188311	09/08/2017 00:21:00

Fraction: Custom TPH by GC with Ranges

<b>172480005A / PBLK05248</b> <b>Analyte</b>	<b>Analysis Date</b>	<b>Blank Results</b>	<b>Units</b>	<b>DL</b>	<b>LOD</b>	<b>LOQ</b>
Total TPH	09/07/17	N.D.	mg/l	0.050	0.10	0.20
C8-C44	09/07/17	N.D.	mg/l	0.050	0.10	0.20

SDG: TNO36  
Matrix: LIQUID

**EPH/Miscellaneous GC**

Fraction: Custom TPH by GC with Ranges

LCS: LCS05248 LCSD: LCSD05248  Analyte	Batch: 172480005A (Sample number(s): 9188306-9188311 )							
	Spike Added mg/l	LCS Conc mg/l	LCSD Conc mg/l	LCS %Rec	LCSD %Rec	%Rec Limits	%RPD	%RPD Limits
Total TPH	0.800	0.604	0.474	76	59	36-132	24	30



Eurofins Lancaster Laboratories  
 EPH/Miscellaneous GC  
 Runlog for J093B  
 Instrument CP23--19879B

Data Directory Path is - \\USLAN-CHROMPERFACTIVE-DATA\CP23\

Operator	File	LLI#	Client ID	Analysis Date	Batch	Dilution Factor
2027	J093B.0001	CONDITIONER		4/3/17 18:12	179299999	1.00
2027	J093B.0002	CONDITIONER		4/3/17 18:34	179299999	1.00
2027	J093B.0003	CONDITIONER		4/3/17 18:56	179299999	1.00
2027	J093B.0004	CONDITIONER		4/3/17 19:18	179299999	1.00
2027	J093B.0005	IBLKX1732F	IBLKXOW	4/3/17 19:39	179299999	5.00
2027	J093B.0006	CAPR11632E	CAPR1AA	4/3/17 20:01	179299999	1.00
2027	J093B.0007	CAPR21632E	CAPR2AA	4/3/17 20:23	179299999	1.00
2027	J093B.0008	CAPR31732A	CAPR3AA	4/3/17 20:45	179299999	1.00
2027	J093B.0009	CAPR41632E	CAPR4AA	4/3/17 21:06	179299999	1.00
2027	J093B.0010	CAPR51632E	CAPR5AA	4/3/17 21:28	179299999	1.00
2027	J093B.0011	TPH_11632C	TPH_1AA	4/3/17 21:50	179299999	1.00
2027	J093B.0012	TPH_21632C	TPH_2AA	4/3/17 22:11	179299999	1.00
2027	J093B.0013	TPH_31732D	TPH_3AA	4/3/17 22:33	179299999	1.00
2027	J093B.0014	TPH_41632C	TPH_4AA	4/3/17 22:55	179299999	1.00
2027	J093B.0015	TPH_51632C	TPH_5AA	4/3/17 23:17	179299999	1.00
2027	J093B.0016	1FUL11632C	1FUL1AA	4/3/17 23:39	179299999	1.00
2027	J093B.0017	1FUL21632C	1FUL2AA	4/4/17 0:00	179299999	1.00
2027	J093B.0018	1FUL31732B	1FUL3AA	4/4/17 0:22	179299999	1.00
2027	J093B.0019	1FUL41732A	1FUL4AA	4/4/17 0:44	179299999	1.00
2027	J093B.0020	1FUL51632C	1FUL5AA	4/4/17 1:05	179299999	1.00
2027	J093B.0021	MOIL11732A	MOIL1AA	4/4/17 1:27	179299999	1.00
2027	J093B.0022	MOIL21732A	MOIL2AA	4/4/17 1:49	179299999	1.00
2027	J093B.0023	MOIL31732B	MOIL3AA	4/4/17 2:11	179299999	1.00
2027	J093B.0024	MOIL41732A	MOIL4AA	4/4/17 2:32	179299999	1.00
2027	J093B.0025	MOIL51732A	MOIL5AA	4/4/17 2:54	179299999	1.00
2027	J093B.0026	MECL2	AA	4/4/17 3:16	179299999	1.00
2027	J093B.0027	TMDLX1732A	TMDLXXQ	4/4/17 3:38	179299999	1.00
2027	J093B.0028	FMDLX1632C	FMDLXIQ	4/4/17 4:00	179299999	1.00
2027	J093B.0029	TPHCX1732A	TPHCXBH	4/4/17 4:21	179299999	1.00
2027	J093B.0030	1FLKX1732A	1FLKXAC	4/4/17 4:43	179299999	1.00
2027	J093B.0031	MOCKX1732A	MOCKXDB	4/4/17 5:05	179299999	1.00

Eurofins Lancaster Laboratories  
EPH/Miscellaneous GC  
Runlog for J241B  
Instrument CP23--19879B

Data Directory Path is - \\USLAN-CHROMPERFECT\ACTIVE-DATA\CP23\

Operator	File	LLI#	Client ID	Analysis Date	Batch	Dilution Factor
11173	J241B.0001	CONDITIONER	AA	8/29/17 10:32		1.00
11173	J241B.0002	CONDITIONER	AA	8/29/17 10:54		1.00
11173	J241B.0003	CONDITIONER	AA	8/29/17 11:16		1.00
11173	J241B.0004	CONDITIONER	AA	8/29/17 11:37		1.00
11173	J241B.0005	CONDITIONER	AA	8/29/17 11:59		1.00
11173	J241B.0006	TPH_31732K	TPH_3ZC	8/29/17 12:21	1724099999	1.00
11173	J241B.0007	CAPR31732B	CAPR3UR	8/29/17 12:43	1724099999	1.00

Eurofins Lancaster Laboratories  
 EPH/Miscellaneous GC  
 Runlog for J250B  
 Instrument CP23--19879B

Data Directory Path is - \\USLAN-CHROMPERFECTACTIVE-DATA\CP23\

Operator	File	LLI#	Client ID	Analysis Date	Batch	Dilution Factor
11173	J250B.0001	CONDITIONER		9/7/17 12:44	1724999999	1.00
11173	J250B.0002	CONDITIONER		9/7/17 13:05	1724999999	1.00
11173	J250B.0003	CONDITIONER		9/7/17 13:27	1724999999	1.00
11173	J250B.0004	CONDITIONER		9/7/17 13:49	1724999999	1.00
11173	J250B.0005	TPH_31732K	TPH_3BA	9/7/17 14:11	1724999999	1.00
11173	J250B.0006	BLANKA 9/5/17 RI	PBLK35244	9/7/17 14:32	172440035A	5.00
11173	J250B.0007	LCSA 9/5/17 RI	LCS35244	9/7/17 14:54	172440035A	5.00
11173	J250B.0008	9175485 RI	TAM43	9/7/17 15:16	172440035A	5.00
11173	J250B.0009	9175483DF20	TAM41	9/7/17 15:37	172440035A	100.00
11173	J250B.0010	9175483DF20	TAM41DUP	9/7/17 15:59	172440035A	100.00
11173	J250B.0011	9175483MSDF20	TAM41MS	9/7/17 16:21	172440035A	100.00
11173	J250B.0012	9175484DF20	TAM42	9/7/17 16:43	172440035A	100.00
11173	J250B.0013	TPH_31732K	TPH_3BB	9/7/17 17:05	1724999999	1.00
11173	J250B.0014	9186301 RI	8SF05	9/7/17 17:26	172440055A	1.00
11173	J250B.0015	9186300DF2	8SF04	9/7/17 17:48	172440055A	2.00
11173	J250B.0016	9186308DF5	8SF17	9/7/17 18:10	172440055A	5.00
11173	J250B.0017	9186312DF5	8SF22	9/7/17 18:32	172440055A	5.00
11173	J250B.0018	9186313DF5	8SF23	9/7/17 18:53	172440055A	5.00
11173	J250B.0019	9186314DF10	8SF25	9/7/17 19:15	172440055A	10.00
11173	J250B.0020	9185066DF2	ESC04	9/7/17 19:37	172440042A	2.00
11173	J250B.0021	9185069DF2	ESC07	9/7/17 19:59	172440042A	2.00
11173	J250B.0022	9185067DF10	ESC05	9/7/17 20:20	172440042A	10.00
11173	J250B.0023	TPH_31732K	TPH_3BC	9/7/17 20:42	1724999999	1.00
11173	J250B.0024	RTC44	AA	9/7/17 21:04	1724999999	1.00
11173	J250B.0025	BLANKA 9/5/17	PBLK05248	9/7/17 21:26	172480005A	1.00
11173	J250B.0026	LCSA 9/5/17	LCS05248	9/7/17 21:49	172480005A	1.00
11173	J250B.0027	LCSDA 9/5/17	LCSD05248	9/7/17 22:10	172480005A	1.00
11173	J250B.0028	9188306	O3601	9/7/17 22:32	172480005A	1.00
11173	J250B.0029	9188307	O3602	9/7/17 22:54	172480005A	1.00
11173	J250B.0030	9188308	O3603	9/7/17 23:15	172480005A	1.00
11173	J250B.0031	9188309	O3604	9/7/17 23:37	172480005A	1.00
11173	J250B.0032	9188310	O3605	9/7/17 23:59	172480005A	1.00
11173	J250B.0033	9188311	O3606	9/8/17 0:21	172480005A	1.00
11173	J250B.0034	9181323	W1400	9/8/17 0:43	172480005A	1.00
11173	J250B.0035	TPH_31732K	TPH_3BD	9/8/17 1:04	1724999999	1.00
11173	J250B.0036	9181356	W1615	9/8/17 1:26	172480005A	1.00
11173	J250B.0037	9181363	W1515	9/8/17 1:48	172480005A	1.00
11173	J250B.0038	9184142	HIC16	9/8/17 2:09	172480005A	1.00
11173	J250B.0039	9184154	HIC15	9/8/17 2:31	172480005A	1.00
11173	J250B.0040	9184167	HIC11	9/8/17 2:53	172480005A	1.00
11173	J250B.0041	9184138	HIC12	9/8/17 3:15	172480005A	1.00
11173	J250B.0042	9184206	HIC14	9/8/17 3:36	172480005A	1.00
11173	J250B.0043	9187968	1200-	9/8/17 3:58	172480005A	1.00
11173	J250B.0044	9181316	W1145	9/8/17 4:20	172480005A	1.00
11173	J250B.0045	TPH_31732K	TPH_3BD	9/8/17 4:42	1724999999	1.00
11173	J250B.0046	CAPR31732B	CAPR3VH	9/8/17 5:03	1724999999	1.00
11173	J250B.0047	9186306S	8SF15	9/8/17 5:25	172440056A	1.00
11173	J250B.0048	9186313S	8SF23	9/8/17 5:47	172440056A	1.00
11173	J250B.0049	9186312S	8SF22	9/8/17 6:09	172440056A	1.00
11173	J250B.0050	9186307S	8SF16	9/8/17 6:30	172440056A	1.00
11173	J250B.0051	9186303S	8SF11	9/8/17 6:52	172440056A	1.00
11173	J250B.0052	9186314S	8SF25	9/8/17 7:14	172440056A	1.00
11173	J250B.0053	9186308S	8SF17	9/8/17 7:35	172440056A	1.00
11173	J250B.0054	9186304S	8SF12	9/8/17 7:57	172440056A	1.00
11173	J250B.0055	TPH_31732K	TPH_3BF	9/8/17 8:19	1724999999	1.00
11173	J250B.0056	BLANKA 9/7/17	PBLK41249	9/8/17 8:41	172490041A	1.00

Operator	File	LLI#	Client ID	Analysis Date	Batch	Dilution Factor
11173	J250B.0057	LCSA 9/7/17	LCS41249	9/8/17 9:02	172490041A	1.00
11173	J250B.0058	9192948	O3701	9/8/17 9:24	172490041A	1.00
11173	J250B.0059	9192949	O3702	9/8/17 9:46	172490041A	1.00
11173	J250B.0060	9192950	O3703	9/8/17 10:08	172490041A	1.00
11173	J250B.0061	9192951	O3704	9/8/17 10:30	172490041A	1.00
11173	J250B.0062	9192952MS	O3704	9/8/17 10:51	172490041A	1.00
11173	J250B.0063	9192953MSD	O3704	9/8/17 11:13	172490041A	1.00
11173	J250B.0064	9192954	O3705	9/8/17 11:35	172490041A	1.00
11173	J250B.0065	9192985	O3801	9/8/17 11:57	172490041A	1.00
11173	J250B.0066	TPH_31732K	TPH_3BH	9/8/17 12:18	1724999999	1.00
11173	J250B.0067	9192986	O3802	9/8/17 12:40	172490041A	1.00
11173	J250B.0068	9192987	O3803	9/8/17 13:01	172490041A	1.00
11173	J250B.0069	9192989	O3805	9/8/17 13:23	172490041A	1.00
11173	J250B.0070	9192990	O3806	9/8/17 13:45	172490041A	1.00
11173	J250B.0071	9192992	O3808	9/8/17 14:06	172490041A	1.00
11173	J250B.0072	9192993	O3809	9/8/17 14:28	172490041A	1.00
11173	J250B.0073	9192994	O3810	9/8/17 14:49	172490041A	1.00
11173	J250B.0074	9192995	O3811	9/8/17 15:22	172490041A	1.00
11173	J250B.0075	9192988	O3804	9/8/17 15:43	172490041A	1.00
11173	J250B.0076	TPH_31732K	TPH_3BH	9/8/17 16:05	1724999999	1.00

**172480005A**

Tech 1: PD9931

Tech 2: NS227

Dept: 32		Prep Analysis: 11181 Custom TPH w/ Ranges Water Ext				Custom TPH with Ranges (Water)					
QC	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
BLANKA	PBLK05248	1000	SS1724332D	1.0			1				Diyo
LCSA	LCS05248	1000	SS1724332D		MS1724432A	1.0	1				
LCSDA	LCSD05248	1000	SS1724332D		MS1724432A	1.0	1				

Solvent Used	Lot No.
1:1 HCl	6110-11
Methylene Chloride	175714
Sodium Sulfate	17234A

ⓑ Sample was deleted. PD9931 9/5/17  
 ⓑ PD9931 9/5/17  
 ⓑ PD9931 9/5/17

Spike Solutions: MS1724432A DRO WATER SPIKE  
 SS1724332D DRO WATER SURROGATE

Sample #	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	List	Due Date	Prio
1	9181316	W1145	993	SS1724332D	1.0	1		43B	green/cloudy cont x3	02740	13335	09/12/2017	N
2	9181323	W1400	1053	SS1724332D		1		43B	tan/cloudy	02740	13335	09/12/2017	N
3	9181356	W1615	1053	SS1724332D		1		43B		02740	13335	09/12/2017	N
4	9181363	W1515	1059	SS1724332D		1		43A		02740	13335	09/12/2017	N
5	9184138	HIC12	1039	SS1724332D		1		43B	clear	02740	13335	09/13/2017	N
6	9184142	HIC16	1037	SS1724332D		1		43A		02740	13335	09/13/2017	N
7	9184154	HIC15	1002	SS1724332D		1		43L		02740	13335	09/13/2017	N
8	9184167	HIC11	1068	SS1724332D		1		43A		02740	13335	09/13/2017	N
9	9184206	HIC14	1050	SS1724332D		1		43A	tan/cloudy	02740	13335	09/13/2017	N
<del>10</del>	<del>9185063</del>	<del>ESC01</del>		<del>SS1724332D</del>						<del>02740</del>	<del>18675</del>	<del>09/13/2017</del>	<del>N</del>
<del>11</del>	<del>9185064</del>	<del>ESC02</del>		<del>SS1724332D</del>						<del>02740</del>	<del>18675</del>	<del>09/13/2017</del>	<del>N</del>
<del>12</del>	<del>9185068</del>	<del>ESC06</del>		<del>SS1724332D</del>						<del>02740</del>	<del>18675</del>	<del>09/13/2017</del>	<del>N</del>
13	9187968	1200-	1028	SS1724332D	1.0	1		43A	Green tint	02740	13335	09/14/2017	N
14	9188306	O3601	970	SS1724332D		1		29A	clear	02740	24604	09/14/2017	N
15	9188307	O3602	987	SS1724332D		1		29A		02740	24604	09/14/2017	N
16	9188308	O3603	979	SS1724332D		1		29A		02740	24604	09/14/2017	N
17	9188309	O3604	882	SS1724332D		1		29A		02740	24604	09/14/2017	N
18	9188310	O3605	894	SS1724332D		1		29A		02740	24604	09/14/2017	N
19	9188311	O3606	896	SS1724332D		1		29A		02740	24604	09/14/2017	N

TNO36 Page 211 of 802

Bench#	Bench#	Bench#
Rack ID:	Work Station	Micro Temp
Internal Standard	Balance #	100?
	25996	

R-VAP ID	C	R-VAP ID	C	R-VAP ID	C
S-bath ID	90 C	S-bath ID	90 C	N-Evap	C
				M-vap	C

172480005A



## Case Narrative/Conformance Summary

**CLIENT: Eurofins Spectrum Analytical**  
**SDG: TNO36**

### PFAS Group

Fraction: PFAS by LC/MS/MS

Sample #	Client ID	Matrix		DF	Comments
		Liquid	Solid		
9188306	SC38678-01	X		1	
9188307	SC38678-02	X		1	
9188308	SC38678-03	X		1	
9188309	SC38678-04	X		1	
9188310	SC38678-05	X		1	
9188311	SC38678-06	X		1	
9188312	SC38678-08	X		1	

All analyses have been performed in accordance with DOD QSM Version 5.0 unless otherwise noted below.  
See QC Reference List for Associated Batch QC Samples

### SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

### HOLDING TIME:

All holding times were met.

### PREPARATION/EXTRACTION/DIGESTION:

No problems were encountered.

### CALIBRATION/STANDARDIZATION:

All criteria were met.

### QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

#### MS/MSD

Matrix QC may not be included if site-specific QC were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, laboratory spike data (LCS) are provided.

#### Surrogate

Surrogate recoveries that are noncompliant are confirmed unless attributed to a dilution or otherwise noted.

SDG No.: TNO36  
Matrix: WATER

17246002		13C2-PFDODA	13C2-PFTEDA	13C3-PFBS	13C3-PFHXS	13C4-PFBA
	<b>Limits</b>	28-127	26-119	26-148	34-126	33-123
LAB SAMPLE ID	DATE/TIME	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
LCS246002	09/08/17 08:02	87	99	79	87	89
LCSDA	09/08/17 08:22	80	88	80	88	89
BLK246002	09/08/17 09:24	81	89	76	79	86
9188306	09/08/17 11:07	121	69	85	83	92
9188308	09/08/17 12:29	72	74	103	94	91
9188309	09/08/17 12:49	74	80	104	73	84
9188310	09/08/17 13:10	80	76	115	78	87
9188311	09/08/17 13:31	65	68	104	78	80
9188312	09/08/17 13:51	61	58	84	79	82
9188307	09/11/17 18:08	91	81	83	74	80

\* Outside QC Limits

SDG No.: TNO36  
Matrix: WATER

17246002	Limits	13C2-PFDODA	13C2-PFTEDA	13C3-PFBS	13C3-PFHXS	13C4-PFBA
		28-127	26-119	26-148	34-126	33-123
LAB SAMPLE ID	DATE/TIME	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
LCS246002	09/08/17 08:02	87	99	79	87	89
LCSDA	09/08/17 08:22	80	88	80	88	89
BLK246002	09/08/17 09:24	81	89	76	79	86
9188306	09/08/17 11:07	121	69	85	83	92
9188308	09/08/17 12:29	72	74	103	94	91
9188309	09/08/17 12:49	74	80	104	73	84
9188310	09/08/17 13:10	80	76	115	78	87
9188311	09/08/17 13:31	65	68	104	78	80
9188312	09/08/17 13:51	61	58	84	79	82
9188307	09/11/17 18:08	91	81	83	74	80

\* Outside QC Limits



SDG No.: TNO36  
Matrix: WATER

17246002	Limits	13C4-PFHPA	13C5-PFHXA	13C5-PFPEA	13C6-PFDA	13C7-PFUNDA
		35-126	31-128	39-135	40-115	30-128
LAB SAMPLE ID	DATE/TIME	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
LCS246002	09/08/17 08:02	91	89	88	93	83
LCSDA	09/08/17 08:22	90	85	93	85	79
BLK246002	09/08/17 09:24	80	79	86	84	80
9188306	09/08/17 11:07	86	85	79	90	75
9188308	09/08/17 12:29	97	92	108	92	90
9188309	09/08/17 12:49	84	78	99	96	77
9188310	09/08/17 13:10	95	87	110	100	87
9188311	09/08/17 13:31	86	83	94	90	74
9188312	09/08/17 13:51	85	87	85	86	71
9188307	09/11/17 18:08	70	77	80	76	86

\* Outside QC Limits

**Quality Control Reference List**  
**PFAS Group**

**CLIENT: Eurofins Spectrum Analytical**  
**SDG: TNO36**

**Fraction: PFAS by LC/MS/MS**

<b>Analysis</b>	<b>Batch Number</b>	<b>Sample Number</b>	<b>Analysis Date</b>
PFAS in Water by LC/MS/MS	17246002	BLK246002B	09/08/2017 09:24:00
		LCS246002Q	09/08/2017 08:02:00
		LCSDAY	09/08/2017 08:22:00
		9188306	09/08/2017 11:07:00
		9188307	09/11/2017 18:08:00
		9188308	09/08/2017 12:29:00
		9188309	09/08/2017 12:49:00
		9188310	09/08/2017 13:10:00
		9188311	09/08/2017 13:31:00
		9188312	09/08/2017 13:51:00

Fraction: PFAS by LC/MS/MS

<b>17246002 / BLK246002B Analyte</b>	<b>Analysis Date</b>	<b>Blank Results</b>	<b>Units</b>	<b>DL</b>	<b>LOD</b>	<b>LOQ</b>
Perfluorooctanoic acid	09/08/17	N.D.	ng/l	0.6	2	2
Perfluorononanoic acid	09/08/17	N.D.	ng/l	0.6	2	2
Perfluorodecanoic acid	09/08/17	N.D.	ng/l	0.5	2	2
Perfluoroundecanoic acid	09/08/17	N.D.	ng/l	1	3	3
Perfluorododecanoic acid	09/08/17	N.D.	ng/l	0.5	2	2
Perfluorotridecanoic acid	09/08/17	N.D.	ng/l	0.5	2	2
Perfluorotetradecanoic acid	09/08/17	N.D.	ng/l	0.5	2	2
Perfluorohexanoic acid	09/08/17	N.D.	ng/l	0.6	2	2
Perfluoroheptanoic acid	09/08/17	N.D.	ng/l	0.5	2	2
Perfluorobutanesulfonate	09/08/17	N.D.	ng/l	0.8	3	3
Perfluorohexanesulfonate	09/08/17	N.D.	ng/l	1	3	3
Perfluoro-octanesulfonate	09/08/17	N.D.	ng/l	2	6	6
Perfluorobutanoic Acid	09/08/17	N.D.	ng/l	3	10	10
Perfluoropentanoic Acid	09/08/17	N.D.	ng/l	0.5	2	2
Perfluoroheptanesulfonate	09/08/17	N.D.	ng/l	2	6	6
Perfluorodecanesulfonate	09/08/17	N.D.	ng/l	2	6	6
PFOSA	09/08/17	N.D.	ng/l	3	9	9

SDG: TNO36  
Matrix: LIQUID

**PFAS Group**  
Fraction: PFAS by LC/MS/MS

LCS: LCS246002Q LCSD: LCSDAY  Analyte	Batch: 17246002 (Sample number(s): 9188306-9188312 )							
	Spike Added ng/l	LCS Conc ng/l	LCSD Conc ng/l	LCS %Rec	LCSD %Rec	%Rec Limits	%RPD	%RPD Limits
Perfluorooctanoic acid	13.6	14.27	13.11	105	96	70-130	9	30
Perfluorononanoic acid	13.6	14.05	14.57	103	107	70-130	4	30
Perfluorodecanoic acid	13.6	14.33	13.56	105	100	70-130	6	30
Perfluoroundecanoic acid	13.6	12.82	13.79	94	101	70-130	7	30
Perfluorododecanoic acid	13.6	12.55	13.28	92	98	70-130	6	30
Perfluorotridecanoic acid	13.6	16.35	15.67	120	115	70-130	4	30
Perfluorotetradecanoic acid	13.6	13.14	13.41	97	99	70-130	2	30
Perfluorohexanoic acid	13.6	12.73	12.83	94	94	70-130	1	30
Perfluoroheptanoic acid	13.6	13.08	13.42	96	99	70-130	3	30
Perfluorobutanesulfonate	12	10.86	12.2	90	102	70-130	12	30
Perfluorohexanesulfonate	12.85	12.76	10.6	99	82	70-130	19	30
Perfluoro-octanesulfonate	13	12.48	11.43	96	88	70-130	9	30
Perfluorobutanoic Acid	13.6	13.67	13.61	100	100	70-130	0	30
Perfluoropentanoic Acid	13.6	12.08	12.19	89	90	70-130	1	30
Perfluoroheptanesulfonate	12.49	11.38	12.19	91	98	70-130	7	30
Perfluorodecanesulfonate	13.09	10.1	11.18	77	85	70-130	10	30
PFOSA	13.6	13.57	12.79	100	94	70-130	6	30

Organic Extraction Batchlog

Assigned to: 9213 Pamela Rothharpt

Reviewed by: OW 10262

Start Date: 9/5/17

Start time: 8:25

**17246002**

Tech 1: PJRAZIB

Tech 2: \_\_\_\_\_

Analyses on Batch: PFAS in Water by LC/MS/MS

Dept: 33 Prep Analysis: 14091 PFAS Water Prep											
Port#	QC	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (uL)	IS amt (uL)	BC	Comments
2	9185281MS	O3501MS	99.97	SSMODX1733W	.025	MSMODX1733S	.04	1ml	16	201a	
10	BLANKA	BLK246002	100	SSMODX1733W	.025					Z	
11	LCSA	LCS246002	100	SSMODX1733W	.025	MSMODX1733S	.04	↓	↓	Z	
12	LCSDA	LCSD246002	100	SSMODX1733W	.025	MSMODX1733S	.04	↓	↓	Z	

Spike Solutions: Witness: JWKAS24

Instrument: LM24960

MSMODX1733S PFAS 537 Native Spike

Sequence: 17AUG18MOD-17SEP07/17SEP11

SSMODX1733W PFAS 537 Modified Extraction/Surrogate Spik

Port#	Sample #	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV (uL)	IS Amt (uL)	BC	Comments	Analyses	Due Date	Prio	
35	1	9185281	O350	99.91	SSMODX1733W	.025	1ml	16	201a	centrifuged, cloudy w/ sediment	10954	09/13/2017	N
36	2	9185282	O350	100.03	SSMODX1733W	.025			201a		10954	09/13/2017	N
37	3	9185283	O350	99.71	SSMODX1733W	.025			201a	centrifuged, cloudy	10954	09/13/2017	N
38	4	9185284	O350	100.15	SSMODX1733W	.025			201a		10954	09/13/2017	N
39	5	9188306	O360	100.01	SSMODX1733W	.025			201a	centrifuged, cloudy	10954	09/14/2017	N
40	6	9188307	O360	99.79	SSMODX1733W	.025			201a		10954	09/14/2017	N
41	7	9188308	O360	99.61	SSMODX1733W	.025			201a		10954	09/14/2017	N
42	8	9188309	O360	100.31	SSMODX1733W	.025			201a		10954	09/14/2017	N
43	9	9188310	O360	99.60	SSMODX1733W	.025			201a	centrifuged, cloudy w/ sediment	10954	09/14/2017	N
44	10	9188311	O360	100.15	SSMODX1733W	.025			201a	centrifuged, cloudy w/ sediment	10954	09/14/2017	N
45	11	9188312	O360	99.73	SSMODX1733W	.025	↓	↓	201a		10954	09/14/2017	N

9/5/17 DDM25478

Balance #	<u>B629764122</u>	SPE Manifold	<u>4.5</u>	N-evap	<u>C</u>
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17246002

DF = Dilution Factor FV = Final Volume

Documented temps are NIST corrected.



Reagents used During Extraction

Reagent/Material/Equip	Lot No./ID No.
96% MeOH:H2O	—
Acetate Buffer	2707948
Acetonitrile	—
Auto-pipette (dilutions)	
Auto-pipette (extract vialin)	D1000-1
Internal Standard	151724933A
Methanol	DS096-US
Milli-Q H2O	house A223
NH4OH:H2O	921309011733A
NH4OH:MeOH	921309011733B
SPE Cartridge #1	U370231-03
SPE Cartridge #2	—
Sodium Thiosulfate	—
Syringe (IS)	IS 1
Syringe (MS)	PFAS 10
Syringe (SS)	PFAS 9
Trizma	SLBT 4699

02 of 802

D10 - 877 ml MeOH (DS096-US) added to 100ml sample + 22.5 ml surrogate SS MOD 41733Z  
 → 200ml this soln added to 10 ml internal 151725133A DW 9/11/17

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Project Name: SC38678  
LL Group #: 1857430

**General Comments:**

All analyses have been performed in accordance with DOD QSM Version 5.0 unless otherwise noted below.

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

For dual column analyses, the surrogate (for multi-surrogate tests, at least one surrogate) must be within the acceptance limits on at least one of the two columns.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

**Analysis Specific Comments:****SW-846 6020A, Metals**

Batch #: 172771063901A (Sample number(s): 9240365-9240370 UNSPK: P240335 BKG: P240335)

The recovery(ies) for the following analyte(s) in the MS and/or MSD exceeded the acceptance window indicating a positive bias: Antimony

The recovery(ies) for the following analyte(s) in the MS and/or MSD were below the acceptance window: Manganese

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Chromium

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>BMQL</b>	Below Minimum Quantitation Level	<b>mg</b>	milligram(s)
<b>C</b>	degrees Celsius	<b>mL</b>	milliliter(s)
<b>cfu</b>	colony forming units	<b>MPN</b>	Most Probable Number
<b>CP Units</b>	cobalt-chloroplatinate units	<b>N.D.</b>	non-detect
<b>F</b>	degrees Fahrenheit	<b>ng</b>	nanogram(s)
<b>g</b>	gram(s)	<b>NTU</b>	nephelometric turbidity units
<b>IU</b>	International Units	<b>pg/L</b>	picogram/liter
<b>kg</b>	kilogram(s)	<b>RL</b>	Reporting Limit
<b>L</b>	liter(s)	<b>TNTC</b>	Too Numerous To Count
<b>lb.</b>	pound(s)	<b>µg</b>	microgram(s)
<b>m3</b>	cubic meter(s)	<b>µL</b>	microliter(s)
<b>meq</b>	milliequivalents	<b>umhos/cm</b>	micromhos/cm
<b>&lt;</b>	less than		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

**Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



# Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value $\geq$ the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$ . The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$ . The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

## Case Narrative/Conformance Summary

**CLIENT: Eurofins Spectrum Analytical**  
**SDG: SAI26**

### ICP Metals

Fraction: Metals in Liquid

Sample #	Client ID	Matrix		DF	Comments
		Liquid	Solid		
9240365	SC38678-01	X		1	
9240366	SC38678-02	X		1	
9240367	SC38678-03	X		1	
9240368	SC38678-04	X		1	
9240369	SC38678-05	X		1	
9240370	SC38678-06	X		1	

All analyses have been performed in accordance with DOD QSM Version 5.0 unless otherwise noted below.  
See QC Reference List for Associated Batch QC Samples

### SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

### HOLDING TIME:

All holding times were met.

### PREPARATION/EXTRACTION/DIGESTION:

No problems were encountered.

### CALIBRATION/STANDARDIZATION:

All criteria were met.

### QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

#### MS/MSD

Matrix QC may not be included if site-specific QC were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, laboratory spike data (LCS) are provided.

Method: MS  
Instrument ID: 19204  
Date: 07/2017

Analyte	MASS (amu)	Background	IDL (UG/L)
Antimony	121		0.35
Arsenic	75		0.60
Barium	137		0.43
Beryllium	9		0.054
Cadmium	111		0.15
Chromium	52		0.50
Cobalt	59		0.17
Copper	63		0.40
Lead	208		0.088
Manganese	55		0.90
Molybdenum	98		0.25
Nickel	60		0.61
Selenium	78		0.50
Silver	107		0.12
Thallium	203		0.12
Vanadium	51		0.17
Zinc	66		2.6

Comments:

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**METHODS:**

P = ICP Atomic Emission Spectrometer  
MS = ICP Mass Spectrometry  
CV = Cold Vapor  
AF = Cold Vapor Atomic Fluorescence



Method: MS  
Date: 06/2017

Analyte	Mass	Background	LOQ (UG/L)	MDL (UG/L)
Antimony	121		2.0	0.45
Arsenic	75		4.0	0.72
Barium	137		4.0	0.72
Beryllium	9		1.0	0.071
Cadmium	111		1.0	0.15
Chromium	52		4.0	0.87
Cobalt	59		1.0	0.16
Copper	63		4.0	0.54
Lead	208		2.0	0.11
Manganese	55		4.0	0.90
Molybdenum	98		1.0	0.25
Nickel	60		4.0	1.0
Selenium	78		4.0	0.50
Silver	107		1.0	0.15
Thallium	203		1.0	0.12
Vanadium	51		1.0	0.21
Zinc	66		30.0	3.9

The LOQ/MDL must be adjusted for % Solids and Sample Weight for samples reporting in mg/kg and ug/L.

Comments:

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**METHODS:**

- P = ICP Atomic Emission Spectrometer
- MS = ICP Mass Spectrometry
- CV = Cold Vapor
- AF = Cold Vapor Atomic Fluorescence





Instrument ID: 19204  
Run Name: 1728207E05

Start Date: 10/09/2017  
End Date: 10/09/2017

Standard	Elements Applies to	Standard	Elements Applies to
BI-2-209	PB, TL	IN-1-115	SE
IN-2-115	AG, AS, BA, CD, CO, CU, MO, NI, SB, ZN	SC-2-45	CR, MN, V
SC-3-45	BE		

Lab Sample ID	Time	Internal Standards %RI For:													
		Element SC-2-45	Q	Element SC-3-45	Q	Element IN-1-115	Q	Element IN-2-115	Q	Element BI-2-209	Q	Element	Q	Element	Q
S0	17:15	100		100		100		100		100					
S	17:18	103		99		99		101		101					
CCS	17:21	98		98		97		97		99					
CCS	17:24	103		96		99		98		100					
ICV	17:27	101		99		98		102		99					
ICB	17:30	97		98		98		98		99					
LLC	17:33	103		98		100		100		101					
ICSA	17:36	90		88		90		91		87					
ICSAB	17:40	88		88		90		87		86					
ZZZZZZ	17:43														
CCV	17:46	97		97		98		96		97					
CCB	17:49	95		97		98		96		98					
P27763AB	17:52	98		99		101		97		101					
P27763AQ	17:55	105		99		101		101		99					
*40335BKG	17:58	101		99		99		99		101					
ZZZZZZ	18:01														
ZZZZZZ	18:04														
ZZZZZZ	18:07														
ZZZZZZ	18:10														
*40335L	18:14	102		103		101		102		103					
ZZZZZZ	18:17														
ZZZZZZ	18:20														
CCV	18:23	98		98		102		101		101					
CCB	18:26	94		97		98		98		99					
ZZZZZZ	18:29														
ZZZZZZ	18:32														
ZZZZZZ	18:35														
ZZZZZZ	18:38														
ZZZZZZ	18:41														
ZZZZZZ	18:45														
ZZZZZZ	18:48														

<p><b>LEGEND:</b>          BKG = Background      MS = Matrix Spike          DUP = Duplicate      MSD = Matrix Spike Duplicate          L = Serial Dilution    A = Post Digest Spike          B = Blank          Q = Laboratory Control Sample          Y = Laboratory Control Sample Duplicate</p> <p><b>FLAG:</b>          R = Internal Standard Relative Intensity OOS</p>	<p><b>INTERNAL STANDARD ELEMENTS:</b>          BE = Beryllium      LI = Lithium          BI = Bismuth      SC = Scandium          GE = Germanium      TB = Terbium          HO = Holmium      Y = Yttrium          IN = Indium</p>
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Instrument ID: 19204  
Run Name: 1728207E05

Start Date: 10/09/2017  
End Date: 10/09/2017

Standard	Elements Applies to	Standard	Elements Applies to
BI-2-209	PB, TL	IN-1-115	SE
IN-2-115	AG, AS, BA, CD, CO, CU, MO, NI, SB, ZN	SC-2-45	CR, MN, V
SC-3-45	BE		

Lab Sample ID	Time	Internal Standards %RI For:													
		Element SC-2-45	Q	Element SC-3-45	Q	Element IN-1-115	Q	Element IN-2-115	Q	Element BI-2-209	Q	Element	Q	Element	Q
ZZZZZZ	18:51														
ZZZZZZ	18:54														
ZZZZZZ	18:57														
CCV	19:00	100		100		102		97		104					
CCB	19:03	101		100		99		101		100					
9240365	19:06	101		100		102		100		102					
9240366	19:09	105		101		101		102		105					
9240367	19:13	100		101		100		96		101					
9240368	19:16	100		99		99		99		101					
9240369	19:19	101		100		99		100		100					
9240370	19:22	104		99		100		99		98					
CCV	19:25	98		98		97		96		100					
CCB	19:28	96		100		98		99		101					

<b>LEGEND:</b> BKG = Background      MS = Matrix Spike DUP = Duplicate      MSD = Matrix Spike Duplicate L = Serial Dilution    A = Post Digest Spike B = Blank Q = Laboratory Control Sample Y = Laboratory Control Sample Duplicate <b>FLAG:</b> R = Internal Standard Relative Intensity OOS	<b>INTERNAL STANDARD ELEMENTS:</b> BE = Beryllium      LI = Lithium BI = Bismuth      SC = Scandium GE = Germanium      TB = Terbium HO = Holmium      Y = Yttrium IN = Indium
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Instrument ID: 19204  
Run Name: 1728504E05

Start Date: 10/12/2017  
End Date: 10/12/2017

Standard	Elements Applies to	Standard	Elements Applies to
IN-1-115	BA, CD, NI	SC-1-45	MN

Lab Sample ID	Time	Internal Standards %RI For:											
		Element SC-1-45	Q	Element IN-1-115	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	05:53	100		100									
S	05:55	98		94									
CCS	05:57	101		99									
CCS	05:59	100		96									
ICV	06:00	99		97									
ICB	06:02	103		99									
LLC	06:04	101		101									
ICSA	06:06	89		85									
ICSAB	06:08	91		85									
ZZZZZZ	06:10												
CCV	06:11	100		97									
CCB	06:13	99		97									
P27763AQ	06:15	104		100									
ZZZZZZ	06:17												
ZZZZZZ	06:19												
ZZZZZZ	06:21												
ZZZZZZ	06:22												
ZZZZZZ	06:24												
ZZZZZZ	06:26												
ZZZZZZ	06:28												
ZZZZZZ	06:30												
ZZZZZZ	06:32												
CCV	06:34	102		103									
CCB	06:35	101		102									
ZZZZZZ	06:37												
ZZZZZZ	06:39												
ZZZZZZ	06:41												
ZZZZZZ	06:43												
ZZZZZZ	06:45												
ZZZZZZ	06:46												
9240365	06:48			99									

<b>LEGEND:</b> BKG = Background      MS = Matrix Spike DUP = Duplicate      MSD = Matrix Spike Duplicate L = Serial Dilution    A = Post Digest Spike B = Blank Q = Laboratory Control Sample Y = Laboratory Control Sample Duplicate <b>FLAG:</b> R = Internal Standard Relative Intensity OOS	<b>INTERNAL STANDARD ELEMENTS:</b> BE = Beryllium      LI = Lithium BI = Bismuth      SC = Scandium GE = Germanium      TB = Terbium HO = Holmium      Y = Yttrium IN = Indium
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Instrument ID: 19204  
Run Name: 1728504E05

Start Date: 10/12/2017  
End Date: 10/12/2017

Standard	Elements Applies to	Standard	Elements Applies to
IN-1-115	BA, CD, NI	SC-1-45	MN

Lab Sample ID	Time	Internal Standards %RI For:											
		Element SC-1-45	Q	Element IN-1-115	Q	Element	Q	Element	Q	Element	Q	Element	Q
9240366	06:50			103									
9240367	06:52	101		100									
9240368	06:54			99									
CCV	06:56	104		101									
CCB	06:57	101		103									
9240369	06:59			102									
9240370	07:01			102									
CCV	07:03	100		101									
CCB	07:05	101		100									

<p><b>LEGEND:</b></p> <p>BKG = Background      MS = Matrix Spike          DUP = Duplicate      MSD = Matrix Spike Duplicate          L = Serial Dilution    A = Post Digest Spike          B = Blank          Q = Laboratory Control Sample          Y = Laboratory Control Sample Duplicate</p> <p><b>FLAG:</b></p> <p>R = Internal Standard Relative Intensity OOS</p>	<p><b>INTERNAL STANDARD ELEMENTS:</b></p> <p>BE = Beryllium      LI = Lithium          BI = Bismuth      SC = Scandium          GE = Germanium    TB = Terbium          HO = Holmium      Y = Yttrium          IN = Indium</p>
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Method: MS  
Run Name: 1728207E05  
Calibration Date(s): 10/09/2017  
Preparation Blank Matrix: WATER

Analyte	Mass	Initial Calibration Blank (ug/L)				Continuing Calibration Blank (ug/L)				Preparation Blank (UG/L)			
			C	1	C	2	C	3	C	Mass		C	Batch Number
Antimony	121	0.35	U	0.35	U	0.35	U	0.35	U	121	0.450	U	172771063901A
Arsenic	75	0.60	U	0.60	U	0.60	U	0.60	U	75	0.720	U	172771063901A
Barium	137	0.43	U	0.43	U	0.43	U			137	0.720	U	172771063901A
Beryllium	9	0.054	U	0.054	U	0.054	U	0.054	U	9	0.071	U	172771063901A
Cadmium	111	0.15	U	0.15	U	0.15	U	0.15	U	111	0.150	U	172771063901A
Chromium	52	0.50	U	0.50	U	0.50	U	0.50	U	52	0.870	U	172771063901A
Cobalt	59	0.17	U	0.17	U	0.17	U	0.17	U	59	0.160	U	172771063901A
Copper	63	0.40	U	0.40	U	0.40	U	0.40	U	63	0.540	U	172771063901A
Lead	208	0.088	U	0.088	U	0.088	U	0.088	U	208	0.110	U	172771063901A
Manganese	55	0.90	U	0.90	U	0.90	U	0.90	U	55	0.900	U	172771063901A
Molybdenum	98	0.25	U	0.25	U	0.25	U	0.25	U	98	0.250	U	172771063901A
Nickel	60	0.61	U	0.61	U	0.61	U	0.61	U	60	1.000	U	172771063901A
Selenium	78	0.50	U	0.50	U	0.50	U	0.50	U	78	0.500	U	172771063901A
Silver	107	0.12	U	0.12	U	0.12	U	0.12	U	107	0.150	U	172771063901A
Thallium	203	0.12	U	0.12	U	0.12	U	0.12	U	203	0.120	U	172771063901A
Vanadium	51	0.17	U	0.17	U	0.17	U	0.17	U	51	0.210	U	172771063901A
Zinc	66	2.6	U	2.6	U	2.6	U	2.6	U	66	3.900	U	172771063901A

METHODS:  
P = ICP Atomic Emission Spectrometer  
MS = ICP Mass Spectrometry  
CV = Cold Vapor  
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:  
U= Below IDL/MDL  
B= Below LOQ



Method: MS  
Run Name: 1728207E05  
Calibration Date(s): 10/09/2017

Analyte	Mass	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank (UG/L)		
			C	1	C	2	C	3	C	Mass	C	Batch Number
Antimony	121			0.35	U							
Arsenic	75			0.60	U							
Barium												
Beryllium	9			0.054	U							
Cadmium	111			0.15	U							
Chromium	52			0.50	U							
Cobalt	59			0.17	U							
Copper	63			0.40	U							
Lead	208			0.088	U							
Manganese	55			0.90	U							
Molybdenum	98			0.25	U							
Nickel	60			0.61	U							
Selenium	78			0.50	U							
Silver	107			0.12	U							
Thallium	203			0.12	U							
Vanadium	51			0.17	U							
Zinc	66			2.6	U							

METHODS:

P = ICP Atomic Emission Spectrometer  
MS = ICP Mass Spectrometry  
CV = Cold Vapor  
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:

U= Below IDL/MDL  
B= Below LOQ



Method: MS  
Run Name: 1728504E05  
Calibration Date(s): 10/12/2017

Analyte	Mass	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank (UG/L)		
		C		1	C	2	C	3	C	Mass	C	Batch Number
Antimony												
Arsenic												
Barium	137	0.43	U	0.43	U	0.43	U	0.43	U			
Beryllium												
Cadmium	111	0.15	U	0.15	U	0.15	U					
Chromium												
Cobalt												
Copper												
Lead												
Manganese	55	0.90	U	0.90	U	0.90	U	0.90	U			
Molybdenum												
Nickel	60	0.61	U	0.61	U	0.61	U	0.61	U			
Selenium												
Silver												
Thallium												
Vanadium												
Zinc												

<p><b>METHODS:</b>  P = ICP Atomic Emission Spectrometer  MS = ICP Mass Spectrometry  CV = Cold Vapor  AF = Cold Vapor Atomic Fluorescence</p>	<p><b>CONCENTRATION QUALIFIERS:</b>  U= Below IDL/MDL  B= Below LOQ</p>
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Method: MS  
Run Name: 1728504E05  
Calibration Date(s): 10/12/2017

Analyte	Mass	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank (UG/L)		
		C		1	C	2	C	3	C	Mass	C	Batch Number
Antimony												
Arsenic												
Barium	137			0.43	U							
Beryllium												
Cadmium												
Chromium												
Cobalt												
Copper												
Lead												
Manganese												
Molybdenum												
Nickel	60			0.61	U							
Selenium												
Silver												
Thallium												
Vanadium												
Zinc												

<p><b>METHODS:</b></p> <ul style="list-style-type: none"> <li>P = ICP Atomic Emission Spectrometer</li> <li>MS = ICP Mass Spectrometry</li> <li>CV = Cold Vapor</li> <li>AF = Cold Vapor Atomic Fluorescence</li> </ul>	<p><b>CONCENTRATION QUALIFIERS:</b></p> <ul style="list-style-type: none"> <li>U= Below IDL/MDL</li> <li>B= Below LOQ</li> </ul>
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Instrument ID: 19204  
Run Name: 1728207E05  
Concentration Units: ug/L

Analyte	Mass	True		Found			
		Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	27	100000	100000	105749	105.7	108600.4	108.6
Antimony	121	0	0	1		1.1	
Arsenic	75	0	100	0		109.1	109.1
Barium	137	0	0	2		2.0	
Beryllium	9	0	0	0		0.0	
Cadmium	111	0	100	0		101.1	101.1
Calcium	44	300000	300000	302497	100.8	309883.4	103.3
Carbon	13	20000	20000	NA		NA	
Chloride	37	100000	100000	NA		NA	
Chromium	52	0	200	2		216.2	108.1
Cobalt	59	0	205	1		207.8	101.4
Copper	63	0	200	1		206.6	103.3
Iron	57	250000	250000	236237	94.5	239360.5	95.7
Lead	208	0	0	0		0.2	
Magnesium	24	100000	100000	99270	99.3	100733.1	100.7
Manganese	55	0	200	4		222.8	111.4
Molybdenum	98	2000	2000	2062	103.1	2170.3	108.5
Nickel	60	0	200	1		211.5	105.8
Phosphorus	31	10000	10000	NA		NA	
Potassium	39	100000	100000	106561	106.6	105612.4	105.6
Selenium	78	0	100	0		97.4	97.4
Silver	107	0	50	0		53.6	107.2
Sodium	23	250000	250000	251678	100.7	256452.7	102.6
Sulfur	34	10000	10000	NA		NA	
Thallium	203	0	0	0		0.1	
Titanium	47	2000	2000	2105	105.3	2137.7	106.9
Vanadium	51	0	200	0		224.6	112.3
Zinc	66	0	100	2		102.4	102.4

Control Limits: All Metals 80%-120%

Instrument ID: 19204  
 Run Name: 1728504E05  
 Concentration Units: ug/L

Analyte	Mass	True		Found			
		Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	27	100000	100000	102246	102.2	101869.2	101.9
Antimony							
Arsenic							
Barium	137	0	0	1		1.0	
Beryllium							
Cadmium	111	0	100	0		95.5	95.5
Calcium	44	300000	300000	287377	95.8	287052.8	95.7
Carbon	13	20000	20000	NA		NA	
Chloride	37	100000	100000	NA		NA	
Chromium							
Cobalt							
Copper							
Iron	57	250000	250000	238925	95.6	235969.4	94.4
Lead							
Magnesium	24	100000	100000	100189	100.2	99625.8	99.6
Manganese	55	0	200	3		203.8	101.9
Molybdenum	98	2000	2000	2002	100.1	2053.8	102.7
Nickel	60	0	200	1		197.2	98.6
Phosphorus	31	10000	10000	NA		NA	
Potassium	39	100000	100000	102101	102.1	101400.2	101.4
Selenium							
Silver							
Sodium	23	250000	250000	251979	100.8	250859.2	100.3
Sulfur	34	10000	10000	NA		NA	
Thallium							
Titanium	47	2000	2000	2053	102.7	2015.8	100.8
Vanadium							
Zinc							

Control Limits: All Metals 80%-120%



Method: MS  
Batch Number: 172771063901

Lab Sample ID	Date	Initial Volume(ml)	Final Volume(ml)
9240365	10/05/2017	50.00	50
9240366	10/05/2017	50.00	50
9240367	10/05/2017	50.00	50
9240368	10/05/2017	50.00	50
9240369	10/05/2017	50.00	50
9240370	10/05/2017	50.00	50
*40335BKG	10/05/2017	50.00	50
P27763AB	10/05/2017	50.00	50
P27763AQ	10/05/2017	1.00	1

**METHODS:**

P = ICP Atomic Emission Spectrometer  
MS = ICP Mass Spectrometry  
CV = Cold Vapor  
AF = Cold Vapor Atomic Fluorescence

**LEGEND:**

BKG = Background  
DUP = Duplicate  
MS = Matrix Spike  
MSD = Matrix Spike Duplicate  
B = Blank  
Q = Laboratory Control Sample  
Y = Laboratory Control Sample Duplicate



Analyte	Mass	Batch Number	Units	True	Found	C	Control Limits (%)	%R	M	In Spec
Antimony	121	172771063901	UG/L	6.000	6.104		85 - 117	102	MS	Yes
Arsenic	75	172771063901	UG/L	10.000	9.387		84 - 116	94	MS	Yes
Barium	137	172771063901	UG/L	50.000	52.047		86 - 114	104	MS	Yes
Beryllium	9	172771063901	UG/L	4.000	4.191		83 - 121	105	MS	Yes
Cadmium	111	172771063901	UG/L	5.000	5.028		87 - 115	101	MS	Yes
Chromium	52	172771063901	UG/L	50.000	49.752		85 - 116	100	MS	Yes
Cobalt	59	172771063901	UG/L	250.000	257.194		86 - 115	103	MS	Yes
Copper	63	172771063901	UG/L	50.000	51.505		85 - 118	103	MS	Yes
Lead	208	172771063901	UG/L	15.000	15.836		88 - 115	106	MS	Yes
Manganese	55	172771063901	UG/L	50.000	51.457		87 - 115	103	MS	Yes
Molybdenum	98	172771063901	UG/L	50.000	51.309		83 - 115	103	MS	Yes
Nickel	60	172771063901	UG/L	50.000	52.996		85 - 117	106	MS	Yes
Selenium	78	172771063901	UG/L	10.000	10.415		80 - 120	104	MS	Yes
Silver	107	172771063901	UG/L	50.000	52.686		85 - 116	105	MS	Yes
Thallium	203	172771063901	UG/L	2.000	2.150		82 - 116	108	MS	Yes
Vanadium	51	172771063901	UG/L	50.000	51.042		86 - 115	102	MS	Yes
Zinc	66	172771063901	UG/L	500.000	530.839		83 - 119	106	MS	Yes

METHODS:

P = ICP Atomic Emission Spectrometer  
MS = ICP Mass Spectrometry  
CV = Cold Vapor  
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:

U= Below MDL  
B= Below LOQ



QUALITY ASSURANCE SUMMARY

FORM 9

SERIAL DILUTIONS

SDG No.: SAI26

Matrix: WATER

Level (low/med): LOW

Background Lab Sample ID: \*40335BKG

Serial Dilution Lab Sample ID: \*40335L

Batch Number(s): 172771063901

Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Antimony	121	0.4510	U	2.2550	U			MS
Arsenic	75	6.9600		6.6200	B	5		MS
Barium	137	82.6290		75.5600		9		MS
Beryllium	9	0.0713	U	0.3565	U			MS
Cadmium	111	0.1520	U	0.7600	U			MS
Chromium	52	2.4170	B	4.3500	U	100		MS
Cobalt	59	38.1710		38.0550		0		MS
Copper	63	0.5360	U	2.6800	U			MS
Lead	208	0.1110	U	0.5550	U			MS
Manganese	55	2449.3220		2457.7800		0		MS
Molybdenum	98	0.7960	B	1.2500	U	100		MS
Nickel	60	14.3850		14.5900	B	1		MS
Selenium	78	0.5000	U	2.5000	U			MS
Silver	107	0.1460	U	0.7300	U			MS
Thallium	203	0.1170	U	0.5850	U			MS
Vanadium	51	0.2130	U	1.0650	U			MS
Zinc	66	10.4820	B	19.6000	U	100		MS

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:

P = ICP Atomic Emission Spectrometer  
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:

U= Below MDL  
B= Below LOQ

FLAGS:

E = Matrix Effects exist as proven by  
Serial Dilution or Spiked Dilution

Sample ID	Due Date	P	EPA#	SDG#	Initial Volume	Final Volume	Trial
PBW					50.0000	50.0000	1
LCSW					1.0000	1.0000	1
<b>9240335U</b>	10/12/17	N8	26601	SAI20-01BKG	50.0000	50.0000	1
<b>9240336R</b>	10/12/17	N8	26601	SAI20-01MS	50.0000	50.0000	1
<b>9240337M</b>	10/12/17	N8	26601	SAI20-01MSD	50.0000	50.0000	1
<b>9240338D</b>	10/12/17	N8	26601	SAI20-01DUP	50.0000	50.0000	1
9240339	10/12/17	N8	26602	SAI20-01	50.0000	50.0000	1
9240350	10/12/17	N8	16301	SAI22-01	50.0000	50.0000	1
9240351	10/12/17	N8	16302	SAI22-02	50.0000	50.0000	1
9240352	10/12/17	N8	16303	SAI22-03	50.0000	50.0000	1
9240353	10/12/17	N8	16304	SAI22-04	50.0000	50.0000	1
9240354	10/12/17	N8	16305	SAI22-05	50.0000	50.0000	1
9240355	10/12/17	N8	16306	SAI22-06	50.0000	50.0000	1
9240356	10/12/17	N8	16307	SAI22-07*	50.0000	50.0000	1
9240357	10/12/17	N8	85301	SAI23-01*	50.0000	50.0000	1
9240361	10/12/17	N8	62701	SAI25-01	50.0000	50.0000	1
9240362	10/12/17	N8	62702	SAI25-02	50.0000	50.0000	1
9240363	10/12/17	N8	62703	SAI25-03*	50.0000	50.0000	1
9240365	10/12/17	N8	67801	SAI26-01	50.0000	50.0000	1
9240366	10/12/17	N8	67802	SAI26-02	50.0000	50.0000	1
9240367	10/12/17	N8	67803	SAI26-03	50.0000	50.0000	1
9240368	10/12/17	N8	67804	SAI26-04	50.0000	50.0000	1
9240369	10/12/17	N8	67805	SAI26-05	50.0000	50.0000	1
9240370	10/12/17	N8	67806	SAI26-06*	50.0000	50.0000	1

DODCMD_ID	INSTALLATION_ID	SDG	SITE_NAME	NORM_SITE_NAME	LOCATION_NAME	LOCATION_TYPE_DESC	COORD_X	COORD_Y	CONTRACT_ID	DO_CTO_NUMBER	CONTR_NAME	SAMPLE_NAME	SAMPLE_MATRIX_DESC	SAMPLE_TYPE_DESC	COLLECT_DATE	ANALYTICAL_METHOD	ANALYTICAL_METHOD_GRP_DESC
MID_ATLANTIC	NEWPORT_NS	SC38678	SITE 00007	SITE 00007	TF1-EBP-MW1000	Monitoring well	388429.3345	183798.2617	N6247016D9008	WE15	TETRA TECH, INC.	TF1-EBP-MW1000-082917	Ground water	Normal (Regular)	29-Aug-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC38678	SITE 00007	SITE 00007	TF1-GT-109	Monitoring well	387812.95	183658.64	N6247016D9008	WE15	TETRA TECH, INC.	TF1-GT-109-082917	Ground water	Normal (Regular)	29-Aug-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC38678	SITE 00007	SITE 00007	TF1-MW-1006	Monitoring well	389105.7	184381.82	N6247016D9008	WE15	TETRA TECH, INC.	TF1-MW1006-082917	Ground water	Normal (Regular)	29-Aug-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC38678	SITE 00007	SITE 00007	TF1-MW-1002	Monitoring well	387622.63	183806.89	N6247016D9008	WE15	TETRA TECH, INC.	TF1-MW1002-082917	Ground water	Normal (Regular)	29-Aug-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC38678	SITE 00007	SITE 00007	TF1-EBP-MW1001	Monitoring well	388550.7222	183688.1558	N6247016D9008	WE15	TETRA TECH, INC.	TF1-EBP-MW1001-082917	Ground water	Normal (Regular)	29-Aug-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC38678							N6247016D9008	WE15	TETRA TECH, INC.	TF1-FRB-082917	Water for QC samples	Field Reagent Blank	29-Aug-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC38678	SITE 00007	SITE 00007	TF1-MW-1002	Monitoring well	387622.63	183806.89	N6247016D9008	WE15	TETRA TECH, INC.	TF1-MW1002-082917-D	Ground water	Field duplicate	29-Aug-17	537	Perfluoroalkyl Compounds