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Naval Facilities Engineering Command

Groundwater Sample Results, Electronic Data Deliverable, Data Validation Report, and the Sample Location Report, SDG SC39163

Naval Station Newport
Newport, Rhode Island

August 2019

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

"1715726-BLK1","EPA 300.0","RES","1715726-BLK1","ESAI","14797-55-8","Nitrate as N","0.100","mg/l","U","0.007","MDL",,"TARGET",,,"0.100","RDL","YES","-99",,"5","5","0.100",
"1715726-BLK1","EPA 300.0","RES","1715726-BLK1","ESAI","14808-79-8","Sulfate as SO4","1.00","mg/l","U","0.798","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"5","5","1.00",
"1715726-BLK1","EPA 300.0","RES","1715726-BLK1","ESAI","16887-00-6","Chloride","0.100","mg/l","U","0.0994","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"5","5","0.100",
"1715726-BS1","EPA 300.0","RES","1715726-BS1","ESAI","14797-55-8","Nitrate as N","1.96","mg/l",,"0.007","MDL",,"TARGET","98",,"0.100","RDL","YES","2.00",,"5","5","0.100",
"1715726-BS1","EPA 300.0","RES","1715726-BS1","ESAI","14808-79-8","Sulfate as SO4","19.9","mg/l",,"0.798","MDL",,"TARGET","99",,"1.00","RDL","YES","20.0",,"5","5","1.00",
"1715726-BS1","EPA 300.0","RES","1715726-BS1","ESAI","16887-00-6","Chloride","19.9","mg/l",,"0.0994","MDL",,"TARGET","100",,"1.00","RDL","YES","20.0",,"5","5","0.100",
"1715726-SRM1","EPA 300.0","RES","1715726-SRM1","ESAI","14797-55-8","Nitrate as N","2.38","mg/l",,"0.007","MDL",,"TARGET","95",,"0.100","RDL","YES","2.50",,"5","5","0.100",
"1715726-SRM1","EPA 300.0","RES","1715726-SRM1","ESAI","14808-79-8","Sulfate as SO4","25.1","mg/l",,"0.798","MDL",,"TARGET","100",,"1.00","RDL","YES","25.0",,"5","5","1.00",
"1715726-SRM1","EPA 300.0","RES","1715726-SRM1","ESAI","16887-00-6","Chloride","24.8","mg/l",,"0.0994","MDL",,"TARGET","99",,"1.00","RDL","YES","25.0",,"5","5","0.100",
"1715818-BLK1","SM18-22 5210B","RES","1715818-BLK1","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",
"1715818-BLK2","SM18-22 5210B","RES","1715818-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",
"1715818-BS1","SM18-22 5210B","RES","1715818-BS1","ESAI","NA","Biochemical Oxygen Demand (5-day)","155","mg/l","QM9","2.74","MDL",,"TARGET","78",,"100","RDL","YES","198",,"300","300","2.97",
"1715818-SRM1","SM18-22 5210B","RES","1715818-SRM1","ESAI","NA","Biochemical Oxygen Demand (5-day)","42.0","mg/l",,"2.74","MDL",,"TARGET","92",,"20.0","RDL","YES","45.6",,"300","300","2.97",
"1715818-SRM2","SM18-22 5210B","RES","1715818-SRM2","ESAI","NA","Biochemical Oxygen Demand (5-day)","41.0","mg/l",,"2.74","MDL",,"TARGET","90",,"20.0","RDL","YES","45.6",,"300","300","2.97",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","100-41-4","Ethylbenzene","0.5","﾿g/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","100-42-5","Styrene","1.0","﾿g/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-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",
"1715853-BLK1","SW846 8260C","RES","1715853-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",
"1715853-BLK1","SW846 8260C","RES","1715853-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",
"1715853-BLK1","SW846 8260C","RES","1715853-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",
"1715853-BLK1","SW846 8260C","RES","1715853-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",
"1715853-BLK1","SW846 8260C","RES","1715853-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",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","108-87-2","Methylcyclohexane","2.0","﾿g/l","U","0.7","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","108-88-3","Toluene","1.0","﾿g/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","108-90-7","Chlorobenzene","0.5","﾿g/l","U","0.2","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","110-82-7","Cyclohexane","2.0","﾿g/l","U","0.8","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"1715853-BLK1","SW846 8260C","RES","1715853-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",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","124-48-1","Dibromochloromethane","0.5","﾿g/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",

"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","127-18-
4","Tetrachloroethene","1.0","µg/l","U","0.6","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","156-59-2","cis-1,2-
Dichloroethene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","156-60-5","trans-1,2-
Dichloroethene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","1634-04-4","Methyl tert-butyl
ether","0.5","µg/l","U","0.2","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","17060-07-0","1,2-Dichloroethane-
d4","50.7","µg/l",,"-99","NA",,"SUR","101",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","179601-23-1","m,p-
Xylene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","1868-53-
7","Dibromofluoromethane","49.6","µg/l",,"-99","NA",,"SUR","99",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","2037-26-5","Toluene-
d8","49.3","µg/l",,"-99","NA",,"SUR","99",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","3114-55-4","Chlorobenzene-
d5","50.0","µg/l",,"-99","NA",,"ISTD","100",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","3855-82-1","1,4-Dichlorobenzene-
d4","50.0","µg/l",,"-99","NA",,"ISTD","99",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","460-00-4","4-
Bromofluorobenzene","48.9","µg/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","462-06-
6","Fluorobenzene","50.0","µg/l",,"-99","NA",,"ISTD","105",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","541-73-1","1,3-
Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","56-23-5","Carbon
tetrachloride","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","591-78-6","2-Hexanone
(MBK)","2.0","µg/l","U","0.5","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","67-64-
1","Acetone","2.0","µg/l","U","0.8","MDL",,"TARGET",,,"10.0","RDL","YES","-99",,"5","5","2.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","67-66-
3","Chloroform","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","71-43-
2","Benzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","71-55-6","1,1,1-
Trichloroethane","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","74-83-
9","Bromomethane","2.0","µg/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","74-87-
3","Chloromethane","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","74-97-
5","Bromochloromethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","75-00-
3","Chloroethane","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","75-01-4","Vinyl
chloride","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","75-09-2","Methylene
chloride","2.0","µg/l","U","0.7","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","75-15-0","Carbon
disulfide","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","75-25-
2","Bromoform","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","75-27-
4","Bromodichloromethane","0.5","µg/l","U","0.4","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","75-34-3","1,1-

Dichloroethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","75-35-4","1,1-
Dichloroethene","1.0","µg/l","U","0.7","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","75-69-4","Trichlorofluoromethane (Freon
11)","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","75-71-8","Dichlorodifluoromethane
(Freon12)","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane
(Freon 113)","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","78-87-5","1,2-
Dichloropropane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","78-93-3","2-Butanone
(MEK)","2.0","µg/l","U","1.1","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","79-00-5","1,1,2-
Trichloroethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","79-01-
6","Trichloroethene","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","79-20-9","Methyl
acetate","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","79-34-5","1,1,2,2-
Tetrachloroethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","87-61-6","1,2,3-
Trichlorobenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","95-47-6","o-
Xylene","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","95-50-1","1,2-
Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","96-12-8","1,2-Dibromo-3-
chloropropane","2.0","µg/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"1715853-BLK1","SW846 8260C","RES","1715853-BLK1","ESAI","98-82-
8","Isopropylbenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","100-41-
4","Ethylbenzene","21.5","µg/l",,"-99","NA",,"TARGET","108",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","100-42-
5","Styrene","21.8","µg/l",,"-99","NA",,"TARGET","109",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","10061-01-5","cis-1,3-
Dichloropropene","18.9","µg/l",,"-99","NA",,"TARGET","94",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","10061-02-6","trans-1,3-
Dichloropropene","19.0","µg/l",,"-99","NA",,"TARGET","95",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","106-46-7","1,4-
Dichlorobenzene","21.0","µg/l",,"-99","NA",,"TARGET","105",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","106-93-4","1,2-Dibromoethane
(EDB)","19.8","µg/l",,"-99","NA",,"TARGET","99",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","107-06-2","1,2-
Dichloroethane","19.8","µg/l",,"-99","NA",,"TARGET","99",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","108-10-1","4-Methyl-2-pentanone
(MIBK)","17.6","µg/l",,"-99","NA",,"TARGET","88",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","108-87-
2","Methylcyclohexane","20.6","µg/l",,"-99","NA",,"TARGET","103",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","108-88-
3","Toluene","20.8","µg/l",,"-99","NA",,"TARGET","104",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","108-90-
7","Chlorobenzene","20.9","µg/l",,"-99","NA",,"TARGET","104",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","110-82-
7","Cyclohexane","21.3","µg/l",,"-99","NA",,"TARGET","107",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","120-82-1","1,2,4-
Trichlorobenzene","18.8","µg/l",,"-99","NA",,"TARGET","94",,"-99","NA","YES","20.0",,"5","5","-99",

"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","124-48-1","Dibromochloromethane","20.0","g/l",,"-99","NA",,"TARGET","100",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","127-18-4","Tetrachloroethene","19.7","g/l",,"-99","NA",,"TARGET","98",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","156-59-2","cis-1,2-Dichloroethene","21.0","g/l",,"-99","NA",,"TARGET","105",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","156-60-5","trans-1,2-Dichloroethene","20.5","g/l",,"-99","NA",,"TARGET","102",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","1634-04-4","Methyl tert-butyl ether","19.8","g/l",,"-99","NA",,"TARGET","99",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","17060-07-0","1,2-Dichloroethane-d4","49.3","g/l",,"-99","NA",,"SUR","99",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","179601-23-1","m,p-Xylene","21.9","g/l",,"-99","NA",,"TARGET","110",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","1868-53-7","Dibromofluoromethane","49.4","g/l",,"-99","NA",,"SUR","99",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","2037-26-5","Toluene-d8","49.0","g/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","3114-55-4","Chlorobenzene-d5","50.0","g/l",,"-99","NA",,"ISTD","96",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","g/l",,"-99","NA",,"ISTD","94",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","460-00-4","4-Bromofluorobenzene","49.0","g/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","462-06-6","Fluorobenzene","50.0","g/l",,"-99","NA",,"ISTD","99",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","541-73-1","1,3-Dichlorobenzene","21.7","g/l",,"-99","NA",,"TARGET","108",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","56-23-5","Carbon tetrachloride","19.4","g/l",,"-99","NA",,"TARGET","97",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","591-78-6","2-Hexanone (MBK)","17.2","g/l",,"-99","NA",,"TARGET","86",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","67-64-1","Acetone","17.0","g/l",,"-99","NA",,"TARGET","85",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","67-66-3","Chloroform","20.7","g/l",,"-99","NA",,"TARGET","104",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","71-43-2","Benzene","20.8","g/l",,"-99","NA",,"TARGET","104",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","71-55-6","1,1,1-Trichloroethane","21.2","g/l",,"-99","NA",,"TARGET","106",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","74-83-9","Bromomethane","16.7","g/l",,"-99","NA",,"TARGET","83",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","74-87-3","Chloromethane","24.0","g/l",,"-99","NA",,"TARGET","120",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","74-97-5","Bromochloromethane","19.9","g/l",,"-99","NA",,"TARGET","99",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","75-00-3","Chloroethane","19.1","g/l",,"-99","NA",,"TARGET","95",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","75-01-4","Vinyl chloride","22.0","g/l",,"-99","NA",,"TARGET","110",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","75-09-2","Methylene chloride","18.8","g/l",,"-99","NA",,"TARGET","94",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","75-15-0","Carbon disulfide","19.5","g/l",,"-99","NA",,"TARGET","97",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","75-25-2","Bromoform","20.0","g/l",,"-99","NA",,"TARGET","100",,"-99","NA","YES","20.0",,"5","5","-99",

"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","75-27-
4","Bromodichloromethane","22.2","g/l",,"-99","NA",,"TARGET","111",,"-99","NA","YES","20.0",,"5","5","-9
9",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","75-34-3","1,1-
Dichloroethane","21.6","g/l",,"-99","NA",,"TARGET","108",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","75-35-4","1,1-
Dichloroethene","17.8","g/l",,"-99","NA",,"TARGET","89",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","75-69-4","Trichlorofluoromethane (Freon
11)","19.0","g/l",,"-99","NA",,"TARGET","95",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","75-71-8","Dichlorodifluoromethane
(Freon12)","20.1","g/l",,"-99","NA",,"TARGET","101",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane
(Freon 113)","18.2","g/l",,"-99","NA",,"TARGET","91",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","78-87-5","1,2-
Dichloropropane","20.8","g/l",,"-99","NA",,"TARGET","104",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","78-93-3","2-Butanone
(MEK)","21.2","g/l",,"-99","NA",,"TARGET","106",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","79-00-5","1,1,2-
Trichloroethane","20.1","g/l",,"-99","NA",,"TARGET","100",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","79-01-
6","Trichloroethene","20.7","g/l",,"-99","NA",,"TARGET","104",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","79-20-9","Methyl
acetate","14.7","g/l",,"-99","NA",,"TARGET","74",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","79-34-5","1,1,2,2-
Tetrachloroethane","20.3","g/l",,"-99","NA",,"TARGET","101",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","87-61-6","1,2,3-
Trichlorobenzene","18.8","g/l",,"-99","NA",,"TARGET","94",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","95-47-6","o-
Xylene","22.2","g/l",,"-99","NA",,"TARGET","111",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","95-50-1","1,2-
Dichlorobenzene","20.9","g/l",,"-99","NA",,"TARGET","105",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","96-12-8","1,2-Dibromo-3-
chloropropane","19.2","g/l",,"-99","NA",,"TARGET","96",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BS1","SW846 8260C","RES","1715853-BS1","ESAI","98-82-
8","Isopropylbenzene","20.8","g/l",,"-99","NA",,"TARGET","104",,"-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","100-41-
4","Ethylbenzene","19.8","g/l",,"-99","NA",,"TARGET","99","8","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","100-42-
5","Styrene","19.6","g/l",,"-99","NA",,"TARGET","98","11","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","10061-01-5","cis-1,3-
Dichloropropene","17.8","g/l",,"-99","NA",,"TARGET","89","6","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","10061-02-6","trans-1,3-
Dichloropropene","17.8","g/l",,"-99","NA",,"TARGET","89","7","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","106-46-7","1,4-
Dichlorobenzene","19.4","g/l",,"-99","NA",,"TARGET","97","8","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","106-93-4","1,2-Dibromoethane
(EDB)","19.0","g/l",,"-99","NA",,"TARGET","95","4","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","107-06-2","1,2-
Dichloroethane","18.2","g/l",,"-99","NA",,"TARGET","91","9","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","108-10-1","4-Methyl-2-pentanone
(MIBK)","16.0","g/l",,"-99","NA",,"TARGET","80","10","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","108-87-
2","Methylcyclohexane","18.8","g/l",,"-99","NA",,"TARGET","94","9","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","108-88-
3","Toluene","18.5","g/l",,"-99","NA",,"TARGET","92","12","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","108-90-
7","Chlorobenzene","19.5","g/l",,"-99","NA",,"TARGET","98","7","-99","NA","YES","20.0",,"5","5","-99",

"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","110-82-
7","Cyclohexane","18.3","µg/l",,"-99","NA",,"TARGET","91","16","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","120-82-1","1,2,4-
Trichlorobenzene","18.3","µg/l",,"-99","NA",,"TARGET","91","3","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","124-48-
1","Dibromochloromethane","17.9","µg/l",,"-99","NA",,"TARGET","90","11","-99","NA","YES","20.0",,"5","5",
"-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","127-18-
4","Tetrachloroethene","18.2","µg/l",,"-99","NA",,"TARGET","91","8","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","156-59-2","cis-1,2-
Dichloroethene","17.9","µg/l",,"-99","NA",,"TARGET","90","16","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","156-60-5","trans-1,2-
Dichloroethene","17.5","µg/l",,"-99","NA",,"TARGET","88","16","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","1634-04-4","Methyl tert-butyl
ether","18.4","µg/l",,"-99","NA",,"TARGET","92","7","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","17060-07-0","1,2-Dichloroethane-
d4","48.2","µg/l",,"-99","NA",,"SUR","96",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","179601-23-1","m,p-
Xylene","20.1","µg/l",,"-99","NA",,"TARGET","101","8","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","1868-53-
7","Dibromofluoromethane","48.4","µg/l",,"-99","NA",,"SUR","97",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","2037-26-5","Toluene-
d8","48.8","µg/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","3114-55-4","Chlorobenzene-
d5","50.0","µg/l",,"-99","NA",,"ISTD","102",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","3855-82-1","1,4-Dichlorobenzene-
d4","50.0","µg/l",,"-99","NA",,"ISTD","101",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","460-00-4","4-
Bromofluorobenzene","49.3","µg/l",,"-99","NA",,"SUR","99",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","462-06-
6","Fluorobenzene","50.0","µg/l",,"-99","NA",,"ISTD","107",,"-99","NA","YES","50.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","541-73-1","1,3-
Dichlorobenzene","20.2","µg/l",,"-99","NA",,"TARGET","101","7","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","56-23-5","Carbon
tetrachloride","17.0","µg/l",,"-99","NA",,"TARGET","85","13","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","591-78-6","2-Hexanone
(MBK)","17.3","µg/l",,"-99","NA",,"TARGET","86","0.1","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","67-64-
1","Acetone","15.1","µg/l",,"-99","NA",,"TARGET","76","12","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","67-66-
3","Chloroform","18.5","µg/l",,"-99","NA",,"TARGET","92","12","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","71-43-
2","Benzene","19.2","µg/l",,"-99","NA",,"TARGET","96","8","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","71-55-6","1,1,1-
Trichloroethane","18.1","µg/l",,"-99","NA",,"TARGET","91","16","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","74-83-
9","Bromomethane","15.4","µg/l",,"-99","NA",,"TARGET","77","8","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","74-87-
3","Chloromethane","22.8","µg/l",,"-99","NA",,"TARGET","114","5","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","74-97-
5","Bromochloromethane","18.7","µg/l",,"-99","NA",,"TARGET","94","6","-99","NA","YES","20.0",,"5","5","-9
9",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","75-00-
3","Chloroethane","16.6","µg/l",,"-99","NA",,"TARGET","83","14","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","75-01-4","Vinyl
chloride","20.2","µg/l",,"-99","NA",,"TARGET","101","9","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","75-09-2","Methylene

chloride","15.9","g/l",,"-99","NA",,"TARGET","79","17","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","75-15-0","Carbon
disulfide","16.3","g/l",,"-99","NA",,"TARGET","81","18","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","75-25-
2","Bromoform","19.2","g/l",,"-99","NA",,"TARGET","96","4","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","75-27-
4","Bromodichloromethane","19.4","g/l",,"-99","NA",,"TARGET","97","14","-99","NA","YES","20.0",,"5","5","
-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","75-34-3","1,1-
Dichloroethane","19.5","g/l",,"-99","NA",,"TARGET","97","10","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","75-35-4","1,1-
Dichloroethene","15.7","g/l",,"-99","NA",,"TARGET","79","12","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","75-69-4","Trichlorofluoromethane (Freon
11)","16.4","g/l",,"-99","NA",,"TARGET","82","14","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","75-71-8","Dichlorodifluoromethane
(Freon12)","18.5","g/l",,"-99","NA",,"TARGET","93","8","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane
(Freon 113)","16.6","g/l",,"-99","NA",,"TARGET","83","9","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","78-87-5","1,2-
Dichloropropane","18.7","g/l",,"-99","NA",,"TARGET","93","11","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","78-93-3","2-Butanone
(MEK)","20.9","g/l",,"-99","NA",,"TARGET","104","2","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","79-00-5","1,1,2-
Trichloroethane","18.6","g/l",,"-99","NA",,"TARGET","93","7","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","79-01-
6","Trichloroethene","18.2","g/l",,"-99","NA",,"TARGET","91","13","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","79-20-9","Methyl
acetate","14.5","g/l",,"-99","NA",,"TARGET","73","1","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","79-34-5","1,1,2,2-
Tetrachloroethane","19.1","g/l",,"-99","NA",,"TARGET","96","6","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","87-61-6","1,2,3-
Trichlorobenzene","19.1","g/l",,"-99","NA",,"TARGET","95","2","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","95-47-6","o-
Xylene","20.2","g/l",,"-99","NA",,"TARGET","101","9","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","95-50-1","1,2-
Dichlorobenzene","20.1","g/l",,"-99","NA",,"TARGET","100","4","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","96-12-8","1,2-Dibromo-3-
chloropropane","16.8","g/l",,"-99","NA",,"TARGET","84","13","-99","NA","YES","20.0",,"5","5","-99",
"1715853-BSD1","SW846 8260C","RES","1715853-BSD1","ESAI","98-82-
8","Isopropylbenzene","19.4","g/l",,"-99","NA",,"TARGET","97","7","-99","NA","YES","20.0",,"5","5","-99",
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","1146-65-2","Naphthalene-
d8","40.0","g/ml",,"-99","NA",,"ISTD","118",,"-99","NA","YES","40.0",,"980","1","-99",
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","120-12-
7","Anthracene","1.02","g/l","U","0.620","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","129-00-
0","Pyrene","1.02","g/l","U","0.622","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","15067-26-2","Acenaphthene-
d10","40.0","g/ml",,"-99","NA",,"ISTD","116",,"-99","NA","YES","40.0",,"980","1","-99",
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","1517-22-2","Phenanthrene-
d10","40.0","g/ml",,"-99","NA",,"ISTD","115",,"-99","NA","YES","40.0",,"980","1","-99",
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","1520-96-3","Perylene-
d12","40.0","g/ml",,"-99","NA",,"ISTD","115",,"-99","NA","YES","40.0",,"980","1","-99",
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","1718-51-0","Terphenyl-
dl4","39.9","g/l",,"-99","NA",,"SUR","78",,"-99","NA","YES","51.0",,"980","1","-99",
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","1719-03-5","Chrysene-
d12","40.0","g/ml",,"-99","NA",,"ISTD","118",,"-99","NA","YES","40.0",,"980","1","-99",
"1715919-BLK1","SW846 8270D","RES","1715919-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",
"1715919-BLK1","SW846 8270D","RES","1715919-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",
"1715919-BLK1","SW846 8270D","RES","1715919-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",
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","206-44-
0","Fluoranthene","1.02","◆g/l","U","0.651","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1715919-BLK1","SW846 8270D","RES","1715919-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",
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","208-96-
8","Acenaphthylene","1.02","◆g/l","U","0.697","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02
",
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","218-01-
9","Chrysene","1.02","◆g/l","U","0.543","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","321-60-8","2-
Fluorobiphenyl","33.2","◆g/l",,"-99","NA",,"SUR","65",,"-99","NA","YES","51.0",,"980","1","-99",
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","4165-60-0","Nitrobenzene-
d5","32.4","◆g/l",,"-99","NA",,"SUR","64",,"-99","NA","YES","51.0",,"980","1","-99",
"1715919-BLK1","SW846 8270D","RES","1715919-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",
"1715919-BLK1","SW846 8270D","RES","1715919-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",
"1715919-BLK1","SW846 8270D","RES","1715919-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",
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","83-32-
9","Acenaphthene","1.02","◆g/l","U","0.705","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","85-01-
8","Phenanthrene","1.02","◆g/l","U","0.598","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","86-73-
7","Fluorene","1.02","◆g/l","U","0.624","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1715919-BLK1","SW846 8270D","RES","1715919-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"
,
"1715919-BLK1","SW846 8270D","RES","1715919-BLK1","ESAI","91-20-
3","Naphthalene","1.02","◆g/l","U","0.699","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1715919-BLK1","SW846 8270D","RES","1715919-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"
,
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","1146-65-2","Naphthalene-
d8","40.0","◆g/ml",,"-99","NA",,"ISTD","127",,"-99","NA","YES","40.0",,"990","1","-99",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","120-12-
7","Anthracene","34.8","◆g/l",,"0.614","MDL",,"TARGET","69",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","129-00-
0","Pyrene","33.5","◆g/l",,"0.616","MDL",,"TARGET","66",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","15067-26-2","Acenaphthene-
d10","40.0","◆g/ml",,"-99","NA",,"ISTD","127",,"-99","NA","YES","40.0",,"990","1","-99",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","1517-22-2","Phenanthrene-
d10","40.0","◆g/ml",,"-99","NA",,"ISTD","121",,"-99","NA","YES","40.0",,"990","1","-99",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","1520-96-3","Perylene-
d12","40.0","◆g/ml",,"-99","NA",,"ISTD","128",,"-99","NA","YES","40.0",,"990","1","-99",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","1718-51-0","Terphenyl-
dl4","37.8","◆g/l",,"-99","NA",,"SUR","75",,"-99","NA","YES","50.5",,"990","1","-99",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","1719-03-5","Chrysene-
d12","40.0","◆g/ml",,"-99","NA",,"ISTD","130",,"-99","NA","YES","40.0",,"990","1","-99",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","191-24-2","Benzo (g,h,i)
perylene","33.3","◆g/l",,"0.535","MDL",,"TARGET","66",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","193-39-5","Indeno (1,2,3-cd)

pyrene","36.0","µg/l",,"0.586","MDL",,"TARGET","71",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","205-99-2","Benzo (b)
fluoranthene","36.8","µg/l",,"0.441","MDL",,"TARGET","73",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","206-44-
0","Fluoranthene","35.9","µg/l",,"0.644","MDL",,"TARGET","71",,"5.05","RDL","YES","50.5",,"990","1","1.01"
,
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","207-08-9","Benzo (k)
fluoranthene","33.0","µg/l",,"0.485","MDL",,"TARGET","65",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","208-96-
8","Acenaphthylene","30.3","µg/l",,"0.690","MDL",,"TARGET","60",,"5.05","RDL","YES","50.5",,"990","1","1.
01",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","218-01-
9","Chrysene","33.5","µg/l",,"0.537","MDL",,"TARGET","66",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","321-60-8","2-
Fluorobiphenyl","32.0","µg/l",,"-99","NA",,"SUR","63",,"-99","NA","YES","50.5",,"990","1","-99",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","4165-60-0","Nitrobenzene-
d5","31.5","µg/l",,"-99","NA",,"SUR","62",,"-99","NA","YES","50.5",,"990","1","-99",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","50-32-8","Benzo (a)
pyrene","35.4","µg/l",,"0.568","MDL",,"TARGET","70",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","53-70-3","Dibenzo (a,h)
anthracene","36.9","µg/l",,"0.455","MDL",,"TARGET","73",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","56-55-3","Benzo (a)
anthracene","34.1","µg/l",,"0.541","MDL",,"TARGET","68",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","83-32-
9","Acenaphthene","30.6","µg/l",,"0.698","MDL",,"TARGET","61",,"5.05","RDL","YES","50.5",,"990","1","1.01
",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","85-01-
8","Phenanthrene","33.3","µg/l",,"0.592","MDL",,"TARGET","66",,"5.05","RDL","YES","50.5",,"990","1","1.01
",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","86-73-
7","Fluorene","31.5","µg/l",,"0.618","MDL",,"TARGET","62",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","90-12-0","1-
Methylnaphthalene","32.7","µg/l",,"0.740","MDL",,"TARGET","65",,"5.05","RDL","YES","50.5",,"990","1","1.0
1",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","91-20-
3","Naphthalene","28.8","µg/l",,"0.692","MDL",,"TARGET","57",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BS1","SW846 8270D","RES","1715919-BS1","ESAI","91-57-6","2-
Methylnaphthalene","36.4","µg/l",,"0.580","MDL",,"TARGET","72",,"5.05","RDL","YES","50.5",,"990","1","1.0
1",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","1146-65-2","Naphthalene-
d8","40.0","µg/ml",,"-99","NA",,"ISTD","118",,"-99","NA","YES","40.0",,"990","1","-99",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","120-12-
7","Anthracene","32.1","µg/l",,"0.614","MDL",,"TARGET","64","8","5.05","RDL","YES","50.5",,"990","1","1.01
",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","129-00-
0","Pyrene","31.4","µg/l",,"0.616","MDL",,"TARGET","62","6","5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","15067-26-2","Acenaphthene-
d10","40.0","µg/ml",,"-99","NA",,"ISTD","118",,"-99","NA","YES","40.0",,"990","1","-99",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","1517-22-2","Phenanthrene-
d10","40.0","µg/ml",,"-99","NA",,"ISTD","113",,"-99","NA","YES","40.0",,"990","1","-99",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","1520-96-3","Perylene-
d12","40.0","µg/ml",,"-99","NA",,"ISTD","119",,"-99","NA","YES","40.0",,"990","1","-99",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","1718-51-0","Terphenyl-
dl4","36.3","µg/l",,"-99","NA",,"SUR","72",,"-99","NA","YES","50.5",,"990","1","-99",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","1719-03-5","Chrysene-
d12","40.0","µg/ml",,"-99","NA",,"ISTD","121",,"-99","NA","YES","40.0",,"990","1","-99",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","191-24-2","Benzo (g,h,i)

perylene","30.9","g/l",,"0.535","MDL",,"TARGET","61","7","5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","193-39-5","Indeno (1,2,3-cd)
pyrene","33.0","g/l",,"0.586","MDL",,"TARGET","65","8","5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","205-99-2","Benzo (b)
fluoranthene","32.8","g/l",,"0.441","MDL",,"TARGET","65","11","5.05","RDL","YES","50.5",,"990","1","1.01"
,
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","206-44-
0","Fluoranthene","33.5","g/l",,"0.644","MDL",,"TARGET","66","7","5.05","RDL","YES","50.5",,"990","1","1.
01",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","207-08-9","Benzo (k)
fluoranthene","33.0","g/l",,"0.485","MDL",,"TARGET","65","0.2","5.05","RDL","YES","50.5",,"990","1","1.01
",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","208-96-
8","Acenaphthylene","28.7","g/l",,"0.690","MDL",,"TARGET","57","5","5.05","RDL","YES","50.5",,"990","1",
"1.01",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","218-01-
9","Chrysene","32.0","g/l",,"0.537","MDL",,"TARGET","63","5","5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","321-60-8","2-
Fluorobiphenyl","29.6","g/l",,"-99","NA",,"SUR","59",,"-99","NA","YES","50.5",,"990","1","-99",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","4165-60-0","Nitrobenzene-
d5","29.2","g/l",,"-99","NA",,"SUR","58",,"-99","NA","YES","50.5",,"990","1","-99",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","50-32-8","Benzo (a)
pyrene","33.9","g/l",,"0.568","MDL",,"TARGET","67","4","5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","53-70-3","Dibenzo (a,h)
anthracene","34.1","g/l",,"0.455","MDL",,"TARGET","67","8","5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","56-55-3","Benzo (a)
anthracene","32.3","g/l",,"0.541","MDL",,"TARGET","64","5","5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","83-32-
9","Acenaphthene","29.1","g/l",,"0.698","MDL",,"TARGET","58","5","5.05","RDL","YES","50.5",,"990","1","1
.01",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","85-01-
8","Phenanthrene","30.7","g/l",,"0.592","MDL",,"TARGET","61","8","5.05","RDL","YES","50.5",,"990","1","1
.01",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","86-73-
7","Fluorene","29.7","g/l",,"0.618","MDL",,"TARGET","59","6","5.05","RDL","YES","50.5",,"990","1","1.01",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","90-12-0","1-
Methylnaphthalene","30.4","g/l",,"0.740","MDL",,"TARGET","60","7","5.05","RDL","YES","50.5",,"990","1","
1.01",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","91-20-
3","Naphthalene","26.7","g/l",,"0.692","MDL",,"TARGET","53","7","5.05","RDL","YES","50.5",,"990","1","1.0
1",
"1715919-BSD1","SW846 8270D","RES","1715919-BSD1","ESAI","91-57-6","2-
Methylnaphthalene","33.3","g/l",,"0.580","MDL",,"TARGET","66","9","5.05","RDL","YES","50.5",,"990","1","
1.01",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","1024-57-3","Heptachlor
epoxide","0.021","g/l","U","0.016","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","1024-57-3","Heptachlor epoxide
[2C]","0.021","g/l","U","0.015","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","1031-07-8","Endosulfan
sulfate","0.021","g/l","U","0.020","MDL",,"TARGET",,,"0.041","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","1031-07-8","Endosulfan sulfate
[2C]","0.021","g/l","U","0.017","MDL",,"TARGET",,,"0.041","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl
(Sr)","0.218","g/l",,"-99","NA",,"SUR","106",,"-99","NA","YES","0.206",,"970","10","-99",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl
(Sr) [2C]","0.231","g/l",,"-99","NA",,"SUR","112",,"-99","NA","YES","0.206",,"970","10","-99",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","15972-60-

8","Alachlor","0.021","⊡g/l","U","0.019","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","15972-60-8","Alachlor
[2C]","0.021","⊡g/l","U","0.018","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","2051-24-3","Decachlorobiphenyl
(Sr)","0.205","⊡g/l",,"-99","NA",,"SUR","99",,"-99","NA","YES","0.206",,"970","10","-99",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","2051-24-3","Decachlorobiphenyl (Sr)
[2C]","0.168","⊡g/l",,"-99","NA",,"SUR","82",,"-99","NA","YES","0.206",,"970","10","-99",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","309-00-
2","Aldrin","0.021","⊡g/l","U","0.016","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","309-00-2","Aldrin
[2C]","0.021","⊡g/l","U","0.019","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","319-84-6","alpha-
BHC","0.021","⊡g/l","U","0.012","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","319-84-6","alpha-BHC
[2C]","0.021","⊡g/l","U","0.018","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","319-85-7","beta-
BHC","0.021","⊡g/l","U","0.015","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","319-85-7","beta-BHC
[2C]","0.021","⊡g/l","U","0.020","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","319-86-8","delta-
BHC","0.021","⊡g/l","U","0.016","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","319-86-8","delta-BHC
[2C]","0.021","⊡g/l","U","0.020","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","33213-65-9","Endosulfan
II","0.021","⊡g/l","U","0.021","MDL",,"TARGET",,,"0.041","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","33213-65-9","Endosulfan II
[2C]","0.021","⊡g/l","U","0.016","MDL",,"TARGET",,,"0.041","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","50-29-3","4,4'-DDT
(p,p')","0.031","⊡g/l","U","0.018","MDL",,"TARGET",,,"0.041","RDL","YES","-99",,"970","10","0.031",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","50-29-3","4,4'-DDT (p,p')
[2C]","0.031","⊡g/l","U","0.022","MDL",,"TARGET",,,"0.041","RDL","YES","-99",,"970","10","0.031",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","5103-71-9","alpha-
Chlordane","0.021","⊡g/l","U","0.016","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","5103-71-9","alpha-Chlordane
[2C]","0.021","⊡g/l","U","0.018","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","5103-74-2","Chlordane (gamma)
(trans)","0.021","⊡g/l","U","0.017","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","5103-74-2","Chlordane (gamma)(trans)
[2C]","0.021","⊡g/l","U","0.015","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","53494-70-5","Endrin
ketone","0.021","⊡g/l","U","0.018","MDL",,"TARGET",,,"0.041","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","53494-70-5","Endrin ketone
[2C]","0.021","⊡g/l","U","0.019","MDL",,"TARGET",,,"0.041","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","58-89-9","gamma-BHC
(Lindane)","0.021","⊡g/l","U","0.018","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","58-89-9","gamma-BHC (Lindane)
[2C]","0.021","⊡g/l","U","0.018","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","60-57-
1","Dieldrin","0.021","⊡g/l","U","0.018","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","60-57-1","Dieldrin
[2C]","0.021","⊡g/l","U","0.019","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","72-20-
8","Endrin","0.021","⊡g/l","U","0.020","MDL",,"TARGET",,,"0.041","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","72-20-8","Endrin
[2C]","0.021","⊡g/l","U","0.020","MDL",,"TARGET",,,"0.041","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","72-43-
5","Methoxychlor","0.021","⊡g/l","U","0.019","MDL",,"TARGET",,,"0.041","RDL","YES","-99",,"970","10","0.0

21",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","72-43-5","Methoxychlor
[2C]","0.021","g/l","U","0.019","MDL",,"TARGET",,,"0.041","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","72-54-8","4,4'-DDD
(p,p')","0.021","g/l","U","0.019","MDL",,"TARGET",,,"0.041","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","72-54-8","4,4'-DDD (p,p')
[2C]","0.021","g/l","U","0.018","MDL",,"TARGET",,,"0.041","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","72-55-9","4,4'-DDE
(p,p')","0.021","g/l","U","0.018","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","72-55-9","4,4'-DDE (p,p')
[2C]","0.021","g/l","U","0.018","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","7421-93-4","Endrin
aldehyde","0.021","g/l","U","0.020","MDL",,"TARGET",,,"0.041","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","7421-93-4","Endrin aldehyde
[2C]","0.021","g/l","U","0.018","MDL",,"TARGET",,,"0.041","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","76-44-
8","Heptachlor","0.021","g/l","U","0.020","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021
",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","76-44-8","Heptachlor
[2C]","0.021","g/l","U","0.020","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene
(IS)","0.020","g/ml",,"-99","NA",,"ISTD","81",,"-99","NA","YES","10.0",,"970","10","-99",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)
[2C]","0.020","g/ml",,"-99","NA",,"ISTD","88",,"-99","NA","YES","10.0",,"970","10","-99",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","959-98-8","Endosulfan
I","0.021","g/l","U","0.017","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BLK1","SW846 8081B","RES","1715920-BLK1","ESAI","959-98-8","Endosulfan I
[2C]","0.021","g/l","U","0.016","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"970","10","0.021",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","1024-57-3","Heptachlor
epoxide","0.402","g/l",,"0.016","MDL",,"TARGET","79",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","1024-57-3","Heptachlor epoxide
[2C]","0.403","g/l",,"0.015","MDL",,"TARGET","79",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","1031-07-8","Endosulfan
sulfate","0.418","g/l",,"0.020","MDL",,"TARGET","82",,"0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","1031-07-8","Endosulfan sulfate
[2C]","0.489","g/l",,"0.017","MDL",,"TARGET","96",,"0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl
(Sr)","0.197","g/l",,"-99","NA",,"SUR","97",,"-99","NA","YES","0.204",,"980","10","-99",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr)
[2C]","0.204","g/l",,"-99","NA",,"SUR","100",,"-99","NA","YES","0.204",,"980","10","-99",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","15972-60-
8","Alachlor","0.453","g/l",,"0.019","MDL",,"TARGET","89",,"0.020","RDL","YES","0.510",,"980","10","0.020
",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","15972-60-8","Alachlor
[2C]","0.453","g/l",,"0.018","MDL",,"TARGET","89",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","2051-24-3","Decachlorobiphenyl
(Sr)","0.183","g/l",,"-99","NA",,"SUR","90",,"-99","NA","YES","0.204",,"980","10","-99",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","2051-24-3","Decachlorobiphenyl (Sr)
[2C]","0.147","g/l",,"-99","NA",,"SUR","72",,"-99","NA","YES","0.204",,"980","10","-99",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","309-00-
2","Aldrin","0.402","g/l",,"0.016","MDL",,"TARGET","79",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","309-00-2","Aldrin
[2C]","0.393","g/l",,"0.019","MDL",,"TARGET","77",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","319-84-6","alpha-
BHC","0.403","g/l",,"0.012","MDL",,"TARGET","79",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","319-84-6","alpha-BHC
[2C]","0.409","g/l",,"0.018","MDL",,"TARGET","80",,"0.020","RDL","YES","0.510",,"980","10","0.020",

"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","319-85-7","beta-
BHC","0.426","g/l",,"0.015","MDL",,"TARGET","83",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","319-85-7","beta-BHC
[2C]","0.472","g/l",,"0.019","MDL",,"TARGET","93",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","319-86-8","delta-
BHC","0.420","g/l",,"0.016","MDL",,"TARGET","82",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","319-86-8","delta-BHC
[2C]","0.432","g/l",,"0.020","MDL",,"TARGET","85",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-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",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","33213-65-9","Endosulfan II
[2C]","0.489","g/l",,"0.016","MDL",,"TARGET","96",,"0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","50-29-3","4,4'-DDT
(p,p')","0.273","g/l",,"0.018","MDL",,"TARGET","54",,"0.041","RDL","YES","0.510",,"980","10","0.031",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","50-29-3","4,4'-DDT (p,p')
[2C]","0.397","g/l",,"0.022","MDL",,"TARGET","78",,"0.041","RDL","YES","0.510",,"980","10","0.031",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","5103-71-9","alpha-
Chlordane","0.417","g/l",,"0.016","MDL",,"TARGET","82",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","5103-71-9","alpha-Chlordane
[2C]","0.421","g/l",,"0.017","MDL",,"TARGET","83",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","5103-74-2","Chlordane (gamma)
(trans)","0.431","g/l",,"0.016","MDL",,"TARGET","85",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","5103-74-2","Chlordane (gamma)(trans)
[2C]","0.418","g/l",,"0.014","MDL",,"TARGET","82",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","53494-70-5","Endrin
ketone","0.347","g/l",,"0.018","MDL",,"TARGET","68",,"0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","53494-70-5","Endrin ketone
[2C]","0.423","g/l",,"0.018","MDL",,"TARGET","83",,"0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","58-89-9","gamma-BHC
(Lindane)","0.393","g/l",,"0.018","MDL",,"TARGET","77",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","58-89-9","gamma-BHC (Lindane)
[2C]","0.415","g/l",,"0.018","MDL",,"TARGET","81",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","60-57-
1","Dieldrin","0.399","g/l",,"0.017","MDL",,"TARGET","78",,"0.020","RDL","YES","0.510",,"980","10","0.020
",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","60-57-1","Dieldrin
[2C]","0.390","g/l",,"0.019","MDL",,"TARGET","76",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","72-20-
8","Endrin","0.485","g/l",,"0.020","MDL",,"TARGET","95",,"0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","72-20-8","Endrin
[2C]","0.497","g/l",,"0.020","MDL",,"TARGET","98",,"0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","72-43-
5","Methoxychlor","0.392","g/l",,"0.019","MDL",,"TARGET","77",,"0.041","RDL","YES","0.510",,"980","10","
0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","72-43-5","Methoxychlor
[2C]","0.438","g/l",,"0.019","MDL",,"TARGET","86",,"0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","72-54-8","4,4'-DDD
(p,p')","0.410","g/l",,"0.019","MDL",,"TARGET","80",,"0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","72-54-8","4,4'-DDD (p,p')
[2C]","0.474","g/l",,"0.018","MDL",,"TARGET","93",,"0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","72-55-9","4,4'-DDE
(p,p')","0.389","g/l",,"0.018","MDL",,"TARGET","76",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","72-55-9","4,4'-DDE (p,p')
[2C]","0.386","g/l",,"0.018","MDL",,"TARGET","76",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","7421-93-4","Endrin
aldehyde","0.437","g/l",,"0.020","MDL",,"TARGET","86",,"0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","7421-93-4","Endrin aldehyde

[2C]","0.503","µg/l",,"0.018","MDL",,"TARGET","99",,"0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","76-44-
8","Heptachlor","0.407","µg/l",,"0.020","MDL",,"TARGET","80",,"0.020","RDL","YES","0.510",,"980","10","0.
020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","76-44-8","Heptachlor
[2C]","0.460","µg/l",,"0.020","MDL",,"TARGET","90",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene
(IS)","0.020","µg/ml",,"-99","NA",,"ISTD","93",,"-99","NA","YES","10.0",,"980","10","-99",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)
[2C]","0.020","µg/ml",,"-99","NA",,"ISTD","101",,"-99","NA","YES","10.0",,"980","10","-99",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","959-98-8","Endosulfan
I","0.412","µg/l",,"0.017","MDL",,"TARGET","81",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BS1","SW846 8081B","RES","1715920-BS1","ESAI","959-98-8","Endosulfan I
[2C]","0.447","µg/l",,"0.016","MDL",,"TARGET","88",,"0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","1024-57-3","Heptachlor
epoxide","0.384","µg/l",,"0.016","MDL",,"TARGET","75","5","0.020","RDL","YES","0.510",,"980","10","0.020"
,
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","1024-57-3","Heptachlor epoxide
[2C]","0.395","µg/l",,"0.015","MDL",,"TARGET","77","2","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","1031-07-8","Endosulfan
sulfate","0.402","µg/l",,"0.020","MDL",,"TARGET","79","4","0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","1031-07-8","Endosulfan sulfate
[2C]","0.493","µg/l",,"0.017","MDL",,"TARGET","97","0.8","0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl
(Sr)","0.191","µg/l",,"-99","NA",,"SUR","94",,"-99","NA","YES","0.204",,"980","10","-99",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl
(Sr) [2C]","0.207","µg/l",,"-99","NA",,"SUR","101",,"-99","NA","YES","0.204",,"980","10","-99",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","15972-60-
8","Alachlor","0.414","µg/l",,"0.019","MDL",,"TARGET","81","9","0.020","RDL","YES","0.510",,"980","10","0.
020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","15972-60-8","Alachlor
[2C]","0.482","µg/l",,"0.018","MDL",,"TARGET","94","6","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","2051-24-3","Decachlorobiphenyl
(Sr)","0.212","µg/l",,"-99","NA",,"SUR","104",,"-99","NA","YES","0.204",,"980","10","-99",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","2051-24-3","Decachlorobiphenyl (Sr)
[2C]","0.150","µg/l",,"-99","NA",,"SUR","73",,"-99","NA","YES","0.204",,"980","10","-99",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","309-00-
2","Aldrin","0.381","µg/l",,"0.016","MDL",,"TARGET","75","5","0.020","RDL","YES","0.510",,"980","10","0.02
0",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","309-00-2","Aldrin
[2C]","0.383","µg/l",,"0.019","MDL",,"TARGET","75","2","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","319-84-6","alpha-
BHC","0.378","µg/l",,"0.012","MDL",,"TARGET","74","6","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","319-84-6","alpha-BHC
[2C]","0.393","µg/l",,"0.018","MDL",,"TARGET","77","4","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","319-85-7","beta-
BHC","0.390","µg/l",,"0.015","MDL",,"TARGET","76","9","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","319-85-7","beta-BHC
[2C]","0.446","µg/l",,"0.019","MDL",,"TARGET","87","6","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","319-86-8","delta-
BHC","0.369","µg/l",,"0.016","MDL",,"TARGET","72","13","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","319-86-8","delta-BHC
[2C]","0.406","µg/l",,"0.020","MDL",,"TARGET","80","6","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","33213-65-9","Endosulfan
II","0.413","µg/l",,"0.020","MDL",,"TARGET","81","0.7","0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","33213-65-9","Endosulfan II
[2C]","0.469","µg/l",,"0.016","MDL",,"TARGET","92","4","0.041","RDL","YES","0.510",,"980","10","0.020",

"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","50-29-3","4,4'-DDT
(p,p')","0.266","g/l",,"0.018","MDL",,"TARGET","52","3","0.041","RDL","YES","0.510",,"980","10","0.031",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","50-29-3","4,4'-DDT (p,p')
[2C]","0.345","g/l",,"0.022","MDL",,"TARGET","68","14","0.041","RDL","YES","0.510",,"980","10","0.031",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","5103-71-9","alpha-
Chlordane","0.397","g/l",,"0.016","MDL",,"TARGET","78","5","0.020","RDL","YES","0.510",,"980","10","0.02
0",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","5103-71-9","alpha-Chlordane
[2C]","0.417","g/l",,"0.017","MDL",,"TARGET","82","1","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","5103-74-2","Chlordane (gamma)
(trans)","0.417","g/l",,"0.016","MDL",,"TARGET","82","3","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","5103-74-2","Chlordane (gamma)(trans)
[2C]","0.411","g/l",,"0.014","MDL",,"TARGET","81","2","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","53494-70-5","Endrin
ketone","0.338","g/l",,"0.018","MDL",,"TARGET","66","3","0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","53494-70-5","Endrin ketone
[2C]","0.405","g/l",,"0.018","MDL",,"TARGET","79","4","0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","58-89-9","gamma-BHC
(Lindane)","0.368","g/l",,"0.018","MDL",,"TARGET","72","7","0.020","RDL","YES","0.510",,"980","10","0.02
0",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","58-89-9","gamma-BHC (Lindane)
[2C]","0.402","g/l",,"0.018","MDL",,"TARGET","79","3","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","60-57-
1","Dieldrin","0.387","g/l",,"0.017","MDL",,"TARGET","76","3","0.020","RDL","YES","0.510",,"980","10","0.0
20",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","60-57-1","Dieldrin
[2C]","0.385","g/l",,"0.019","MDL",,"TARGET","75","1","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","72-20-
8","Endrin","0.470","g/l",,"0.020","MDL",,"TARGET","92","3","0.041","RDL","YES","0.510",,"980","10","0.02
0",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","72-20-8","Endrin
[2C]","0.475","g/l",,"0.020","MDL",,"TARGET","93","5","0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","72-43-
5","Methoxychlor","0.375","g/l",,"0.019","MDL",,"TARGET","73","4","0.041","RDL","YES","0.510",,"980","10
","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","72-43-5","Methoxychlor
[2C]","0.387","g/l",,"0.019","MDL",,"TARGET","76","12","0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","72-54-8","4,4'-DDD
(p,p')","0.406","g/l",,"0.019","MDL",,"TARGET","80","0.9","0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","72-54-8","4,4'-DDD (p,p')
[2C]","0.480","g/l",,"0.018","MDL",,"TARGET","94","1","0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","72-55-9","4,4'-DDE
(p,p')","0.380","g/l",,"0.018","MDL",,"TARGET","74","2","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","72-55-9","4,4'-DDE (p,p')
[2C]","0.371","g/l",,"0.018","MDL",,"TARGET","73","4","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","7421-93-4","Endrin
aldehyde","0.425","g/l",,"0.020","MDL",,"TARGET","83","3","0.041","RDL","YES","0.510",,"980","10","0.02
0",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","7421-93-4","Endrin aldehyde
[2C]","0.489","g/l",,"0.018","MDL",,"TARGET","96","3","0.041","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","76-44-
8","Heptachlor","0.380","g/l",,"0.020","MDL",,"TARGET","75","7","0.020","RDL","YES","0.510",,"980","10","
0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","76-44-8","Heptachlor
[2C]","0.451","g/l",,"0.020","MDL",,"TARGET","88","2","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene
(IS)","0.020","g/ml",,"-99","NA",,"ISTD","89",,"-99","NA","YES","10.0",,"980","10","-99",

"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS) [2C]","0.020","﹪g/ml",,"-99","NA",,"ISTD","93",,"-99","NA","YES","10.0",,"980","10","-99",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","959-98-8","Endosulfan I","0.396","﹪g/l",,"0.017","MDL",,"TARGET","78","4","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715920-BSD1","SW846 8081B","RES","1715920-BSD1","ESAI","959-98-8","Endosulfan I [2C]","0.432","﹪g/l",,"0.016","MDL",,"TARGET","85","4","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715985-BLK1","SM2320B (97, 11)","RES","1715985-BLK1","ESAI","NA","Total Alkalinity","2.30","mg/l CaCO3","J","1.05","MDL",,"TARGET",,,"4.00","RDL","YES","-99",,"50","50","3.00",
"1715985-BLK2","SM2320B (97, 11)","RES","1715985-BLK2","ESAI","NA","Total Alkalinity","3.00","mg/l CaCO3","U","1.05","MDL",,"TARGET",,,"4.00","RDL","YES","-99",,"50","50","3.00",
"1715985-BLK3","SM2320B (97, 11)","RES","1715985-BLK3","ESAI","NA","Total Alkalinity","3.00","mg/l CaCO3","U","1.05","MDL",,"TARGET",,,"4.00","RDL","YES","-99",,"50","50","3.00",
"1715985-BLK4","SM2320B (97, 11)","RES","1715985-BLK4","ESAI","NA","Total Alkalinity","3.00","mg/l CaCO3","U","1.05","MDL",,"TARGET",,,"4.00","RDL","YES","-99",,"50","50","3.00",
"1715985-BS1","SM2320B (97, 11)","RES","1715985-BS1","ESAI","NA","Total Alkalinity","51.3","mg/l CaCO3",,"1.05","MDL",,"TARGET","103",,"4.00","RDL","YES","50.0",,"50","50","3.00",
"1715985-BS2","SM2320B (97, 11)","RES","1715985-BS2","ESAI","NA","Total Alkalinity","51.7","mg/l CaCO3",,"1.05","MDL",,"TARGET","103",,"4.00","RDL","YES","50.0",,"50","50","3.00",
"1715985-BS3","SM2320B (97, 11)","RES","1715985-BS3","ESAI","NA","Total Alkalinity","51.6","mg/l CaCO3",,"1.05","MDL",,"TARGET","103",,"4.00","RDL","YES","50.0",,"50","50","3.00",
"1715985-BS4","SM2320B (97, 11)","RES","1715985-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",
"1715985-SRM1","SM2320B (97, 11)","RES","1715985-SRM1","ESAI","NA","Total Alkalinity","125","mg/l CaCO3",,"3.50","MDL",,"TARGET","101",,"13.3","RDL","YES","124",,"15","50","10.0",
"1716006-BLK1","Mod EPA 3C/SOP RSK-175","RES","1716006-BLK1","ESAI","74-82-8","Methane","2.20","﹪g/l","U","2.16","MDL",,"TARGET",,,"2.20","RDL","YES","-99",,"10","10","2.20",
"1716006-BLK1","Mod EPA 3C/SOP RSK-175","RES","1716006-BLK1","ESAI","74-84-0","Ethane","5.00","﹪g/l","U","3.48","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"10","10","5.00",
"1716006-BS1","Mod EPA 3C/SOP RSK-175","RES","1716006-BS1","ESAI","74-82-8","Methane","513","mg/l",,"-99","NA",,"TARGET","103",,"-99","NA","YES","500",,"10","10","-99",
"1716006-BS1","Mod EPA 3C/SOP RSK-175","RES","1716006-BS1","ESAI","74-84-0","Ethane","550","mg/l",,"-99","NA",,"TARGET","110",,"-99","NA","YES","500",,"10","10","-99",
"1716147-BLK1","SM5310B (00, 11)","RES","1716147-BLK1","ESAI","NA","Total Organic Carbon","0.500","mg/l","U","0.238","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"40","40","0.500",
"1716147-BS1","SM5310B (00, 11)","RES","1716147-BS1","ESAI","NA","Total Organic Carbon","13.2","mg/l",,"0.238","MDL",,"TARGET","88",,"1.00","RDL","YES","15.0",,"40","40","0.500",
"1716147-CCB1","SM5310B (00, 11)","RES","1716147-CCB1","ESAI","NA","Total Organic Carbon","0.148","mg/l",,"-99","NA",,"TARGET",,,"-99","NA","YES","-99",,"40","40","-99",
"1716147-CCB2","SM5310B (00, 11)","RES","1716147-CCB2","ESAI","NA","Total Organic Carbon","0.129","mg/l",,"-99","NA",,"TARGET",,,"-99","NA","YES","-99",,"40","40","-99",
"1716147-CCB3","SM5310B (00, 11)","RES","1716147-CCB3","ESAI","NA","Total Organic Carbon","0.121","mg/l",,"-99","NA",,"TARGET",,,"-99","NA","YES","-99",,"40","40","-99",
"1716147-CCV1","SM5310B (00, 11)","RES","1716147-CCV1","ESAI","NA","Total Organic Carbon","13.4","mg/l",,"0.238","MDL",,"TARGET","89",,"1.00","RDL","YES","15.0",,"40","40","0.500",
"1716147-CCV2","SM5310B (00, 11)","RES","1716147-CCV2","ESAI","NA","Total Organic Carbon","13.5","mg/l",,"0.238","MDL",,"TARGET","90",,"1.00","RDL","YES","15.0",,"40","40","0.500",
"1716147-CCV3","SM5310B (00, 11)","RES","1716147-CCV3","ESAI","NA","Total Organic Carbon","13.5","mg/l",,"0.238","MDL",,"TARGET","90",,"1.00","RDL","YES","15.0",,"40","40","0.500",
"1716147-SRM1","SM5310B (00, 11)","RES","1716147-SRM1","ESAI","NA","Total Organic Carbon","13.4","mg/l",,"0.238","MDL",,"TARGET","92",,"1.00","RDL","YES","14.6",,"40","40","0.500",
"1716281-BLK1","SW846 6010C","RES","1716281-BLK1","ESAI","7429-90-5","Aluminum","0.0500","mg/l","U","0.0206","MDL",,"TARGET",,,"0.0500","RDL","YES","-99",,"50","50","0.0500",
"1716281-BLK1","SW846 6010C","RES","1716281-BLK1","ESAI","7439-89-6","Iron","0.0118","mg/l","J","0.0089","MDL",,"TARGET",,,"0.0800","RDL","YES","-99",,"50","50","0.0300",
"1716281-BLK1","SW846 6010C","RES","1716281-BLK1","ESAI","7439-95-4","Magnesium","0.0100","mg/l","U","0.0088","MDL",,"TARGET",,,"0.0200","RDL","YES","-99",,"50","50","0.0

100",
"1716281-BLK1","SW846 6010C","RES","1716281-BLK1","ESAI","7440-23-
5","Sodium","0.118","mg/l","J","0.0785","MDL",,"TARGET",,,"0.500","RDL","YES","-99",,"50","50","0.250",
"1716281-BLK1","SW846 6010C","RES","1716281-BLK1","ESAI","7440-70-
2","Calcium","0.0163","mg/l","J","0.0142","MDL",,"TARGET",,,"0.200","RDL","YES","-99",,"50","50","0.0500",
"1716281-BS1","SW846 6010C","RES","1716281-BS1","ESAI","7429-90-
5","Aluminum","2.68","mg/l",,"0.0206","MDL",,"TARGET","107",,"0.0500","RDL","YES","2.50",,"50","50","0.0
500",
"1716281-BS1","SW846 6010C","RES","1716281-BS1","ESAI","7439-89-
6","Iron","2.84","mg/l",,"0.0089","MDL",,"TARGET","114",,"0.0800","RDL","YES","2.50",,"50","50","0.0300",
"1716281-BS1","SW846 6010C","RES","1716281-BS1","ESAI","7439-95-
4","Magnesium","2.61","mg/l",,"0.0088","MDL",,"TARGET","105",,"0.0200","RDL","YES","2.50",,"50","50","0.
0100",
"1716281-BS1","SW846 6010C","RES","1716281-BS1","ESAI","7440-23-
5","Sodium","12.1","mg/l",,"0.0785","MDL",,"TARGET","97",,"0.500","RDL","YES","12.5",,"50","50","0.250",
"1716281-BS1","SW846 6010C","RES","1716281-BS1","ESAI","7440-70-
2","Calcium","13.4","mg/l",,"0.0142","MDL",,"TARGET","107",,"0.200","RDL","YES","12.5",,"50","50","0.0500
",
"1716281-BSD1","SW846 6010C","RES","1716281-BSD1","ESAI","7429-90-
5","Aluminum","2.73","mg/l",,"0.0206","MDL",,"TARGET","109","2","0.0500","RDL","YES","2.50",,"50","50","
0.0500",
"1716281-BSD1","SW846 6010C","RES","1716281-BSD1","ESAI","7439-89-
6","Iron","2.78","mg/l",,"0.0089","MDL",,"TARGET","111","2","0.0800","RDL","YES","2.50",,"50","50","0.0300
",
"1716281-BSD1","SW846 6010C","RES","1716281-BSD1","ESAI","7439-95-
4","Magnesium","2.57","mg/l",,"0.0088","MDL",,"TARGET","103","2","0.0200","RDL","YES","2.50",,"50","50",
"0.0100",
"1716281-BSD1","SW846 6010C","RES","1716281-BSD1","ESAI","7440-23-
5","Sodium","12.1","mg/l",,"0.0785","MDL",,"TARGET","97","0.4","0.500","RDL","YES","12.5",,"50","50","0.2
50",
"1716281-BSD1","SW846 6010C","RES","1716281-BSD1","ESAI","7440-70-
2","Calcium","13.2","mg/l",,"0.0142","MDL",,"TARGET","106","1","0.200","RDL","YES","12.5",,"50","50","0.05
00",
"1716283-BLK1","EPA 245.1/7470A","RES","1716283-BLK1","ESAI","7439-97-
6","Mercury","0.00020","mg/l","U","0.00013","MDL",,"TARGET",,,"0.00020","RDL","YES","-99",,"20","20","0.0
0020",
"1716283-BS1","EPA 245.1/7470A","RES","1716283-BS1","ESAI","7439-97-
6","Mercury","0.00475","mg/l",,"0.00013","MDL",,"TARGET","95",,"0.00020","RDL","YES","0.00500",,"20","20
","0.00020",
"1716533-BLK1","SW846 6010C","RES","1716533-BLK1","ESAI","7440-09-
7","Potassium","0.250","mg/l","U","0.120","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"50","50","0.250",
"1716533-BS1","SW846 6010C","RES","1716533-BS1","ESAI","7440-09-
7","Potassium","23.7","mg/l",,"0.120","MDL",,"TARGET","95",,"1.00","RDL","YES","25.0",,"50","50","0.250",
"1716533-BSD1","SW846 6010C","RES","1716533-BSD1","ESAI","7440-09-
7","Potassium","24.4","mg/l",,"0.120","MDL",,"TARGET","98","3","1.00","RDL","YES","25.0",,"50","50","0.250
",
"TF1-DUP-03-091217","EPA 200/6000 methods","RES","SC39163-
05","ESAI","NA","Preservation","0","N/A",,"-99","NA",,"TARGET",,,"-99","NA","YES","-99",,"1","1","-99","Field
Preserved; pH<2 confirmed"
"TF1-DUP-03-091217","EPA 245.1/7470A","RES","SC39163-05","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-DUP-03-091217","EPA 300.0","RES","SC39163-05","ESAI","14797-55-8","Nitrate as
N","0.100","mg/l","U","0.007","MDL",,"TARGET",,,"0.100","RDL","YES","-99",,"5","5","0.100",
"TF1-DUP-03-091217","EPA 300.0","RES","SC39163-05","ESAI","14808-79-8","Sulfate as
SO4","10.9","mg/l",,"0.798","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"5","5","1.00",
"TF1-DUP-03-091217","EPA 300.0","RES","SC39163-05","ESAI","16887-00-

6","Chloride","7.37","mg/l",,"0.0994","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"5","5","0.100",
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","1763-23-1","Perfluoro-
octanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","1763-23-1L","13C8-
PFOS","33","ng/l",,"-99","NA",,"SUR","70",,"-99","NA","YES","48",,,,"-99",
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","2058-94-8","Perfluoroundecanoic
acid","0","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","2058-94-8L","13C7-
PFUnDA","31","ng/l",,"-99","NA",,"SUR","63",,"-99","NA","YES","50",,,,"-99",
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","2706-90-3","Perfluoropentanoic
Acid","2","ng/l","Ja","0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","2706-90-3L","13C5-
PFPeA","36","ng/l",,"-99","NA",,"SUR","72",,"-99","NA","YES","50",,,,"-99",
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","307-24-4","Perfluorohexanoic
acid","1","ng/l","Ja","0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","307-24-4L","13C5-
PFHxA","40","ng/l",,"-99","NA",,"SUR","80",,"-99","NA","YES","50",,,,"-99",
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","307-55-1","Perfluorododecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","307-55-1L","13C2-
PFDoDA","32","ng/l",,"-99","NA",,"SUR","64",,"-99","NA","YES","50",,,,"-99",
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","335-67-1","Perfluorooctanoic
acid","0","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","335-67-1L","13C8-
PFOA","36","ng/l",,"-99","NA",,"SUR","73",,"-99","NA","YES","50",,,,"-99",
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","335-76-2","Perfluorodecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","335-76-2L","13C6-
PFDA","38","ng/l",,"-99","NA",,"SUR","76",,"-99","NA","YES","50",,,,"-99",
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","335-77-
3","Perfluorodecanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","355-46-
4","Perfluorohexanesulfonate","0","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","355-46-4L","13C3-
PFHxS","39","ng/l",,"-99","NA",,"SUR","83",,"-99","NA","YES","47",,,,"-99",
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","375-22-4","Perfluorobutanoic
Acid","0","ng/l",,"3","MDL",,"TARGET",,,"10","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","375-22-4L","13C4-
PFBA","34","ng/l",,"-99","NA",,"SUR","69",,"-99","NA","YES","50",,,,"-99",
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","375-73-
5","Perfluorobutanesulfonate","0","ng/l",,"0.8","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","375-73-5L","13C3-
PFBS","41","ng/l",,"-99","NA",,"SUR","89",,"-99","NA","YES","46",,,,"-99",
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","375-85-9","Perfluoroheptanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","375-85-9L","13C4-
PFHpA","39","ng/l",,"-99","NA",,"SUR","79",,"-99","NA","YES","50",,,,"-99",
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","375-92-
8","Perfluoroheptanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","375-95-1","Perfluorononanoic
acid","0","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","375-95-1L","13C9-
PFNA","34","ng/l",,"-99","NA",,"SUR","69",,"-99","NA","YES","50",,,,"-99",
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","376-06-7","Perfluorotetradecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","376-06-7L","13C2-
PFTeDA","30","ng/l",,"-99","NA",,"SUR","61",,"-99","NA","YES","50",,,,"-99",

"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","72629-94-8","Perfluorotridecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","754-91-6","PFOSA","0","ng/l",,"3","MDL",,"TARGET",,,"9","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","EPA 537 Modified","RES","SC39163-05","ESAI","754-91-6L","13C8-PFOSA","4","ng/l",,"-99","NA",,"SUR","9",,"-99","NA","YES","50",,,,"-99",
"TF1-DUP-03-091217","Mod EPA 3C/SOP RSK-175","RES","SC39163-05","ESAI","74-82-8","Methane","2.20","g/l","U","2.16","MDL",,"TARGET",,,"2.20","RDL","YES","-99",,"10","10","2.20",
"TF1-DUP-03-091217","Mod EPA 3C/SOP RSK-175","RES","SC39163-05","ESAI","74-84-0","Ethane","6.00","g/l",,"3.48","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"10","10","5.00",
"TF1-DUP-03-091217","SM18-22 5210B","RES","SC39163-05","ESAI","NA","Biochemical Oxygen Demand (5-day)","6.00","mg/l","BOD4","2.74","MDL",,"TARGET",,,"3.00","RDL","YES","-99",,"300","300","2.97",
"TF1-DUP-03-091217","SM2320B (97, 11)","RES","SC39163-05","ESAI","NA","Total Alkalinity","27.1","mg/l CaCO3",,"1.05","MDL",,"TARGET",,,"4.00","RDL","YES","-99",,"50","50","3.00",
"TF1-DUP-03-091217","SM5310B (00, 11)","RES","SC39163-05","ESAI","NA","Total Organic Carbon","1.74","mg/l",,"0.238","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"40","40","0.500",
"TF1-DUP-03-091217","SW846 6010C","RES","SC39163-05","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-03-091217","SW846 6010C","RES","SC39163-05","ESAI","7439-89-6","Iron","45.3","mg/l","R06","0.0089","MDL",,"TARGET",,,"0.0800","RDL","YES","-99",,"50","50","0.0300",
"TF1-DUP-03-091217","SW846 6010C","RES","SC39163-05","ESAI","7439-95-4","Magnesium","1.80","mg/l",,"0.0088","MDL",,"TARGET",,,"0.0200","RDL","YES","-99",,"50","50","0.0100",
"TF1-DUP-03-091217","SW846 6010C","RES","SC39163-05","ESAI","7440-09-7","Potassium","1.91","mg/l",,"0.120","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"50","50","0.250",
"TF1-DUP-03-091217","SW846 6010C","RES","SC39163-05","ESAI","7440-23-5","Sodium","4.27","mg/l",,"0.0785","MDL",,"TARGET",,,"0.500","RDL","YES","-99",,"50","50","0.250",
"TF1-DUP-03-091217","SW846 6010C","RES","SC39163-05","ESAI","7440-70-2","Calcium","8.73","mg/l",,"0.0142","MDL",,"TARGET",,,"0.200","RDL","YES","-99",,"50","50","0.0500",
"TF1-DUP-03-091217","SW-846 6020A","RES","SC39163-05","ESAI","7439-92-1","Lead","0.00093","mg/l","Ja","0.00011","MDL",,"TARGET",,,"0.0020","RDL","YES","-99",,,,"-99",
"TF1-DUP-03-091217","SW-846 6020A","RES","SC39163-05","ESAI","7439-96-5","Manganese","2.97","mg/l",,"0.00090","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-DUP-03-091217","SW-846 6020A","RES","SC39163-05","ESAI","7439-98-7","Molybdenum","0.0020","mg/l",,"0.00025","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-DUP-03-091217","SW-846 6020A","RES","SC39163-05","ESAI","7440-02-0","Nickel","0.0060","mg/l",,"0.0010","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-DUP-03-091217","SW-846 6020A","RES","SC39163-05","ESAI","7440-22-4","Silver","0","mg/l",,"0.00015","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","SW-846 6020A","RES","SC39163-05","ESAI","7440-28-0","Thallium","0","mg/l",,"0.00012","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","SW-846 6020A","RES","SC39163-05","ESAI","7440-36-0","Antimony","0","mg/l",,"0.00045","MDL",,"TARGET",,,"0.0020","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","SW-846 6020A","RES","SC39163-05","ESAI","7440-38-2","Arsenic","0.0750","mg/l",,"0.00072","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-DUP-03-091217","SW-846 6020A","RES","SC39163-05","ESAI","7440-39-3","Barium","0.0066","mg/l",,"0.00072","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-DUP-03-091217","SW-846 6020A","RES","SC39163-05","ESAI","7440-41-7","Beryllium","0","mg/l",,"0.000071","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","SW-846 6020A","RES","SC39163-05","ESAI","7440-43-9","Cadmium","0","mg/l",,"0.00015","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","SW-846 6020A","RES","SC39163-05","ESAI","7440-47-3","Chromium","0","mg/l",,"0.00087","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","SW-846 6020A","RES","SC39163-05","ESAI","7440-48-4","Cobalt","0.0252","mg/l",,"0.00016","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-DUP-03-091217","SW-846 6020A","RES","SC39163-05","ESAI","7440-50-8","Copper","0.0011","mg/l","Ja","0.00054","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",

"TF1-DUP-03-091217","SW-846 6020A","RES","SC39163-05","ESAI","7440-62-
2","Vanadium","0","mg/l",,"0.00021","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","SW-846 6020A","RES","SC39163-05","ESAI","7440-66-
6","Zinc","0","mg/l",,"0.0039","MDL",,"TARGET",,,"0.0300","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","SW-846 6020A","RES","SC39163-05","ESAI","7782-49-
2","Selenium","0","mg/l",,"0.00050","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99","<"
"TF1-DUP-03-091217","SW-846 8015B","RES","SC39163-05","ESAI","108-90-
7","Chlorobenzene","0.011","mg/l",,"-99","NA",,"SUR","89",,"-99","NA","YES","0.012",,,,"-99",
"TF1-DUP-03-091217","SW-846 8015B","RES","SC39163-05","ESAI","84-15-
1","Orthoterphenyl","0.012","mg/l",,"-99","NA",,"SUR","100",,"-99","NA","YES","0.013",,,,"-99",
"TF1-DUP-03-091217","SW-846 8015B","RES","SC39163-05","ESAI","PHCC8C44","C8-
C44","0.26","mg/l",,"0.051","MDL",,"TARGET",,,"0.21","RDL","YES","-99",,,,"-99",
"TF1-DUP-03-091217","SW-846 8015B","RES","SC39163-05","ESAI","PHCE","Total
TPH","0.26","mg/l",,"0.051","MDL",,"TARGET",,,"0.21","RDL","YES","-99",,,,"-99",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","1024-57-3","Heptachlor
epoxide","0.020","µg/l","U","0.015","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1020","10","0.020",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","1031-07-8","Endosulfan
sulfate","0.020","µg/l","U","0.019","MDL",,"TARGET",,,"0.039","RDL","YES","-99",,"1020","10","0.020",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl
(Sr)","0.143","µg/l",,"-99","NA",,"SUR","73",,"-99","NA","YES","0.196",,"1020","10","-99",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","15972-60-
8","Alachlor","0.020","µg/l","U","0.019","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1020","10","0.020",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","2051-24-3","Decachlorobiphenyl
(Sr)","0.144","µg/l",,"-99","NA",,"SUR","74",,"-99","NA","YES","0.196",,"1020","10","-99",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","309-00-
2","Aldrin","0.020","µg/l","U","0.015","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1020","10","0.020",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","319-84-6","alpha-
BHC","0.020","µg/l","U","0.011","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1020","10","0.020",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","319-85-7","beta-
BHC","0.020","µg/l","U","0.014","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1020","10","0.020",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","319-86-8","delta-
BHC","0.020","µg/l","U","0.015","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1020","10","0.020",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","33213-65-9","Endosulfan
II","0.020","µg/l","U","0.020","MDL",,"TARGET",,,"0.039","RDL","YES","-99",,"1020","10","0.020",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","50-29-3","4,4'-DDT
(p,p')","0.029","µg/l","U","0.017","MDL",,"TARGET",,,"0.039","RDL","YES","-99",,"1020","10","0.029",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","5103-71-9","alpha-
Chlordane","0.020","µg/l","U","0.015","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1020","10","0.020",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","5103-74-2","Chlordane (gamma)
(trans)","0.020","µg/l","U","0.016","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1020","10","0.020",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","53494-70-5","Endrin
ketone","0.020","µg/l","U","0.017","MDL",,"TARGET",,,"0.039","RDL","YES","-99",,"1020","10","0.020",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","57-74-
9","Chlordane","0.064","µg/l","U","0.050","MDL",,"TARGET",,,"0.064","RDL","YES","-99",,"1020","10","0.064
",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","58-89-9","gamma-BHC
(Lindane)","0.020","µg/l","U","0.017","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1020","10","0.020",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","60-57-
1","Dieldrin","0.020","µg/l","U","0.017","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1020","10","0.020",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","72-20-
8","Endrin","0.020","µg/l","U","0.019","MDL",,"TARGET",,,"0.039","RDL","YES","-99",,"1020","10","0.020",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","72-43-
5","Methoxychlor","0.020","µg/l","U","0.018","MDL",,"TARGET",,,"0.039","RDL","YES","-99",,"1020","10","0.
020",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","72-54-8","4,4'-DDD
(p,p')","0.020","µg/l","U","0.018","MDL",,"TARGET",,,"0.039","RDL","YES","-99",,"1020","10","0.020",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","72-55-9","4,4'-DDE

(p,p')","0.020","◆g/l","U","0.017","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1020","10","0.020",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","7421-93-4","Endrin
aldehyde","0.020","◆g/l","U","0.019","MDL",,"TARGET",,,"0.039","RDL","YES","-99",,"1020","10","0.020",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","76-44-
8","Heptachlor","0.020","◆g/l","U","0.019","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1020","10","0.02
0",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","8001-35-
2","Toxaphene","0.490","◆g/l","U","0.322","MDL",,"TARGET",,,"0.490","RDL","YES","-99",,"1020","10","0.49
0",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","877-09-8","2,4,5,6-TC-M-Xylene
(IS)","0.020","◆g/ml",,"-99","NA",,"ISTD","63",,"-99","NA","YES","10.0",,"1020","10","-99",
"TF1-DUP-03-091217","SW846 8081B","RES","SC39163-05","ESAI","959-98-8","Endosulfan
I","0.020","◆g/l","U","0.016","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1020","10","0.020",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","100-41-
4","Ethylbenzene","0.5","◆g/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","100-42-
5","Styrene","1.0","◆g/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","108-87-
2","Methylcyclohexane","2.0","◆g/l","U","0.7","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","108-88-
3","Toluene","1.0","◆g/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","108-90-
7","Chlorobenzene","0.5","◆g/l","U","0.2","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","110-82-
7","Cyclohexane","2.0","◆g/l","U","0.8","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","124-48-
1","Dibromochloromethane","0.5","◆g/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","127-18-
4","Tetrachloroethene","1.0","◆g/l","U","0.6","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","17060-07-0","1,2-Dichloroethane-
d4","48.2","◆g/l",,"-99","NA",,"SUR","96",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","1868-53-
7","Dibromofluoromethane","49.7","◆g/l",,"-99","NA",,"SUR","99",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","2037-26-5","Toluene-
d8","49.7","◆g/l",,"-99","NA",,"SUR","99",,"-99","NA","YES","50.0",,"5","5","-99",

"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","3114-55-4","Chlorobenzene-d5","50.0","g/l",,"-99","NA",,"ISTD","101",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","460-00-4","4-Bromofluorobenzene","49.4","g/l",,"-99","NA",,"SUR","99",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","462-06-6","Fluorobenzene","50.0","g/l",,"-99","NA",,"ISTD","105",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","67-64-1","Acetone","2.0","g/l","U","0.8","MDL",,"TARGET",,,"10.0","RDL","YES","-99",,"5","5","2.0",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","67-66-3","Chloroform","1.0","g/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","71-43-2","Benzene","0.5","g/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","74-83-9","Bromomethane","2.0","g/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","74-87-3","Chloromethane","1.0","g/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","74-97-5","Bromochloromethane","1.0","g/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","75-00-3","Chloroethane","2.0","g/l","U","0.6","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","75-25-2","Bromoform","1.0","g/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","75-27-4","Bromodichloromethane","0.5","g/l","U","0.4","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","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-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","79-01-

6","Trichloroethene","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","79-20-9","Methyl
acetate","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","79-34-5","1,1,2,2-
Tetrachloroethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","87-61-6","1,2,3-
Trichlorobenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","95-47-6","o-
Xylene","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","95-50-1","1,2-
Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","96-12-8","1,2-Dibromo-3-
chloropropane","2.0","µg/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-DUP-03-091217","SW846 8260C","RES","SC39163-05","ESAI","98-82-
8","Isopropylbenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","1146-65-2","Naphthalene-
d8","40.0","µg/ml",,"-99","NA",,"ISTD","107",,"-99","NA","YES","40.0",,"1050","1","-99",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","120-12-
7","Anthracene","0.952","µg/l","U","0.579","MDL",,"TARGET",,,"4.76","RDL","YES","-99",,"1050","1","0.952"
,
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","129-00-
0","Pyrene","0.952","µg/l","U","0.581","MDL",,"TARGET",,,"4.76","RDL","YES","-99",,"1050","1","0.952",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","15067-26-2","Acenaphthene-
d10","40.0","µg/ml",,"-99","NA",,"ISTD","105",,"-99","NA","YES","40.0",,"1050","1","-99",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","1517-22-2","Phenanthrene-
d10","40.0","µg/ml",,"-99","NA",,"ISTD","102",,"-99","NA","YES","40.0",,"1050","1","-99",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","1520-96-3","Perylene-
d12","40.0","µg/ml",,"-99","NA",,"ISTD","104",,"-99","NA","YES","40.0",,"1050","1","-99",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","1718-51-0","Terphenyl-
dl4","30.3","µg/l",,"-99","NA",,"SUR","64",,"-99","NA","YES","47.6",,"1050","1","-99",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","1719-03-5","Chrysene-
d12","40.0","µg/ml",,"-99","NA",,"ISTD","105",,"-99","NA","YES","40.0",,"1050","1","-99",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","191-24-2","Benzo (g,h,i)
perylene","0.952","µg/l","U","0.505","MDL",,"TARGET",,,"4.76","RDL","YES","-99",,"1050","1","0.952",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","193-39-5","Indeno (1,2,3-cd)
pyrene","0.952","µg/l","U","0.552","MDL",,"TARGET",,,"4.76","RDL","YES","-99",,"1050","1","0.952",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","205-99-2","Benzo (b)
fluoranthene","0.952","µg/l","U","0.416","MDL",,"TARGET",,,"4.76","RDL","YES","-99",,"1050","1","0.952",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","206-44-
0","Fluoranthene","0.952","µg/l","U","0.608","MDL",,"TARGET",,,"4.76","RDL","YES","-99",,"1050","1","0.95
2",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","207-08-9","Benzo (k)
fluoranthene","0.952","µg/l","U","0.457","MDL",,"TARGET",,,"4.76","RDL","YES","-99",,"1050","1","0.952",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","208-96-
8","Acenaphthylene","0.952","µg/l","U","0.650","MDL",,"TARGET",,,"4.76","RDL","YES","-99",,"1050","1","0.
952",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","218-01-
9","Chrysene","0.952","µg/l","U","0.507","MDL",,"TARGET",,,"4.76","RDL","YES","-99",,"1050","1","0.952",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","321-60-8","2-
Fluorobiphenyl","24.6","µg/l",,"-99","NA",,"SUR","52",,"-99","NA","YES","47.6",,"1050","1","-99",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","4165-60-0","Nitrobenzene-
d5","24.3","µg/l",,"-99","NA",,"SUR","51",,"-99","NA","YES","47.6",,"1050","1","-99",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","50-32-8","Benzo (a)
pyrene","0.952","µg/l","U","0.535","MDL",,"TARGET",,,"4.76","RDL","YES","-99",,"1050","1","0.952",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","53-70-3","Dibenzo (a,h)
anthracene","0.952","µg/l","U","0.429","MDL",,"TARGET",,,"4.76","RDL","YES","-99",,"1050","1","0.952",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","56-55-3","Benzo (a)

anthracene","0.952","◆g/l","U","0.510","MDL",,"TARGET",,,"4.76","RDL","YES","-99",,"1050","1","0.952",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","83-32-
9","Acenaphthene","0.952","◆g/l","U","0.658","MDL",,"TARGET",,,"4.76","RDL","YES","-99",,"1050","1","0.9
52",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","85-01-
8","Phenanthrene","0.952","◆g/l","U","0.558","MDL",,"TARGET",,,"4.76","RDL","YES","-99",,"1050","1","0.95
2",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","86-73-
7","Fluorene","0.952","◆g/l","U","0.583","MDL",,"TARGET",,,"4.76","RDL","YES","-99",,"1050","1","0.952",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","90-12-0","1-
Methylnaphthalene","0.952","◆g/l","U","0.698","MDL",,"TARGET",,,"4.76","RDL","YES","-99",,"1050","1","0.9
52",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","91-20-
3","Naphthalene","0.952","◆g/l","U","0.652","MDL",,"TARGET",,,"4.76","RDL","YES","-99",,"1050","1","0.952
",
"TF1-DUP-03-091217","SW846 8270D","RES","SC39163-05","ESAI","91-57-6","2-
Methylnaphthalene","0.952","◆g/l","U","0.547","MDL",,"TARGET",,,"4.76","RDL","YES","-99",,"1050","1","0.9
52",
"TF1-DUP-03-091217DUP","EPA 245.1/7470A","RES","1716283-DUP1","ESAI","7439-97-
6","Mercury","0.00020","mg/l","U","0.00013","MDL",,"TARGET",,,"0.00020","RDL","YES","-99","TF1-DUP-03-
091217","20","20","0.00020",
"TF1-DUP-03-091217MS","EPA 245.1/7470A","RES","1716283-MS1","ESAI","7439-97-
6","Mercury","0.00475","mg/l",,"0.00013","MDL",,"SPIKE","95",,"0.00020","RDL","YES","0.00500","TF1-DUP-
03-091217","20","20","0.00020",
"TF1-DUP-03-091217MSD","EPA 245.1/7470A","RES","1716283-MSD1","ESAI","7439-97-
6","Mercury","0.00449","mg/l",,"0.00013","MDL",,"SPIKE","90","6","0.00020","RDL","YES","0.00500","TF1-
DUP-03-091217","20","20","0.00020",
"TF1-DUP-03-091217PS","EPA 245.1/7470A","RES","1716283-PS1","ESAI","7439-97-
6","Mercury","0.00470","mg/l",,"0.00013","MDL",,"SPIKE","94",,"0.00020","RDL","YES","0.00500","TF1-DUP-
03-091217","20","20","0.00020",
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","1763-23-1","Perfluoro-
octanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","1763-23-1L","13C8-
PFOS","35","ng/l",,"-99","NA",,"SUR","72",,"-99","NA","YES","48",,,,"-99",
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","2058-94-8","Perfluoroundecanoic
acid","0","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","2058-94-8L","13C7-
PFUnDA","33","ng/l",,"-99","NA",,"SUR","66",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","2706-90-3","Perfluoropentanoic
Acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","2706-90-3L","13C5-
PFPeA","39","ng/l",,"-99","NA",,"SUR","77",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","307-24-4","Perfluorohexanoic
acid","0","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","307-24-4L","13C5-
PFHxA","43","ng/l",,"-99","NA",,"SUR","86",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","307-55-1","Perfluorododecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","307-55-1L","13C2-
PFDoDA","31","ng/l",,"-99","NA",,"SUR","62",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","335-67-1","Perfluorooctanoic
acid","0","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","335-67-1L","13C8-
PFOA","39","ng/l",,"-99","NA",,"SUR","77",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","335-76-2","Perfluorodecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","335-76-2L","13C6-

PFDA","39","ng/l",,"-99","NA",,"SUR","77",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","335-77-
3","Perfluorodecanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","355-46-
4","Perfluorohexanesulfonate","0","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","355-46-4L","13C3-
PFHxS","39","ng/l",,"-99","NA",,"SUR","83",,"-99","NA","YES","47",,,,"-99",
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","375-22-4","Perfluorobutanoic
Acid","0","ng/l",,"3","MDL",,"TARGET",,,"10","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","375-22-4L","13C4-
PFBA","41","ng/l",,"-99","NA",,"SUR","81",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","375-73-
5","Perfluorobutanesulfonate","0","ng/l",,"0.8","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","375-73-5L","13C3-
PFBS","38","ng/l",,"-99","NA",,"SUR","81",,"-99","NA","YES","47",,,,"-99",
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","375-85-9","Perfluoroheptanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","375-85-9L","13C4-
PFHpA","41","ng/l",,"-99","NA",,"SUR","82",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","375-92-
8","Perfluoroheptanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","375-95-1","Perfluorononanoic
acid","0","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","375-95-1L","13C9-
PFNA","37","ng/l",,"-99","NA",,"SUR","74",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","376-06-7","Perfluorotetradecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","376-06-7L","13C2-
PFTeDA","31","ng/l",,"-99","NA",,"SUR","62",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","72629-94-8","Perfluorotridecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","754-91-
6","PFOSA","0","ng/l",,"3","MDL",,"TARGET",,,"9","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091217","EPA 537 Modified","RES","SC39163-08","ESAI","754-91-6L","13C8-
PFOSA","18","ng/l",,"-99","NA",,"SUR","36",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-111-091217","EPA 200/6000 methods","RES","SC39163-
03","ESAI","NA","Preservation","0","N/A",,"-99","NA",,"TARGET",,,"-99","NA","YES","-99",,"1","1","-99","Field
Preserved; pH<2 confirmed"
"TF1-GT-111-091217","EPA 245.1/7470A","RES","SC39163-03","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-GT-111-091217","EPA 300.0","RES","SC39163-03","ESAI","14797-55-8","Nitrate as
N","0.465","mg/l",,"0.007","MDL",,"TARGET",,,"0.100","RDL","YES","-99",,"5","5","0.100",
"TF1-GT-111-091217","EPA 300.0","RES","SC39163-03","ESAI","14808-79-8","Sulfate as
SO4","1.98","mg/l",,"0.798","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"5","5","1.00",
"TF1-GT-111-091217","EPA 300.0","RES","SC39163-03","ESAI","16887-00-
6","Chloride","7.91","mg/l",,"0.0994","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"5","5","0.100",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","1763-23-1","Perfluoro-
octanesulfonate","390","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","1763-23-1L","13C8-
PFOS","30","ng/l",,"-99","NA",,"SUR","63",,"-99","NA","YES","48",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","2058-94-8","Perfluoroundecanoic
acid","0","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","2058-94-8L","13C7-
PFUnDA","32","ng/l",,"-99","NA",,"SUR","64",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","2706-90-3","Perfluoropentanoic
Acid","15","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",

"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","2706-90-3L","13C5-PFPeA","44","ng/l",,"-99","NA",,"SUR","89",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","307-24-4","Perfluorohexanoic acid","31","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","307-24-4L","13C5-PFHxA","31","ng/l",,"-99","NA",,"SUR","62",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","307-55-1","Perfluorododecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","307-55-1L","13C2-PFDoDA","29","ng/l",,"-99","NA",,"SUR","57",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","335-67-1","Perfluorooctanoic acid","20","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","335-67-1L","13C8-PFOA","32","ng/l",,"-99","NA",,"SUR","63",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","335-76-2","Perfluorodecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","335-76-2L","13C6-PFDA","35","ng/l",,"-99","NA",,"SUR","71",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","335-77-3","Perfluorodecanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","355-46-4","Perfluorohexanesulfonate","180","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","355-46-4L","13C3-PFHxS","33","ng/l",,"-99","NA",,"SUR","70",,"-99","NA","YES","47",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","375-22-4","Perfluorobutanoic Acid","15","ng/l",,"3","MDL",,"TARGET",,,"10","RDL","YES","-99",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","375-22-4L","13C4-PFBA","36","ng/l",,"-99","NA",,"SUR","72",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","375-73-5","Perfluorobutanesulfonate","12","ng/l",,"0.8","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","375-73-5L","13C3-PFBS","54","ng/l",,"-99","NA",,"SUR","116",,"-99","NA","YES","46",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","375-85-9","Perfluoroheptanoic acid","9","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","375-85-9L","13C4-PFHpA","33","ng/l",,"-99","NA",,"SUR","66",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","375-92-8","Perfluoroheptanesulfonate","4","ng/l","Ja","2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","375-95-1","Perfluorononanoic acid","0","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","375-95-1L","13C9-PFNA","37","ng/l",,"-99","NA",,"SUR","74",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","376-06-7","Perfluorotetradecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","376-06-7L","13C2-PFTeDA","26","ng/l",,"-99","NA",,"SUR","52",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","72629-94-8","Perfluorotridecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","754-91-6","PFOSA","0","ng/l",,"3","MDL",,"TARGET",,,"9","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","EPA 537 Modified","RES","SC39163-03","ESAI","754-91-6L","13C8-PFOSA","7","ng/l",,"-99","NA",,"SUR","14",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-111-091217","Mod EPA 3C/SOP RSK-175","RES","SC39163-03","ESAI","74-82-8","Methane","2.20","g/l","U","2.16","MDL",,"TARGET",,,"2.20","RDL","YES","-99",,"10","10","2.20",
"TF1-GT-111-091217","Mod EPA 3C/SOP RSK-175","RES","SC39163-03","ESAI","74-84-0","Ethane","5.00","g/l","U","3.48","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"10","10","5.00",
"TF1-GT-111-091217","SM18-22 5210B","RES","SC39163-03","ESAI","NA","Biochemical Oxygen Demand (5-

day)","4.00","mg/l","BOD4","2.74","MDL",,"TARGET",,,"3.00","RDL","YES","-99",,"300","300","2.97",
"TF1-GT-111-091217","SM2320B (97, 11)","RES","SC39163-03","ESAI","NA","Total Alkalinity","64.4","mg/l
CaCO3",,"0.524","MDL",,"TARGET",,,"2.00","RDL","YES","-99",,"100","50","1.50",
"TF1-GT-111-091217","SM5310B (00, 11)","RES","SC39163-03","ESAI","NA","Total Organic
Carbon","2.51","mg/l",,"0.238","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"40","40","0.500",
"TF1-GT-111-091217","SW846 6010C","RES","SC39163-03","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-GT-111-091217","SW846 6010C","RES","SC39163-03","ESAI","7439-89-
6","Iron","0.874","mg/l","R06","0.0089","MDL",,"TARGET",,,"0.0800","RDL","YES","-99",,"50","50","0.0300",
"TF1-GT-111-091217","SW846 6010C","RES","SC39163-03","ESAI","7439-95-
4","Magnesium","3.71","mg/l",,"0.0088","MDL",,"TARGET",,,"0.0200","RDL","YES","-99",,"50","50","0.0100",
"TF1-GT-111-091217","SW846 6010C","RES","SC39163-03","ESAI","7440-09-
7","Potassium","3.86","mg/l",,"0.120","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"50","50","0.250",
"TF1-GT-111-091217","SW846 6010C","RES","SC39163-03","ESAI","7440-23-
5","Sodium","6.71","mg/l",,"0.0785","MDL",,"TARGET",,,"0.500","RDL","YES","-99",,"50","50","0.250",
"TF1-GT-111-091217","SW846 6010C","RES","SC39163-03","ESAI","7440-70-
2","Calcium","19.4","mg/l",,"0.0142","MDL",,"TARGET",,,"0.200","RDL","YES","-99",,"50","50","0.0500",
"TF1-GT-111-091217","SW-846 6020A","RES","SC39163-03","ESAI","7439-92-
1","Lead","0","mg/l",,"0.00011","MDL",,"TARGET",,,"0.0020","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","SW-846 6020A","RES","SC39163-03","ESAI","7439-96-
5","Manganese","2.16","mg/l",,"0.00090","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-111-091217","SW-846 6020A","RES","SC39163-03","ESAI","7439-98-
7","Molybdenum","0","mg/l",,"0.00025","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","SW-846 6020A","RES","SC39163-03","ESAI","7440-02-
0","Nickel","0.0022","mg/l","Ja","0.0010","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-111-091217","SW-846 6020A","RES","SC39163-03","ESAI","7440-22-
4","Silver","0","mg/l",,"0.00015","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","SW-846 6020A","RES","SC39163-03","ESAI","7440-28-
0","Thallium","0","mg/l",,"0.00012","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","SW-846 6020A","RES","SC39163-03","ESAI","7440-36-
0","Antimony","0","mg/l",,"0.00045","MDL",,"TARGET",,,"0.0020","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","SW-846 6020A","RES","SC39163-03","ESAI","7440-38-
2","Arsenic","0.0013","mg/l","Ja","0.00072","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-111-091217","SW-846 6020A","RES","SC39163-03","ESAI","7440-39-
3","Barium","0.0119","mg/l",,"0.00072","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-111-091217","SW-846 6020A","RES","SC39163-03","ESAI","7440-41-
7","Beryllium","0","mg/l",,"0.000071","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","SW-846 6020A","RES","SC39163-03","ESAI","7440-43-
9","Cadmium","0","mg/l",,"0.00015","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","SW-846 6020A","RES","SC39163-03","ESAI","7440-47-
3","Chromium","0","mg/l",,"0.00087","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","SW-846 6020A","RES","SC39163-03","ESAI","7440-48-
4","Cobalt","0.0019","mg/l",,"0.00016","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-GT-111-091217","SW-846 6020A","RES","SC39163-03","ESAI","7440-50-
8","Copper","0","mg/l",,"0.00054","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","SW-846 6020A","RES","SC39163-03","ESAI","7440-62-
2","Vanadium","0","mg/l",,"0.00021","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","SW-846 6020A","RES","SC39163-03","ESAI","7440-66-
6","Zinc","0","mg/l",,"0.0039","MDL",,"TARGET",,,"0.0300","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","SW-846 6020A","RES","SC39163-03","ESAI","7782-49-
2","Selenium","0","mg/l",,"0.00050","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99","<"
"TF1-GT-111-091217","SW-846 8015B","RES","SC39163-03","ESAI","108-90-
7","Chlorobenzene","0.011","mg/l",,"-99","NA",,"SUR","90",,"-99","NA","YES","0.012",,,,"-99",
"TF1-GT-111-091217","SW-846 8015B","RES","SC39163-03","ESAI","84-15-
1","Orthoterphenyl","0.013","mg/l",,"-99","NA",,"SUR","104",,"-99","NA","YES","0.012",,,,"-99",
"TF1-GT-111-091217","SW-846 8015B","RES","SC39163-03","ESAI","PHCC8C44","C8-

C44","0.22","mg/l",,"0.051","MDL",,"TARGET",,,"0.20","RDL","YES","-99",,,,"-99",
"TF1-GT-111-091217","SW-846 8015B","RES","SC39163-03","ESAI","PHCE","Total
TPH","0.22","mg/l",,"0.051","MDL",,"TARGET",,,"0.20","RDL","YES","-99",,,,"-99",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","1024-57-3","Heptachlor
epoxide","0.019","µg/l","U","0.015","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1030","10","0.019",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","1031-07-8","Endosulfan
sulfate","0.019","µg/l","U","0.019","MDL",,"TARGET",,,"0.039","RDL","YES","-99",,"1030","10","0.019",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl
(Sr)","0.138","µg/l",,"-99","NA",,"SUR","71",,"-99","NA","YES","0.194",,"1030","10","-99",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","15972-60-
8","Alachlor","0.019","µg/l","U","0.018","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1030","10","0.019",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","2051-24-3","Decachlorobiphenyl
(Sr)","0.186","µg/l",,"-99","NA",,"SUR","96",,"-99","NA","YES","0.194",,"1030","10","-99",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","309-00-
2","Aldrin","0.019","µg/l","U","0.015","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1030","10","0.019",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","319-84-6","alpha-
BHC","0.019","µg/l","U","0.011","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1030","10","0.019",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","319-85-7","beta-
BHC","0.019","µg/l","U","0.014","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1030","10","0.019",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","319-86-8","delta-
BHC","0.019","µg/l","U","0.015","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1030","10","0.019",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","33213-65-9","Endosulfan
II","0.019","µg/l","U","0.019","MDL",,"TARGET",,,"0.039","RDL","YES","-99",,"1030","10","0.019",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","50-29-3","4,4'-DDT
(p,p')","0.029","µg/l","U","0.017","MDL",,"TARGET",,,"0.039","RDL","YES","-99",,"1030","10","0.029",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","5103-71-9","alpha-
Chlordane","0.019","µg/l","U","0.015","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1030","10","0.019",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","5103-74-2","Chlordane (gamma)
(trans)","0.019","µg/l","U","0.016","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1030","10","0.019",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","53494-70-5","Endrin
ketone","0.019","µg/l","U","0.017","MDL",,"TARGET",,,"0.039","RDL","YES","-99",,"1030","10","0.019",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","57-74-
9","Chlordane","0.063","µg/l","U","0.050","MDL",,"TARGET",,,"0.063","RDL","YES","-99",,"1030","10","0.063
",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","58-89-9","gamma-BHC
(Lindane)","0.019","µg/l","U","0.017","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1030","10","0.019",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","60-57-
1","Dieldrin","0.019","µg/l","U","0.017","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1030","10","0.019",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","72-20-
8","Endrin","0.019","µg/l","U","0.019","MDL",,"TARGET",,,"0.039","RDL","YES","-99",,"1030","10","0.019",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","72-43-
5","Methoxychlor","0.019","µg/l","U","0.018","MDL",,"TARGET",,,"0.039","RDL","YES","-99",,"1030","10","0.
019",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","72-54-8","4,4'-DDD
(p,p')","0.019","µg/l","U","0.018","MDL",,"TARGET",,,"0.039","RDL","YES","-99",,"1030","10","0.019",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","72-55-9","4,4'-DDE
(p,p')","0.019","µg/l","U","0.017","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1030","10","0.019",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","7421-93-4","Endrin
aldehyde","0.019","µg/l","U","0.019","MDL",,"TARGET",,,"0.039","RDL","YES","-99",,"1030","10","0.019",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","76-44-
8","Heptachlor","0.019","µg/l","U","0.019","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1030","10","0.01
9",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","8001-35-
2","Toxaphene","0.485","µg/l","U","0.318","MDL",,"TARGET",,,"0.485","RDL","YES","-99",,"1030","10","0.48
5",
"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","877-09-8","2,4,5,6-TC-M-Xylene
(IS)","0.020","µg/ml",,"-99","NA",,"ISTD","60",,"-99","NA","YES","10.0",,"1030","10","-99",

"TF1-GT-111-091217","SW846 8081B","RES","SC39163-03","ESAI","959-98-8","Endosulfan I","0.019","µg/l","U","0.016","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1030","10","0.019",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","100-41-4","Ethylbenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","100-42-5","Styrene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","10061-01-5","cis-1,3-Dichloropropene","0.5","µg/l","U","0.4","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","10061-02-6","trans-1,3-Dichloropropene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","106-46-7","1,4-Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","106-93-4","1,2-Dibromoethane (EDB)","0.5","µg/l","U","0.2","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","107-06-2","1,2-Dichloroethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","2.0","µg/l","U","0.5","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","108-87-2","Methylcyclohexane","2.0","µg/l","U","0.7","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","108-88-3","Toluene","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","108-90-7","Chlorobenzene","0.5","µg/l","U","0.2","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","110-82-7","Cyclohexane","2.0","µg/l","U","0.8","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","120-82-1","1,2,4-Trichlorobenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","124-48-1","Dibromochloromethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","127-18-4","Tetrachloroethene","1.0","µg/l","U","0.6","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","156-59-2","cis-1,2-Dichloroethene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","156-60-5","trans-1,2-Dichloroethene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","1634-04-4","Methyl tert-butyl ether","0.5","µg/l","U","0.2","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","17060-07-0","1,2-Dichloroethane-d4","49.6","µg/l",,"-99","NA",,"SUR","99",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","179601-23-1","m,p-Xylene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","1868-53-7","Dibromofluoromethane","48.8","µg/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","2037-26-5","Toluene-d8","48.8","µg/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","3114-55-4","Chlorobenzene-d5","50.0","µg/l",,"-99","NA",,"ISTD","101",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","µg/l",,"-99","NA",,"ISTD","98",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","460-00-4","4-Bromofluorobenzene","49.5","µg/l",,"-99","NA",,"SUR","99",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","462-06-6","Fluorobenzene","50.0","µg/l",,"-99","NA",,"ISTD","107",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","541-73-1","1,3-Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","56-23-5","Carbon

tetrachloride","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","591-78-6","2-Hexanone
(MBK)","2.0","µg/l","U","0.5","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","67-64-
1","Acetone","2.0","µg/l","U","0.8","MDL",,"TARGET",,,"10.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","67-66-
3","Chloroform","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","71-43-
2","Benzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","71-55-6","1,1,1-
Trichloroethane","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","74-83-
9","Bromomethane","2.0","µg/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","74-87-
3","Chloromethane","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","74-97-
5","Bromochloromethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","75-00-
3","Chloroethane","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","75-01-4","Vinyl
chloride","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","75-09-2","Methylene
chloride","2.0","µg/l","U","0.7","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","75-15-0","Carbon
disulfide","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","75-25-
2","Bromoform","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","75-27-
4","Bromodichloromethane","0.5","µg/l","U","0.4","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","75-34-3","1,1-
Dichloroethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","75-35-4","1,1-
Dichloroethene","1.0","µg/l","U","0.7","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","75-69-4","Trichlorofluoromethane (Freon
11)","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","75-71-8","Dichlorodifluoromethane
(Freon12)","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane
(Freon 113)","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","78-87-5","1,2-
Dichloropropane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","78-93-3","2-Butanone
(MEK)","2.0","µg/l","U","1.1","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","79-00-5","1,1,2-
Trichloroethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","79-01-
6","Trichloroethene","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","79-20-9","Methyl
acetate","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","79-34-5","1,1,2,2-
Tetrachloroethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","87-61-6","1,2,3-
Trichlorobenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","95-47-6","o-
Xylene","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","95-50-1","1,2-
Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",

"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","96-12-8","1,2-Dibromo-3-chloropropane","2.0","µg/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-111-091217","SW846 8260C","RES","SC39163-03","ESAI","98-82-8","Isopropylbenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","1146-65-2","Naphthalene-d8","40.0","µg/ml",,"-99","NA",,"ISTD","114",,"-99","NA","YES","40.0",,"1070","1","-99",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","120-12-7","Anthracene","0.935","µg/l","U","0.568","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","129-00-0","Pyrene","0.935","µg/l","U","0.570","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","15067-26-2","Acenaphthene-d10","40.0","µg/ml",,"-99","NA",,"ISTD","111",,"-99","NA","YES","40.0",,"1070","1","-99",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","1517-22-2","Phenanthrene-d10","40.0","µg/ml",,"-99","NA",,"ISTD","110",,"-99","NA","YES","40.0",,"1070","1","-99",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","1520-96-3","Perylene-d12","40.0","µg/ml",,"-99","NA",,"ISTD","112",,"-99","NA","YES","40.0",,"1070","1","-99",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","1718-51-0","Terphenyl-dl4","31.2","µg/l",,"-99","NA",,"SUR","67",,"-99","NA","YES","46.7",,"1070","1","-99",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","1719-03-5","Chrysene-d12","40.0","µg/ml",,"-99","NA",,"ISTD","113",,"-99","NA","YES","40.0",,"1070","1","-99",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","191-24-2","Benzo (g,h,i) perylene","0.935","µg/l","U","0.495","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","193-39-5","Indeno (1,2,3-cd) pyrene","0.935","µg/l","U","0.542","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","205-99-2","Benzo (b) fluoranthene","0.935","µg/l","U","0.408","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","206-44-0","Fluoranthene","0.935","µg/l","U","0.596","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","207-08-9","Benzo (k) fluoranthene","0.935","µg/l","U","0.449","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","208-96-8","Acenaphthylene","0.935","µg/l","U","0.638","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","218-01-9","Chrysene","0.935","µg/l","U","0.497","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","321-60-8","2-Fluorobiphenyl","26.2","µg/l",,"-99","NA",,"SUR","56",,"-99","NA","YES","46.7",,"1070","1","-99",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","4165-60-0","Nitrobenzene-d5","24.6","µg/l",,"-99","NA",,"SUR","53",,"-99","NA","YES","46.7",,"1070","1","-99",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","50-32-8","Benzo (a) pyrene","0.935","µg/l","U","0.525","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","53-70-3","Dibenzo (a,h) anthracene","0.935","µg/l","U","0.421","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","56-55-3","Benzo (a) anthracene","0.935","µg/l","U","0.501","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","83-32-9","Acenaphthene","0.935","µg/l","U","0.646","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","85-01-8","Phenanthrene","0.935","µg/l","U","0.548","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","86-73-7","Fluorene","0.935","µg/l","U","0.572","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","90-12-0","1-Methylnaphthalene","0.935","µg/l","U","0.685","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.9

35",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","91-20-3","Naphthalene","0.935","µg/l","U","0.640","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-111-091217","SW846 8270D","RES","SC39163-03","ESAI","91-57-6","2-Methylnaphthalene","0.935","µg/l","U","0.536","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-115-091217","EPA 200/6000 methods","RES","SC39163-02","ESAI","NA","Preservation","0","N/A",,"-99","NA",,"TARGET",,,"-99","NA","YES","-99",,"1","1","-99","Field Preserved; pH<2 confirmed"
"TF1-GT-115-091217","EPA 245.1/7470A","RES","SC39163-02","ESAI","7439-97-6","Mercury","0.00020","mg/l","U","0.00013","MDL",,"TARGET",,,"0.00020","RDL","YES","-99",,"20","20","0.00020",
"TF1-GT-115-091217","EPA 300.0","RES","SC39163-02","ESAI","14797-55-8","Nitrate as N","0.012","mg/l","J","0.007","MDL",,"TARGET",,,"0.100","RDL","YES","-99",,"5","5","0.100",
"TF1-GT-115-091217","EPA 300.0","RES","SC39163-02","ESAI","14808-79-8","Sulfate as SO4","1.00","mg/l","U","0.798","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"5","5","1.00",
"TF1-GT-115-091217","EPA 300.0","RES","SC39163-02","ESAI","16887-00-6","Chloride","8.40","mg/l",,"0.0994","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"5","5","0.100",
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","1763-23-1","Perfluoro-octanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","1763-23-1L","13C8-PFOS","39","ng/l",,"-99","NA",,"SUR","81",,"-99","NA","YES","48",,,,"-99",
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","2058-94-8","Perfluoroundecanoic acid","0","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","2058-94-8L","13C7-PFUnDA","33","ng/l",,"-99","NA",,"SUR","67",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","2706-90-3","Perfluoropentanoic Acid","4","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","2706-90-3L","13C5-PFPeA","48","ng/l",,"-99","NA",,"SUR","96",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","307-24-4","Perfluorohexanoic acid","5","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","307-24-4L","13C5-PFHxA","38","ng/l",,"-99","NA",,"SUR","76",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","307-55-1","Perfluorododecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","307-55-1L","13C2-PFDoDA","30","ng/l",,"-99","NA",,"SUR","60",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","335-67-1","Perfluorooctanoic acid","4","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","335-67-1L","13C8-PFOA","36","ng/l",,"-99","NA",,"SUR","73",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","335-76-2","Perfluorodecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","335-76-2L","13C6-PFDA","37","ng/l",,"-99","NA",,"SUR","73",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","335-77-3","Perfluorodecanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","355-46-4","Perfluorohexanesulfonate","5","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99",
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","355-46-4L","13C3-PFHxS","39","ng/l",,"-99","NA",,"SUR","82",,"-99","NA","YES","47",,,,"-99",
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","375-22-4","Perfluorobutanoic Acid","0","ng/l",,"3","MDL",,"TARGET",,,"10","RDL","YES","-99",,,,"-99","<"
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","375-22-4L","13C4-PFBA","40","ng/l",,"-99","NA",,"SUR","80",,"-99","NA","YES","50",,,,"-99",

"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","375-73-5","Perfluorobutanesulfonate","0.8","ng/l","Ja","0.8","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99",
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","375-73-5L","13C3-PFBS","53","ng/l",,"-99","NA",,"SUR","114",,"-99","NA","YES","47",,,,"-99",
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","375-85-9","Perfluoroheptanoic acid","3","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","375-85-9L","13C4-PFHpA","36","ng/l",,"-99","NA",,"SUR","72",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","375-92-8","Perfluoroheptanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","375-95-1","Perfluorononanoic acid","0","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","375-95-1L","13C9-PFNA","38","ng/l",,"-99","NA",,"SUR","75",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","376-06-7","Perfluorotetradecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","376-06-7L","13C2-PFTeDA","32","ng/l",,"-99","NA",,"SUR","63",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","72629-94-8","Perfluorotridecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","754-91-6","PFOSA","0","ng/l",,"3","MDL",,"TARGET",,,"9","RDL","YES","-99",,,,"-99","<"
"TF1-GT-115-091217","EPA 537 Modified","RES","SC39163-02","ESAI","754-91-6L","13C8-PFOSA","5","ng/l",,"-99","NA",,"SUR","10",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-115-091217","Mod EPA 3C/SOP RSK-175","RES","SC39163-02","ESAI","74-82-8","Methane","88.0","µg/l",,"2.16","MDL",,"TARGET",,,"2.20","RDL","YES","-99",,"10","10","2.20",
"TF1-GT-115-091217","Mod EPA 3C/SOP RSK-175","RES","SC39163-02","ESAI","74-84-0","Ethane","5.00","µg/l","U","3.48","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"10","10","5.00",
"TF1-GT-115-091217","SM18-22 5210B","RES","SC39163-02","ESAI","NA","Biochemical Oxygen Demand (5-day)","12.0","mg/l","BOD4","2.74","MDL",,"TARGET",,,"3.00","RDL","YES","-99",,"300","300","2.97",
"TF1-GT-115-091217","SM2320B (97, 11)","RES","SC39163-02","ESAI","NA","Total Alkalinity","70.3","mg/l CaCO3",,"1.05","MDL",,"TARGET",,,"4.00","RDL","YES","-99",,"50","50","3.00",
"TF1-GT-115-091217","SM5310B (00, 11)","RES","SC39163-02","ESAI","NA","Total Organic Carbon","5.07","mg/l",,"0.238","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"40","40","0.500",
"TF1-GT-115-091217","SW846 6010C","RES","SC39163-02","ESAI","7429-90-5","Aluminum","0.0656","mg/l",,"0.0206","MDL",,"TARGET",,,"0.0500","RDL","YES","-99",,"50","50","0.0500"
,
"TF1-GT-115-091217","SW846 6010C","RES","SC39163-02","ESAI","7439-89-6","Iron","49.6","mg/l","R06","0.0089","MDL",,"TARGET",,,"0.0800","RDL","YES","-99",,"50","50","0.0300",
"TF1-GT-115-091217","SW846 6010C","RES","SC39163-02","ESAI","7439-95-4","Magnesium","2.98","mg/l",,"0.0088","MDL",,"TARGET",,,"0.0200","RDL","YES","-99",,"50","50","0.0100",
"TF1-GT-115-091217","SW846 6010C","RES","SC39163-02","ESAI","7440-09-7","Potassium","3.62","mg/l",,"0.120","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"50","50","0.250",
"TF1-GT-115-091217","SW846 6010C","RES","SC39163-02","ESAI","7440-23-5","Sodium","5.00","mg/l",,"0.0785","MDL",,"TARGET",,,"0.500","RDL","YES","-99",,"50","50","0.250",
"TF1-GT-115-091217","SW846 6010C","RES","SC39163-02","ESAI","7440-70-2","Calcium","16.8","mg/l",,"0.0142","MDL",,"TARGET",,,"0.200","RDL","YES","-99",,"50","50","0.0500",
"TF1-GT-115-091217","SW-846 6020A","DL5","SC39163-02","ESAI","7439-96-5","Manganese","4.96","mg/l",,"0.0045","MDL",,"TARGET",,,"0.0200","RDL","YES","-99",,,,"-99",
"TF1-GT-115-091217","SW-846 6020A","DL5","SC39163-02","ESAI","7440-39-3","Barium","0.0101","mg/l","Ja","0.0036","MDL",,"TARGET",,,"0.0200","RDL","YES","-99",,,,"-99",
"TF1-GT-115-091217","SW-846 6020A","RES","SC39163-02","ESAI","7439-92-1","Lead","0.00028","mg/l","Ja","0.00011","MDL",,"TARGET",,,"0.0020","RDL","YES","-99",,,,"-99",
"TF1-GT-115-091217","SW-846 6020A","RES","SC39163-02","ESAI","7439-98-7","Molybdenum","0.0013","mg/l",,"0.00025","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-GT-115-091217","SW-846 6020A","RES","SC39163-02","ESAI","7440-02-0","Nickel","0","mg/l",,"0.0010","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99","<"

"TF1-GT-115-091217","SW-846 6020A","RES","SC39163-02","ESAI","7440-22-
4","Silver","0","mg/l",,"0.00015","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-115-091217","SW-846 6020A","RES","SC39163-02","ESAI","7440-28-
0","Thallium","0","mg/l",,"0.00012","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-115-091217","SW-846 6020A","RES","SC39163-02","ESAI","7440-36-
0","Antimony","0","mg/l",,"0.00045","MDL",,"TARGET",,,"0.0020","RDL","YES","-99",,,,"-99","<"
"TF1-GT-115-091217","SW-846 6020A","RES","SC39163-02","ESAI","7440-38-
2","Arsenic","0.137","mg/l",,"0.00072","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-115-091217","SW-846 6020A","RES","SC39163-02","ESAI","7440-41-
7","Beryllium","0","mg/l",,"0.000071","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-115-091217","SW-846 6020A","RES","SC39163-02","ESAI","7440-43-
9","Cadmium","0","mg/l",,"0.00015","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-115-091217","SW-846 6020A","RES","SC39163-02","ESAI","7440-47-
3","Chromium","0","mg/l",,"0.00087","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99","<"
"TF1-GT-115-091217","SW-846 6020A","RES","SC39163-02","ESAI","7440-48-
4","Cobalt","0.0028","mg/l",,"0.00016","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-GT-115-091217","SW-846 6020A","RES","SC39163-02","ESAI","7440-50-
8","Copper","0.0018","mg/l","Ja","0.00054","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-115-091217","SW-846 6020A","RES","SC39163-02","ESAI","7440-62-
2","Vanadium","0.00028","mg/l","Ja","0.00021","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-GT-115-091217","SW-846 6020A","RES","SC39163-02","ESAI","7440-66-
6","Zinc","0","mg/l",,"0.0039","MDL",,"TARGET",,,"0.0300","RDL","YES","-99",,,,"-99","<"
"TF1-GT-115-091217","SW-846 6020A","RES","SC39163-02","ESAI","7782-49-
2","Selenium","0","mg/l",,"0.00050","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99","<"
"TF1-GT-115-091217","SW-846 8015B","RES","SC39163-02","ESAI","108-90-
7","Chlorobenzene","0.014","mg/l",,"-99","NA",,"SUR","112",,"-99","NA","YES","0.012",,,,"-99",
"TF1-GT-115-091217","SW-846 8015B","RES","SC39163-02","ESAI","84-15-
1","Orthoterphenyl","0.011","mg/l",,"-99","NA",,"SUR","88",,"-99","NA","YES","0.012",,,,"-99",
"TF1-GT-115-091217","SW-846 8015B","RES","SC39163-02","ESAI","PHCC8C44","C8-
C44","0.64","mg/l",,"0.051","MDL",,"TARGET",,,"0.21","RDL","YES","-99",,,,"-99",
"TF1-GT-115-091217","SW-846 8015B","RES","SC39163-02","ESAI","PHCE","Total
TPH","0.64","mg/l",,"0.051","MDL",,"TARGET",,,"0.21","RDL","YES","-99",,,,"-99",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","1024-57-3","Heptachlor
epoxide","0.019","﾿g/l","U","0.015","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","1031-07-8","Endosulfan
sulfate","0.019","﾿g/l","U","0.019","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1040","10","0.019",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl
(Sr)","0.151","﾿g/l",,"-99","NA",,"SUR","79",,"-99","NA","YES","0.192",,"1040","10","-99",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","15972-60-
8","Alachlor","0.019","﾿g/l","U","0.018","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","2051-24-3","Decachlorobiphenyl
(Sr)","0.182","﾿g/l",,"-99","NA",,"SUR","95",,"-99","NA","YES","0.192",,"1040","10","-99",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","309-00-
2","Aldrin","0.019","﾿g/l","U","0.015","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","319-84-6","alpha-
BHC","0.019","﾿g/l","U","0.011","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","319-85-7","beta-
BHC","0.019","﾿g/l","U","0.014","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","319-86-8","delta-
BHC","0.019","﾿g/l","U","0.015","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","33213-65-9","Endosulfan
II","0.019","﾿g/l","U","0.019","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1040","10","0.019",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","50-29-3","4,4'-DDT
(p,p')","0.029","﾿g/l","U","0.017","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1040","10","0.029",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","5103-71-9","alpha-
Chlordane","0.019","﾿g/l","U","0.015","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","5103-74-2","Chlordane (gamma)

(trans)","0.019","µg/l","U","0.015","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","53494-70-5","Endrin
ketone","0.019","µg/l","U","0.017","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1040","10","0.019",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","57-74-
9","Chlordane","0.063","µg/l","U","0.049","MDL",,"TARGET",,,"0.063","RDL","YES","-99",,"1040","10","0.063
",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","58-89-9","gamma-BHC
(Lindane)","0.019","µg/l","U","0.017","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","60-57-
1","Dieldrin","0.019","µg/l","U","0.016","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","72-20-
8","Endrin","0.019","µg/l","U","0.018","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1040","10","0.019",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","72-43-
5","Methoxychlor","0.019","µg/l","U","0.018","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1040","10","0.
019",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","72-54-8","4,4'-DDD
(p,p')","0.019","µg/l","U","0.018","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1040","10","0.019",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","72-55-9","4,4'-DDE
(p,p')","0.019","µg/l","U","0.017","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","7421-93-4","Endrin
aldehyde","0.019","µg/l","U","0.018","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1040","10","0.019",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","76-44-
8","Heptachlor","0.019","µg/l","U","0.019","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.01
9",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","8001-35-
2","Toxaphene","0.481","µg/l","U","0.315","MDL",,"TARGET",,,"0.481","RDL","YES","-99",,"1040","10","0.48
1",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","877-09-8","2,4,5,6-TC-M-Xylene
(IS)","0.020","µg/ml",,"-99","NA",,"ISTD","66",,"-99","NA","YES","10.0",,"1040","10","-99",
"TF1-GT-115-091217","SW846 8081B","RES","SC39163-02","ESAI","959-98-8","Endosulfan
I","0.019","µg/l","U","0.016","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","100-41-
4","Ethylbenzene","0.6","µg/l","J","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","100-42-
5","Styrene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","10061-01-5","cis-1,3-
Dichloropropene","0.5","µg/l","U","0.4","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","10061-02-6","trans-1,3-
Dichloropropene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","106-46-7","1,4-
Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","106-93-4","1,2-Dibromoethane
(EDB)","0.5","µg/l","U","0.2","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","107-06-2","1,2-
Dichloroethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","108-10-1","4-Methyl-2-pentanone
(MIBK)","2.0","µg/l","U","0.5","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","108-87-
2","Methylcyclohexane","24.7","µg/l",,"0.7","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","108-88-
3","Toluene","0.5","µg/l","J","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","108-90-
7","Chlorobenzene","0.5","µg/l","U","0.2","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","110-82-
7","Cyclohexane","8.6","µg/l",,"0.8","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","120-82-1","1,2,4-
Trichlorobenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",

"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","124-48-1","Dibromochloromethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","127-18-4","Tetrachloroethene","1.0","µg/l","U","0.6","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","156-59-2","cis-1,2-Dichloroethene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","156-60-5","trans-1,2-Dichloroethene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","1634-04-4","Methyl tert-butyl ether","0.5","µg/l","U","0.2","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","17060-07-0","1,2-Dichloroethane-d4","48.6","µg/l",,"-99","NA",,"SUR","97",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","179601-23-1","m,p-Xylene","2.7","µg/l",,"0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","1868-53-7","Dibromofluoromethane","48.9","µg/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","2037-26-5","Toluene-d8","50.1","µg/l",,"-99","NA",,"SUR","100",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","3114-55-4","Chlorobenzene-d5","50.0","µg/l",,"-99","NA",,"ISTD","101",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","µg/l",,"-99","NA",,"ISTD","101",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","460-00-4","4-Bromofluorobenzene","50.3","µg/l",,"-99","NA",,"SUR","101",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","462-06-6","Fluorobenzene","50.0","µg/l",,"-99","NA",,"ISTD","104",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","541-73-1","1,3-Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","56-23-5","Carbon tetrachloride","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","591-78-6","2-Hexanone (MBK)","2.0","µg/l","U","0.5","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","67-64-1","Acetone","2.0","µg/l","U","0.8","MDL",,"TARGET",,,"10.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","67-66-3","Chloroform","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","71-43-2","Benzene","0.7","µg/l","J","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","71-55-6","1,1,1-Trichloroethane","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","74-83-9","Bromomethane","2.0","µg/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","74-87-3","Chloromethane","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","74-97-5","Bromochloromethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","75-00-3","Chloroethane","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","75-01-4","Vinyl chloride","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","75-09-2","Methylene chloride","2.0","µg/l","U","0.7","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","75-15-0","Carbon disulfide","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","75-25-2","Bromoform","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","75-27-

4","Bromodichloromethane","0.5","µg/l","U","0.4","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","75-34-3","1,1-
Dichloroethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","75-35-4","1,1-
Dichloroethene","1.0","µg/l","U","0.7","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","75-69-4","Trichlorofluoromethane (Freon
11)","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","75-71-8","Dichlorodifluoromethane
(Freon12)","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane
(Freon 113)","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","78-87-5","1,2-
Dichloropropane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","78-93-3","2-Butanone
(MEK)","2.0","µg/l","U","1.1","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","79-00-5","1,1,2-
Trichloroethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","79-01-
6","Trichloroethene","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","79-20-9","Methyl
acetate","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","79-34-5","1,1,2,2-
Tetrachloroethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","87-61-6","1,2,3-
Trichlorobenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","95-47-6","o-
Xylene","0.5","µg/l","J","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","95-50-1","1,2-
Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","96-12-8","1,2-Dibromo-3-
chloropropane","2.0","µg/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-115-091217","SW846 8260C","RES","SC39163-02","ESAI","98-82-
8","Isopropylbenzene","2.6","µg/l",,"0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","1146-65-2","Naphthalene-
d8","40.0","µg/ml",,"-99","NA",,"ISTD","115",,"-99","NA","YES","40.0",,"1070","1","-99",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","120-12-
7","Anthracene","0.935","µg/l","U","0.568","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935"
,
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","129-00-
0","Pyrene","0.935","µg/l","U","0.570","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","15067-26-2","Acenaphthene-
d10","40.0","µg/ml",,"-99","NA",,"ISTD","115",,"-99","NA","YES","40.0",,"1070","1","-99",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","1517-22-2","Phenanthrene-
d10","40.0","µg/ml",,"-99","NA",,"ISTD","115",,"-99","NA","YES","40.0",,"1070","1","-99",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","1520-96-3","Perylene-
d12","40.0","µg/ml",,"-99","NA",,"ISTD","117",,"-99","NA","YES","40.0",,"1070","1","-99",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","1718-51-0","Terphenyl-
dl4","31.1","µg/l",,"-99","NA",,"SUR","66",,"-99","NA","YES","46.7",,"1070","1","-99",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","1719-03-5","Chrysene-
d12","40.0","µg/ml",,"-99","NA",,"ISTD","118",,"-99","NA","YES","40.0",,"1070","1","-99",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","191-24-2","Benzo (g,h,i)
perylene","0.935","µg/l","U","0.495","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","193-39-5","Indeno (1,2,3-cd)
pyrene","0.935","µg/l","U","0.542","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","205-99-2","Benzo (b)
fluoranthene","0.935","µg/l","U","0.408","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","206-44-

0","Fluoranthene","0.935","g/l","U","0.596","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","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-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","208-96-8","Acenaphthylene","0.935","g/l","U","0.638","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","218-01-9","Chrysene","0.935","g/l","U","0.497","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","321-60-8","2-Fluorobiphenyl","26.2","g/l",,"-99","NA",,"SUR","56",,"-99","NA","YES","46.7",,"1070","1","-99",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","4165-60-0","Nitrobenzene-d5","25.1","g/l",,"-99","NA",,"SUR","54",,"-99","NA","YES","46.7",,"1070","1","-99",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","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-GT-115-091217","SW846 8270D","RES","SC39163-02","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-GT-115-091217","SW846 8270D","RES","SC39163-02","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-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","83-32-9","Acenaphthene","1.45","g/l","J","0.646","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","85-01-8","Phenanthrene","0.935","g/l","U","0.548","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","86-73-7","Fluorene","0.579","g/l","J","0.572","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","90-12-0","1-Methylnaphthalene","1.93","g/l","J","0.685","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","ESAI","91-20-3","Naphthalene","0.841","g/l","J","0.640","MDL",,"TARGET",,,"4.67","RDL","YES","-99",,"1070","1","0.935",
"TF1-GT-115-091217","SW846 8270D","RES","SC39163-02","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-GT-115-091217DUP","Mod EPA 3C/SOP RSK-175","RES","1716006-DUP1","ESAI","74-82-8","Methane","107","g/l",,"2.16","MDL",,"TARGET",,"19","2.20","RDL","YES","-99","TF1-GT-115-091217","10","10","2.20",
"TF1-GT-115-091217DUP","Mod EPA 3C/SOP RSK-175","RES","1716006-DUP1","ESAI","74-84-0","Ethane","5.00","g/l","U","3.48","MDL",,"TARGET",,,"5.00","RDL","YES","-99","TF1-GT-115-091217","10","10","5.00",
"TF1-GT-118-091217","EPA 200/6000 methods","RES","SC39163-04","ESAI","NA","Preservation","0","N/A",,"-99","NA",,"TARGET",,,"-99","NA","YES","-99",,"1","1","-99","Field Preserved; pH<2 confirmed"
"TF1-GT-118-091217","EPA 245.1/7470A","RES","SC39163-04","ESAI","7439-97-6","Mercury","0.00020","mg/l","U","0.00013","MDL",,"TARGET",,,"0.00020","RDL","YES","-99",,"20","20","0.00020",
"TF1-GT-118-091217","EPA 300.0","RES","SC39163-04","ESAI","14797-55-8","Nitrate as N","0.100","mg/l","U","0.007","MDL",,"TARGET",,,"0.100","RDL","YES","-99",,"5","5","0.100",
"TF1-GT-118-091217","EPA 300.0","RES","SC39163-04","ESAI","14808-79-8","Sulfate as SO4","11.0","mg/l",,"0.798","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"5","5","1.00",
"TF1-GT-118-091217","EPA 300.0","RES","SC39163-04","ESAI","16887-00-6","Chloride","7.43","mg/l",,"0.0994","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"5","5","0.100",
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","1763-23-1","Perfluoro-octanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","1763-23-1L","13C8-

PFOS","42","ng/l",,"-99","NA",,"SUR","87",,"-99","NA","YES","48",,,,"-99",
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","2058-94-8","Perfluoroundecanoic
acid","0","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","2058-94-8L","13C7-
PFUnDA","38","ng/l",,"-99","NA",,"SUR","76",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","2706-90-3","Perfluoropentanoic
Acid","2","ng/l","Ja","0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","2706-90-3L","13C5-
PFPeA","42","ng/l",,"-99","NA",,"SUR","84",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","307-24-4","Perfluorohexanoic
acid","1","ng/l","Ja","0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","307-24-4L","13C5-
PFHxA","46","ng/l",,"-99","NA",,"SUR","91",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","307-55-1","Perfluorododecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","307-55-1L","13C2-
PFDoDA","34","ng/l",,"-99","NA",,"SUR","68",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","335-67-1","Perfluorooctanoic
acid","0","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","335-67-1L","13C8-
PFOA","46","ng/l",,"-99","NA",,"SUR","93",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","335-76-2","Perfluorodecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","335-76-2L","13C6-
PFDA","45","ng/l",,"-99","NA",,"SUR","90",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","335-77-
3","Perfluorodecanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","355-46-
4","Perfluorohexanesulfonate","0","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","355-46-4L","13C3-
PFHxS","43","ng/l",,"-99","NA",,"SUR","90",,"-99","NA","YES","47",,,,"-99",
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","375-22-4","Perfluorobutanoic
Acid","0","ng/l",,"3","MDL",,"TARGET",,,"10","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","375-22-4L","13C4-
PFBA","41","ng/l",,"-99","NA",,"SUR","81",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","375-73-
5","Perfluorobutanesulfonate","0","ng/l",,"0.8","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","375-73-5L","13C3-
PFBS","46","ng/l",,"-99","NA",,"SUR","99",,"-99","NA","YES","47",,,,"-99",
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","375-85-9","Perfluoroheptanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","375-85-9L","13C4-
PFHpA","42","ng/l",,"-99","NA",,"SUR","83",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","375-92-
8","Perfluoroheptanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","375-95-1","Perfluorononanoic
acid","0","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","375-95-1L","13C9-
PFNA","43","ng/l",,"-99","NA",,"SUR","86",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","376-06-7","Perfluorotetradecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","376-06-7L","13C2-
PFTeDA","33","ng/l",,"-99","NA",,"SUR","67",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","72629-94-8","Perfluorotridecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","754-91-
6","PFOSA","0","ng/l",,"3","MDL",,"TARGET",,,"9","RDL","YES","-99",,,,"-99","<"

"TF1-GT-118-091217","EPA 537 Modified","RES","SC39163-04","ESAI","754-91-6L","13C8-PFOSA","9","ng/l",,"-99","NA",,"SUR","17",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-118-091217","Mod EPA 3C/SOP RSK-175","RES","SC39163-04","ESAI","74-82-8","Methane","2.20","g/l","U","2.16","MDL",,"TARGET",,,"2.20","RDL","YES","-99",,"10","10","2.20",
"TF1-GT-118-091217","Mod EPA 3C/SOP RSK-175","RES","SC39163-04","ESAI","74-84-0","Ethane","5.00","g/l","U","3.48","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"10","10","5.00",
"TF1-GT-118-091217","SM18-22 5210B","RES","SC39163-04","ESAI","NA","Biochemical Oxygen Demand (5-day)","3.00","mg/l","BOD4","2.74","MDL",,"TARGET",,,"3.00","RDL","YES","-99",,"300","300","2.97",
"TF1-GT-118-091217","SM2320B (97, 11)","RES","SC39163-04","ESAI","NA","Total Alkalinity","27.4","mg/l CaCO3",,"1.05","MDL",,"TARGET",,,"4.00","RDL","YES","-99",,"50","50","3.00",
"TF1-GT-118-091217","SM5310B (00, 11)","RES","SC39163-04","ESAI","NA","Total Organic Carbon","1.77","mg/l",,"0.238","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"40","40","0.500",
"TF1-GT-118-091217","SW846 6010C","RES","SC39163-04","ESAI","7429-90-5","Aluminum","0.0500","mg/l","U","0.0206","MDL",,"TARGET",,,"0.0500","RDL","YES","-99",,"50","50","0.0500",
"TF1-GT-118-091217","SW846 6010C","RES","SC39163-04","ESAI","7439-89-6","Iron","45.0","mg/l","R06","0.0089","MDL",,"TARGET",,,"0.0800","RDL","YES","-99",,"50","50","0.0300",
"TF1-GT-118-091217","SW846 6010C","RES","SC39163-04","ESAI","7439-95-4","Magnesium","1.80","mg/l",,"0.0088","MDL",,"TARGET",,,"0.0200","RDL","YES","-99",,"50","50","0.0100",
"TF1-GT-118-091217","SW846 6010C","RES","SC39163-04","ESAI","7440-09-7","Potassium","2.00","mg/l",,"0.120","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"50","50","0.250",
"TF1-GT-118-091217","SW846 6010C","RES","SC39163-04","ESAI","7440-23-5","Sodium","4.30","mg/l",,"0.0785","MDL",,"TARGET",,,"0.500","RDL","YES","-99",,"50","50","0.250",
"TF1-GT-118-091217","SW846 6010C","RES","SC39163-04","ESAI","7440-70-2","Calcium","8.69","mg/l",,"0.0142","MDL",,"TARGET",,,"0.200","RDL","YES","-99",,"50","50","0.0500",
"TF1-GT-118-091217","SW-846 6020A","RES","SC39163-04","ESAI","7439-92-1","Lead","0.00096","mg/l","Ja","0.00011","MDL",,"TARGET",,,"0.0020","RDL","YES","-99",,,,"-99",
"TF1-GT-118-091217","SW-846 6020A","RES","SC39163-04","ESAI","7439-96-5","Manganese","2.94","mg/l",,"0.00090","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-118-091217","SW-846 6020A","RES","SC39163-04","ESAI","7439-98-7","Molybdenum","0.0015","mg/l",,"0.00025","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-GT-118-091217","SW-846 6020A","RES","SC39163-04","ESAI","7440-02-0","Nickel","0.0057","mg/l",,"0.0010","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-118-091217","SW-846 6020A","RES","SC39163-04","ESAI","7440-22-4","Silver","0","mg/l",,"0.00015","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","SW-846 6020A","RES","SC39163-04","ESAI","7440-28-0","Thallium","0","mg/l",,"0.00012","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","SW-846 6020A","RES","SC39163-04","ESAI","7440-36-0","Antimony","0","mg/l",,"0.00045","MDL",,"TARGET",,,"0.0020","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","SW-846 6020A","RES","SC39163-04","ESAI","7440-38-2","Arsenic","0.0764","mg/l",,"0.00072","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-118-091217","SW-846 6020A","RES","SC39163-04","ESAI","7440-39-3","Barium","0.0083","mg/l",,"0.00072","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-118-091217","SW-846 6020A","RES","SC39163-04","ESAI","7440-41-7","Beryllium","0","mg/l",,"0.000071","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","SW-846 6020A","RES","SC39163-04","ESAI","7440-43-9","Cadmium","0","mg/l",,"0.00015","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","SW-846 6020A","RES","SC39163-04","ESAI","7440-47-3","Chromium","0","mg/l",,"0.00087","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","SW-846 6020A","RES","SC39163-04","ESAI","7440-48-4","Cobalt","0.0248","mg/l",,"0.00016","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-GT-118-091217","SW-846 6020A","RES","SC39163-04","ESAI","7440-50-8","Copper","0.0013","mg/l","Ja","0.00054","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-118-091217","SW-846 6020A","RES","SC39163-04","ESAI","7440-62-2","Vanadium","0","mg/l",,"0.00021","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","SW-846 6020A","RES","SC39163-04","ESAI","7440-66-6","Zinc","0","mg/l",,"0.0039","MDL",,"TARGET",,,"0.0300","RDL","YES","-99",,,,"-99","<"

"TF1-GT-118-091217","SW-846 6020A","RES","SC39163-04","ESAI","7782-49-
2","Selenium","0","mg/l",,"0.00050","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99","<"
"TF1-GT-118-091217","SW-846 8015B","RES","SC39163-04","ESAI","108-90-
7","Chlorobenzene","0.012","mg/l",,"-99","NA",,"SUR","94",,"-99","NA","YES","0.012",,,,"-99",
"TF1-GT-118-091217","SW-846 8015B","RES","SC39163-04","ESAI","84-15-
1","Orthoterphenyl","0.013","mg/l",,"-99","NA",,"SUR","103",,"-99","NA","YES","0.012",,,,"-99",
"TF1-GT-118-091217","SW-846 8015B","RES","SC39163-04","ESAI","PHCC8C44","C8-
C44","0.27","mg/l",,"0.051","MDL",,"TARGET",,,"0.20","RDL","YES","-99",,,,"-99",
"TF1-GT-118-091217","SW-846 8015B","RES","SC39163-04","ESAI","PHCE","Total
TPH","0.27","mg/l",,"0.051","MDL",,"TARGET",,,"0.20","RDL","YES","-99",,,,"-99",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","1024-57-3","Heptachlor
epoxide","0.020","µg/l","U","0.015","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1000","10","0.020",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","1031-07-8","Endosulfan
sulfate","0.020","µg/l","U","0.020","MDL",,"TARGET",,,"0.040","RDL","YES","-99",,"1000","10","0.020",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl
(Sr)","0.210","µg/l",,"-99","NA",,"SUR","105",,"-99","NA","YES","0.200",,"1000","10","-99",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","15972-60-
8","Alachlor","0.020","µg/l","U","0.019","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1000","10","0.020",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","2051-24-3","Decachlorobiphenyl
(Sr)","0.215","µg/l",,"-99","NA",,"SUR","108",,"-99","NA","YES","0.200",,"1000","10","-99",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","309-00-
2","Aldrin","0.020","µg/l","U","0.016","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1000","10","0.020",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","319-84-6","alpha-
BHC","0.020","µg/l","U","0.012","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1000","10","0.020",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","319-85-7","beta-
BHC","0.020","µg/l","U","0.015","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1000","10","0.020",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","319-86-8","delta-
BHC","0.020","µg/l","U","0.015","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1000","10","0.020",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","33213-65-9","Endosulfan
II","0.020","µg/l","U","0.020","MDL",,"TARGET",,,"0.040","RDL","YES","-99",,"1000","10","0.020",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","50-29-3","4,4'-DDT
(p,p')","0.030","µg/l","U","0.018","MDL",,"TARGET",,,"0.040","RDL","YES","-99",,"1000","10","0.030",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","5103-71-9","alpha-
Chlordane","0.020","µg/l","U","0.015","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1000","10","0.020",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","5103-74-2","Chlordane (gamma)
(trans)","0.020","µg/l","U","0.016","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1000","10","0.020",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","53494-70-5","Endrin
ketone","0.020","µg/l","U","0.017","MDL",,"TARGET",,,"0.040","RDL","YES","-99",,"1000","10","0.020",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","57-74-
9","Chlordane","0.065","µg/l","U","0.051","MDL",,"TARGET",,,"0.065","RDL","YES","-99",,"1000","10","0.065
",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","58-89-9","gamma-BHC
(Lindane)","0.020","µg/l","U","0.017","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1000","10","0.020",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","60-57-
1","Dieldrin","0.020","µg/l","U","0.017","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1000","10","0.020",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","72-20-
8","Endrin","0.020","µg/l","U","0.019","MDL",,"TARGET",,,"0.040","RDL","YES","-99",,"1000","10","0.020",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","72-43-
5","Methoxychlor","0.020","µg/l","U","0.018","MDL",,"TARGET",,,"0.040","RDL","YES","-99",,"1000","10","0.
020",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","72-54-8","4,4'-DDD
(p,p')","0.020","µg/l","U","0.019","MDL",,"TARGET",,,"0.040","RDL","YES","-99",,"1000","10","0.020",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","72-55-9","4,4'-DDE
(p,p')","0.020","µg/l","U","0.018","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1000","10","0.020",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","7421-93-4","Endrin
aldehyde","0.020","µg/l","U","0.019","MDL",,"TARGET",,,"0.040","RDL","YES","-99",,"1000","10","0.020",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","76-44-

8","Heptachlor","0.020","g/l","U","0.020","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1000","10","0.020",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","8001-35-2","Toxaphene","0.500","g/l","U","0.328","MDL",,"TARGET",,,"0.500","RDL","YES","-99",,"1000","10","0.500",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)","0.020","g/ml",,"-99","NA",,"ISTD","57",,"-99","NA","YES","10.0",,"1000","10","-99",
"TF1-GT-118-091217","SW846 8081B","RES","SC39163-04","ESAI","959-98-8","Endosulfan I","0.020","g/l","U","0.016","MDL",,"TARGET",,,"0.020","RDL","YES","-99",,"1000","10","0.020",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","100-41-4","Ethylbenzene","0.5","g/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","100-42-5","Styrene","1.0","g/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","108-87-2","Methylcyclohexane","2.0","g/l","U","0.7","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","108-88-3","Toluene","1.0","g/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","108-90-7","Chlorobenzene","0.5","g/l","U","0.2","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","110-82-7","Cyclohexane","2.0","g/l","U","0.8","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","124-48-1","Dibromochloromethane","0.5","g/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","127-18-4","Tetrachloroethene","1.0","g/l","U","0.6","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","17060-07-0","1,2-Dichloroethane-d4","48.1","g/l",,"-99","NA",,"SUR","96",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","1868-53-7","Dibromofluoromethane","48.6","g/l",,"-99","NA",,"SUR","97",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","2037-26-5","Toluene-d8","50.5","g/l",,"-99","NA",,"SUR","101",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","3114-55-4","Chlorobenzene-d5","50.0","g/l",,"-99","NA",,"ISTD","101",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","460-00-4","4-Bromofluorobenzene","47.8","g/l",,"-99","NA",,"SUR","96",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","462-06-6","Fluorobenzene","50.0","g/l",,"-99","NA",,"ISTD","105",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","67-64-1","Acetone","2.0","g/l","U","0.8","MDL",,"TARGET",,,"10.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","67-66-3","Chloroform","1.0","g/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","71-43-2","Benzene","0.5","g/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","74-83-9","Bromomethane","2.0","g/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","74-87-3","Chloromethane","1.0","g/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","74-97-5","Bromochloromethane","1.0","g/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","75-00-3","Chloroethane","2.0","g/l","U","0.6","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","75-25-2","Bromoform","1.0","g/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","75-27-4","Bromodichloromethane","0.5","g/l","U","0.4","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","79-01-6","Trichloroethene","1.0","g/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","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-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","79-34-5","1,1,2,2-

Tetrachloroethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","87-61-6","1,2,3-
Trichlorobenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","95-47-6","o-
Xylene","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","95-50-1","1,2-
Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","96-12-8","1,2-Dibromo-3-
chloropropane","2.0","µg/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-118-091217","SW846 8260C","RES","SC39163-04","ESAI","98-82-
8","Isopropylbenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","1146-65-2","Naphthalene-
d8","40.0","µg/ml",,"-99","NA",,"ISTD","114",,"-99","NA","YES","40.0",,"1020","1","-99",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","120-12-
7","Anthracene","0.980","µg/l","U","0.596","MDL",,"TARGET",,,"4.90","RDL","YES","-99",,"1020","1","0.980"
,
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","129-00-
0","Pyrene","0.980","µg/l","U","0.598","MDL",,"TARGET",,,"4.90","RDL","YES","-99",,"1020","1","0.980",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","15067-26-2","Acenaphthene-
d10","40.0","µg/ml",,"-99","NA",,"ISTD","113",,"-99","NA","YES","40.0",,"1020","1","-99",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","1517-22-2","Phenanthrene-
d10","40.0","µg/ml",,"-99","NA",,"ISTD","111",,"-99","NA","YES","40.0",,"1020","1","-99",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","1520-96-3","Perylene-
d12","40.0","µg/ml",,"-99","NA",,"ISTD","112",,"-99","NA","YES","40.0",,"1020","1","-99",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","1718-51-0","Terphenyl-
dl4","34.0","µg/l",,"-99","NA",,"SUR","69",,"-99","NA","YES","49.0",,"1020","1","-99",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","1719-03-5","Chrysene-
d12","40.0","µg/ml",,"-99","NA",,"ISTD","114",,"-99","NA","YES","40.0",,"1020","1","-99",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","191-24-2","Benzo (g,h,i)
perylene","0.980","µg/l","U","0.520","MDL",,"TARGET",,,"4.90","RDL","YES","-99",,"1020","1","0.980",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","193-39-5","Indeno (1,2,3-cd)
pyrene","0.980","µg/l","U","0.569","MDL",,"TARGET",,,"4.90","RDL","YES","-99",,"1020","1","0.980",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","205-99-2","Benzo (b)
fluoranthene","0.980","µg/l","U","0.428","MDL",,"TARGET",,,"4.90","RDL","YES","-99",,"1020","1","0.980",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","206-44-
0","Fluoranthene","0.980","µg/l","U","0.625","MDL",,"TARGET",,,"4.90","RDL","YES","-99",,"1020","1","0.98
0",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","207-08-9","Benzo (k)
fluoranthene","0.980","µg/l","U","0.471","MDL",,"TARGET",,,"4.90","RDL","YES","-99",,"1020","1","0.980",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","208-96-
8","Acenaphthylene","0.980","µg/l","U","0.670","MDL",,"TARGET",,,"4.90","RDL","YES","-99",,"1020","1","0.
980",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","218-01-
9","Chrysene","0.980","µg/l","U","0.522","MDL",,"TARGET",,,"4.90","RDL","YES","-99",,"1020","1","0.980",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","321-60-8","2-
Fluorobiphenyl","27.3","µg/l",,"-99","NA",,"SUR","56",,"-99","NA","YES","49.0",,"1020","1","-99",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","4165-60-0","Nitrobenzene-
d5","27.0","µg/l",,"-99","NA",,"SUR","55",,"-99","NA","YES","49.0",,"1020","1","-99",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","50-32-8","Benzo (a)
pyrene","0.980","µg/l","U","0.551","MDL",,"TARGET",,,"4.90","RDL","YES","-99",,"1020","1","0.980",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","53-70-3","Dibenzo (a,h)
anthracene","0.980","µg/l","U","0.441","MDL",,"TARGET",,,"4.90","RDL","YES","-99",,"1020","1","0.980",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","56-55-3","Benzo (a)
anthracene","0.980","µg/l","U","0.525","MDL",,"TARGET",,,"4.90","RDL","YES","-99",,"1020","1","0.980",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","83-32-
9","Acenaphthene","0.980","µg/l","U","0.677","MDL",,"TARGET",,,"4.90","RDL","YES","-99",,"1020","1","0.9
80",

"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","85-01-8","Phenanthrene","0.980","g/l","U","0.575","MDL",,"TARGET",,,"4.90","RDL","YES","-99",,"1020","1","0.980",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","86-73-7","Fluorene","0.980","g/l","U","0.600","MDL",,"TARGET",,,"4.90","RDL","YES","-99",,"1020","1","0.980",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","90-12-0","1-Methylnaphthalene","0.980","g/l","U","0.719","MDL",,"TARGET",,,"4.90","RDL","YES","-99",,"1020","1","0.980",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","91-20-3","Naphthalene","0.980","g/l","U","0.672","MDL",,"TARGET",,,"4.90","RDL","YES","-99",,"1020","1","0.980",
"TF1-GT-118-091217","SW846 8270D","RES","SC39163-04","ESAI","91-57-6","2-Methylnaphthalene","0.980","g/l","U","0.563","MDL",,"TARGET",,,"4.90","RDL","YES","-99",,"1020","1","0.980",
"TF1-GT-130-091217","EPA 200/6000 methods","RES","SC39163-01","ESAI","NA","Preservation","0","N/A",,"-99","NA",,"TARGET",,,"-99","NA","YES","-99",,"1","1","-99","Field Preserved; pH<2 confirmed"
"TF1-GT-130-091217","EPA 245.1/7470A","RES","SC39163-01","ESAI","7439-97-6","Mercury","0.00020","mg/l","U","0.00013","MDL",,"TARGET",,,"0.00020","RDL","YES","-99",,"20","20","0.00020",
"TF1-GT-130-091217","EPA 300.0","RES","SC39163-01","ESAI","14797-55-8","Nitrate as N","0.009","mg/l","J","0.007","MDL",,"TARGET",,,"0.100","RDL","YES","-99",,"5","5","0.100",
"TF1-GT-130-091217","EPA 300.0","RES","SC39163-01","ESAI","14808-79-8","Sulfate as SO4","34.0","mg/l",,"0.798","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"5","5","1.00",
"TF1-GT-130-091217","EPA 300.0","RES","SC39163-01","ESAI","16887-00-6","Chloride","9.29","mg/l",,"0.0994","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"5","5","0.100",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","1763-23-1","Perfluoro-octanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","1763-23-1L","13C8-PFOS","36","ng/l",,"-99","NA",,"SUR","75",,"-99","NA","YES","48",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","2058-94-8","Perfluoroundecanoic acid","0","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","2058-94-8L","13C7-PFUnDA","27","ng/l",,"-99","NA",,"SUR","55",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","2706-90-3","Perfluoropentanoic Acid","9","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","2706-90-3L","13C5-PFPeA","33","ng/l",,"-99","NA",,"SUR","66",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","307-24-4","Perfluorohexanoic acid","9","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","307-24-4L","13C5-PFHxA","39","ng/l",,"-99","NA",,"SUR","79",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","307-55-1","Perfluorododecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","307-55-1L","13C2-PFDoDA","26","ng/l",,"-99","NA",,"SUR","52",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","335-67-1","Perfluorooctanoic acid","12","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","335-67-1L","13C8-PFOA","34","ng/l",,"-99","NA",,"SUR","68",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","335-76-2","Perfluorodecanoic acid","2","ng/l","Ja","0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","335-76-2L","13C6-PFDA","31","ng/l",,"-99","NA",,"SUR","62",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","335-77-3","Perfluorodecanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","355-46-

4","Perfluorohexanesulfonate","20","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","355-46-4L","13C3-
PFHxS","40","ng/l",,"-99","NA",,"SUR","84",,"-99","NA","YES","47",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","375-22-4","Perfluorobutanoic
Acid","10","ng/l",,"3","MDL",,"TARGET",,,"10","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","375-22-4L","13C4-
PFBA","34","ng/l",,"-99","NA",,"SUR","69",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","375-73-
5","Perfluorobutanesulfonate","2","ng/l","Ja","0.8","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","375-73-5L","13C3-
PFBS","38","ng/l",,"-99","NA",,"SUR","82",,"-99","NA","YES","46",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","375-85-9","Perfluoroheptanoic
acid","7","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","375-85-9L","13C4-
PFHpA","31","ng/l",,"-99","NA",,"SUR","62",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","375-92-
8","Perfluoroheptanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","375-95-1","Perfluorononanoic
acid","1","ng/l","Ja","0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","375-95-1L","13C9-
PFNA","35","ng/l",,"-99","NA",,"SUR","69",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","376-06-7","Perfluorotetradecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","376-06-7L","13C2-
PFTeDA","26","ng/l",,"-99","NA",,"SUR","52",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","72629-94-8","Perfluorotridecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","754-91-
6","PFOSA","0","ng/l",,"3","MDL",,"TARGET",,,"9","RDL","YES","-99",,,,"-99","<"
"TF1-GT-130-091217","EPA 537 Modified","RES","SC39163-01","ESAI","754-91-6L","13C8-
PFOSA","5","ng/l",,"-99","NA",,"SUR","9",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-130-091217","Mod EPA 3C/SOP RSK-175","RES","SC39163-01","ESAI","74-82-
8","Methane","2.20","g/l","U","2.16","MDL",,"TARGET",,,"2.20","RDL","YES","-99",,"10","10","2.20",
"TF1-GT-130-091217","Mod EPA 3C/SOP RSK-175","RES","SC39163-01","ESAI","74-84-
0","Ethane","5.00","g/l","U","3.48","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"10","10","5.00",
"TF1-GT-130-091217","SM18-22 5210B","RES","SC39163-01","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-GT-130-091217","SM2320B (97, 11)","RES","SC39163-01","ESAI","NA","Total Alkalinity","48.8","mg/l
CaCO3",,"0.524","MDL",,"TARGET",,,"2.00","RDL","YES","-99",,"100","50","1.50",
"TF1-GT-130-091217","SM5310B (00, 11)","RES","SC39163-01","ESAI","NA","Total Organic
Carbon","1.68","mg/l",,"0.238","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"40","40","0.500",
"TF1-GT-130-091217","SW846 6010C","RES","SC39163-01","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-GT-130-091217","SW846 6010C","RES","SC39163-01","ESAI","7439-89-
6","Iron","14.1","mg/l","R06","0.0089","MDL",,"TARGET",,,"0.0800","RDL","YES","-99",,"50","50","0.0300",
"TF1-GT-130-091217","SW846 6010C","RES","SC39163-01","ESAI","7439-95-
4","Magnesium","3.51","mg/l",,"0.0088","MDL",,"TARGET",,,"0.0200","RDL","YES","-99",,"50","50","0.0100",
"TF1-GT-130-091217","SW846 6010C","RES","SC39163-01","ESAI","7440-09-
7","Potassium","2.56","mg/l",,"0.120","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"50","50","0.250",
"TF1-GT-130-091217","SW846 6010C","RES","SC39163-01","ESAI","7440-23-
5","Sodium","6.32","mg/l",,"0.0785","MDL",,"TARGET",,,"0.500","RDL","YES","-99",,"50","50","0.250",
"TF1-GT-130-091217","SW846 6010C","RES","SC39163-01","ESAI","7440-70-
2","Calcium","21.6","mg/l",,"0.0142","MDL",,"TARGET",,,"0.200","RDL","YES","-99",,"50","50","0.0500",
"TF1-GT-130-091217","SW-846 6020A","RES","SC39163-01","ESAI","7439-92-
1","Lead","0.00015","mg/l","Ja","0.00011","MDL",,"TARGET",,,"0.0020","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","SW-846 6020A","RES","SC39163-01","ESAI","7439-96-

5","Manganese","2.96","mg/l",,"0.00090","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","SW-846 6020A","RES","SC39163-01","ESAI","7439-98-
7","Molybdenum","0.00088","mg/l","Ja","0.00025","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","SW-846 6020A","RES","SC39163-01","ESAI","7440-02-
0","Nickel","0.0151","mg/l",,"0.0010","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","SW-846 6020A","RES","SC39163-01","ESAI","7440-22-
4","Silver","0","mg/l",,"0.00015","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-130-091217","SW-846 6020A","RES","SC39163-01","ESAI","7440-28-
0","Thallium","0.00022","mg/l","Ja","0.00012","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","SW-846 6020A","RES","SC39163-01","ESAI","7440-36-
0","Antimony","0","mg/l",,"0.00045","MDL",,"TARGET",,,"0.0020","RDL","YES","-99",,,,"-99","<"
"TF1-GT-130-091217","SW-846 6020A","RES","SC39163-01","ESAI","7440-38-
2","Arsenic","0.0563","mg/l",,"0.00072","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","SW-846 6020A","RES","SC39163-01","ESAI","7440-39-
3","Barium","0.0136","mg/l",,"0.00072","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","SW-846 6020A","RES","SC39163-01","ESAI","7440-41-
7","Beryllium","0","mg/l",,"0.000071","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-130-091217","SW-846 6020A","RES","SC39163-01","ESAI","7440-43-
9","Cadmium","0.0018","mg/l",,"0.00015","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","SW-846 6020A","RES","SC39163-01","ESAI","7440-47-
3","Chromium","0","mg/l",,"0.00087","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99","<"
"TF1-GT-130-091217","SW-846 6020A","RES","SC39163-01","ESAI","7440-48-
4","Cobalt","0.0792","mg/l",,"0.00016","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","SW-846 6020A","RES","SC39163-01","ESAI","7440-50-
8","Copper","0.00092","mg/l","Ja","0.00054","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","SW-846 6020A","RES","SC39163-01","ESAI","7440-62-
2","Vanadium","0","mg/l",,"0.00021","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-130-091217","SW-846 6020A","RES","SC39163-01","ESAI","7440-66-
6","Zinc","0.0475","mg/l",,"0.0039","MDL",,"TARGET",,,"0.0300","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","SW-846 6020A","RES","SC39163-01","ESAI","7782-49-
2","Selenium","0","mg/l",,"0.00050","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99","<"
"TF1-GT-130-091217","SW-846 8015B","RES","SC39163-01","ESAI","108-90-
7","Chlorobenzene","0.013","mg/l",,"-99","NA",,"SUR","85",,"-99","NA","YES","0.015",,,,"-99",
"TF1-GT-130-091217","SW-846 8015B","RES","SC39163-01","ESAI","84-15-
1","Orthoterphenyl","0.015","mg/l",,"-99","NA",,"SUR","99",,"-99","NA","YES","0.015",,,,"-99",
"TF1-GT-130-091217","SW-846 8015B","RES","SC39163-01","ESAI","PHCC8C44","C8-
C44","0.33","mg/l",,"0.062","MDL",,"TARGET",,,"0.25","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","SW-846 8015B","RES","SC39163-01","ESAI","PHCE","Total
TPH","0.33","mg/l",,"0.062","MDL",,"TARGET",,,"0.25","RDL","YES","-99",,,,"-99",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","1024-57-3","Heptachlor
epoxide","0.021","µg/l","U","0.016","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"940","10","0.021",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","1031-07-8","Endosulfan
sulfate","0.021","µg/l","U","0.021","MDL",,"TARGET",,,"0.043","RDL","YES","-99",,"940","10","0.021",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl
(Sr)","0.185","µg/l",,"-99","NA",,"SUR","87",,"-99","NA","YES","0.213",,"940","10","-99",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","15972-60-
8","Alachlor","0.021","µg/l","U","0.020","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"940","10","0.021",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","2051-24-3","Decachlorobiphenyl
(Sr)","0.212","µg/l",,"-99","NA",,"SUR","100",,"-99","NA","YES","0.213",,"940","10","-99",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","309-00-
2","Aldrin","0.021","µg/l","U","0.017","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"940","10","0.021",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","319-84-6","alpha-
BHC","0.021","µg/l","U","0.012","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"940","10","0.021",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","319-85-7","beta-
BHC","0.021","µg/l","U","0.016","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"940","10","0.021",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","319-86-8","delta-
BHC","0.021","µg/l","U","0.016","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"940","10","0.021",

"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","33213-65-9","Endosulfan
II","0.021","µg/l","U","0.021","MDL",,"TARGET",,,"0.043","RDL","YES","-99",,"940","10","0.021",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","50-29-3","4,4'-DDT
(p,p')","0.032","µg/l","U","0.019","MDL",,"TARGET",,,"0.043","RDL","YES","-99",,"940","10","0.032",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","5103-71-9","alpha-
Chlordane","0.021","µg/l","U","0.016","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"940","10","0.021",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","5103-74-2","Chlordane (gamma)
(trans)","0.021","µg/l","U","0.017","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"940","10","0.021",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","53494-70-5","Endrin
ketone","0.021","µg/l","U","0.018","MDL",,"TARGET",,,"0.043","RDL","YES","-99",,"940","10","0.021",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","57-74-
9","Chlordane","0.069","µg/l","U","0.055","MDL",,"TARGET",,,"0.069","RDL","YES","-99",,"940","10","0.069"
,
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","58-89-9","gamma-BHC
(Lindane)","0.021","µg/l","U","0.018","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"940","10","0.021",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","60-57-
1","Dieldrin","0.021","µg/l","U","0.018","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"940","10","0.021",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","72-20-
8","Endrin","0.021","µg/l","U","0.020","MDL",,"TARGET",,,"0.043","RDL","YES","-99",,"940","10","0.021",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","72-43-
5","Methoxychlor","0.021","µg/l","U","0.019","MDL",,"TARGET",,,"0.043","RDL","YES","-99",,"940","10","0.0
21",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","72-54-8","4,4'-DDD
(p,p')","0.021","µg/l","U","0.020","MDL",,"TARGET",,,"0.043","RDL","YES","-99",,"940","10","0.021",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","72-55-9","4,4'-DDE
(p,p')","0.021","µg/l","U","0.019","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"940","10","0.021",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","7421-93-4","Endrin
aldehyde","0.021","µg/l","U","0.020","MDL",,"TARGET",,,"0.043","RDL","YES","-99",,"940","10","0.021",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","76-44-
8","Heptachlor","0.021","µg/l","U","0.021","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"940","10","0.021
",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","8001-35-
2","Toxaphene","0.532","µg/l","U","0.349","MDL",,"TARGET",,,"0.532","RDL","YES","-99",,"940","10","0.532
",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","877-09-8","2,4,5,6-TC-M-Xylene
(IS)","0.020","µg/ml",,"-99","NA",,"ISTD","61",,"-99","NA","YES","10.0",,"940","10","-99",
"TF1-GT-130-091217","SW846 8081B","RES","SC39163-01","ESAI","959-98-8","Endosulfan
I","0.021","µg/l","U","0.017","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"940","10","0.021",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","100-41-
4","Ethylbenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","100-42-
5","Styrene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","10061-01-5","cis-1,3-
Dichloropropene","0.5","µg/l","U","0.4","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","10061-02-6","trans-1,3-
Dichloropropene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","106-46-7","1,4-
Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","106-93-4","1,2-Dibromoethane
(EDB)","0.5","µg/l","U","0.2","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","107-06-2","1,2-
Dichloroethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","108-10-1","4-Methyl-2-pentanone
(MIBK)","2.0","µg/l","U","0.5","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","108-87-
2","Methylcyclohexane","2.0","µg/l","U","0.7","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","108-88-

3","Toluene","1.0","◆g/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","108-90-
7","Chlorobenzene","0.5","◆g/l","U","0.2","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","110-82-
7","Cyclohexane","2.0","◆g/l","U","0.8","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","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-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","124-48-
1","Dibromochloromethane","0.5","◆g/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","127-18-
4","Tetrachloroethene","1.0","◆g/l","U","0.6","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","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-GT-130-091217","SW846 8260C","RES","SC39163-01","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-GT-130-091217","SW846 8260C","RES","SC39163-01","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-130-091217","SW846 8260C","RES","SC39163-01","ESAI","17060-07-0","1,2-Dichloroethane-
d4","49.2","◆g/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","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-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","1868-53-
7","Dibromofluoromethane","49.1","◆g/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","2037-26-5","Toluene-
d8","49.2","◆g/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","3114-55-4","Chlorobenzene-
d5","50.0","◆g/l",,"-99","NA",,"ISTD","100",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","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-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","460-00-4","4-
Bromofluorobenzene","49.4","◆g/l",,"-99","NA",,"SUR","99",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","462-06-
6","Fluorobenzene","50.0","◆g/l",,"-99","NA",,"ISTD","104",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","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-GT-130-091217","SW846 8260C","RES","SC39163-01","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-GT-130-091217","SW846 8260C","RES","SC39163-01","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-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","67-64-1","Acetone","1.4","◆g/l","O01,
J","0.8","MDL",,"TARGET",,,"10.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","67-66-
3","Chloroform","1.0","◆g/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","71-43-
2","Benzene","0.5","◆g/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","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-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","74-83-
9","Bromomethane","2.0","◆g/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","74-87-
3","Chloromethane","1.0","◆g/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","74-97-
5","Bromochloromethane","1.0","◆g/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","75-00-
3","Chloroethane","2.0","◆g/l","U","0.6","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","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-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","75-09-2","Methylene chloride","2.0","µg/l","U","0.7","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","75-15-0","Carbon disulfide","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","75-25-2","Bromoform","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","75-27-4","Bromodichloromethane","0.5","µg/l","U","0.4","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","75-34-3","1,1-Dichloroethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","75-35-4","1,1-Dichloroethene","1.0","µg/l","U","0.7","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","75-69-4","Trichlorofluoromethane (Freon 11)","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","75-71-8","Dichlorodifluoromethane (Freon12)","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane (Freon 113)","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","78-87-5","1,2-Dichloropropane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","78-93-3","2-Butanone (MEK)","2.0","µg/l","U","1.1","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","79-00-5","1,1,2-Trichloroethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","79-01-6","Trichloroethene","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","79-20-9","Methyl acetate","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","79-34-5","1,1,2,2-Tetrachloroethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","87-61-6","1,2,3-Trichlorobenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","95-47-6","o-Xylene","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","95-50-1","1,2-Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","96-12-8","1,2-Dibromo-3-chloropropane","2.0","µg/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GT-130-091217","SW846 8260C","RES","SC39163-01","ESAI","98-82-8","Isopropylbenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GT-130-091217","SW846 8270D","RES","SC39163-01","ESAI","1146-65-2","Naphthalene-d8","40.0","µg/ml",,"-99","NA",,"ISTD","117",,"-99","NA","YES","40.0",,"940","1","-99",
"TF1-GT-130-091217","SW846 8270D","RES","SC39163-01","ESAI","120-12-7","Anthracene","1.06","µg/l","U","0.647","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"TF1-GT-130-091217","SW846 8270D","RES","SC39163-01","ESAI","129-00-0","Pyrene","1.06","µg/l","U","0.649","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"TF1-GT-130-091217","SW846 8270D","RES","SC39163-01","ESAI","15067-26-2","Acenaphthene-d10","40.0","µg/ml",,"-99","NA",,"ISTD","116",,"-99","NA","YES","40.0",,"940","1","-99",
"TF1-GT-130-091217","SW846 8270D","RES","SC39163-01","ESAI","1517-22-2","Phenanthrene-d10","40.0","µg/ml",,"-99","NA",,"ISTD","114",,"-99","NA","YES","40.0",,"940","1","-99",
"TF1-GT-130-091217","SW846 8270D","RES","SC39163-01","ESAI","1520-96-3","Perylene-d12","40.0","µg/ml",,"-99","NA",,"ISTD","115",,"-99","NA","YES","40.0",,"940","1","-99",
"TF1-GT-130-091217","SW846 8270D","RES","SC39163-01","ESAI","1718-51-0","Terphenyl-dl4","35.8","µg/l",,"-99","NA",,"SUR","67",,"-99","NA","YES","53.2",,"940","1","-99",
"TF1-GT-130-091217","SW846 8270D","RES","SC39163-01","ESAI","1719-03-5","Chrysene-d12","40.0","µg/ml",,"-99","NA",,"ISTD","118",,"-99","NA","YES","40.0",,"940","1","-99",
"TF1-GT-130-091217","SW846 8270D","RES","SC39163-01","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-GT-130-091217","SW846 8270D","RES","SC39163-01","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-GT-130-091217","SW846 8270D","RES","SC39163-01","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-GT-130-091217","SW846 8270D","RES","SC39163-01","ESAI","206-44-
0","Fluoranthene","1.06","◆g/l","U","0.679","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"TF1-GT-130-091217","SW846 8270D","RES","SC39163-01","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-GT-130-091217","SW846 8270D","RES","SC39163-01","ESAI","208-96-
8","Acenaphthylene","1.06","◆g/l","U","0.727","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06
",
"TF1-GT-130-091217","SW846 8270D","RES","SC39163-01","ESAI","218-01-
9","Chrysene","1.06","◆g/l","U","0.566","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"TF1-GT-130-091217","SW846 8270D","RES","SC39163-01","ESAI","321-60-8","2-
Fluorobiphenyl","30.1","◆g/l",,"-99","NA",,"SUR","57",,"-99","NA","YES","53.2",,"940","1","-99",
"TF1-GT-130-091217","SW846 8270D","RES","SC39163-01","ESAI","4165-60-0","Nitrobenzene-
d5","29.2","◆g/l",,"-99","NA",,"SUR","55",,"-99","NA","YES","53.2",,"940","1","-99",
"TF1-GT-130-091217","SW846 8270D","RES","SC39163-01","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-GT-130-091217","SW846 8270D","RES","SC39163-01","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-GT-130-091217","SW846 8270D","RES","SC39163-01","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-GT-130-091217","SW846 8270D","RES","SC39163-01","ESAI","83-32-
9","Acenaphthene","1.06","◆g/l","U","0.735","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"TF1-GT-130-091217","SW846 8270D","RES","SC39163-01","ESAI","85-01-
8","Phenanthrene","1.06","◆g/l","U","0.623","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"TF1-GT-130-091217","SW846 8270D","RES","SC39163-01","ESAI","86-73-
7","Fluorene","1.06","◆g/l","U","0.651","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"TF1-GT-130-091217","SW846 8270D","RES","SC39163-01","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-GT-130-091217","SW846 8270D","RES","SC39163-01","ESAI","91-20-
3","Naphthalene","1.06","◆g/l","U","0.729","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"TF1-GT-130-091217","SW846 8270D","RES","SC39163-01","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-GT-130-091217DUP","SM5310B (00, 11)","RES","1716147-DUP1","ESAI","NA","Total Organic
Carbon","1.54","mg/l",,"0.238","MDL",,"TARGET",,"9","1.00","RDL","YES","-99","TF1-GT-130-
091217","40","40","0.500",
"TF1-GT-130-091217MS","SM5310B (00, 11)","RES","1716147-MS1","ESAI","NA","Total Organic
Carbon","6.28","mg/l",,"0.238","MDL",,"SPIKE","92",,"1.00","RDL","YES","5.00","TF1-GT-130-
091217","40","40","0.500",
"TF1-GT-130-091217MSD","SM5310B (00, 11)","RES","1716147-MSD1","ESAI","NA","Total Organic
Carbon","6.20","mg/l",,"0.238","MDL",,"SPIKE","90","1","1.00","RDL","YES","5.00","TF1-GT-130-
091217","40","40","0.500",
"TF1-GZ-106-091217","EPA 200/6000 methods","RES","SC39163-
07","ESAI","NA","Preservation","0","N/A",,"-99","NA",,"TARGET",,,"-99","NA","YES","-99",,"1","1","-99","Field
Preserved; pH<2 confirmed"
"TF1-GZ-106-091217","EPA 245.1/7470A","RES","SC39163-07","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-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","1763-23-1","Perfluoro-
octanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","1763-23-1L","13C8-
PFOS","41","ng/l",,"-99","NA",,"SUR","86",,"-99","NA","YES","48",,,,"-99",

"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","2058-94-8","Perfluoroundecanoic acid","0","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","2058-94-8L","13C7-PFUnDA","48","ng/l",,"-99","NA",,"SUR","96",,"-99","NA","YES","50",,,,"-99",
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","2706-90-3","Perfluoropentanoic Acid","1","ng/l","Ja","0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","2706-90-3L","13C5-PFPeA","46","ng/l",,"-99","NA",,"SUR","93",,"-99","NA","YES","50",,,,"-99",
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","307-24-4","Perfluorohexanoic acid","1","ng/l","Ja","0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","307-24-4L","13C5-PFHxA","44","ng/l",,"-99","NA",,"SUR","89",,"-99","NA","YES","50",,,,"-99",
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","307-55-1","Perfluorododecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","307-55-1L","13C2-PFDoDA","56","ng/l",,"-99","NA",,"SUR","112",,"-99","NA","YES","50",,,,"-99",
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","335-67-1","Perfluorooctanoic acid","2","ng/l","Ja","0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","335-67-1L","13C8-PFOA","47","ng/l",,"-99","NA",,"SUR","94",,"-99","NA","YES","50",,,,"-99",
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","335-76-2","Perfluorodecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","335-76-2L","13C6-PFDA","46","ng/l",,"-99","NA",,"SUR","92",,"-99","NA","YES","50",,,,"-99",
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","335-77-3","Perfluorodecanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","355-46-4","Perfluorohexanesulfonate","4","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99",
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","355-46-4L","13C3-PFHxS","44","ng/l",,"-99","NA",,"SUR","93",,"-99","NA","YES","47",,,,"-99",
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","375-22-4","Perfluorobutanoic Acid","0","ng/l",,"3","MDL",,"TARGET",,,"10","RDL","YES","-99",,,,"-99","<"
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","375-22-4L","13C4-PFBA","42","ng/l",,"-99","NA",,"SUR","84",,"-99","NA","YES","50",,,,"-99",
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","375-73-5","Perfluorobutanesulfonate","0.9","ng/l","Ja","0.8","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99",
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","375-73-5L","13C3-PFBS","47","ng/l",,"-99","NA",,"SUR","102",,"-99","NA","YES","46",,,,"-99",
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","375-85-9","Perfluoroheptanoic acid","0.9","ng/l","Ja","0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","375-85-9L","13C4-PFHpA","46","ng/l",,"-99","NA",,"SUR","92",,"-99","NA","YES","50",,,,"-99",
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","375-92-8","Perfluoroheptanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","375-95-1","Perfluorononanoic acid","0","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","375-95-1L","13C9-PFNA","45","ng/l",,"-99","NA",,"SUR","91",,"-99","NA","YES","50",,,,"-99",
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","376-06-7","Perfluorotetradecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","376-06-7L","13C2-PFTeDA","58","ng/l",,"-99","NA",,"SUR","117",,"-99","NA","YES","50",,,,"-99",
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","72629-94-8","Perfluorotridecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","754-91-6","PFOSA","0","ng/l",,"3","MDL",,"TARGET",,,"9","RDL","YES","-99",,,,"-99","<"
"TF1-GZ-106-091217","EPA 537 Modified","RES","SC39163-07","ESAI","754-91-6L","13C8-

PFOSA","12","ng/l",,"-99","NA",,"SUR","24",,"-99","NA","YES","50",,,,"-99",
"TF1-GZ-106-091217","Mod EPA 3C/SOP RSK-175","RES","SC39163-07","ESAI","74-82-
8","Methane","2.20","g/l","U","2.16","MDL",,"TARGET",,,"2.20","RDL","YES","-99",,"10","10","2.20",
"TF1-GZ-106-091217","Mod EPA 3C/SOP RSK-175","RES","SC39163-07","ESAI","74-84-
0","Ethane","12.0","g/l",,"3.48","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"10","10","5.00",
"TF1-GZ-106-091217","SM5310B (00, 11)","RES","SC39163-07","ESAI","NA","Total Organic
Carbon","0.482","mg/l","J","0.238","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"40","40","0.500",
"TF1-GZ-106-091217","SW846 6010C","RES","SC39163-07","ESAI","7429-90-
5","Aluminum","0.719","mg/l",,"0.0206","MDL",,"TARGET",,,"0.0500","RDL","YES","-99",,"50","50","0.0500",
"TF1-GZ-106-091217","SW846 6010C","RES","SC39163-07","ESAI","7439-89-
6","Iron","1.39","mg/l","R06","0.0089","MDL",,"TARGET",,,"0.0800","RDL","YES","-99",,"50","50","0.0300",
"TF1-GZ-106-091217","SW846 6010C","RES","SC39163-07","ESAI","7439-95-
4","Magnesium","4.56","mg/l",,"0.0088","MDL",,"TARGET",,,"0.0200","RDL","YES","-99",,"50","50","0.0100",
"TF1-GZ-106-091217","SW846 6010C","RES","SC39163-07","ESAI","7440-09-
7","Potassium","1.25","mg/l",,"0.120","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"50","50","0.250",
"TF1-GZ-106-091217","SW846 6010C","RES","SC39163-07","ESAI","7440-23-
5","Sodium","5.47","mg/l",,"0.0785","MDL",,"TARGET",,,"0.500","RDL","YES","-99",,"50","50","0.250",
"TF1-GZ-106-091217","SW846 6010C","RES","SC39163-07","ESAI","7440-70-
2","Calcium","9.04","mg/l",,"0.0142","MDL",,"TARGET",,,"0.200","RDL","YES","-99",,"50","50","0.0500",
"TF1-GZ-106-091217","SW-846 6020A","RES","SC39163-07","ESAI","7439-92-
1","Lead","0.0044","mg/l",,"0.00011","MDL",,"TARGET",,,"0.0020","RDL","YES","-99",,,,"-99",
"TF1-GZ-106-091217","SW-846 6020A","RES","SC39163-07","ESAI","7439-96-
5","Manganese","0.124","mg/l",,"0.00090","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GZ-106-091217","SW-846 6020A","RES","SC39163-07","ESAI","7439-98-
7","Molybdenum","0","mg/l",,"0.00025","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GZ-106-091217","SW-846 6020A","RES","SC39163-07","ESAI","7440-02-
0","Nickel","0.0347","mg/l",,"0.0010","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GZ-106-091217","SW-846 6020A","RES","SC39163-07","ESAI","7440-22-
4","Silver","0","mg/l",,"0.00015","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GZ-106-091217","SW-846 6020A","RES","SC39163-07","ESAI","7440-28-
0","Thallium","0","mg/l",,"0.00012","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GZ-106-091217","SW-846 6020A","RES","SC39163-07","ESAI","7440-36-
0","Antimony","0","mg/l",,"0.00045","MDL",,"TARGET",,,"0.0020","RDL","YES","-99",,,,"-99","<"
"TF1-GZ-106-091217","SW-846 6020A","RES","SC39163-07","ESAI","7440-38-
2","Arsenic","0.0026","mg/l","Ja","0.00072","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GZ-106-091217","SW-846 6020A","RES","SC39163-07","ESAI","7440-39-
3","Barium","0.0042","mg/l",,"0.00072","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GZ-106-091217","SW-846 6020A","RES","SC39163-07","ESAI","7440-41-
7","Beryllium","0.00015","mg/l","Ja","0.000071","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-GZ-106-091217","SW-846 6020A","RES","SC39163-07","ESAI","7440-43-
9","Cadmium","0.00018","mg/l","Ja","0.00015","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-GZ-106-091217","SW-846 6020A","RES","SC39163-07","ESAI","7440-47-
3","Chromium","0.0034","mg/l","Ja","0.00087","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GZ-106-091217","SW-846 6020A","RES","SC39163-07","ESAI","7440-48-
4","Cobalt","0.0039","mg/l",,"0.00016","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-GZ-106-091217","SW-846 6020A","RES","SC39163-07","ESAI","7440-50-
8","Copper","0.0108","mg/l",,"0.00054","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GZ-106-091217","SW-846 6020A","RES","SC39163-07","ESAI","7440-62-
2","Vanadium","0.0026","mg/l",,"0.00021","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-GZ-106-091217","SW-846 6020A","RES","SC39163-07","ESAI","7440-66-
6","Zinc","0.0299","mg/l","Ja","0.0039","MDL",,"TARGET",,,"0.0300","RDL","YES","-99",,,,"-99",
"TF1-GZ-106-091217","SW-846 6020A","RES","SC39163-07","ESAI","7782-49-
2","Selenium","0","mg/l",,"0.00050","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99","<"
"TF1-GZ-106-091217","SW-846 8015B","RES","SC39163-07","ESAI","108-90-
7","Chlorobenzene","0.011","mg/l",,"-99","NA",,"SUR","90",,"-99","NA","YES","0.012",,,,"-99",
"TF1-GZ-106-091217","SW-846 8015B","RES","SC39163-07","ESAI","84-15-
1","Orthoterphenyl","0.013","mg/l",,"-99","NA",,"SUR","104",,"-99","NA","YES","0.012",,,,"-99",

"TF1-GZ-106-091217","SW-846 8015B","RES","SC39163-07","ESAI","PHCC8C44","C8-C44","0.051","mg/l","U","0.051","MDL",,"TARGET",,,"0.21","RDL","YES","-99",,,,"-99",
"TF1-GZ-106-091217","SW-846 8015B","RES","SC39163-07","ESAI","PHCE","Total TPH","0","mg/l",,"0.051","MDL",,"TARGET",,,"0.21","RDL","YES","-99",,,,"-99","<"
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","100-41-4","Ethylbenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","100-42-5","Styrene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","10061-01-5","cis-1,3-Dichloropropene","0.5","µg/l","U","0.4","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","10061-02-6","trans-1,3-Dichloropropene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","106-46-7","1,4-Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","106-93-4","1,2-Dibromoethane (EDB)","0.5","µg/l","U","0.2","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","107-06-2","1,2-Dichloroethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","2.0","µg/l","U","0.5","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","108-87-2","Methylcyclohexane","2.0","µg/l","U","0.7","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","108-88-3","Toluene","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","108-90-7","Chlorobenzene","0.5","µg/l","U","0.2","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","110-82-7","Cyclohexane","2.0","µg/l","U","0.8","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","120-82-1","1,2,4-Trichlorobenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","124-48-1","Dibromochloromethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","127-18-4","Tetrachloroethene","1.0","µg/l","U","0.6","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","156-59-2","cis-1,2-Dichloroethene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","156-60-5","trans-1,2-Dichloroethene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","1634-04-4","Methyl tert-butyl ether","0.5","µg/l","U","0.2","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","17060-07-0","1,2-Dichloroethane-d4","48.5","µg/l",,"-99","NA",,"SUR","97",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","179601-23-1","m,p-Xylene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","1868-53-7","Dibromofluoromethane","49.2","µg/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","2037-26-5","Toluene-d8","48.4","µg/l",,"-99","NA",,"SUR","97",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","3114-55-4","Chlorobenzene-d5","50.0","µg/l",,"-99","NA",,"ISTD","99",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","µg/l",,"-99","NA",,"ISTD","96",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","460-00-4","4-Bromofluorobenzene","48.1","µg/l",,"-99","NA",,"SUR","96",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","462-06-6","Fluorobenzene","50.0","µg/l",,"-99","NA",,"ISTD","104",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","541-73-1","1,3-

Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","56-23-5","Carbon
tetrachloride","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","591-78-6","2-Hexanone
(MBK)","2.0","µg/l","U","0.5","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","67-64-
1","Acetone","2.0","µg/l","U","0.8","MDL",,"TARGET",,,"10.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","67-66-
3","Chloroform","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","71-43-
2","Benzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","71-55-6","1,1,1-
Trichloroethane","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","74-83-
9","Bromomethane","2.0","µg/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","74-87-
3","Chloromethane","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","74-97-
5","Bromochloromethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","75-00-
3","Chloroethane","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","75-01-4","Vinyl
chloride","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","75-09-2","Methylene
chloride","2.0","µg/l","U","0.7","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","75-15-0","Carbon
disulfide","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","75-25-
2","Bromoform","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","75-27-
4","Bromodichloromethane","0.5","µg/l","U","0.4","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","75-34-3","1,1-
Dichloroethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","75-35-4","1,1-
Dichloroethene","1.0","µg/l","U","0.7","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","75-69-4","Trichlorofluoromethane (Freon
11)","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","75-71-8","Dichlorodifluoromethane
(Freon12)","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane
(Freon 113)","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","78-87-5","1,2-
Dichloropropane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","78-93-3","2-Butanone
(MEK)","2.0","µg/l","U","1.1","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","79-00-5","1,1,2-
Trichloroethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","79-01-
6","Trichloroethene","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","79-20-9","Methyl
acetate","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","79-34-5","1,1,2,2-
Tetrachloroethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","87-61-6","1,2,3-
Trichlorobenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","95-47-6","o-
Xylene","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",

"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","95-50-1","1,2-Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","96-12-8","1,2-Dibromo-3-chloropropane","2.0","µg/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-GZ-106-091217","SW846 8260C","RES","SC39163-07","ESAI","98-82-8","Isopropylbenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","1146-65-2","Naphthalene-d8","40.0","µg/ml",,"-99","NA",,"ISTD","105",,"-99","NA","YES","40.0",,"1060","1","-99",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","120-12-7","Anthracene","0.943","µg/l","U","0.574","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","129-00-0","Pyrene","0.943","µg/l","U","0.575","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","15067-26-2","Acenaphthene-d10","40.0","µg/ml",,"-99","NA",,"ISTD","100",,"-99","NA","YES","40.0",,"1060","1","-99",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","1517-22-2","Phenanthrene-d10","40.0","µg/ml",,"-99","NA",,"ISTD","101",,"-99","NA","YES","40.0",,"1060","1","-99",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","1520-96-3","Perylene-d12","40.0","µg/ml",,"-99","NA",,"ISTD","100",,"-99","NA","YES","40.0",,"1060","1","-99",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","1718-51-0","Terphenyl-dl4","33.6","µg/l",,"-99","NA",,"SUR","71",,"-99","NA","YES","47.2",,"1060","1","-99",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","1719-03-5","Chrysene-d12","40.0","µg/ml",,"-99","NA",,"ISTD","102",,"-99","NA","YES","40.0",,"1060","1","-99",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","191-24-2","Benzo (g,h,i) perylene","0.943","µg/l","U","0.500","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","193-39-5","Indeno (1,2,3-cd) pyrene","0.943","µg/l","U","0.547","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","205-99-2","Benzo (b) fluoranthene","0.943","µg/l","U","0.412","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","206-44-0","Fluoranthene","0.943","µg/l","U","0.602","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","207-08-9","Benzo (k) fluoranthene","0.943","µg/l","U","0.453","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","208-96-8","Acenaphthylene","0.943","µg/l","U","0.644","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","218-01-9","Chrysene","0.943","µg/l","U","0.502","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","321-60-8","2-Fluorobiphenyl","27.7","µg/l",,"-99","NA",,"SUR","59",,"-99","NA","YES","47.2",,"1060","1","-99",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","4165-60-0","Nitrobenzene-d5","27.0","µg/l",,"-99","NA",,"SUR","57",,"-99","NA","YES","47.2",,"1060","1","-99",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","50-32-8","Benzo (a) pyrene","0.943","µg/l","U","0.530","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","53-70-3","Dibenzo (a,h) anthracene","0.943","µg/l","U","0.425","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","56-55-3","Benzo (a) anthracene","0.943","µg/l","U","0.506","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","83-32-9","Acenaphthene","0.943","µg/l","U","0.652","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","85-01-8","Phenanthrene","0.943","µg/l","U","0.553","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","86-73-7","Fluorene","0.943","µg/l","U","0.577","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943",

"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","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-GZ-106-091217","SW846 8270D","RES","SC39163-07","ESAI","91-20-3","Naphthalene","0.943","g/l","U","0.646","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943",
"TF1-GZ-106-091217","SW846 8270D","RES","SC39163-07","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-GZ-106-091217DUP","SW846 6010C","RES","1716281-DUP1","ESAI","7429-90-5","Aluminum","0.703","mg/l",,"0.0206","MDL",,"TARGET",,"2","0.0500","RDL","YES","-99","TF1-GZ-106-091217","50","50","0.0500",
"TF1-GZ-106-091217DUP","SW846 6010C","RES","1716281-DUP1","ESAI","7439-89-6","Iron","1.42","mg/l","R06","0.0089","MDL",,"TARGET",,"2","0.0800","RDL","YES","-99","TF1-GZ-106-091217","50","50","0.0300",
"TF1-GZ-106-091217DUP","SW846 6010C","RES","1716281-DUP1","ESAI","7439-95-4","Magnesium","4.38","mg/l",,"0.0088","MDL",,"TARGET",,"4","0.0200","RDL","YES","-99","TF1-GZ-106-091217","50","50","0.0100",
"TF1-GZ-106-091217DUP","SW846 6010C","RES","1716281-DUP1","ESAI","7440-23-5","Sodium","5.43","mg/l",,"0.0785","MDL",,"TARGET",,"0.7","0.500","RDL","YES","-99","TF1-GZ-106-091217","50","50","0.250",
"TF1-GZ-106-091217DUP","SW846 6010C","RES","1716281-DUP1","ESAI","7440-70-2","Calcium","8.95","mg/l",,"0.0142","MDL",,"TARGET",,"1","0.200","RDL","YES","-99","TF1-GZ-106-091217","50","50","0.0500",
"TF1-GZ-106-091217DUP","SW846 6010C","RES","1716533-DUP1","ESAI","7440-09-7","Potassium","1.24","mg/l",,"0.120","MDL",,"TARGET",,"0.7","1.00","RDL","YES","-99","TF1-GZ-106-091217","50","50","0.250",
"TF1-GZ-106-091217MS","SW846 6010C","RES","1716281-MS1","ESAI","7429-90-5","Aluminum","4.25","mg/l","QM8","0.0206","MDL",,"SPIKE","141",,"0.0500","RDL","YES","2.50","TF1-GZ-106-091217","50","50","0.0500",
"TF1-GZ-106-091217MS","SW846 6010C","RES","1716281-MS1","ESAI","7439-89-6","Iron","4.32","mg/l","QM8","0.0089","MDL",,"SPIKE","117",,"0.0800","RDL","YES","2.50","TF1-GZ-106-091217","50","50","0.0300",
"TF1-GZ-106-091217MS","SW846 6010C","RES","1716281-MS1","ESAI","7439-95-4","Magnesium","6.75","mg/l",,"0.0088","MDL",,"SPIKE","88",,"0.0200","RDL","YES","2.50","TF1-GZ-106-091217","50","50","0.0100",
"TF1-GZ-106-091217MS","SW846 6010C","RES","1716281-MS1","ESAI","7440-23-5","Sodium","17.2","mg/l",,"0.0785","MDL",,"SPIKE","94",,"0.500","RDL","YES","12.5","TF1-GZ-106-091217","50","50","0.250",
"TF1-GZ-106-091217MS","SW846 6010C","RES","1716281-MS1","ESAI","7440-70-2","Calcium","21.7","mg/l",,"0.0142","MDL",,"SPIKE","102",,"0.200","RDL","YES","12.5","TF1-GZ-106-091217","50","50","0.0500",
"TF1-GZ-106-091217MS","SW846 6010C","RES","1716533-MS1","ESAI","7440-09-7","Potassium","25.7","mg/l",,"0.120","MDL",,"SPIKE","98",,"1.00","RDL","YES","25.0","TF1-GZ-106-091217","50","50","0.250",
"TF1-GZ-106-091217MSD","SW846 6010C","RES","1716281-MSD1","ESAI","7429-90-5","Aluminum","4.09","mg/l","QM8","0.0206","MDL",,"SPIKE","135","4","0.0500","RDL","YES","2.50","TF1-GZ-106-091217","50","50","0.0500",
"TF1-GZ-106-091217MSD","SW846 6010C","RES","1716281-MSD1","ESAI","7439-89-6","Iron","4.38","mg/l","QM8","0.0089","MDL",,"SPIKE","120","1","0.0800","RDL","YES","2.50","TF1-GZ-106-091217","50","50","0.0300",
"TF1-GZ-106-091217MSD","SW846 6010C","RES","1716281-MSD1","ESAI","7439-95-4","Magnesium","6.98","mg/l",,"0.0088","MDL",,"SPIKE","97","3","0.0200","RDL","YES","2.50","TF1-GZ-106-091217","50","50","0.0100",
"TF1-GZ-106-091217MSD","SW846 6010C","RES","1716281-MSD1","ESAI","7440-23-5","Sodium","17.6","mg/l",,"0.0785","MDL",,"SPIKE","97","2","0.500","RDL","YES","12.5","TF1-GZ-106-091217","50","50","0.250",

"TF1-GZ-106-091217MSD","SW846 6010C","RES","1716281-MSD1","ESAI","7440-70-2","Calcium","21.9","mg/l",,"0.0142","MDL",,"SPIKE","103","0.8","0.200","RDL","YES","12.5","TF1-GZ-106-091217","50","50","0.0500",
"TF1-GZ-106-091217MSD","SW846 6010C","RES","1716533-MSD1","ESAI","7440-09-7","Potassium","26.1","mg/l",,"0.120","MDL",,"SPIKE","100","2","1.00","RDL","YES","25.0","TF1-GZ-106-091217","50","50","0.250",
"TF1-GZ-106-091217PS","SW846 6010C","RES","1716281-PS1","ESAI","7429-90-5","Aluminum","3.40","mg/l",,"0.0206","MDL",,"SPIKE","107",,"0.0500","RDL","YES","2.50","TF1-GZ-106-091217","50","50","0.0500",
"TF1-GZ-106-091217PS","SW846 6010C","RES","1716281-PS1","ESAI","7439-89-6","Iron","4.24","mg/l",,"0.0089","MDL",,"SPIKE","114",,"0.0800","RDL","YES","2.50","TF1-GZ-106-091217","50","50","0.0300",
"TF1-GZ-106-091217PS","SW846 6010C","RES","1716281-PS1","ESAI","7439-95-4","Magnesium","7.12","mg/l",,"0.0088","MDL",,"SPIKE","102",,"0.0200","RDL","YES","2.50","TF1-GZ-106-091217","50","50","0.0100",
"TF1-GZ-106-091217PS","SW846 6010C","RES","1716281-PS1","ESAI","7440-23-5","Sodium","17.7","mg/l",,"0.0785","MDL",,"SPIKE","98",,"0.500","RDL","YES","12.5","TF1-GZ-106-091217","50","50","0.250",
"TF1-GZ-106-091217PS","SW846 6010C","RES","1716281-PS1","ESAI","7440-70-2","Calcium","21.9","mg/l",,"0.0142","MDL",,"SPIKE","103",,"0.200","RDL","YES","12.5","TF1-GZ-106-091217","50","50","0.0500",
"TF1-GZ-106-091217PS","SW846 6010C","RES","1716533-PS1","ESAI","7440-09-7","Potassium","25.5","mg/l",,"0.120","MDL",,"SPIKE","97",,"1.00","RDL","YES","25.0","TF1-GZ-106-091217","50","50","0.250",
"TF1-MW-1004-091217","EPA 200/6000 methods","RES","SC39163-06","ESAI","NA","Preservation","0","N/A",,"-99","NA",,"TARGET",,,"-99","NA","YES","-99",,"1","1","-99","Field Preserved; pH<2 confirmed"
"TF1-MW-1004-091217","EPA 245.1/7470A","RES","SC39163-06","ESAI","7439-97-6","Mercury","0.00020","mg/l","U","0.00013","MDL",,"TARGET",,,"0.00020","RDL","YES","-99",,"20","20","0.00020",
"TF1-MW-1004-091217","EPA 300.0","RES","SC39163-06","ESAI","14797-55-8","Nitrate as N","0.100","mg/l","U","0.007","MDL",,"TARGET",,,"0.100","RDL","YES","-99",,"5","5","0.100",
"TF1-MW-1004-091217","EPA 300.0","RES","SC39163-06","ESAI","14808-79-8","Sulfate as SO4","34.9","mg/l",,"0.798","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"5","5","1.00",
"TF1-MW-1004-091217","EPA 300.0","RES","SC39163-06","ESAI","16887-00-6","Chloride","36.9","mg/l",,"0.0994","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"5","5","0.100",
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","1763-23-1","Perfluoro-octanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","1763-23-1L","13C8-PFOS","37","ng/l",,"-99","NA",,"SUR","77",,"-99","NA","YES","48",,,,"-99",
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","2058-94-8","Perfluoroundecanoic acid","0","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","2058-94-8L","13C7-PFUnDA","32","ng/l",,"-99","NA",,"SUR","64",,"-99","NA","YES","50",,,,"-99",
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","2706-90-3","Perfluoropentanoic Acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","2706-90-3L","13C5-PFPeA","36","ng/l",,"-99","NA",,"SUR","72",,"-99","NA","YES","50",,,,"-99",
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","307-24-4","Perfluorohexanoic acid","0","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","307-24-4L","13C5-PFHxA","40","ng/l",,"-99","NA",,"SUR","81",,"-99","NA","YES","50",,,,"-99",
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","307-55-1","Perfluorododecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","307-55-1L","13C2-PFDoDA","29","ng/l",,"-99","NA",,"SUR","58",,"-99","NA","YES","50",,,,"-99",
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","335-67-1","Perfluorooctanoic

acid","0","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","335-67-1L","13C8-
PFOA","37","ng/l",,"-99","NA",,"SUR","74",,"-99","NA","YES","50",,,,"-99",
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","335-76-2","Perfluorodecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","335-76-2L","13C6-
PFDA","37","ng/l",,"-99","NA",,"SUR","74",,"-99","NA","YES","50",,,,"-99",
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","335-77-
3","Perfluorodecanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","355-46-
4","Perfluorohexanesulfonate","0","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","355-46-4L","13C3-
PFHxS","42","ng/l",,"-99","NA",,"SUR","88",,"-99","NA","YES","47",,,,"-99",
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","375-22-4","Perfluorobutanoic
Acid","0","ng/l",,"3","MDL",,"TARGET",,,"10","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","375-22-4L","13C4-
PFBA","37","ng/l",,"-99","NA",,"SUR","73",,"-99","NA","YES","50",,,,"-99",
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","375-73-
5","Perfluorobutanesulfonate","0","ng/l",,"0.8","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","375-73-5L","13C3-
PFBS","37","ng/l",,"-99","NA",,"SUR","79",,"-99","NA","YES","47",,,,"-99",
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","375-85-9","Perfluoroheptanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","375-85-9L","13C4-
PFHpA","41","ng/l",,"-99","NA",,"SUR","82",,"-99","NA","YES","50",,,,"-99",
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","375-92-
8","Perfluoroheptanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","375-95-1","Perfluorononanoic
acid","0","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","375-95-1L","13C9-
PFNA","36","ng/l",,"-99","NA",,"SUR","71",,"-99","NA","YES","50",,,,"-99",
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","376-06-7","Perfluorotetradecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","376-06-7L","13C2-
PFTeDA","30","ng/l",,"-99","NA",,"SUR","60",,"-99","NA","YES","50",,,,"-99",
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","72629-94-8","Perfluorotridecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","754-91-
6","PFOSA","0","ng/l",,"3","MDL",,"TARGET",,,"9","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","EPA 537 Modified","RES","SC39163-06","ESAI","754-91-6L","13C8-
PFOSA","5","ng/l",,"-99","NA",,"SUR","10",,"-99","NA","YES","50",,,,"-99",
"TF1-MW-1004-091217","Mod EPA 3C/SOP RSK-175","RES","SC39163-06","ESAI","74-82-
8","Methane","2.20","µg/l","U","2.16","MDL",,"TARGET",,,"2.20","RDL","YES","-99",,"10","10","2.20",
"TF1-MW-1004-091217","Mod EPA 3C/SOP RSK-175","RES","SC39163-06","ESAI","74-84-
0","Ethane","5.00","µg/l","U","3.48","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"10","10","5.00",
"TF1-MW-1004-091217","SM18-22 5210B","RES","SC39163-06","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-MW-1004-091217","SM2320B (97, 11)","RES","SC39163-06","ESAI","NA","Total Alkalinity","25.6","mg/l
CaCO3",,"0.524","MDL",,"TARGET",,,"2.00","RDL","YES","-99",,"100","50","1.50",
"TF1-MW-1004-091217","SM5310B (00, 11)","RES","SC39163-06","ESAI","NA","Total Organic
Carbon","0.428","mg/l","J","0.238","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"40","40","0.500",
"TF1-MW-1004-091217","SW846 6010C","RES","SC39163-06","ESAI","7429-90-
5","Aluminum","1.08","mg/l",,"0.0206","MDL",,"TARGET",,,"0.0500","RDL","YES","-99",,"50","50","0.0500",
"TF1-MW-1004-091217","SW846 6010C","RES","SC39163-06","ESAI","7439-89-
6","Iron","0.786","mg/l","R06","0.0089","MDL",,"TARGET",,,"0.0800","RDL","YES","-99",,"50","50","0.0300",
"TF1-MW-1004-091217","SW846 6010C","RES","SC39163-06","ESAI","7439-95-
4","Magnesium","9.24","mg/l",,"0.0088","MDL",,"TARGET",,,"0.0200","RDL","YES","-99",,"50","50","0.0100",

"TF1-MW-1004-091217","SW846 6010C","RES","SC39163-06","ESAI","7440-09-
7","Potassium","1.19","mg/l",,"0.120","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"50","50","0.250",
"TF1-MW-1004-091217","SW846 6010C","RES","SC39163-06","ESAI","7440-23-
5","Sodium","13.4","mg/l",,"0.0785","MDL",,"TARGET",,,"0.500","RDL","YES","-99",,"50","50","0.250",
"TF1-MW-1004-091217","SW846 6010C","RES","SC39163-06","ESAI","7440-70-
2","Calcium","17.6","mg/l",,"0.0142","MDL",,"TARGET",,,"0.200","RDL","YES","-99",,"50","50","0.0500",
"TF1-MW-1004-091217","SW-846 6020A","RES","SC39163-06","ESAI","7439-92-
1","Lead","0.00059","mg/l","Ja","0.00011","MDL",,"TARGET",,,"0.0020","RDL","YES","-99",,,,"-99",
"TF1-MW-1004-091217","SW-846 6020A","RES","SC39163-06","ESAI","7439-96-
5","Manganese","0.316","mg/l",,"0.00090","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-MW-1004-091217","SW-846 6020A","RES","SC39163-06","ESAI","7439-98-
7","Molybdenum","0","mg/l",,"0.00025","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","SW-846 6020A","RES","SC39163-06","ESAI","7440-02-
0","Nickel","0.108","mg/l",,"0.0010","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-MW-1004-091217","SW-846 6020A","RES","SC39163-06","ESAI","7440-22-
4","Silver","0","mg/l",,"0.00015","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","SW-846 6020A","RES","SC39163-06","ESAI","7440-28-
0","Thallium","0","mg/l",,"0.00012","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","SW-846 6020A","RES","SC39163-06","ESAI","7440-36-
0","Antimony","0","mg/l",,"0.00045","MDL",,"TARGET",,,"0.0020","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","SW-846 6020A","RES","SC39163-06","ESAI","7440-38-
2","Arsenic","0.0014","mg/l","Ja","0.00072","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-MW-1004-091217","SW-846 6020A","RES","SC39163-06","ESAI","7440-39-
3","Barium","0.0215","mg/l",,"0.00072","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-MW-1004-091217","SW-846 6020A","RES","SC39163-06","ESAI","7440-41-
7","Beryllium","0","mg/l",,"0.000071","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","SW-846 6020A","RES","SC39163-06","ESAI","7440-43-
9","Cadmium","0.00029","mg/l","Ja","0.00015","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-MW-1004-091217","SW-846 6020A","RES","SC39163-06","ESAI","7440-47-
3","Chromium","0.0013","mg/l","Ja","0.00087","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-MW-1004-091217","SW-846 6020A","RES","SC39163-06","ESAI","7440-48-
4","Cobalt","0.0068","mg/l",,"0.00016","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-MW-1004-091217","SW-846 6020A","RES","SC39163-06","ESAI","7440-50-
8","Copper","0.0016","mg/l","Ja","0.00054","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-MW-1004-091217","SW-846 6020A","RES","SC39163-06","ESAI","7440-62-
2","Vanadium","0.00072","mg/l","Ja","0.00021","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-MW-1004-091217","SW-846 6020A","RES","SC39163-06","ESAI","7440-66-
6","Zinc","0.0957","mg/l",,"0.0039","MDL",,"TARGET",,,"0.0300","RDL","YES","-99",,,,"-99",
"TF1-MW-1004-091217","SW-846 6020A","RES","SC39163-06","ESAI","7782-49-
2","Selenium","0","mg/l",,"0.00050","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","SW-846 8015B","RES","SC39163-06","ESAI","108-90-
7","Chlorobenzene","0.011","mg/l",,"-99","NA",,"SUR","85",,"-99","NA","YES","0.013",,,,"-99",
"TF1-MW-1004-091217","SW-846 8015B","RES","SC39163-06","ESAI","84-15-
1","Orthoterphenyl","0.013","mg/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","0.013",,,,"-99",
"TF1-MW-1004-091217","SW-846 8015B","RES","SC39163-06","ESAI","PHCC8C44","C8-
C44","0","mg/l",,"0.053","MDL",,"TARGET",,,"0.21","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","SW-846 8015B","RES","SC39163-06","ESAI","PHCE","Total
TPH","0","mg/l",,"0.053","MDL",,"TARGET",,,"0.21","RDL","YES","-99",,,,"-99","<"
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","1024-57-3","Heptachlor
epoxide","0.019","﹪g/l","U","0.015","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","1031-07-8","Endosulfan
sulfate","0.019","﹪g/l","U","0.019","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1040","10","0.019",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","10386-84-2","4,4-DB-
Octafluorobiphenyl
(Sr)","0.167","﹪g/l",,"-99","NA",,"SUR","87",,"-99","NA","YES","0.192",,"1040","10","-99",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","15972-60-
8","Alachlor","0.019","﹪g/l","U","0.018","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",

"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","2051-24-3","Decachlorobiphenyl
(Sr)","0.231","g/l",,"-99","NA",,"SUR","120",,"-99","NA","YES","0.192",,"1040","10","-99",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","309-00-
2","Aldrin","0.019","g/l","U","0.015","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","319-84-6","alpha-
BHC","0.019","g/l","U","0.011","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","319-85-7","beta-
BHC","0.019","g/l","U","0.014","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","319-86-8","delta-
BHC","0.019","g/l","U","0.015","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","33213-65-9","Endosulfan
II","0.019","g/l","U","0.019","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1040","10","0.019",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","50-29-3","4,4'-DDT
(p,p')","0.029","g/l","U","0.017","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1040","10","0.029",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","5103-71-9","alpha-
Chlordane","0.019","g/l","U","0.015","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","5103-74-2","Chlordane (gamma)
(trans)","0.019","g/l","U","0.015","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","53494-70-5","Endrin
ketone","0.019","g/l","U","0.017","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1040","10","0.019",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","57-74-
9","Chlordane","0.063","g/l","U","0.049","MDL",,"TARGET",,,"0.063","RDL","YES","-99",,"1040","10","0.063
",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","58-89-9","gamma-BHC
(Lindane)","0.019","g/l","U","0.017","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","60-57-
1","Dieldrin","0.019","g/l","U","0.016","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","72-20-
8","Endrin","0.019","g/l","U","0.018","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1040","10","0.019",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","72-43-
5","Methoxychlor","0.019","g/l","U","0.018","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1040","10","0.
019",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","72-54-8","4,4'-DDD
(p,p')","0.019","g/l","U","0.018","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1040","10","0.019",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","72-55-9","4,4'-DDE
(p,p')","0.019","g/l","U","0.017","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","7421-93-4","Endrin
aldehyde","0.019","g/l","U","0.018","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1040","10","0.019",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","76-44-
8","Heptachlor","0.019","g/l","U","0.019","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.01
9",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","8001-35-
2","Toxaphene","0.481","g/l","U","0.315","MDL",,"TARGET",,,"0.481","RDL","YES","-99",,"1040","10","0.48
1",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","877-09-8","2,4,5,6-TC-M-Xylene
(IS)","0.020","g/ml",,"-99","NA",,"ISTD","64",,"-99","NA","YES","10.0",,"1040","10","-99",
"TF1-MW-1004-091217","SW846 8081B","RES","SC39163-06","ESAI","959-98-8","Endosulfan
I","0.019","g/l","U","0.016","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1040","10","0.019",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","100-41-
4","Ethylbenzene","0.5","g/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","100-42-
5","Styrene","1.0","g/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","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-MW-1004-091217","SW846 8260C","RES","SC39163-06","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-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","106-46-7","1,4-

Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","106-93-4","1,2-Dibromoethane
(EDB)","0.5","µg/l","U","0.2","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","107-06-2","1,2-
Dichloroethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","108-10-1","4-Methyl-2-pentanone
(MIBK)","2.0","µg/l","U","0.5","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","108-87-
2","Methylcyclohexane","2.0","µg/l","U","0.7","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","108-88-
3","Toluene","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","108-90-
7","Chlorobenzene","0.5","µg/l","U","0.2","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","110-82-
7","Cyclohexane","2.0","µg/l","U","0.8","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","120-82-1","1,2,4-
Trichlorobenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","124-48-
1","Dibromochloromethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","127-18-
4","Tetrachloroethene","1.0","µg/l","U","0.6","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","156-59-2","cis-1,2-
Dichloroethene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","156-60-5","trans-1,2-
Dichloroethene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","1634-04-4","Methyl tert-butyl
ether","3.2","µg/l",,"0.2","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","17060-07-0","1,2-Dichloroethane-
d4","49.8","µg/l",,"-99","NA",,"SUR","100",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","179601-23-1","m,p-
Xylene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","1868-53-
7","Dibromofluoromethane","49.3","µg/l",,"-99","NA",,"SUR","99",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","2037-26-5","Toluene-
d8","49.2","µg/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","3114-55-4","Chlorobenzene-
d5","50.0","µg/l",,"-99","NA",,"ISTD","98",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","3855-82-1","1,4-Dichlorobenzene-
d4","50.0","µg/l",,"-99","NA",,"ISTD","95",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","460-00-4","4-
Bromofluorobenzene","48.9","µg/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","462-06-
6","Fluorobenzene","50.0","µg/l",,"-99","NA",,"ISTD","104",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","541-73-1","1,3-
Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","56-23-5","Carbon
tetrachloride","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","591-78-6","2-Hexanone
(MBK)","2.0","µg/l","U","0.5","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","67-64-
1","Acetone","2.0","µg/l","U","0.8","MDL",,"TARGET",,,"10.0","RDL","YES","-99",,"5","5","2.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","67-66-
3","Chloroform","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","71-43-
2","Benzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","74-83-
9","Bromomethane","2.0","µg/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",

"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","74-87-
3","Chloromethane","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","74-97-
5","Bromochloromethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","75-00-
3","Chloroethane","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","75-01-4","Vinyl
chloride","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","75-09-2","Methylene
chloride","2.0","µg/l","U","0.7","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","75-15-0","Carbon
disulfide","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","75-25-
2","Bromoform","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","75-27-
4","Bromodichloromethane","0.5","µg/l","U","0.4","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","75-34-3","1,1-
Dichloroethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","75-35-4","1,1-
Dichloroethene","1.0","µg/l","U","0.7","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","75-69-4","Trichlorofluoromethane
(Freon 11)","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","75-71-8","Dichlorodifluoromethane
(Freon12)","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","76-13-1","1,1,2-
Trichlorotrifluoroethane (Freon
113)","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","78-87-5","1,2-
Dichloropropane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","78-93-3","2-Butanone
(MEK)","2.0","µg/l","U","1.1","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","79-01-
6","Trichloroethene","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","79-20-9","Methyl
acetate","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","79-34-5","1,1,2,2-
Tetrachloroethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","87-61-6","1,2,3-
Trichlorobenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","95-47-6","o-
Xylene","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","95-50-1","1,2-
Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","96-12-8","1,2-Dibromo-3-
chloropropane","2.0","µg/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-MW-1004-091217","SW846 8260C","RES","SC39163-06","ESAI","98-82-
8","Isopropylbenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-MW-1004-091217","SW846 8270D","RES","SC39163-06","ESAI","1146-65-2","Naphthalene-
d8","40.0","µg/ml",,"-99","NA",,"ISTD","116",,"-99","NA","YES","40.0",,"1060","1","-99",
"TF1-MW-1004-091217","SW846 8270D","RES","SC39163-06","ESAI","120-12-
7","Anthracene","0.943","µg/l","U","0.574","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943"
,
"TF1-MW-1004-091217","SW846 8270D","RES","SC39163-06","ESAI","129-00-
0","Pyrene","0.943","µg/l","U","0.575","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943",
"TF1-MW-1004-091217","SW846 8270D","RES","SC39163-06","ESAI","15067-26-2","Acenaphthene-
d10","40.0","µg/ml",,"-99","NA",,"ISTD","113",,"-99","NA","YES","40.0",,"1060","1","-99",
"TF1-MW-1004-091217","SW846 8270D","RES","SC39163-06","ESAI","1517-22-2","Phenanthrene-

d10","40.0","g/ml",,"-99","NA",,"ISTD","112",,"-99","NA","YES","40.0",,"1060","1","-99",
"TF1-MW-1004-091217","SW846 8270D","RES","SC39163-06","ESAI","1520-96-3","Perylene-
d12","40.0","g/ml",,"-99","NA",,"ISTD","115",,"-99","NA","YES","40.0",,"1060","1","-99",
"TF1-MW-1004-091217","SW846 8270D","RES","SC39163-06","ESAI","1718-51-0","Terphenyl-
dl4","32.5","g/l",,"-99","NA",,"SUR","69",,"-99","NA","YES","47.2",,"1060","1","-99",
"TF1-MW-1004-091217","SW846 8270D","RES","SC39163-06","ESAI","1719-03-5","Chrysene-
d12","40.0","g/ml",,"-99","NA",,"ISTD","116",,"-99","NA","YES","40.0",,"1060","1","-99",
"TF1-MW-1004-091217","SW846 8270D","RES","SC39163-06","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-MW-1004-091217","SW846 8270D","RES","SC39163-06","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-MW-1004-091217","SW846 8270D","RES","SC39163-06","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-MW-1004-091217","SW846 8270D","RES","SC39163-06","ESAI","206-44-
0","Fluoranthene","0.943","g/l","U","0.602","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.94
3",
"TF1-MW-1004-091217","SW846 8270D","RES","SC39163-06","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-MW-1004-091217","SW846 8270D","RES","SC39163-06","ESAI","208-96-
8","Acenaphthylene","0.943","g/l","U","0.644","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.
943",
"TF1-MW-1004-091217","SW846 8270D","RES","SC39163-06","ESAI","218-01-
9","Chrysene","0.943","g/l","U","0.502","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943",
"TF1-MW-1004-091217","SW846 8270D","RES","SC39163-06","ESAI","321-60-8","2-
Fluorobiphenyl","23.8","g/l",,"-99","NA",,"SUR","50",,"-99","NA","YES","47.2",,"1060","1","-99",
"TF1-MW-1004-091217","SW846 8270D","RES","SC39163-06","ESAI","4165-60-0","Nitrobenzene-
d5","23.4","g/l",,"-99","NA",,"SUR","50",,"-99","NA","YES","47.2",,"1060","1","-99",
"TF1-MW-1004-091217","SW846 8270D","RES","SC39163-06","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-MW-1004-091217","SW846 8270D","RES","SC39163-06","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-MW-1004-091217","SW846 8270D","RES","SC39163-06","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-MW-1004-091217","SW846 8270D","RES","SC39163-06","ESAI","83-32-
9","Acenaphthene","0.943","g/l","U","0.652","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.9
43",
"TF1-MW-1004-091217","SW846 8270D","RES","SC39163-06","ESAI","85-01-
8","Phenanthrene","0.943","g/l","U","0.553","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.94
3",
"TF1-MW-1004-091217","SW846 8270D","RES","SC39163-06","ESAI","86-73-
7","Fluorene","0.943","g/l","U","0.577","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943",
"TF1-MW-1004-091217","SW846 8270D","RES","SC39163-06","ESAI","90-12-0","1-
Methylnaphthalene","0.943","g/l","U","0.692","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.9
43",
"TF1-MW-1004-091217","SW846 8270D","RES","SC39163-06","ESAI","91-20-
3","Naphthalene","0.943","g/l","U","0.646","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.943
",
"TF1-MW-1004-091217","SW846 8270D","RES","SC39163-06","ESAI","91-57-6","2-
Methylnaphthalene","0.943","g/l","U","0.542","MDL",,"TARGET",,,"4.72","RDL","YES","-99",,"1060","1","0.9
43",
"TF1-MW-1004-091217DUP","EPA 300.0","RES","1715726-DUP1","ESAI","14797-55-8","Nitrate as
N","0.100","mg/l","U","0.007","MDL",,"TARGET",,,"0.100","RDL","YES","-99","TF1-MW-1004-
091217","5","5","0.100",
"TF1-MW-1004-091217DUP","EPA 300.0","RES","1715726-DUP1","ESAI","14808-79-8","Sulfate as
SO4","35.0","mg/l",,"0.798","MDL",,"TARGET",,"0.1","1.00","RDL","YES","-99","TF1-MW-1004-
091217","5","5","1.00",
"TF1-MW-1004-091217DUP","EPA 300.0","RES","1715726-DUP1","ESAI","16887-00-

6","Chloride","37.0","mg/l",,"0.0994","MDL",,"TARGET",,"0.2","1.00","RDL","YES","-99","TF1-MW-1004-091217","5","5","0.100",
"TF1-MW-1004-091217MS","EPA 300.0","RES","1715726-MS1","ESAI","14797-55-8","Nitrate as N","0.824","mg/l",,"0.007","MDL",,"SPIKE","103",,"0.100","RDL","YES","0.800","TF1-MW-1004-091217","5","5","0.100",
"TF1-MW-1004-091217MS","EPA 300.0","RES","1715726-MS1","ESAI","14808-79-8","Sulfate as SO4","42.3","mg/l",,"0.798","MDL",,"SPIKE","92",,"1.00","RDL","YES","8.00","TF1-MW-1004-091217","5","5","1.00",
"TF1-MW-1004-091217MS","EPA 300.0","RES","1715726-MS1","ESAI","16887-00-6","Chloride","44.5","mg/l",,"0.0994","MDL",,"SPIKE","95",,"1.00","RDL","YES","8.00","TF1-MW-1004-091217","5","5","0.100",
"TF1-MW-1004-091217MSD","EPA 300.0","RES","1715726-MSD1","ESAI","14797-55-8","Nitrate as N","0.827","mg/l",,"0.007","MDL",,"SPIKE","103","0.4","0.100","RDL","YES","0.800","TF1-MW-1004-091217","5","5","0.100",
"TF1-MW-1004-091217MSD","EPA 300.0","RES","1715726-MSD1","ESAI","14808-79-8","Sulfate as SO4","42.4","mg/l",,"0.798","MDL",,"SPIKE","93","0.1","1.00","RDL","YES","8.00","TF1-MW-1004-091217","5","5","1.00",
"TF1-MW-1004-091217MSD","EPA 300.0","RES","1715726-MSD1","ESAI","16887-00-6","Chloride","44.6","mg/l",,"0.0994","MDL",,"SPIKE","96","0.1","1.00","RDL","YES","8.00","TF1-MW-1004-091217","5","5","0.100",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","100-41-4","Ethylbenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","100-42-5","Styrene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","10061-01-5","cis-1,3-Dichloropropene","0.5","µg/l","U","0.4","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","10061-02-6","trans-1,3-Dichloropropene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","106-46-7","1,4-Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","106-93-4","1,2-Dibromoethane (EDB)","0.5","µg/l","U","0.2","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","107-06-2","1,2-Dichloroethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","2.0","µg/l","U","0.5","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","108-87-2","Methylcyclohexane","2.0","µg/l","U","0.7","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","108-88-3","Toluene","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","108-90-7","Chlorobenzene","0.5","µg/l","U","0.2","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","110-82-7","Cyclohexane","2.0","µg/l","U","0.8","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","120-82-1","1,2,4-Trichlorobenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","124-48-1","Dibromochloromethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","127-18-4","Tetrachloroethene","1.0","µg/l","U","0.6","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","156-59-2","cis-1,2-Dichloroethene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","156-60-5","trans-1,2-Dichloroethene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","1634-04-4","Methyl tert-butyl ether","0.5","µg/l","U","0.2","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","17060-07-0","1,2-Dichloroethane-

d4","48.3","◆g/l",,"-99","NA",,"SUR","97",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","ESAI","1868-53-
7","Dibromofluoromethane","49.8","◆g/l",,"-99","NA",,"SUR","100",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","2037-26-5","Toluene-
d8","48.6","◆g/l",,"-99","NA",,"SUR","97",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","3114-55-4","Chlorobenzene-
d5","50.0","◆g/l",,"-99","NA",,"ISTD","96",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","ESAI","460-00-4","4-
Bromofluorobenzene","49.0","◆g/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","462-06-
6","Fluorobenzene","50.0","◆g/l",,"-99","NA",,"ISTD","102",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","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-091217","SW846 8260C","RES","SC39163-09","ESAI","78-87-5","1,2-Dichloropropane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","78-93-3","2-Butanone (MEK)","2.0","µg/l","U","1.1","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","79-00-5","1,1,2-Trichloroethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","79-01-6","Trichloroethene","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","79-20-9","Methyl acetate","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","79-34-5","1,1,2,2-Tetrachloroethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","87-61-6","1,2,3-Trichlorobenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","95-47-6","o-Xylene","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","95-50-1","1,2-Dichlorobenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","96-12-8","1,2-Dibromo-3-chloropropane","2.0","µg/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-TB-091217","SW846 8260C","RES","SC39163-09","ESAI","98-82-8","Isopropylbenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715726-BLK1",,"Aqueous","1715726-BLK1","Method Bla",,"-99","EPA 300.0","Gen Prep","RES","09/13/2017 18:51","09/14/2017 09:20","ESAI","COA","NA","T","1","NA",,,"100","1715726","1715726","1715726","1715726","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715726-BS1",,"Aqueous","1715726-BS1","LCS",,"-99","EPA 300.0","Gen Prep","RES","09/13/2017 18:51","09/14/2017 09:36","ESAI","COA","NA","T","1","NA",,,"100","1715726","1715726","1715726","1715726","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715726-SRM1",,"Aqueous","1715726-SRM1","Reference",,"-99","EPA 300.0","Gen Prep","RES","09/13/2017 18:51","09/14/2017 09:52","ESAI","COA","NA","T","1","NA",,,"100","1715726","1715726","1715726","1715726","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715818-BLK1",,"Aqueous","1715818-BLK1","Method Bla",,"-99","SM18-22 5210B","Gen Prep","RES","09/14/2017 10:20","09/19/2017 14:05","ESAI","COA","NA","T","1","NA",,,"100","1715818","1715818","1715818","1715818","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715818-BLK2",,"Aqueous","1715818-BLK2","Method Bla",,"-99","SM18-22 5210B","Gen Prep","RES","09/14/2017 18:30","09/19/2017 14:05","ESAI","COA","NA","T","1","NA",,,"100","1715818","1715818","1715818","1715818","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715818-BS1",,"Aqueous","1715818-BS1","LCS",,"-99","SM18-22 5210B","Gen Prep","RES","09/14/2017 10:20","09/19/2017 14:05","ESAI","COA","NA","T","1","NA",,,"100","1715818","1715818","1715818","1715818","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715818-SRM1",,"Aqueous","1715818-SRM1","Reference",,"-99","SM18-22 5210B","Gen Prep","RES","09/14/2017 10:20","09/19/2017 14:05","ESAI","COA","NA","T","1","NA",,,"100","1715818","1715818","1715818","1715818","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715818-SRM2",,"Aqueous","1715818-SRM2","Reference",,"-99","SM18-22 5210B","Gen Prep","RES","09/14/2017 18:30","09/19/2017 14:05","ESAI","COA","NA","T","1","NA",,,"100","1715818","1715818","1715818","1715818","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715853-BLK1",,"Aqueous","1715853-BLK1","Method Bla",,"-99","SW846 8260C","SW846 5030 Water MS","RES","09/15/2017 10:21","09/16/2017 00:25","ESAI","COA","NA","NA","1","NA",,,"100","1715853","1715853","1715853","1715853","SC39163","09/

13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715853-BS1",,"Aqueous","1715853-BS1","LCS",,"-99","SW846 8260C","SW846 5030 Water MS","RES","09/15/2017 10:21","09/16/2017 01:23","ESAI","COA","NA","NA","1","NA",,,"100","1715853","1715853","1715853","1715853","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715853-BSD1",,"Aqueous","1715853-BSD1","LCS Dup",,"-99","SW846 8260C","SW846 5030 Water MS","RES","09/15/2017 10:21","09/16/2017 01:52","ESAI","COA","NA","NA","1","NA",,,"100","1715853","1715853","1715853","1715853","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715919-BLK1",,"Aqueous","1715919-BLK1","Method Bla",,"-99","SW846 8270D","SW846 3510C","RES","09/18/2017 08:00","09/20/2017 21:01","ESAI","COA","NA","NA","1","NA",,,"100","1715919","1715919","1715919","1715919","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715919-BS1",,"Aqueous","1715919-BS1","LCS",,"-99","SW846 8270D","SW846 3510C","RES","09/18/2017 08:00","09/20/2017 21:32","ESAI","COA","NA","NA","1","NA",,,"100","1715919","1715919","1715919","1715919","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715919-BSD1",,"Aqueous","1715919-BSD1","LCS Dup",,"-99","SW846 8270D","SW846 3510C","RES","09/18/2017 08:00","09/20/2017 22:04","ESAI","COA","NA","NA","1","NA",,,"100","1715919","1715919","1715919","1715919","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715920-BLK1",,"Aqueous","1715920-BLK1","Method Bla",,"-99","SW846 8081B","SW846 3510C","RES","09/18/2017 08:00","09/27/2017 19:29","ESAI","COA","NA","NA","1","NA",,,"100","1715920","1715920","1715920","1715920","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715920-BS1",,"Aqueous","1715920-BS1","LCS",,"-99","SW846 8081B","SW846 3510C","RES","09/18/2017 08:00","09/27/2017 19:48","ESAI","COA","NA","NA","1","NA",,,"100","1715920","1715920","1715920","1715920","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715920-BSD1",,"Aqueous","1715920-BSD1","LCS Dup",,"-99","SW846 8081B","SW846 3510C","RES","09/18/2017 08:00","09/27/2017 20:07","ESAI","COA","NA","NA","1","NA",,,"100","1715920","1715920","1715920","1715920","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715985-BLK1",,"Aqueous","1715985-BLK1","Method Bla",,"-99","SM2320B (97, 11)","Gen Prep","RES","09/18/2017 10:32","09/20/2017 15:21","ESAI","COA","NA","T","1","NA",,,"100","1715985","1715985","1715985","1715985","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715985-BLK2",,"Aqueous","1715985-BLK2","Method Bla",,"-99","SM2320B (97, 11)","Gen Prep","RES","09/18/2017 10:32","09/20/2017 16:03","ESAI","COA","NA","T","1","NA",,,"100","1715985","1715985","1715985","1715985","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715985-BLK3",,"Aqueous","1715985-BLK3","Method Bla",,"-99","SM2320B (97, 11)","Gen Prep","RES","09/18/2017 10:32","09/20/2017 17:08","ESAI","COA","NA","T","1","NA",,,"100","1715985","1715985","1715985","1715985","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715985-BLK4",,"Aqueous","1715985-BLK4","Method Bla",,"-99","SM2320B (97, 11)","Gen Prep","RES","09/18/2017 10:32","09/20/2017 17:40","ESAI","COA","NA","T","1","NA",,,"100","1715985","1715985","1715985","1715985","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715985-BS1",,"Aqueous","1715985-BS1","LCS",,"-99","SM2320B (97, 11)","Gen Prep","RES","09/18/2017 10:32","09/20/2017 15:23","ESAI","COA","NA","T","1","NA",,,"100","1715985","1715985","1715985","1715985","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715985-BS2",,"Aqueous","1715985-BS2","LCS",,"-99","SM2320B (97, 11)","Gen Prep","RES","09/18/2017 10:32","09/20/2017 16:04","ESAI","COA","NA","T","1","NA",,,"100","1715985","1715985","1715985","1715985","SC39163","09/13/2017 17:45","10/16/2017 11:38",

"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715985-BS3",,"Aqueous","1715985-BS3","LCS",,"-99","SM2320B (97, 11)","Gen Prep","RES","09/18/2017 10:32","09/20/2017 17:09","ESAI","COA","NA","T","1","NA",,,"100","1715985","1715985","1715985","1715985","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715985-BS4",,"Aqueous","1715985-BS4","LCS",,"-99","SM2320B (97, 11)","Gen Prep","RES","09/18/2017 10:32","09/20/2017 17:42","ESAI","COA","NA","T","1","NA",,,"100","1715985","1715985","1715985","1715985","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715985-SRM1",,"Aqueous","1715985-SRM1","Reference",,"-99","SM2320B (97, 11)","Gen Prep","RES","09/18/2017 10:32","09/20/2017 15:28","ESAI","COA","NA","T","1","NA",,,"100","1715985","1715985","1715985","1715985","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716006-BLK1",,"Aqueous","1716006-BLK1","Method Bla",,"-99","Mod EPA 3C/SOP RSK-175","Gen Prep","RES","09/18/2017 06:00","09/18/2017 10:23","ESAI","COA","NA","NA","1","NA",,,"100","1716006","1716006","1716006","1716006","SC39163","09/13/2017 17:45","10/16/2017 11:38",
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"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716147-CCB1",,"Aqueous","1716147-CCB1","Calibratio",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/20/2017 16:09","09/20/2017 16:56","ESAI","COA","NA","T","1","NA",,,"100","1716147","1716147","1716147","1716147","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716147-CCB2",,"Aqueous","1716147-CCB2","Calibratio",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/20/2017 16:09","09/20/2017 20:36","ESAI","COA","NA","T","1","NA",,,"100","1716147","1716147","1716147","1716147","SC39163","09/13/2017 17:45","10/16/2017 11:38",
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"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716147-CCV3",,"Aqueous","1716147-CCV3","Calibratio",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/20/2017 16:09","09/20/2017 22:26","ESAI","COA","NA","T","1","NA",,,"100","1716147","1716147","1716147","1716147","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716147-SRM1",,"Aqueous","1716147-SRM1","Reference",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/20/2017 16:09","09/20/2017 17:41","ESAI","COA","NA","T","1","NA",,,"100","1716147","1716147","1716147","1716147","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716281-BLK1",,"Aqueous","1716281-

BLK1","Method Bla",,"-99","SW846 6010C","SW846 3005A","RES","09/22/2017 17:15","09/26/2017
16:57","ESAI","COA","NA","T","1","NA",,,"100","1716281","1716281","1716281","1716281","SC39163","09/1
3/2017 17:45","10/16/2017 11:38",
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BS1","LCS",,"-99","SW846 6010C","SW846 3005A","RES","09/22/2017 17:15","09/26/2017
17:02","ESAI","COA","NA","T","1","NA",,,"100","1716281","1716281","1716281","1716281","SC39163","09/1
3/2017 17:45","10/16/2017 11:38",
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BSD1","LCS Dup",,"-99","SW846 6010C","SW846 3005A","RES","09/22/2017 17:15","09/26/2017
17:07","ESAI","COA","NA","T","1","NA",,,"100","1716281","1716281","1716281","1716281","SC39163","09/1
3/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716283-BLK1",,"Aqueous","1716283-
BLK1","Method Bla",,"-99","EPA 245.1/7470A","EPA200/SW7000 Series","RES","09/22/2017
17:15","09/25/2017
15:47","ESAI","COA","NA","T","1","NA",,,"100","1716283","1716283","1716283","1716283","SC39163","09/1
3/2017 17:45","10/16/2017 11:38",
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BS1","LCS",,"-99","EPA 245.1/7470A","EPA200/SW7000 Series","RES","09/22/2017 17:15","09/25/2017
15:49","ESAI","COA","NA","T","1","NA",,,"100","1716283","1716283","1716283","1716283","SC39163","09/1
3/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716533-BLK1",,"Aqueous","1716533-
BLK1","Method Bla",,"-99","SW846 6010C","SW846 3005A","RES","09/22/2017 17:15","09/29/2017
16:46","ESAI","COA","NA","T","1","NA",,,"100","1716533","1716533","1716533","1716533","SC39163","09/1
3/2017 17:45","10/16/2017 11:38",
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BS1","LCS",,"-99","SW846 6010C","SW846 3005A","RES","09/22/2017 17:15","09/29/2017
16:51","ESAI","COA","NA","T","1","NA",,,"100","1716533","1716533","1716533","1716533","SC39163","09/1
3/2017 17:45","10/16/2017 11:38",
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BSD1","LCS Dup",,"-99","SW846 6010C","SW846 3005A","RES","09/22/2017 17:15","09/29/2017
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3/2017 17:45","10/16/2017 11:38",
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12:00","Aqueous","SC39163-05","NM","SC39163","3.2","EPA 200/6000 methods","Gen
Prep","RES","09/16/2017 09:15","09/16/2017
16:22","ESAI","COA","NA","T","1","NA",,,"100","1715937","1715937","1715937","1715937","SC39163","09/1
3/2017 17:45","10/16/2017 11:38",
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12:00","Aqueous","SC39163-05","NM","SC39163","3.2","EPA 245.1/7470A","EPA200/SW7000
Series","RES","09/22/2017 17:15","09/25/2017
15:59","ESAI","COA","NA","T","1","NA",,,"100","1716283","1716283","1716283","1716283","SC39163","09/1
3/2017 17:45","10/16/2017 11:38",
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12:00","Aqueous","SC39163-05","NM","SC39163","3.2","EPA 300.0","Gen Prep","RES","09/13/2017
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01:21","ESAI","COA","NA","T","1","NA",,,"100","1715726","1715726","1715726","1715726","SC39163","09/1
3/2017 17:45","10/16/2017 11:38",
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12:00","Aqueous","SC39163-05","NM","SC39163","3.2","Mod EPA 3C/SOP RSK-175","Gen
Prep","RES","09/18/2017 08:00","09/18/2017
14:35","ESAI","COA","NA","NA","1","NA",,,"100","1716006","1716006","1716006","1716006","SC39163","09/
13/2017 17:45","10/16/2017 11:38",
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10:20","09/19/2017
14:05","ESAI","COA","NA","T","1","NA",,,"100","1715818","1715818","1715818","1715818","SC39163","09/1
3/2017 17:45","10/16/2017 11:38",

"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-DUP-03-091217","09/12/2017 12:00","Aqueous","SC39163-05","NM","SC39163","3.2","SM2320B (97, 11)","Gen Prep","RES","09/18/2017 10:32","09/20/2017 16:00","ESAI","COA","NA","T","1","NA",,,"100","1715985","1715985","1715985","1715985","SC39163","09/13/2017 17:45","10/16/2017 11:38",
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"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-DUP-03-091217","09/12/2017 12:00","H2O","SC39163-05","NM","SC39163","3.2","SW-846 8015B","SW-846 3510C","RES","09/19/2017 08:00","09/20/2017 23:04","ESAI","COA","NA","NA","1","NA",,,"-99","172610028A","172610028A","172610028A","172610028A","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-DUP-03-091217DUP","09/12/2017 12:00","Aqueous","1716283-DUP1","Duplicate","SC39163","3.2","EPA 245.1/7470A","EPA200/SW7000 Series","RES","09/22/2017 17:15","09/25/2017 16:01","ESAI","COA","NA","T","1","NA",,,"100","1716283","1716283","1716283","1716283","SC39163","09/13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-DUP-03-091217MS","09/12/2017 12:00","Aqueous","1716283-MS1","MS","SC39163","3.2","EPA 245.1/7470A","EPA200/SW7000

Series","RES","09/22/2017 17:15","09/25/2017
16:03","ESAI","COA","NA","T","1","NA",,,"100","1716283","1716283","1716283","1716283","SC39163","09/1
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"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-DUP-03-091217MSD","09/12/2017
12:00","Aqueous","1716283-MSD1","MSD","SC39163","3.2","EPA 245.1/7470A","EPA200/SW7000
Series","RES","09/22/2017 17:15","09/25/2017
16:05","ESAI","COA","NA","T","1","NA",,,"100","1716283","1716283","1716283","1716283","SC39163","09/1
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Series","RES","09/22/2017 17:15","09/25/2017
16:11","ESAI","COA","NA","T","1","NA",,,"100","1716283","1716283","1716283","1716283","SC39163","09/1
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"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-FRB-091217","09/12/2017
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14:15","Aqueous","SC39163-03","NM","SC39163","3.2","EPA 200/6000 methods","Gen
Prep","RES","09/16/2017 09:15","09/16/2017
16:22","ESAI","COA","NA","T","1","NA",,,"100","1715937","1715937","1715937","1715937","SC39163","09/1
3/2017 17:45","10/16/2017 11:38",
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Series","RES","09/22/2017 17:15","09/25/2017
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3/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-GT-111-091217","09/12/2017
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18:51","09/14/2017
01:53","ESAI","COA","NA","T","1","NA",,,"100","1715726","1715726","1715726","1715726","SC39163","09/1
3/2017 17:45","10/16/2017 11:38",
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14:15","Aqueous","SC39163-03","NM","SC39163","3.2","Mod EPA 3C/SOP RSK-175","Gen
Prep","RES","09/18/2017 08:00","09/18/2017
13:07","ESAI","COA","NA","NA","1","NA",,,"100","1716006","1716006","1716006","1716006","SC39163","09/
13/2017 17:45","10/16/2017 11:38",
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10:20","09/19/2017
14:05","ESAI","COA","NA","T","1","NA",,,"100","1715818","1715818","1715818","1715818","SC39163","09/1
3/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-GT-111-091217","09/12/2017
14:15","Aqueous","SC39163-03","NM","SC39163","3.2","SM2320B (97, 11)","Gen Prep","RES","09/18/2017
10:32","09/20/2017
15:52","ESAI","COA","NA","T","1","NA",,,"100","1715985","1715985","1715985","1715985","SC39163","09/1
3/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-GT-111-091217","09/12/2017
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3/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-GT-111-091217","09/12/2017
14:15","Aqueous","SC39163-03","NM","SC39163","3.2","SW846 6010C","SW846 3005A","RES","09/22/2017
17:15","09/26/2017
17:23","ESAI","COA","NA","T","1","NA",,,"100","1716281","1716281","1716281","1716281","SC39163","09/1

3/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-GT-111-091217","09/12/2017
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17:15","09/29/2017
17:11","ESAI","COA","NA","T","1","NA",,,"100","1716533","1716533","1716533","1716533","SC39163","09/1
3/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-GT-111-091217","09/12/2017
14:15","Aqueous","SC39163-03","NM","SC39163","3.2","SW846 8081B","SW846 3510C","RES","09/18/2017
08:00","09/28/2017
00:26","ESAI","COA","NA","NA","1","NA",,,"100","1715920","1715920","1715920","1715920","SC39163","09/
13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-GT-111-091217","09/12/2017
14:15","Aqueous","SC39163-03","NM","SC39163","3.2","SW846 8260C","SW846 5030 Water
MS","RES","09/15/2017 10:21","09/16/2017
04:45","ESAI","COA","NA","NA","1","NA",,,"100","1715853","1715853","1715853","1715853","SC39163","09/
13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-GT-111-091217","09/12/2017
14:15","Aqueous","SC39163-03","NM","SC39163","3.2","SW846 8270D","SW846 3510C","RES","09/18/2017
08:00","09/21/2017
08:06","ESAI","COA","NA","NA","1","NA",,,"100","1715919","1715919","1715919","1715919","SC39163","09/
13/2017 17:45","10/16/2017 11:38",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-GT-111-091217","09/12/2017
14:15","H2O","SC39163-03","NM","SC39163","3.2","EPA 537 Modified","METHOD","RES","09/19/2017
09:05","09/22/2017
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TETRA TECH

INTERNAL CORRESPONDENCE

TO: **S. PARKER** **DATE:** **FEBRUARY 13, 2018**

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) SC39163

SAMPLES: 8/Aqueous/VOC

TF1-DUP-03-091217	TF1-GT-111-091217	TF1-GT-115-091217
TF1-GT-118-091217	TF1-GT-130-091217	TF1-GZ-106-091217
TF1-MW-1004-091217	TF1-TB-091217	

7/Aqueous/PAH/OVG/TPH/PFAS/Metals/Miscellaneous

TF1-DUP-03-091217	TF1-GT-111-091217	TF1-GT-115-091217
TF1-GT-118-091217	TF1-GT-130-091217	TF1-GZ-106-091217
TF1-MW-1004-091217		

6/Aqueous/PEST

TF1-DUP-03-091217	TF1-GT-111-091217	TF1-GT-115-091217
TF1-GT-118-091217	TF1-GT-130-091217	TF1-MW-1004-091217

1/Aqueous/PFAS

TF1-FRB-091217

Overview

The sample set for NAVSTA Newport, SDG SC39163 consisted of seven (7) aqueous environmental samples, one (1) Field Reagent Blank, and one (1) trip blank. All seven (7) aqueous environmental samples were analyzed for Volatile Organic Compounds (VOC), Polynuclear Aromatic Hydrocarbons (PAH), Organic Volatile Gases (OVG), 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 SO4, and nitrate as N). Six (6) aqueous samples were analyzed for pesticides (PEST). One sample was only analyzed for TOC in the miscellaneous fraction. 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-03-091217/TF1-GT-118-091217.

The samples were collected by Tetra Tech, Inc. on September 12, 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.

SURROGATE SPIKE RECOVERIES

The labeled surrogate compound, 13C8-perfluorooctane sulfonamide (13C8-PFOSA) had Percent Recoveries (%Rs) below the lower quality control limit in all samples. The %Rs for samples TF1-DUP-03-091217 and TF1-GT-130-091217 were less than 10%. The non-detected results reported for the associated compound, perfluorooctane sulfonamide, in these samples were qualified as either rejected, (UR) if %R < 10%, or estimated, (UJ).

LABORATORY CONTROL SAMPLE (LCS) RESULTS

The BOD Laboratory Control Sample a Percent Recovery (%R) below the lower quality control limit. All samples were affected, with exception of sample TF1-GZ-106-091217 (not analyzed). The detected and non-detected results reported for BOD were qualified as estimated, (J) and (UJ), respectively.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) RESULTS

The SW846 6010C MS/MSD analyses had Percent Recoveries (%Rs) for iron and aluminum above the upper quality control limit. The Post Digestion Spike (PDS) had acceptable %Rs. All samples were affected. The detected results reported for iron and aluminum in the affected samples were qualified as estimated, (J).

ICP SERIAL DILUTION RESULTS

The SW846 6010C serial dilution had a Percent Difference (%D) for iron which exceeded the 10% quality control criterion. The detected results reported for iron in the samples in this SDG were qualified as estimated, (J).

NOTES

Iron, sodium, calcium, and alkalinity were detected in the laboratory method and/or preparation blanks below the Limit of Quantitation (LOQ). No action was taken because the results for these analytes/parameter were above the LOQ.

The SW846 6020A MS/MSD had a MSD %R for antimony which exceeded the upper quality control limit. No action was taken because antimony was not detected in the associated samples.

Barium and manganese were reported from a 5X dilution in sample TF1-GT-115-091217.

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: Analytes were detected in the metals and miscellaneous laboratory method/preparation blanks. Low surrogate %Rs were noted in the PFAS fraction. The BOD LCS had low %R.

Other Factors Affecting Data Quality: One sample was diluted in the metals fraction. The MS/MSD %R for antimony was high. Results below the LOQ were estimated.

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), the Environmental Protection Agency document EPA/600/R-08/092, Method 537, “Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)”, (September 2009), USEPA New England Environmental Data Review Supplement For Regional Data Review Elements and Superfund Specific Guidance/Procedures (April 2013), 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.

Michelle L. Woeber

Tetra Tech, Inc.
Michelle L. Woeber
Environmental Chemist

Joseph A. Samchuck

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.

U	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.
J	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).
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
R	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.
UR	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 x 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

PROJ_NO: 08005-WE15	NSAMPLE	TF1-DUP-03-091217			TF1-GT-111-091217			TF1-GT-115-091217			TF1-GT-118-091217		
SDG: SC39163	LAB_ID	SC39163-05			SC39163-03			SC39163-02			SC39163-04		
FRACTION: OV	SAMP_DATE	9/12/2017			9/12/2017			9/12/2017			9/12/2017		
MEDIA: WATER	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-GT-118-091217											
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		0.5	U		0.7	J	P	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		8.6			2	U	
DICHLORODIFLUOROMETHANE		2	U		2	U		2	U		2	U	

PROJ_NO: 08005-WE15	NSAMPLE	TF1-GT-130-091217			TF1-GZ-106-091217			TF1-MW-1004-091217			TF1-TB-091217		
SDG: SC39163	LAB_ID	SC39163-01			SC39163-07			SC39163-06			SC39163-09		
FRACTION: OV	SAMP_DATE	9/12/2017			9/12/2017			9/12/2017			9/12/2017		
MEDIA: WATER	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												
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		1	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		1.4	J	P	2	U		2	U		2	U	
BENZENE		0.5	U		0.5	U		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	

PROJ_NO: 08005-WE15	NSAMPLE	TF1-DUP-03-091217			TF1-GT-111-091217			TF1-GT-115-091217			TF1-GT-118-091217		
SDG: SC39163	LAB_ID	SC39163-05			SC39163-03			SC39163-02			SC39163-04		
FRACTION: OV	SAMP_DATE	9/12/2017			9/12/2017			9/12/2017			9/12/2017		
MEDIA: WATER	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-GT-118-091217											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ETHYLBENZENE		0.5	U		0.5	U		0.6	J	P	0.5	U	
ISOPROPYLBENZENE		1	U		1	U		2.6			1	U	
M+P-XYLENES		1	U		1	U		2.7			1	U	
METHYL ACETATE		2	U		2	U		2	U		2	U	
METHYL CYCLOHEXANE		2	U		2	U		24.7			2	U	
METHYL TERT-BUTYL ETHER		0.5	U		0.5	U		0.5	U		0.3	J	P
METHYLENE CHLORIDE		2	U		2	U		2	U		2	U	
O-XYLENE		1	U		1	U		0.5	J	P	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		0.5	J	P	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	
TRICHLOROFLUOROMETHANE		1	U		1	U		1	U		1	U	
VINYL CHLORIDE		1	U		1	U		1	U		1	U	

PROJ_NO: 08005-WE15	NSAMPLE	TF1-GT-130-091217			TF1-GZ-106-091217			TF1-MW-1004-091217			TF1-TB-091217		
SDG: SC39163	LAB_ID	SC39163-01			SC39163-07			SC39163-06			SC39163-09		
FRACTION: OV	SAMP_DATE	9/12/2017			9/12/2017			9/12/2017			9/12/2017		
MEDIA: WATER	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												
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		0.5	U		0.5	U		3.2			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	
TRICHLOROFLUOROMETHANE		1	U		1	U		1	U		1	U	
VINYL CHLORIDE		1	U		1	U		1	U		1	U	

PROJ_NO: 08005-WE15	NSAMPLE	TF1-DUP-03-091217			TF1-GT-111-091217			TF1-GT-115-091217			TF1-GT-118-091217		
SDG: SC39163	LAB_ID	SC39163-05			SC39163-03			SC39163-02			SC39163-04		
FRACTION: OS	SAMP_DATE	9/12/2017			9/12/2017			9/12/2017			9/12/2017		
MEDIA: WATER	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-GT-118-091217											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1-METHYLNAPHTHALENE		0.952	U		0.935	U		1.93	J	P	0.98	U	
2-METHYLNAPHTHALENE		0.952	U		0.935	U		0.935	U		0.98	U	
ACENAPHTHENE		0.952	U		0.935	U		1.45	J	P	0.98	U	
ACENAPHTHYLENE		0.952	U		0.935	U		0.935	U		0.98	U	
ANTHRACENE		0.952	U		0.935	U		0.935	U		0.98	U	
BENZO(A)ANTHRACENE		0.952	U		0.935	U		0.935	U		0.98	U	
BENZO(A)PYRENE		0.952	U		0.935	U		0.935	U		0.98	U	
BENZO(B)FLUORANTHENE		0.952	U		0.935	U		0.935	U		0.98	U	
BENZO(G,H,I)PERYLENE		0.952	U		0.935	U		0.935	U		0.98	U	
BENZO(K)FLUORANTHENE		0.952	U		0.935	U		0.935	U		0.98	U	
CHRYSENE		0.952	U		0.935	U		0.935	U		0.98	U	
DIBENZO(A,H)ANTHRACENE		0.952	U		0.935	U		0.935	U		0.98	U	
FLUORANTHENE		0.952	U		0.935	U		0.935	U		0.98	U	
FLUORENE		0.952	U		0.935	U		0.579	J	P	0.98	U	
INDENO(1,2,3-CD)PYRENE		0.952	U		0.935	U		0.935	U		0.98	U	
NAPHTHALENE		0.952	U		0.935	U		0.841	J	P	0.98	U	
PHENANTHRENE		0.952	U		0.935	U		0.935	U		0.98	U	
PYRENE		0.952	U		0.935	U		0.935	U		0.98	U	

PROJ_NO: 08005-WE15	NSAMPLE	TF1-GT-130-091217			TF1-GZ-106-091217			TF1-MW-1004-091217		
SDG: SC39163	LAB_ID	SC39163-01			SC39163-07			SC39163-06		
FRACTION: OS	SAMP_DATE	9/12/2017			9/12/2017			9/12/2017		
MEDIA: WATER	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-METHYLNAPHTHALENE		1.06	U		0.943	U		0.943	U	
2-METHYLNAPHTHALENE		1.06	U		0.943	U		0.943	U	
ACENAPHTHENE		1.06	U		0.943	U		0.943	U	
ACENAPHTHYLENE		1.06	U		0.943	U		0.943	U	
ANTHRACENE		1.06	U		0.943	U		0.943	U	
BENZO(A)ANTHRACENE		1.06	U		0.943	U		0.943	U	
BENZO(A)PYRENE		1.06	U		0.943	U		0.943	U	
BENZO(B)FLUORANTHENE		1.06	U		0.943	U		0.943	U	
BENZO(G,H,I)PERYLENE		1.06	U		0.943	U		0.943	U	
BENZO(K)FLUORANTHENE		1.06	U		0.943	U		0.943	U	
CHRYSENE		1.06	U		0.943	U		0.943	U	
DIBENZO(A,H)ANTHRACENE		1.06	U		0.943	U		0.943	U	
FLUORANTHENE		1.06	U		0.943	U		0.943	U	
FLUORENE		1.06	U		0.943	U		0.943	U	
INDENO(1,2,3-CD)PYRENE		1.06	U		0.943	U		0.943	U	
NAPHTHALENE		1.06	U		0.943	U		0.943	U	
PHENANTHRENE		1.06	U		0.943	U		0.943	U	
PYRENE		1.06	U		0.943	U		0.943	U	

PROJ_NO: 08005-WE15	NSAMPLE	TF1-DUP-03-091217			TF1-GT-111-091217			TF1-GT-115-091217			TF1-GT-118-091217		
SDG: SC39163	LAB_ID	SC39163-05			SC39163-03			SC39163-02			SC39163-04		
FRACTION: OVG	SAMP_DATE	9/12/2017			9/12/2017			9/12/2017			9/12/2017		
MEDIA: WATER	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-GT-118-091217											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ETHANE		6			5	U		5	U		5	U	
METHANE		2.2	U		2.2	U		88			2.2	U	

PROJ_NO: 08005-WE15	NSAMPLE	TF1-GT-130-091217			TF1-GZ-106-091217			TF1-MW-1004-091217		
SDG: SC39163	LAB_ID	SC39163-01			SC39163-07			SC39163-06		
FRACTION: OVG	SAMP_DATE	9/12/2017			9/12/2017			9/12/2017		
MEDIA: WATER	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
ETHANE		5	U		12			5	U	
METHANE		2.2	U		2.2	U		2.2	U	

PROJ_NO: 08005-WE15	NSAMPLE	TF1-DUP-03-091217			TF1-GT-111-091217			TF1-GT-115-091217			TF1-GT-118-091217		
SDG: SC39163	LAB_ID	SC39163-05			SC39163-03			SC39163-02			SC39163-04		
FRACTION: PEST	SAMP_DATE	9/12/2017			9/12/2017			9/12/2017			9/12/2017		
MEDIA: WATER	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-GT-118-091217											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
4,4'-DDD		0.02	U		0.019	U		0.019	U		0.02	U	
4,4'-DDE		0.02	U		0.019	U		0.019	U		0.02	U	
4,4'-DDT		0.029	U		0.029	U		0.029	U		0.03	U	
ALACHLOR		0.02	U		0.019	U		0.019	U		0.02	U	
ALDRIN		0.02	U		0.019	U		0.019	U		0.02	U	
ALPHA-BHC		0.02	U		0.019	U		0.019	U		0.02	U	
ALPHA-CHLORDANE		0.02	U		0.019	U		0.019	U		0.02	U	
BETA-BHC		0.02	U		0.019	U		0.019	U		0.02	U	
CHLORDANE		0.064	U		0.063	U		0.063	U		0.065	U	
DELTA-BHC		0.02	U		0.019	U		0.019	U		0.02	U	
DIELDRIN		0.02	U		0.019	U		0.019	U		0.02	U	
ENDOSULFAN I		0.02	U		0.019	U		0.019	U		0.02	U	
ENDOSULFAN II		0.02	U		0.019	U		0.019	U		0.02	U	
ENDOSULFAN SULFATE		0.02	U		0.019	U		0.019	U		0.02	U	
ENDRIN		0.02	U		0.019	U		0.019	U		0.02	U	
ENDRIN ALDEHYDE		0.02	U		0.019	U		0.019	U		0.02	U	
ENDRIN KETONE		0.02	U		0.019	U		0.019	U		0.02	U	
GAMMA-BHC (LINDANE)		0.02	U		0.019	U		0.019	U		0.02	U	
GAMMA-CHLORDANE		0.02	U		0.019	U		0.019	U		0.02	U	
HEPTACHLOR		0.02	U		0.019	U		0.019	U		0.02	U	
HEPTACHLOR EPOXIDE		0.02	U		0.019	U		0.019	U		0.02	U	
METHOXYCHLOR		0.02	U		0.019	U		0.019	U		0.02	U	
TOXAPHENE		0.49	U		0.485	U		0.481	U		0.5	U	

PROJ_NO: 08005-WE15	NSAMPLE	TF1-GT-130-091217			TF1-MW-1004-091217		
SDG: SC39163	LAB_ID	SC39163-01			SC39163-06		
FRACTION: PEST	SAMP_DATE	9/12/2017			9/12/2017		
MEDIA: WATER	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		0.019	U	
4,4'-DDE		0.021	U		0.019	U	
4,4'-DDT		0.032	U		0.029	U	
ALACHLOR		0.021	U		0.019	U	
ALDRIN		0.021	U		0.019	U	
ALPHA-BHC		0.021	U		0.019	U	
ALPHA-CHLORDANE		0.021	U		0.019	U	
BETA-BHC		0.021	U		0.019	U	
CHLORDANE		0.069	U		0.063	U	
DELTA-BHC		0.021	U		0.019	U	
DIELDRIN		0.021	U		0.019	U	
ENDOSULFAN I		0.021	U		0.019	U	
ENDOSULFAN II		0.021	U		0.019	U	
ENDOSULFAN SULFATE		0.021	U		0.019	U	
ENDRIN		0.021	U		0.019	U	
ENDRIN ALDEHYDE		0.021	U		0.019	U	
ENDRIN KETONE		0.021	U		0.019	U	
GAMMA-BHC (LINDANE)		0.021	U		0.019	U	
GAMMA-CHLORDANE		0.021	U		0.019	U	
HEPTACHLOR		0.021	U		0.019	U	
HEPTACHLOR EPOXIDE		0.021	U		0.019	U	
METHOXYCHLOR		0.021	U		0.019	U	
TOXAPHENE		0.532	U		0.481	U	

PROJ_NO: 08005-WE15	NSAMPLE	TF1-DUP-03-091217			TF1-GT-111-091217			TF1-GT-115-091217			TF1-GT-118-091217		
SDG: SC39163	LAB_ID	SC39163-05			SC39163-03			SC39163-02			SC39163-04		
FRACTION: PET	SAMP_DATE	9/12/2017			9/12/2017			9/12/2017			9/12/2017		
MEDIA: WATER	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-GT-118-091217											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TPH (C08-C44)		0.26			0.22			0.64			0.27		

PROJ_NO: 08005-WE15	NSAMPLE	TF1-GT-130-091217			TF1-GZ-106-091217			TF1-MW-1004-091217		
SDG: SC39163	LAB_ID	SC39163-01			SC39163-07			SC39163-06		
FRACTION: PET	SAMP_DATE	9/12/2017			9/12/2017			9/12/2017		
MEDIA: WATER	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
TPH (C08-C44)		0.33			0.1	U		0.11	U	

PROJ_NO: 08005-WE15	NSAMPLE	TF1-DUP-03-091217			TF1-FRB-091217			TF1-GT-111-091217			TF1-GT-115-091217		
SDG: SC39163	LAB_ID	SC39163-05			SC39163-08			SC39163-03			SC39163-02		
FRACTION: PFAS	SAMP_DATE	9/12/2017			9/12/2017			9/12/2017			9/12/2017		
MEDIA: WATER	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-GT-118-091217											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PENTADECAFLUOROOCTANOIC ACID		2	U		2	U		20			4		
PERFLUOROBUTANESULFONIC ACID		3	U		3	U		12			0.8	J	P
PERFLUOROBUTANOIC ACID		10	U		10	U		15			10	U	
PERFLUORODECANE SULFONIC ACID		6	U		6	U		6	U		6	U	
PERFLUORODECANOIC ACID		2	U		2	U		2	U		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		2	U		2	U		9			3		
PERFLUOROHEXANESULFONIC ACID		3	U		3	U		180			5		
PERFLUOROHEXANOIC ACID		1	J	P	2	U		31			5		
PERFLUORONONANOIC ACID		2	U		2	U		2	U		2	U	
PERFLUOROOCTANE SULFONAMIDE		9	UR	R	9	UJ	R	9	UJ	R	9	UJ	R
PERFLUOROOCTANE SULFONIC ACID		6	U		6	U		390			6	U	
PERFLUOROPENTANOIC ACID		2	J	P	2	U		15			4		
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	

PROJ_NO: 08005-WE15	NSAMPLE	TF1-GT-118-091217			TF1-GT-130-091217			TF1-GZ-106-091217			TF1-MW-1004-091217		
SDG: SC39163	LAB_ID	SC39163-04			SC39163-01			SC39163-07			SC39163-06		
FRACTION: PFAS	SAMP_DATE	9/12/2017			9/12/2017			9/12/2017			9/12/2017		
MEDIA: WATER	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												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PENTADECAFLUOROOCTANOIC ACID		2	U		12			2	J	P	2	U	
PERFLUOROBUTANESULFONIC ACID		3	U		2	J	P	0.9	J	P	3	U	
PERFLUOROBUTANOIC ACID		10	U		10			10	U		10	U	
PERFLUORODECANE SULFONIC ACID		6	U		6	U		6	U		6	U	
PERFLUORODECANOIC ACID		2	U		2	J	P	2	U		2	U	
PERFLUORODODECANOIC ACID		2	U		2	U		2	U		2	U	
PERFLUOROHEPTANESULFONIC ACID		6	U		6	U		6	U		6	U	
PERFLUOROHEPTANOIC ACID		2	U		7			0.9	J	P	2	U	
PERFLUOROHEXANESULFONIC ACID		3	U		20			4			3	U	
PERFLUOROHEXANOIC ACID		1	J	P	9			1	J	P	2	U	
PERFLUORONONANOIC ACID		2	U		1	J	P	2	U		2	U	
PERFLUOROOCTANE SULFONAMIDE		9	UJ	R	9	UR	R	9	UJ	R	9	UJ	R
PERFLUOROOCTANE SULFONIC ACID		6	U		6	U		6	U		6	U	
PERFLUOROPENTANOIC ACID		2	J	P	9			1	J	P	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	

PROJ_NO: 08005-WE15	NSAMPLE	TF1-DUP-03-091217						TF1-DUP-03-091217-RE			TF1-GT-111-091217		
SDG: SC39163	LAB_ID	SC39163-05						SC39163-05			SC39163-03		
FRACTION: M	SAMP_DATE	9/12/2017						9/12/2017			9/12/2017		
MEDIA: WATER	QC_TYPE	NM						NM			NM		
	UNITS	MG/L						MG/L			MG/L		
	PCT_SOLIDS	0.0			199.0			0.0			0.0		
	DUP_OF	TF1-GT-118-091217			TF1-GT-118-091217			TF1-GT-118-091217					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		0.05	U								0.05	U	
ANTIMONY					0.001	U							
ARSENIC					0.075								
BARIUM					0.0066								
BERYLLIUM					0.00025	U							
CADMIUM					0.0005	U							
CALCIUM		8.73									19.4		
CHROMIUM					0.002	U							
COBALT					0.0252								
COPPER					0.0011	J	P						
IRON		45.3	J	DI							0.874	J	DI
LEAD					0.00093	J	P						
MAGNESIUM		1.8									3.71		
MANGANESE					2.97								
MERCURY		0.0002	U								0.0002	U	
MOLYBDENUM					0.002								
NICKEL					0.006								
POTASSIUM								1.91					
SELENIUM					0.001	U							
SILVER					0.00025	U							
SODIUM		4.27									6.71		
THALLIUM					0.00025	U							
VANADIUM					0.0005	U							
ZINC					0.0075	U							

PROJ_NO: 08005-WE15	NSAMPLE	TF1-GT-111-091217			TF1-GT-111-091217-RE			TF1-GT-115-091217					
SDG: SC39163	LAB_ID	SC39163-03			SC39163-03			SC39163-02					
FRACTION: M	SAMP_DATE	9/12/2017			9/12/2017			9/12/2017					
MEDIA: WATER	QC_TYPE	NM			NM			NM					
	UNITS	MG/L			MG/L			MG/L					
	PCT_SOLIDS	199.0			0.0			0.0			199.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM								0.0656	J	D			
ANTIMONY		0.001	U								0.001	U	
ARSENIC		0.0013	J	P							0.137		
BARIUM		0.0119											
BERYLLIUM		0.00025	U								0.00025	U	
CADMIUM		0.0005	U								0.0005	U	
CALCIUM								16.8					
CHROMIUM		0.002	U								0.002	U	
COBALT		0.0019									0.0028		
COPPER		0.001	U								0.0018	J	P
IRON								49.6	J	DI			
LEAD		0.00025	U								0.00028	J	P
MAGNESIUM								2.98					
MANGANESE		2.16											
MERCURY								0.0002	U				
MOLYBDENUM		0.0005	U								0.0013		
NICKEL		0.0022	J	P							0.002	U	
POTASSIUM					3.86								
SELENIUM		0.001	U								0.001	U	
SILVER		0.00025	U								0.00025	U	
SODIUM								5					
THALLIUM		0.00025	U								0.00025	U	
VANADIUM		0.0005	U								0.00028	J	P
ZINC		0.0075	U								0.0075	U	

PROJ_NO: 08005-WE15	NSAMPLE	TF1-GT-115-091217-DL			TF1-GT-115-091217-RE			TF1-GT-118-091217					
SDG: SC39163	LAB_ID	SC39163-02			SC39163-02			SC39163-04					
FRACTION: M	SAMP_DATE	9/12/2017			9/12/2017			9/12/2017					
MEDIA: WATER	QC_TYPE	NM			NM			NM					
	UNITS	MG/L			MG/L			MG/L					
	PCT_SOLIDS	199.0			0.0			0.0			199.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM								0.05	U				
ANTIMONY											0.001	U	
ARSENIC											0.0764		
BARIUM		0.0101	J	P							0.0083		
BERYLLIUM											0.00025	U	
CADMIUM											0.0005	U	
CALCIUM								8.69					
CHROMIUM											0.002	U	
COBALT											0.0248		
COPPER											0.0013	J	P
IRON								45	J	DI			
LEAD											0.00096	J	P
MAGNESIUM								1.8					
MANGANESE		4.96									2.94		
MERCURY								0.0002	U				
MOLYBDENUM											0.0015		
NICKEL											0.0057		
POTASSIUM					3.62								
SELENIUM											0.001	U	
SILVER											0.00025	U	
SODIUM								4.3					
THALLIUM											0.00025	U	
VANADIUM											0.0005	U	
ZINC											0.0075	U	

PROJ_NO: 08005-WE15	NSAMPLE	TF1-GT-118-091217-RE			TF1-GT-130-091217						TF1-GT-130-091217-RE		
SDG: SC39163	LAB_ID	SC39163-04			SC39163-01						SC39163-01		
FRACTION: M	SAMP_DATE	9/12/2017			9/12/2017						9/12/2017		
MEDIA: WATER	QC_TYPE	NM			NM						NM		
	UNITS	MG/L			MG/L						MG/L		
	PCT_SOLIDS	0.0			0.0			199.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM					0.05	U							
ANTIMONY								0.001	U				
ARSENIC								0.0563					
BARIUM								0.0136					
BERYLLIUM								0.00025	U				
CADMIUM								0.0018					
CALCIUM					21.6								
CHROMIUM								0.002	U				
COBALT								0.0792					
COPPER								0.00092	J	P			
IRON					14.1	J	DI						
LEAD								0.00015	J	P			
MAGNESIUM					3.51								
MANGANESE								2.96					
MERCURY					0.0002	U							
MOLYBDENUM								0.00088	J	P			
NICKEL								0.0151					
POTASSIUM		2									2.56		
SELENIUM								0.001	U				
SILVER								0.00025	U				
SODIUM					6.32								
THALLIUM								0.00022	J	P			
VANADIUM								0.0005	U				
ZINC								0.0475					

PROJ_NO: 08005-WE15	NSAMPLE	TF1-GZ-106-091217						TF1-GZ-106-091217-RE			TF1-MW-1004-091217		
SDG: SC39163	LAB_ID	SC39163-07						SC39163-07			SC39163-06		
FRACTION: M	SAMP_DATE	9/12/2017						9/12/2017			9/12/2017		
MEDIA: WATER	QC_TYPE	NM						NM			NM		
	UNITS	MG/L						MG/L			MG/L		
	PCT_SOLIDS	0.0			199.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		0.719	J	D							1.08	J	D
ANTIMONY					0.001	U							
ARSENIC					0.0026	J	P						
BARIUM					0.0042								
BERYLLIUM					0.00015	J	P						
CADMIUM					0.00018	J	P						
CALCIUM		9.04									17.6		
CHROMIUM					0.0034	J	P						
COBALT					0.0039								
COPPER					0.0108								
IRON		1.39	J	DI							0.786	J	DI
LEAD					0.0044								
MAGNESIUM		4.56									9.24		
MANGANESE					0.124								
MERCURY		0.0002	U								0.0002	U	
MOLYBDENUM					0.0005	U							
NICKEL					0.0347								
POTASSIUM								1.25					
SELENIUM					0.001	U							
SILVER					0.00025	U							
SODIUM		5.47									13.4		
THALLIUM					0.00025	U							
VANADIUM					0.0026								
ZINC					0.0299	J	P						

PROJ_NO: 08005-WE15	NSAMPLE	TF1-MW-1004-091217			TF1-MW-1004-091217-RE		
SDG: SC39163	LAB_ID	SC39163-06			SC39163-06		
FRACTION: M	SAMP_DATE	9/12/2017			9/12/2017		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	MG/L			MG/L		
	PCT_SOLIDS	199.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM							
ANTIMONY		0.001	U				
ARSENIC		0.0014	J	P			
BARIUM		0.0215					
BERYLLIUM		0.00025	U				
CADMIUM		0.00029	J	P			
CALCIUM							
CHROMIUM		0.0013	J	P			
COBALT		0.0068					
COPPER		0.0016	J	P			
IRON							
LEAD		0.00059	J	P			
MAGNESIUM							
MANGANESE		0.316					
MERCURY							
MOLYBDENUM		0.0005	U				
NICKEL		0.108					
POTASSIUM					1.19		
SELENIUM		0.001	U				
SILVER		0.00025	U				
SODIUM							
THALLIUM		0.00025	U				
VANADIUM		0.00072	J	P			
ZINC		0.0957					

PROJ_NO: 08005-WE15	NSAMPLE	TF1-DUP-03-091217			TF1-GT-111-091217			TF1-GT-115-091217			TF1-GT-118-091217		
SDG: SC39163	LAB_ID	SC39163-05			SC39163-03			SC39163-02			SC39163-04		
FRACTION: MISC	SAMP_DATE	9/12/2017			9/12/2017			9/12/2017			9/12/2017		
MEDIA: WATER	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-GT-118-091217											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALKALINITY		27.1			64.4			70.3			27.4		
BIOCHEMICAL OXYGEN DEMAND		6	J	E	4	J	E	12	J	E	3	J	E
CHLORIDE		7.37			7.91			8.4			7.43		
NITRATE-N		0.1	U		0.465			0.012	J	P	0.1	U	
SULFATE		10.9			1.98			1	U		11		
TOTAL ORGANIC CARBON		1.74			2.51			5.07			1.77		

PROJ_NO: 08005-WE15	NSAMPLE	TF1-GT-130-091217			TF1-GZ-106-091217			TF1-MW-1004-091217		
SDG: SC39163	LAB_ID	SC39163-01			SC39163-07			SC39163-06		
FRACTION: MISC	SAMP_DATE	9/12/2017			9/12/2017			9/12/2017		
MEDIA: WATER	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		48.8						25.6		
BIOCHEMICAL OXYGEN DEMAND		2.97	UJ	E				2.97	UJ	E
CHLORIDE		9.29						36.9		
NITRATE-N		0.009	J	P				0.1	U	
SULFATE		34						34.9		
TOTAL ORGANIC CARBON		1.68			0.482	J	P	0.428	J	P

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-GT-130-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-01	File ID:	3916301.D		
Sampled:	09/12/17 12:15	Prepared:	09/15/17 10:21	Analyzed:	09/16/17 03:47		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1715853	Sequence:	S708215	Calibration:	1709004	Instrument:	HPV3
Reported to:	LOD						

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	1.4	J	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-130-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-01	File ID:	3916301.D		
Sampled:	09/12/17 12:15	Prepared:	09/15/17 10:21	Analyzed:	09/16/17 03:47		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1715853	Sequence:	S708215	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-115-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-02	File ID:	3916302.D		
Sampled:	09/12/17 10:30	Prepared:	09/15/17 10:21	Analyzed:	09/16/17 04:16		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1715853	Sequence:	S708215	Calibration:	1709004	Instrument:	HPV3
Reported to:	LOD						

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	0.7	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	0.6	J	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	2.6		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	0.5	J	0.3	1.0	1.0

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-GT-115-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-02	File ID:	3916302.D		
Sampled:	09/12/17 10:30	Prepared:	09/15/17 10:21	Analyzed:	09/16/17 04:16		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1715853	Sequence:	S708215	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	2.7		0.4	1.0	2.0
95-47-6	o-Xylene	1	0.5	J	0.3	1.0	1.0
110-82-7	Cyclohexane	1	8.6		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	24.7		0.7	2.0	5.0

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-GT-111-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-03	File ID:	3916303.D		
Sampled:	09/12/17 14:15	Prepared:	09/15/17 10:21	Analyzed:	09/16/17 04:45		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1715853	Sequence:	S708215	Calibration:	1709004	Instrument:	HPV3
Reported to:	LOD						

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-111-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-03	File ID:	3916303.D		
Sampled:	09/12/17 14:15	Prepared:	09/15/17 10:21	Analyzed:	09/16/17 04:45		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1715853	Sequence:	S708215	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-118-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-04	File ID:	3916304.D		
Sampled:	09/12/17 10:20	Prepared:	09/15/17 10:21	Analyzed:	09/16/17 05:13		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1715853	Sequence:	S708215	Calibration:	1709004	Instrument:	HPV3
Reported to:	LOD						

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-GT-118-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-04	File ID:	3916304.D		
Sampled:	09/12/17 10:20	Prepared:	09/15/17 10:21	Analyzed:	09/16/17 05:13		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1715853	Sequence:	S708215	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-03-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-05	File ID:	3916305.D		
Sampled:	09/12/17 12:00	Prepared:	09/15/17 10:21	Analyzed:	09/16/17 05:42		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1715853	Sequence:	S708215	Calibration:	1709004	Instrument:	HPV3
Reported to:	LOD						

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-DUP-03-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-05	File ID:	3916305.D		
Sampled:	09/12/17 12:00	Prepared:	09/15/17 10:21	Analyzed:	09/16/17 05:42		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1715853	Sequence:	S708215	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-MW-1004-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-06	File ID:	3916306.D		
Sampled:	09/12/17 15:10	Prepared:	09/15/17 10:21	Analyzed:	09/16/17 06:11		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1715853	Sequence:	S708215	Calibration:	1709004	Instrument:	HPV3
Reported to:	LOD						

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	3.2		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-MW-1004-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-06	File ID:	3916306.D		
Sampled:	09/12/17 15:10	Prepared:	09/15/17 10:21	Analyzed:	09/16/17 06:11		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1715853	Sequence:	S708215	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
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

missing 1,1,1-trichloroethane and 1,1,2-trichloroethane - both non-detects, added to EDD and contacted laboratory to correct

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-GZ-106-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-07	File ID:	3916307.D		
Sampled:	09/12/17 08:00	Prepared:	09/15/17 10:21	Analyzed:	09/16/17 06:40		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1715853	Sequence:	S708215	Calibration:	1709004	Instrument:	HPV3
Reported to:	LOD						

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-GZ-106-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-07	File ID:	3916307.D		
Sampled:	09/12/17 08:00	Prepared:	09/15/17 10:21	Analyzed:	09/16/17 06:40		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1715853	Sequence:	S708215	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-TB-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-09	File ID:	3916309.D		
Sampled:	09/12/17 07:45	Prepared:	09/15/17 10:21	Analyzed:	09/16/17 07:09		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1715853	Sequence:	S708215	Calibration:	1709004	Instrument:	HPV3
Reported to:	LOD						

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-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-09	File ID:	3916309.D		
Sampled:	09/12/17 07:45	Prepared:	09/15/17 10:21	Analyzed:	09/16/17 07:09		
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml		
Batch:	1715853	Sequence:	S708215	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-GT-130-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-01	File ID:	C3916301.D		
Sampled:	09/12/17 12:15	Prepared:	09/18/17 08:00	Analyzed:	09/21/17 05:59		
% Solids:		Preparation:	SW846 3510C	Initial/Final:	940 ml / 1 ml		
Batch:	1715919	Sequence:	S708501	Calibration:	1709033	Instrument:	HPS5
Reported to:	LOD						

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-115-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-02	File ID:	C3916302.D		
Sampled:	09/12/17 10:30	Prepared:	09/18/17 08:00	Analyzed:	09/21/17 06:30		
% Solids:		Preparation:	SW846 3510C	Initial/Final:	1070 ml / 1 ml		
Batch:	1715919	Sequence:	S708501	Calibration:	1709033	Instrument:	HPS5
Reported to:	LOD						

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
83-32-9	Acenaphthene	1	1.45	J	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	0.579	J	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	1.93	J	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	0.841	J	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-GT-111-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-03	File ID:	C3916303.D		
Sampled:	09/12/17 14:15	Prepared:	09/18/17 08:00	Analyzed:	09/21/17 08:06		
% Solids:		Preparation:	SW846 3510C	Initial/Final:	1070 ml / 1 ml		
Batch:	1715919	Sequence:	S708502	Calibration:	1709033	Instrument:	HPS5
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-GT-118-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-04	File ID:	C3916304.D		
Sampled:	09/12/17 10:20	Prepared:	09/18/17 08:00	Analyzed:	09/21/17 08:37		
% Solids:		Preparation:	SW846 3510C	Initial/Final:	1020 ml / 1 ml		
Batch:	1715919	Sequence:	S708502	Calibration:	1709033	Instrument:	HPS5
Reported to:	LOD						

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
83-32-9	Acenaphthene	1	0.980	U	0.677	0.980	4.90
208-96-8	Acenaphthylene	1	0.980	U	0.670	0.980	4.90
120-12-7	Anthracene	1	0.980	U	0.596	0.980	4.90
56-55-3	Benzo (a) anthracene	1	0.980	U	0.525	0.980	4.90
50-32-8	Benzo (a) pyrene	1	0.980	U	0.551	0.980	4.90
205-99-2	Benzo (b) fluoranthene	1	0.980	U	0.428	0.980	4.90
191-24-2	Benzo (g,h,i) perylene	1	0.980	U	0.520	0.980	4.90
207-08-9	Benzo (k) fluoranthene	1	0.980	U	0.471	0.980	4.90
218-01-9	Chrysene	1	0.980	U	0.522	0.980	4.90
53-70-3	Dibenzo (a,h) anthracene	1	0.980	U	0.441	0.980	4.90
206-44-0	Fluoranthene	1	0.980	U	0.625	0.980	4.90
86-73-7	Fluorene	1	0.980	U	0.600	0.980	4.90
193-39-5	Indeno (1,2,3-cd) pyrene	1	0.980	U	0.569	0.980	4.90
90-12-0	1-Methylnaphthalene	1	0.980	U	0.719	0.980	4.90
91-57-6	2-Methylnaphthalene	1	0.980	U	0.563	0.980	4.90
91-20-3	Naphthalene	1	0.980	U	0.672	0.980	4.90
85-01-8	Phenanthrene	1	0.980	U	0.575	0.980	4.90
129-00-0	Pyrene	1	0.980	U	0.598	0.980	4.90

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8270D

TF1-DUP-03-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-05	File ID:	C3916305.D		
Sampled:	09/12/17 12:00	Prepared:	09/18/17 08:00	Analyzed:	09/21/17 09:09		
% Solids:		Preparation:	SW846 3510C	Initial/Final:	1050 ml / 1 ml		
Batch:	1715919	Sequence:	S708502	Calibration:	1709033	Instrument:	HPS5
Reported to:	LOD						

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
83-32-9	Acenaphthene	1	0.952	U	0.658	0.952	4.76
208-96-8	Acenaphthylene	1	0.952	U	0.650	0.952	4.76
120-12-7	Anthracene	1	0.952	U	0.579	0.952	4.76
56-55-3	Benzo (a) anthracene	1	0.952	U	0.510	0.952	4.76
50-32-8	Benzo (a) pyrene	1	0.952	U	0.535	0.952	4.76
205-99-2	Benzo (b) fluoranthene	1	0.952	U	0.416	0.952	4.76
191-24-2	Benzo (g,h,i) perylene	1	0.952	U	0.505	0.952	4.76
207-08-9	Benzo (k) fluoranthene	1	0.952	U	0.457	0.952	4.76
218-01-9	Chrysene	1	0.952	U	0.507	0.952	4.76
53-70-3	Dibenzo (a,h) anthracene	1	0.952	U	0.429	0.952	4.76
206-44-0	Fluoranthene	1	0.952	U	0.608	0.952	4.76
86-73-7	Fluorene	1	0.952	U	0.583	0.952	4.76
193-39-5	Indeno (1,2,3-cd) pyrene	1	0.952	U	0.552	0.952	4.76
90-12-0	1-Methylnaphthalene	1	0.952	U	0.698	0.952	4.76
91-57-6	2-Methylnaphthalene	1	0.952	U	0.547	0.952	4.76
91-20-3	Naphthalene	1	0.952	U	0.652	0.952	4.76
85-01-8	Phenanthrene	1	0.952	U	0.558	0.952	4.76
129-00-0	Pyrene	1	0.952	U	0.581	0.952	4.76

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8270D

TF1-MW-1004-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-06	File ID:	C3916306.D		
Sampled:	09/12/17 15:10	Prepared:	09/18/17 08:00	Analyzed:	09/21/17 09:40		
% Solids:		Preparation:	SW846 3510C	Initial/Final:	1060 ml / 1 ml		
Batch:	1715919	Sequence:	S708502	Calibration:	1709033	Instrument:	HPS5
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-GZ-106-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-07	File ID:	C3916307.D		
Sampled:	09/12/17 08:00	Prepared:	09/18/17 08:00	Analyzed:	09/21/17 10:11		
% Solids:		Preparation:	SW846 3510C	Initial/Final:	1060 ml / 1 ml		
Batch:	1715919	Sequence:	S708502	Calibration:	1709033	Instrument:	HPS5
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 - ANALYSIS DATA SHEET
SW846 8081B

TF1-GT-130-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15	Received:	09/13/17 17:45

Matrix:	Ground Water	Laboratory ID:	SC39163-01	File ID:	3916301Z.D
Sampled:	09/12/17 12:15	Prepared:	09/18/17 08:00	Analyzed:	09/27/17 23:49
% Solids:		Preparation:	SW846 3510C	Initial/Final:	940 ml / 10 ml

Batch:	1715920	Sequence:	S708605	Calibration:	1709047	Instrument:	HPS17

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 - ANALYSIS DATA SHEET
SW846 8081B

TF1-GT-115-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-02	File ID:	3916302Z.D		
Sampled:	09/12/17 10:30	Prepared:	09/18/17 08:00	Analyzed:	09/28/17 00:08		
% Solids:		Preparation:	SW846 3510C	Initial/Final:	1040 ml / 10 ml		
Batch:	1715920	Sequence:	S708605	Calibration:	1709047	Instrument:	HPS17

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	0.017	0.019	0.019
76-44-8	Heptachlor	1	0.019	U	0.019	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	0.015	0.019	0.019
959-98-8	Endosulfan I	1	0.019	U	0.016	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	0.029	U	0.017	0.029	0.038
72-43-5	Methoxychlor	1	0.019	U	0.018	0.019	0.038
53494-70-5	Endrin ketone	1	0.019	U	0.017	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	0.481	U	0.315	0.481	0.481
57-74-9	Chlordane	1	0.063	U	0.049	0.063	0.063
15972-60-8	Alachlor	1	0.019	U	0.018	0.019	0.019

FORM I - ANALYSIS DATA SHEET
SW846 8081B

TF1-GT-111-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15	Received:	09/13/17 17:45

Matrix:	Ground Water	Laboratory ID:	SC39163-03	File ID:	3916303Z.D
Sampled:	09/12/17 14:15	Prepared:	09/18/17 08:00	Analyzed:	09/28/17 00:26
% Solids:		Preparation:	SW846 3510C	Initial/Final:	1030 ml / 10 ml

Batch:	1715920	Sequence:	S708605	Calibration:	1709047	Instrument:	HPS17

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	0.017	0.019	0.019
76-44-8	Heptachlor	1	0.019	U	0.019	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	0.015	0.019	0.019
959-98-8	Endosulfan I	1	0.019	U	0.016	0.019	0.019
60-57-1	Dieldrin	1	0.019	U	0.017	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	0.019	0.019	0.039
33213-65-9	Endosulfan II	1	0.019	U	0.019	0.019	0.039
72-54-8	4,4'-DDD (p,p')	1	0.019	U	0.018	0.019	0.039
1031-07-8	Endosulfan sulfate	1	0.019	U	0.019	0.019	0.039
50-29-3	4,4'-DDT (p,p')	1	0.029	U	0.017	0.029	0.039
72-43-5	Methoxychlor	1	0.019	U	0.018	0.019	0.039
53494-70-5	Endrin ketone	1	0.019	U	0.017	0.019	0.039
7421-93-4	Endrin aldehyde	1	0.019	U	0.019	0.019	0.039
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	0.016	0.019	0.019
8001-35-2	Toxaphene	1	0.485	U	0.318	0.485	0.485
57-74-9	Chlordane	1	0.063	U	0.050	0.063	0.063
15972-60-8	Alachlor	1	0.019	U	0.018	0.019	0.019

FORM I - ANALYSIS DATA SHEET
SW846 8081B

TF1-GT-118-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15	Received:	09/13/17 17:45

Matrix:	Ground Water	Laboratory ID:	SC39163-04	File ID:	3916304Z.D
Sampled:	09/12/17 10:20	Prepared:	09/18/17 08:00	Analyzed:	09/28/17 00:45
% Solids:		Preparation:	SW846 3510C	Initial/Final:	1000 ml / 10 ml

Batch: 1715920 Sequence: S708605 Calibration: 1709047 Instrument: HPS17

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	0.020	U	0.012	0.020	0.020
319-85-7	beta-BHC	1	0.020	U	0.015	0.020	0.020
319-86-8	delta-BHC	1	0.020	U	0.015	0.020	0.020
58-89-9	gamma-BHC (Lindane)	1	0.020	U	0.017	0.020	0.020
76-44-8	Heptachlor	1	0.020	U	0.020	0.020	0.020
309-00-2	Aldrin	1	0.020	U	0.016	0.020	0.020
1024-57-3	Heptachlor epoxide	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
60-57-1	Dieldrin	1	0.020	U	0.017	0.020	0.020
72-55-9	4,4'-DDE (p,p')	1	0.020	U	0.018	0.020	0.020
72-20-8	Endrin	1	0.020	U	0.019	0.020	0.040
33213-65-9	Endosulfan II	1	0.020	U	0.020	0.020	0.040
72-54-8	4,4'-DDD (p,p')	1	0.020	U	0.019	0.020	0.040
1031-07-8	Endosulfan sulfate	1	0.020	U	0.020	0.020	0.040
50-29-3	4,4'-DDT (p,p')	1	0.030	U	0.018	0.030	0.040
72-43-5	Methoxychlor	1	0.020	U	0.018	0.020	0.040
53494-70-5	Endrin ketone	1	0.020	U	0.017	0.020	0.040
7421-93-4	Endrin aldehyde	1	0.020	U	0.019	0.020	0.040
5103-71-9	alpha-Chlordane	1	0.020	U	0.015	0.020	0.020
5103-74-2	Chlordane (gamma)(trans)	1	0.020	U	0.016	0.020	0.020
8001-35-2	Toxaphene	1	0.500	U	0.328	0.500	0.500
57-74-9	Chlordane	1	0.065	U	0.051	0.065	0.065
15972-60-8	Alachlor	1	0.020	U	0.019	0.020	0.020

FORM I - ANALYSIS DATA SHEET
SW846 8081B

TF1-DUP-03-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15	Received:	09/13/17 17:45

Matrix:	Ground Water	Laboratory ID:	SC39163-05	File ID:	3916305Z.D
Sampled:	09/12/17 12:00	Prepared:	09/18/17 08:00	Analyzed:	09/28/17 01:03
% Solids:		Preparation:	SW846 3510C	Initial/Final:	1020 ml / 10 ml

Batch:	1715920	Sequence:	S708605	Calibration:	1709047	Instrument:	HPS17

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	0.020	U	0.011	0.020	0.020
319-85-7	beta-BHC	1	0.020	U	0.014	0.020	0.020
319-86-8	delta-BHC	1	0.020	U	0.015	0.020	0.020
58-89-9	gamma-BHC (Lindane)	1	0.020	U	0.017	0.020	0.020
76-44-8	Heptachlor	1	0.020	U	0.019	0.020	0.020
309-00-2	Aldrin	1	0.020	U	0.015	0.020	0.020
1024-57-3	Heptachlor epoxide	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
60-57-1	Dieldrin	1	0.020	U	0.017	0.020	0.020
72-55-9	4,4'-DDE (p,p')	1	0.020	U	0.017	0.020	0.020
72-20-8	Endrin	1	0.020	U	0.019	0.020	0.039
33213-65-9	Endosulfan II	1	0.020	U	0.020	0.020	0.039
72-54-8	4,4'-DDD (p,p')	1	0.020	U	0.018	0.020	0.039
1031-07-8	Endosulfan sulfate	1	0.020	U	0.019	0.020	0.039
50-29-3	4,4'-DDT (p,p')	1	0.029	U	0.017	0.029	0.039
72-43-5	Methoxychlor	1	0.020	U	0.018	0.020	0.039
53494-70-5	Endrin ketone	1	0.020	U	0.017	0.020	0.039
7421-93-4	Endrin aldehyde	1	0.020	U	0.019	0.020	0.039
5103-71-9	alpha-Chlordane	1	0.020	U	0.015	0.020	0.020
5103-74-2	Chlordane (gamma)(trans)	1	0.020	U	0.016	0.020	0.020
8001-35-2	Toxaphene	1	0.490	U	0.322	0.490	0.490
57-74-9	Chlordane	1	0.064	U	0.050	0.064	0.064
15972-60-8	Alachlor	1	0.020	U	0.019	0.020	0.020

FORM I - ANALYSIS DATA SHEET
SW846 8081B

TF1-MW-1004-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-06		File ID:	3916306Z.D	
Sampled:	09/12/17 15:10	Prepared:	09/18/17 08:00		Analyzed:	09/28/17 01:22	
% Solids:		Preparation:	SW846 3510C		Initial/Final:	1040 ml / 10 ml	
Batch:	1715920	Sequence:	S708605	Calibration:	1709047	Instrument:	HPS17

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	0.017	0.019	0.019
76-44-8	Heptachlor	1	0.019	U	0.019	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	0.015	0.019	0.019
959-98-8	Endosulfan I	1	0.019	U	0.016	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	0.029	U	0.017	0.029	0.038
72-43-5	Methoxychlor	1	0.019	U	0.018	0.019	0.038
53494-70-5	Endrin ketone	1	0.019	U	0.017	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	0.481	U	0.315	0.481	0.481
57-74-9	Chlordane	1	0.063	U	0.049	0.063	0.063
15972-60-8	Alachlor	1	0.019	U	0.018	0.019	0.019

FORM I - ORGANIC ANALYSIS DATA SHEET

Mod EPA 3C/SOP RSK-175

TF1-GT-130-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-01	File ID:	091817-chanb-005-0		
Sampled:	09/12/17 12:15	Prepared:	09/18/17 08:00	Analyzed:	09/18/17 10:46		
% Solids:		Preparation:	General Air Prep	Initial/Final:	10 µg / 10 µg		
Batch:	1716006	Sequence:	S708315	Calibration:	1707028	Instrument:	Air5
Reported to:	LOD						

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-115-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-02		File ID:	091817-chanb-007-0	
Sampled:	09/12/17 10:30	Prepared:	09/18/17 08:00		Analyzed:	09/18/17 11:47	
% Solids:		Preparation:	General Air Prep		Initial/Final:	10 µg / 10 µg	
Batch:	1716006	Sequence:	S708315	Calibration:	1707028	Instrument:	Air5
Reported to:	LOD						

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
74-82-8	Methane	1	88.0		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-111-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-03	File ID:	091817-chanb-010-0		
Sampled:	09/12/17 14:15	Prepared:	09/18/17 08:00	Analyzed:	09/18/17 13:07		
% Solids:		Preparation:	General Air Prep	Initial/Final:	10 µg / 10 µg		
Batch:	1716006	Sequence:	S708315	Calibration:	1707028	Instrument:	Air5
Reported to:	LOD						

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-118-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-04	File ID:	091817-chanb-011-0		
Sampled:	09/12/17 10:20	Prepared:	09/18/17 08:00	Analyzed:	09/18/17 13:39		
% Solids:		Preparation:	General Air Prep	Initial/Final:	10 µg / 10 µg		
Batch:	1716006	Sequence:	S708315	Calibration:	1707028	Instrument:	Air5
Reported to:	LOD						

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-03-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-05	File ID:	091817-chanb-013-0		
Sampled:	09/12/17 12:00	Prepared:	09/18/17 08:00	Analyzed:	09/18/17 14:35		
% Solids:		Preparation:	General Air Prep	Initial/Final:	10 µg / 10 µg		
Batch:	1716006	Sequence:	S708315	Calibration:	1707028	Instrument:	Air5
Reported to:	LOD						

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	6.00		3.48	5.00	5.00

FORM I - ORGANIC ANALYSIS DATA SHEET

Mod EPA 3C/SOP RSK-175

TF1-MW-1004-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-06	File ID:	091817-chanb-014-0		
Sampled:	09/12/17 15:10	Prepared:	09/18/17 08:00	Analyzed:	09/18/17 15:09		
% Solids:		Preparation:	General Air Prep	Initial/Final:	10 µg / 10 µg		
Batch:	1716006	Sequence:	S708315	Calibration:	1707028	Instrument:	Air5
Reported to:	LOD						

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-GZ-106-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163		
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport		
Project Number:	112G08005-WE15			Received:	09/13/17 17:45		
Matrix:	Ground Water	Laboratory ID:	SC39163-07	File ID:	091817-chanb-015-0		
Sampled:	09/12/17 08:00	Prepared:	09/18/17 08:00	Analyzed:	09/18/17 15:35		
% Solids:		Preparation:	General Air Prep	Initial/Final:	10 µg / 10 µg		
Batch:	1716006	Sequence:	S708315	Calibration:	1707028	Instrument:	Air5
Reported to:	LOD						

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	12.0		3.48	5.00	5.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SW846 6010C

TF1-GT-130-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-01	File ID:	20170926-063
Sampled:	09/12/17 12:15	Prepared:	09/22/17 17:15		
% Solids:		Preparation:	SW846 3005A	Initial/Final:	50 ml / 50 ml
Batch:	1716281	Sequence:	S708828	Calibration:	1710008
Instrument:	ICAP5				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	14.1		1	0.0089	0.0300	0.0800
7440-09-7	Potassium	2.56		1	0.120	0.250	1.00
7440-23-5	Sodium	6.32		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	21.6		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	3.51		1	0.0088	0.0100	0.0200

FORM I - INORGANIC ANALYSIS DATA SHEET

SW846 6010C

TF1-GT-115-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-02	File ID:	20170926-064
Sampled:	09/12/17 10:30	Prepared:	09/22/17 17:15		
% Solids:		Preparation:	SW846 3005A	Initial/Final:	50 ml / 50 ml
Batch:	1716281	Sequence:	S708828	Calibration:	1710008
Instrument:	ICAP5				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	49.6		1	0.0089	0.0300	0.0800
7440-09-7	Potassium	3.62		1	0.120	0.250	1.00
7440-23-5	Sodium	5.00		1	0.0785	0.250	0.500
7429-90-5	Aluminum	0.0656		1	0.0206	0.0500	0.0500
7440-70-2	Calcium	16.8		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	2.98		1	0.0088	0.0100	0.0200

FORM I - INORGANIC ANALYSIS DATA SHEET

SW846 6010C

TF1-GT-111-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-03	File ID:	20170926-065
Sampled:	09/12/17 14:15	Prepared:	09/22/17 17:15		
% Solids:		Preparation:	SW846 3005A	Initial/Final:	50 ml / 50 ml
Batch:	1716281	Sequence:	S708828	Calibration:	1710008
Instrument:	ICAP5				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	0.874		1	0.0089	0.0300	0.0800
7440-09-7	Potassium	3.86		1	0.120	0.250	1.00
7440-23-5	Sodium	6.71		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	19.4		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	3.71		1	0.0088	0.0100	0.0200

FORM I - INORGANIC ANALYSIS DATA SHEET

SW846 6010C

TF1-GT-118-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-04	File ID:	20170926-066
Sampled:	09/12/17 10:20	Prepared:	09/22/17 17:15		
% Solids:		Preparation:	SW846 3005A	Initial/Final:	50 ml / 50 ml
Batch:	1716281	Sequence:	S708828	Calibration:	1710008
Instrument:	ICAP5				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	45.0		1	0.0089	0.0300	0.0800
7440-09-7	Potassium	2.00		1	0.120	0.250	1.00
7440-23-5	Sodium	4.30		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	8.69		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	1.80		1	0.0088	0.0100	0.0200

FORM I - INORGANIC ANALYSIS DATA SHEET

SW846 6010C

TF1-DUP-03-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-05	File ID:	20170926-067
Sampled:	09/12/17 12:00	Prepared:	09/22/17 17:15		
% Solids:		Preparation:	SW846 3005A	Initial/Final:	50 ml / 50 ml
Batch:	1716281	Sequence:	S708828	Calibration:	1710008
Instrument:	ICAP5				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	45.3		1	0.0089	0.0300	0.0800
7440-09-7	Potassium	1.91		1	0.120	0.250	1.00
7440-23-5	Sodium	4.27		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	8.73		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	1.80		1	0.0088	0.0100	0.0200

FORM I - INORGANIC ANALYSIS DATA SHEET

SW846 6010C

TF1-MW-1004-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-06	File ID:	20170926-068
Sampled:	09/12/17 15:10	Prepared:	09/22/17 17:15		
% Solids:		Preparation:	SW846 3005A	Initial/Final:	50 ml / 50 ml
Batch:	1716281	Sequence:	S708828	Calibration:	1710008
Instrument:	ICAP5				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	0.786		1	0.0089	0.0300	0.0800
7440-09-7	Potassium	1.19		1	0.120	0.250	1.00
7440-23-5	Sodium	13.4		1	0.0785	0.250	0.500
7429-90-5	Aluminum	1.08		1	0.0206	0.0500	0.0500
7440-70-2	Calcium	17.6		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	9.24		1	0.0088	0.0100	0.0200

FORM I - INORGANIC ANALYSIS DATA SHEET

SW846 6010C

TF1-GZ-106-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-07	File ID:	20170926-072
Sampled:	09/12/17 08:00	Prepared:	09/22/17 17:15		
% Solids:		Preparation:	SW846 3005A	Initial/Final:	50 ml / 50 ml
Batch:	1716281	Sequence:	S708828	Calibration:	1710008
Instrument:	ICAP5				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	1.39		1	0.0089	0.0300	0.0800
7440-09-7	Potassium	1.25		1	0.120	0.250	1.00
7440-23-5	Sodium	5.47		1	0.0785	0.250	0.500
7429-90-5	Aluminum	0.719		1	0.0206	0.0500	0.0500
7440-70-2	Calcium	9.04		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	4.56		1	0.0088	0.0100	0.0200

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 245.1/7470A

TF1-GT-130-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-01	File ID:	092517A-078
Sampled:	09/12/17 12:15	Prepared:	09/22/17 17:15		
% Solids:		Preparation:	EPA200/SW7000 Series	Initial/Final:	20 ml / 20 ml
Batch:	1716283	Sequence:	S710401	Calibration:	1711054
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-115-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-02	File ID:	092517A-079
Sampled:	09/12/17 10:30	Prepared:	09/22/17 17:15		
% Solids:		Preparation:	EPA200/SW7000 Series	Initial/Final:	20 ml / 20 ml
Batch:	1716283	Sequence:	S710401	Calibration:	1711054
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-111-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-03	File ID:	092517A-080
Sampled:	09/12/17 14:15	Prepared:	09/22/17 17:15		
% Solids:		Preparation:	EPA200/SW7000 Series	Initial/Final:	20 ml / 20 ml
Batch:	1716283	Sequence:	S710401	Calibration:	1711054
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-118-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-04	File ID:	092517A-081
Sampled:	09/12/17 10:20	Prepared:	09/22/17 17:15		
% Solids:		Preparation:	EPA200/SW7000 Series	Initial/Final:	20 ml / 20 ml
Batch:	1716283	Sequence:	S710401	Calibration:	1711054
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-03-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-05	File ID:	092517A-082
Sampled:	09/12/17 12:00	Prepared:	09/22/17 17:15		
% Solids:		Preparation:	EPA200/SW7000 Series	Initial/Final:	20 ml / 20 ml
Batch:	1716283	Sequence:	S710401	Calibration:	1711054
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-MW-1004-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-06	File ID:	092517A-089
Sampled:	09/12/17 15:10	Prepared:	09/22/17 17:15		
% Solids:		Preparation:	EPA200/SW7000 Series	Initial/Final:	20 ml / 20 ml
Batch:	1716283	Sequence:	S710401	Calibration:	1711054
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-GZ-106-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-07	File ID:	092517A-090
Sampled:	09/12/17 08:00	Prepared:	09/22/17 17:15		
% Solids:		Preparation:	EPA200/SW7000 Series	Initial/Final:	20 ml / 20 ml
Batch:	1716283	Sequence:	S710401	Calibration:	1711054
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 300.0

TF1-GT-130-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-01	File ID:	091317-045
Sampled:	09/12/17 12:15	Prepared:	09/13/17 18:51	Analyzed:	09/13/17 23:29
% Solids:		Preparation:	General Preparation	Initial/Final:	5 ml / 5 ml
Batch:	1715726	Sequence:	S709518	Calibration:	1710011
Instrument:	IC3				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	9.29		1	0.0994	0.100	1.00
14808-79-8	Sulfate as SO4	34.0		1	0.798	1.00	1.00
14797-55-8	Nitrate as N	0.009	J	1	0.007	0.100	0.100

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 300.0

TF1-GT-115-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-02	File ID:	091317-039
Sampled:	09/12/17 10:30	Prepared:	09/13/17 18:51	Analyzed:	09/13/17 21:53
% Solids:		Preparation:	General Preparation	Initial/Final:	5 ml / 5 ml
Batch:	1715726	Sequence:	S709518	Calibration:	1710011
Instrument:	IC3				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	8.40		1	0.0994	0.100	1.00
14808-79-8	Sulfate as SO4	1.00	U	1	0.798	1.00	1.00
14797-55-8	Nitrate as N	0.012	J	1	0.007	0.100	0.100

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 300.0

TF1-GT-111-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-03	File ID:	091317-054
Sampled:	09/12/17 14:15	Prepared:	09/13/17 18:51	Analyzed:	09/14/17 01:53
% Solids:		Preparation:	General Preparation	Initial/Final:	5 ml / 5 ml
Batch:	1715726	Sequence:	S709518	Calibration:	1710011
Instrument:	IC3				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	7.91		1	0.0994	0.100	1.00
14808-79-8	Sulfate as SO4	1.98		1	0.798	1.00	1.00
14797-55-8	Nitrate as N	0.465		1	0.007	0.100	0.100

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 300.0

TF1-GT-118-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-04	File ID:	091317-041
Sampled:	09/12/17 10:20	Prepared:	09/13/17 18:51	Analyzed:	09/13/17 22:25
% Solids:		Preparation:	General Preparation	Initial/Final:	5 ml / 5 ml
Batch:	1715726	Sequence:	S709518	Calibration:	1710011
Instrument:	IC3				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	7.43		1	0.0994	0.100	1.00
14808-79-8	Sulfate as SO4	11.0		1	0.798	1.00	1.00
14797-55-8	Nitrate as N	0.100	U	1	0.007	0.100	0.100

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 300.0

TF1-DUP-03-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-05	File ID:	091317-052
Sampled:	09/12/17 12:00	Prepared:	09/13/17 18:51	Analyzed:	09/14/17 01:21
% Solids:		Preparation:	General Preparation	Initial/Final:	5 ml / 5 ml
Batch:	1715726	Sequence:	S709518	Calibration:	1710011
Instrument:	IC3				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	7.37		1	0.0994	0.100	1.00
14808-79-8	Sulfate as SO4	10.9		1	0.798	1.00	1.00
14797-55-8	Nitrate as N	0.100	U	1	0.007	0.100	0.100

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 300.0

TF1-MW-1004-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-06	File ID:	091317-055
Sampled:	09/12/17 15:10	Prepared:	09/13/17 18:51	Analyzed:	09/14/17 02:09
% Solids:		Preparation:	General Preparation	Initial/Final:	5 ml / 5 ml
Batch:	1715726	Sequence:	S709518	Calibration:	1710011
Instrument:	IC3				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	36.9		1	0.0994	0.100	1.00
14808-79-8	Sulfate as SO4	34.9		1	0.798	1.00	1.00
14797-55-8	Nitrate as N	0.100	U	1	0.007	0.100	0.100

FORM I - INORGANIC ANALYSIS DATA SHEET

SM5310B (00, 11)

TF1-GT-130-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-01	File ID:	1716147-009
Sampled:	09/12/17 12:15	Prepared:	09/20/17 16:09	Analyzed:	09/20/17 19:19
% Solids:		Preparation:	General Preparation	Initial/Final:	40 ml / 40 ml
Batch:	1716147	Sequence:	S708405	Calibration:	1706085
Instrument:	TOC4				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	1.68		1	0.238	0.500	1.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM5310B (00, 11)

TF1-GT-115-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-02	File ID:	1716147-015
Sampled:	09/12/17 10:30	Prepared:	09/20/17 16:09	Analyzed:	09/20/17 20:50
% Solids:		Preparation:	General Preparation	Initial/Final:	40 ml / 40 ml
Batch:	1716147	Sequence:	S708405	Calibration:	1706085
Instrument:	TOC4				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	5.07		1	0.238	0.500	1.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM5310B (00, 11)

TF1-GT-111-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-03	File ID:	1716147-016
Sampled:	09/12/17 14:15	Prepared:	09/20/17 16:09	Analyzed:	09/20/17 21:07
% Solids:		Preparation:	General Preparation	Initial/Final:	40 ml / 40 ml
Batch:	1716147	Sequence:	S708405	Calibration:	1706085
Instrument:	TOC4				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	2.51		1	0.238	0.500	1.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM5310B (00, 11)

TF1-GT-118-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-04	File ID:	1716147-017
Sampled:	09/12/17 10:20	Prepared:	09/20/17 16:09	Analyzed:	09/20/17 21:23
% Solids:		Preparation:	General Preparation	Initial/Final:	40 ml / 40 ml
Batch:	1716147	Sequence:	S708405	Calibration:	1706085
Instrument:	TOC4				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	1.77		1	0.238	0.500	1.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM5310B (00, 11)

TF1-DUP-03-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-05	File ID:	1716147-018
Sampled:	09/12/17 12:00	Prepared:	09/20/17 16:09	Analyzed:	09/20/17 21:40
% Solids:		Preparation:	General Preparation	Initial/Final:	40 ml / 40 ml
Batch:	1716147	Sequence:	S708405	Calibration:	1706085
Instrument:	TOC4				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	1.74		1	0.238	0.500	1.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM5310B (00, 11)

TF1-MW-1004-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-06	File ID:	1716147-019
Sampled:	09/12/17 15:10	Prepared:	09/20/17 16:09	Analyzed:	09/20/17 21:56
% Solids:		Preparation:	General Preparation	Initial/Final:	40 ml / 40 ml
Batch:	1716147	Sequence:	S708405	Calibration:	1706085
Instrument:	TOC4				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	0.428	J	1	0.238	0.500	1.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM5310B (00, 11)

TF1-GZ-106-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-07	File ID:	1716147-020
Sampled:	09/12/17 08:00	Prepared:	09/20/17 16:09	Analyzed:	09/20/17 22:12
% Solids:		Preparation:	General Preparation	Initial/Final:	40 ml / 40 ml
Batch:	1716147	Sequence:	S708405	Calibration:	1706085
Instrument:	TOC4				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	0.482	J	1	0.238	0.500	1.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM18-22 5210B

TF1-GT-130-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-01	File ID:	
Sampled:	09/12/17 12:15	Prepared:	09/14/17 10:20	Analyzed:	09/19/17 14:05
% Solids:		Preparation:	General Preparation	Initial/Final:	300 ml / 300 ml
Batch:	1715818	Sequence:	S708314	Calibration:	UNASSIGNED
Instrument:	DO Meter				
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-GT-115-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-02	File ID:	
Sampled:	09/12/17 10:30	Prepared:	09/14/17 10:20	Analyzed:	09/19/17 14:05
% Solids:		Preparation:	General Preparation	Initial/Final:	300 ml / 300 ml
Batch:	1715818	Sequence:	S708314	Calibration:	UNASSIGNED
Instrument:	DO Meter				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
	Biochemical Oxygen Demand (5-day)	12.0		1	2.74	2.97	3.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM18-22 5210B

TF1-GT-111-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-03	File ID:	
Sampled:	09/12/17 14:15	Prepared:	09/14/17 10:20	Analyzed:	09/19/17 14:05
% Solids:		Preparation:	General Preparation	Initial/Final:	300 ml / 300 ml
Batch:	1715818	Sequence:	S708314	Calibration:	UNASSIGNED
Instrument:	DO Meter				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
	Biochemical Oxygen Demand (5-day)	4.00		1	2.74	2.97	3.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM18-22 5210B

TF1-GT-118-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-04	File ID:	
Sampled:	09/12/17 10:20	Prepared:	09/14/17 10:20	Analyzed:	09/19/17 14:05
% Solids:		Preparation:	General Preparation	Initial/Final:	300 ml / 300 ml
Batch:	1715818	Sequence:	S708314	Calibration:	UNASSIGNED
Instrument:	DO Meter				
Reported to:	LOD				

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

FORM I - INORGANIC ANALYSIS DATA SHEET

SM18-22 5210B

TF1-DUP-03-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-05	File ID:	
Sampled:	09/12/17 12:00	Prepared:	09/14/17 10:20	Analyzed:	09/19/17 14:05
% Solids:		Preparation:	General Preparation	Initial/Final:	300 ml / 300 ml
Batch:	1715818	Sequence:	S708314	Calibration:	UNASSIGNED
Instrument:	DO Meter				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
	Biochemical Oxygen Demand (5-day)	6.00		1	2.74	2.97	3.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM18-22 5210B

TF1-MW-1004-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-06	File ID:	
Sampled:	09/12/17 15:10	Prepared:	09/14/17 10:20	Analyzed:	09/19/17 14:05
% Solids:		Preparation:	General Preparation	Initial/Final:	300 ml / 300 ml
Batch:	1715818	Sequence:	S708314	Calibration:	UNASSIGNED
Instrument:	DO Meter				
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

SM2320B (97, 11)

TF1-GT-130-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-01	File ID:	DTOOL Alk 2017-09-20 1521-00(
Sampled:	09/12/17 12:15	Prepared:	09/18/17 10:32	Analyzed:	09/20/17 15:44
% Solids:		Preparation:	General Preparation	Initial/Final:	100 ml / 50 ml
Batch:	1715985	Sequence:		Calibration:	
Instrument:	Titrator				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	48.8		1	0.524	1.50	2.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM2320B (97, 11)

TF1-GT-115-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-02	File ID:	DTOOL Alk 2017-09-20 1521-007
Sampled:	09/12/17 10:30	Prepared:	09/18/17 10:32	Analyzed:	09/20/17 15:48
% Solids:		Preparation:	General Preparation	Initial/Final:	50 ml / 50 ml
Batch:	1715985	Sequence:		Calibration:	
Instrument:	Titrator				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	70.3		1	1.05	3.00	4.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM2320B (97, 11)

TF1-GT-111-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-03	File ID:	DTOOL Alk 2017-09-20 1521-008
Sampled:	09/12/17 14:15	Prepared:	09/18/17 10:32	Analyzed:	09/20/17 15:52
% Solids:		Preparation:	General Preparation	Initial/Final:	100 ml / 50 ml
Batch:	1715985	Sequence:		Calibration:	
Instrument:	Titrator				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	64.4		1	0.524	1.50	2.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM2320B (97, 11)

TF1-GT-118-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-04	File ID:	DTOOL Alk 2017-09-20 1521-009
Sampled:	09/12/17 10:20	Prepared:	09/18/17 10:32	Analyzed:	09/20/17 15:57
% Solids:		Preparation:	General Preparation	Initial/Final:	50 ml / 50 ml
Batch:	1715985	Sequence:		Calibration:	
Instrument:	Titrator				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	27.4		1	1.05	3.00	4.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM2320B (97, 11)

TF1-DUP-03-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/13/17 17:45
Matrix:	Ground Water	Laboratory ID:	SC39163-05	File ID:	DTOOL Alk 2017-09-20 1521-01(
Sampled:	09/12/17 12:00	Prepared:	09/18/17 10:32	Analyzed:	09/20/17 16:00
% Solids:		Preparation:	General Preparation	Initial/Final:	50 ml / 50 ml
Batch:	1715985	Sequence:		Calibration:	
Instrument:	Titrator				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	27.1		1	1.05	3.00	4.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM2320B (97, 11)

TF1-MW-1004-091217

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA		SDG:	SC39163	
Client:	Tetra Tech, Inc. - Salem, NH		Project:	WE15 Tank Farm 1 NAVSTA Newport	
Project Number:	112G08005-WE15		Received:	09/13/17 17:45	
Matrix:	Ground Water	Laboratory ID:	SC39163-06	File ID:	DTOOL Alk 2017-09-20 1521-01
Sampled:	09/12/17 15:10	Prepared:	09/18/17 10:32	Analyzed:	09/20/17 16:09
% Solids:		Preparation:	General Preparation	Initial/Final:	100 ml / 50 ml
Batch:	1715985	Sequence:		Calibration:	
Instrument:	Titrator				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	25.6		1	0.524	1.50	2.00

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: SC39163-01 Groundwater

Project Name: SC39163

ELLE Sample # WW 9240350
ELLE Group # 1857425
Account # 30891

Collected: 09/12/2017 12:15

Submitted: 09/30/2017 09:55
Reported: 10/12/2017 16:20

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

16301 SDG#: SAI22-01

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
Metals		**SW-846 6020A**	**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.0010	U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.0563		0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0136		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	0.0018		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	0.0792		0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.00092	J	0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.00015	J	0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	2.96		0.00090	0.0020	0.0040	1
06038	Molybdenum	7439-98-7	0.00088	J	0.00025	0.00050	0.0010	1
06039	Nickel	7440-02-0	0.0151		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	0.00022	J	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	0.0475		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 18:20	Bradley M Berlot	1
06025	Arsenic	SW-846 6020A	1	172771063901A	10/09/2017 18:20	Bradley M Berlot	1
06026	Barium	SW-846 6020A	1	172771063901D	10/12/2017 06:24	Sarah L Burt	1
06027	Beryllium	SW-846 6020A	1	172771063901A	10/09/2017 18:20	Bradley M Berlot	1
06028	Cadmium	SW-846 6020A	1	172771063901A	10/12/2017 06:24	Sarah L Burt	1
06031	Chromium	SW-846 6020A	1	172771063901A	10/09/2017 18:20	Bradley M Berlot	1
06032	Cobalt	SW-846 6020A	1	172771063901A	10/09/2017 18:20	Bradley M Berlot	1
06033	Copper	SW-846 6020A	1	172771063901A	10/09/2017 18:20	Bradley M Berlot	1
06035	Lead	SW-846 6020A	1	172771063901A	10/09/2017 18:20	Bradley M Berlot	1
06037	Manganese	SW-846 6020A	1	172771063901A	10/09/2017 18:20	Bradley M Berlot	1
06038	Molybdenum	SW-846 6020A	1	172771063901C	10/09/2017 18:20	Bradley M Berlot	1
06039	Nickel	SW-846 6020A	1	172771063901A	10/09/2017 18:20	Bradley M Berlot	1
06041	Selenium	SW-846 6020A	1	172771063901B	10/09/2017 18:20	Bradley M Berlot	1
06042	Silver	SW-846 6020A	1	172771063901A	10/09/2017 18:20	Bradley M Berlot	1
06045	Thallium	SW-846 6020A	1	172771063901A	10/09/2017 18:20	Bradley M Berlot	1
06048	Vanadium	SW-846 6020A	1	172771063901A	10/09/2017 18:20	Bradley M Berlot	1
06049	Zinc	SW-846 6020A	1	172771063901A	10/09/2017 18:20	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

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Analysis Report

Sample Description: SC39163-02 Groundwater

Project Name: SC39163

ELLE Sample # WW 9240351
ELLE Group # 1857425
Account # 30891

Collected: 09/12/2017 10:30

Submitted: 09/30/2017 09:55
Reported: 10/12/2017 16:20

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

16302 SDG#: SAI22-02

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
Metals		**SW-846 6020A**	**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.0010	U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.137		0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0101	J	0.0036	0.0100	0.0200	5
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	0.0028		0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.0018	J	0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.00028	J	0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	4.96		0.0045	0.0100	0.0200	5
06038	Molybdenum	7439-98-7	0.0013		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	0.0010	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	0.00028	J	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 18:29	Bradley M Berlot	1
06025	Arsenic	SW-846 6020A	1	172771063901A	10/09/2017 18:29	Bradley M Berlot	1
06026	Barium	SW-846 6020A	1	172771063901D	10/12/2017 06:26	Sarah L Burt	5
06027	Beryllium	SW-846 6020A	1	172771063901A	10/09/2017 18:29	Bradley M Berlot	1
06028	Cadmium	SW-846 6020A	1	172771063901A	10/09/2017 18:29	Bradley M Berlot	1
06031	Chromium	SW-846 6020A	1	172771063901A	10/09/2017 18:29	Bradley M Berlot	1
06032	Cobalt	SW-846 6020A	1	172771063901A	10/09/2017 18:29	Bradley M Berlot	1
06033	Copper	SW-846 6020A	1	172771063901A	10/09/2017 18:29	Bradley M Berlot	1
06035	Lead	SW-846 6020A	1	172771063901A	10/09/2017 18:29	Bradley M Berlot	1
06037	Manganese	SW-846 6020A	1	172771063901A	10/12/2017 06:26	Sarah L Burt	5
06038	Molybdenum	SW-846 6020A	1	172771063901C	10/09/2017 18:29	Bradley M Berlot	1
06039	Nickel	SW-846 6020A	1	172771063901A	10/09/2017 18:29	Bradley M Berlot	1
06041	Selenium	SW-846 6020A	1	172771063901B	10/09/2017 18:29	Bradley M Berlot	1
06042	Silver	SW-846 6020A	1	172771063901A	10/09/2017 18:29	Bradley M Berlot	1
06045	Thallium	SW-846 6020A	1	172771063901A	10/09/2017 18:29	Bradley M Berlot	1
06048	Vanadium	SW-846 6020A	1	172771063901A	10/09/2017 18:29	Bradley M Berlot	1
06049	Zinc	SW-846 6020A	1	172771063901A	10/09/2017 18:29	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

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Analysis Report

Sample Description: SC39163-03 Groundwater

Project Name: SC39163

ELLE Sample # WW 9240352
ELLE Group # 1857425
Account # 30891

Collected: 09/12/2017 14:15

Submitted: 09/30/2017 09:55
Reported: 10/12/2017 16:20

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

16303 SDG#: SAI22-03

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
Metals		**SW-846 6020A**	**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.0010	U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.0013	J	0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0119		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	0.0019		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	2.16		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	0.0022	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 18:32	Bradley M Berlot	1
06025	Arsenic	SW-846 6020A	1	172771063901A	10/09/2017 18:32	Bradley M Berlot	1
06026	Barium	SW-846 6020A	1	172771063901D	10/12/2017 06:28	Sarah L Burt	1
06027	Beryllium	SW-846 6020A	1	172771063901A	10/09/2017 18:32	Bradley M Berlot	1
06028	Cadmium	SW-846 6020A	1	172771063901A	10/09/2017 18:32	Bradley M Berlot	1
06031	Chromium	SW-846 6020A	1	172771063901A	10/09/2017 18:32	Bradley M Berlot	1
06032	Cobalt	SW-846 6020A	1	172771063901A	10/09/2017 18:32	Bradley M Berlot	1
06033	Copper	SW-846 6020A	1	172771063901A	10/09/2017 18:32	Bradley M Berlot	1
06035	Lead	SW-846 6020A	1	172771063901A	10/09/2017 18:32	Bradley M Berlot	1
06037	Manganese	SW-846 6020A	1	172771063901A	10/09/2017 18:32	Bradley M Berlot	1
06038	Molybdenum	SW-846 6020A	1	172771063901C	10/09/2017 18:32	Bradley M Berlot	1
06039	Nickel	SW-846 6020A	1	172771063901A	10/09/2017 18:32	Bradley M Berlot	1
06041	Selenium	SW-846 6020A	1	172771063901B	10/09/2017 18:32	Bradley M Berlot	1
06042	Silver	SW-846 6020A	1	172771063901A	10/09/2017 18:32	Bradley M Berlot	1
06045	Thallium	SW-846 6020A	1	172771063901A	10/09/2017 18:32	Bradley M Berlot	1
06048	Vanadium	SW-846 6020A	1	172771063901A	10/09/2017 18:32	Bradley M Berlot	1
06049	Zinc	SW-846 6020A	1	172771063901A	10/09/2017 18:32	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

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Analysis Report

Sample Description: SC39163-04 Groundwater

Project Name: SC39163

ELLE Sample # WW 9240353
ELLE Group # 1857425
Account # 30891

Collected: 09/12/2017 10:20

Submitted: 09/30/2017 09:55
Reported: 10/12/2017 16:20

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

16304 SDG#: SAI22-04

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
Metals		**SW-846 6020A**	**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.0010	U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.0764		0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0083		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	0.0248		0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.0013	J	0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.00096	J	0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	2.94		0.00090	0.0020	0.0040	1
06038	Molybdenum	7439-98-7	0.0015		0.00025	0.00050	0.0010	1
06039	Nickel	7440-02-0	0.0057		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 18:35	Bradley M Berlot	1
06025	Arsenic	SW-846 6020A	1	172771063901A	10/09/2017 18:35	Bradley M Berlot	1
06026	Barium	SW-846 6020A	1	172771063901D	10/12/2017 06:30	Sarah L Burt	1
06027	Beryllium	SW-846 6020A	1	172771063901A	10/09/2017 18:35	Bradley M Berlot	1
06028	Cadmium	SW-846 6020A	1	172771063901A	10/09/2017 18:35	Bradley M Berlot	1
06031	Chromium	SW-846 6020A	1	172771063901A	10/09/2017 18:35	Bradley M Berlot	1
06032	Cobalt	SW-846 6020A	1	172771063901A	10/09/2017 18:35	Bradley M Berlot	1
06033	Copper	SW-846 6020A	1	172771063901A	10/09/2017 18:35	Bradley M Berlot	1
06035	Lead	SW-846 6020A	1	172771063901A	10/09/2017 18:35	Bradley M Berlot	1
06037	Manganese	SW-846 6020A	1	172771063901A	10/09/2017 18:35	Bradley M Berlot	1
06038	Molybdenum	SW-846 6020A	1	172771063901C	10/09/2017 18:35	Bradley M Berlot	1
06039	Nickel	SW-846 6020A	1	172771063901A	10/09/2017 18:35	Bradley M Berlot	1
06041	Selenium	SW-846 6020A	1	172771063901B	10/09/2017 18:35	Bradley M Berlot	1
06042	Silver	SW-846 6020A	1	172771063901A	10/09/2017 18:35	Bradley M Berlot	1
06045	Thallium	SW-846 6020A	1	172771063901A	10/09/2017 18:35	Bradley M Berlot	1
06048	Vanadium	SW-846 6020A	1	172771063901A	10/09/2017 18:35	Bradley M Berlot	1
06049	Zinc	SW-846 6020A	1	172771063901A	10/09/2017 18:35	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

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Analysis Report

Sample Description: SC39163-05 Groundwater

Project Name: SC39163

ELLE Sample # WW 9240354
ELLE Group # 1857425
Account # 30891

Collected: 09/12/2017 12:00

Submitted: 09/30/2017 09:55
Reported: 10/12/2017 16:20

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

16305 SDG#: SAI22-05

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
Metals		**SW-846 6020A**	**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.0010	U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.0750		0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0066		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	0.0252		0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.0011	J	0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.00093	J	0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	2.97		0.00090	0.0020	0.0040	1
06038	Molybdenum	7439-98-7	0.0020		0.00025	0.00050	0.0010	1
06039	Nickel	7440-02-0	0.0060		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 18:38	Bradley M Berlot	1
06025	Arsenic	SW-846 6020A	1	172771063901A	10/09/2017 18:38	Bradley M Berlot	1
06026	Barium	SW-846 6020A	1	172771063901D	10/12/2017 06:32	Sarah L Burt	1
06027	Beryllium	SW-846 6020A	1	172771063901A	10/09/2017 18:38	Bradley M Berlot	1
06028	Cadmium	SW-846 6020A	1	172771063901A	10/09/2017 18:38	Bradley M Berlot	1
06031	Chromium	SW-846 6020A	1	172771063901A	10/09/2017 18:38	Bradley M Berlot	1
06032	Cobalt	SW-846 6020A	1	172771063901A	10/09/2017 18:38	Bradley M Berlot	1
06033	Copper	SW-846 6020A	1	172771063901A	10/09/2017 18:38	Bradley M Berlot	1
06035	Lead	SW-846 6020A	1	172771063901A	10/09/2017 18:38	Bradley M Berlot	1
06037	Manganese	SW-846 6020A	1	172771063901A	10/09/2017 18:38	Bradley M Berlot	1
06038	Molybdenum	SW-846 6020A	1	172771063901C	10/09/2017 18:38	Bradley M Berlot	1
06039	Nickel	SW-846 6020A	1	172771063901A	10/09/2017 18:38	Bradley M Berlot	1
06041	Selenium	SW-846 6020A	1	172771063901B	10/09/2017 18:38	Bradley M Berlot	1
06042	Silver	SW-846 6020A	1	172771063901A	10/09/2017 18:38	Bradley M Berlot	1
06045	Thallium	SW-846 6020A	1	172771063901A	10/09/2017 18:38	Bradley M Berlot	1
06048	Vanadium	SW-846 6020A	1	172771063901A	10/09/2017 18:38	Bradley M Berlot	1
06049	Zinc	SW-846 6020A	1	172771063901A	10/09/2017 18:38	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

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Analysis Report

Sample Description: SC39163-06 Groundwater

Project Name: SC39163

ELLE Sample # WW 9240355
ELLE Group # 1857425
Account # 30891

Collected: 09/12/2017 15:10

Submitted: 09/30/2017 09:55
Reported: 10/12/2017 16:20

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

16306 SDG#: SAI22-06

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
Metals		**SW-846 6020A**	**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.0010	U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.0014	J	0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0215		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	0.00029	J	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	0.0068		0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.0016	J	0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.00059	J	0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	0.316		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	0.108		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	0.00072	J	0.00021	0.00050	0.0010	1
06049	Zinc	7440-66-6	0.0957		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 18:41	Bradley M Berlot	1
06025	Arsenic	SW-846 6020A	1	172771063901A	10/09/2017 18:41	Bradley M Berlot	1
06026	Barium	SW-846 6020A	1	172771063901D	10/12/2017 06:37	Sarah L Burt	1
06027	Beryllium	SW-846 6020A	1	172771063901A	10/09/2017 18:41	Bradley M Berlot	1
06028	Cadmium	SW-846 6020A	1	172771063901A	10/12/2017 06:37	Sarah L Burt	1
06031	Chromium	SW-846 6020A	1	172771063901A	10/09/2017 18:41	Bradley M Berlot	1
06032	Cobalt	SW-846 6020A	1	172771063901A	10/09/2017 18:41	Bradley M Berlot	1
06033	Copper	SW-846 6020A	1	172771063901A	10/09/2017 18:41	Bradley M Berlot	1
06035	Lead	SW-846 6020A	1	172771063901A	10/09/2017 18:41	Bradley M Berlot	1
06037	Manganese	SW-846 6020A	1	172771063901A	10/09/2017 18:41	Bradley M Berlot	1
06038	Molybdenum	SW-846 6020A	1	172771063901C	10/09/2017 18:41	Bradley M Berlot	1
06039	Nickel	SW-846 6020A	1	172771063901A	10/09/2017 18:41	Bradley M Berlot	1
06041	Selenium	SW-846 6020A	1	172771063901B	10/09/2017 18:41	Bradley M Berlot	1
06042	Silver	SW-846 6020A	1	172771063901A	10/09/2017 18:41	Bradley M Berlot	1
06045	Thallium	SW-846 6020A	1	172771063901A	10/09/2017 18:41	Bradley M Berlot	1
06048	Vanadium	SW-846 6020A	1	172771063901A	10/09/2017 18:41	Bradley M Berlot	1
06049	Zinc	SW-846 6020A	1	172771063901A	10/09/2017 18:41	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

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Analysis Report

Sample Description: SC39163-07 Groundwater

Project Name: SC39163

ELLE Sample # WW 9240356
ELLE Group # 1857425
Account # 30891

Collected: 09/12/2017 08:00

Submitted: 09/30/2017 09:55
Reported: 10/12/2017 16:20

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

16307 SDG#: SAI22-07

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
Metals		**SW-846 6020A**	**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.0010	U	0.00045	0.0010	0.0020	1
06025	Arsenic	7440-38-2	0.0026	J	0.00072	0.0020	0.0040	1
06026	Barium	7440-39-3	0.0042		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	0.00018	J	0.00015	0.00050	0.0010	1
06031	Chromium	7440-47-3	0.0034	J	0.00087	0.0020	0.0040	1
06032	Cobalt	7440-48-4	0.0039		0.00016	0.00050	0.0010	1
06033	Copper	7440-50-8	0.0108		0.00054	0.0010	0.0040	1
06035	Lead	7439-92-1	0.0044		0.00011	0.00025	0.0020	1
06037	Manganese	7439-96-5	0.124		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	0.0347		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	0.0026		0.00021	0.00050	0.0010	1
06049	Zinc	7440-66-6	0.0299	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 18:45	Bradley M Berlot	1
06025	Arsenic	SW-846 6020A	1	172771063901A	10/09/2017 18:45	Bradley M Berlot	1
06026	Barium	SW-846 6020A	1	172771063901D	10/12/2017 06:39	Sarah L Burt	1
06027	Beryllium	SW-846 6020A	1	172771063901A	10/09/2017 18:45	Bradley M Berlot	1
06028	Cadmium	SW-846 6020A	1	172771063901A	10/12/2017 06:39	Sarah L Burt	1
06031	Chromium	SW-846 6020A	1	172771063901A	10/09/2017 18:45	Bradley M Berlot	1
06032	Cobalt	SW-846 6020A	1	172771063901A	10/09/2017 18:45	Bradley M Berlot	1
06033	Copper	SW-846 6020A	1	172771063901A	10/09/2017 18:45	Bradley M Berlot	1
06035	Lead	SW-846 6020A	1	172771063901A	10/09/2017 18:45	Bradley M Berlot	1
06037	Manganese	SW-846 6020A	1	172771063901A	10/12/2017 06:39	Sarah L Burt	1
06038	Molybdenum	SW-846 6020A	1	172771063901C	10/09/2017 18:45	Bradley M Berlot	1
06039	Nickel	SW-846 6020A	1	172771063901A	10/09/2017 18:45	Bradley M Berlot	1
06041	Selenium	SW-846 6020A	1	172771063901B	10/09/2017 18:45	Bradley M Berlot	1
06042	Silver	SW-846 6020A	1	172771063901A	10/09/2017 18:45	Bradley M Berlot	1
06045	Thallium	SW-846 6020A	1	172771063901A	10/09/2017 18:45	Bradley M Berlot	1
06048	Vanadium	SW-846 6020A	1	172771063901A	10/09/2017 18:45	Bradley M Berlot	1
06049	Zinc	SW-846 6020A	1	172771063901A	10/09/2017 18:45	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

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Analysis Report

Sample Description: SC39163-01 Grab Water

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Sample # WW 9210929
ELLE Group # 1851007
Account # 30891

Collected: 09/12/2017 12:15

Submitted: 09/15/2017 09:55
Reported: 10/06/2017 14:34

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

O4001 SDG#: THO40-01

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
02740	C8-C44	n.a.	0.33		0.062	0.12	0.25	1
02740	Total TPH	n.a.	0.33		0.062	0.12	0.25	1
Misc. Organics	**EPA 537 Version 1.1 Modified**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10954	Perfluorobutanesulfonate	375-73-5	2	J	0.8	3	3	1
10954	Perfluorobutanoic Acid	375-22-4	10		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	7		0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	20		1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	9		0.6	2	2	1
10954	Perfluorononanoic acid	375-95-1	1	J	0.6	2	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	6	U	2	6	6	1
10954	Perfluorooctanoic acid	335-67-1	12		0.6	2	2	1
10954	Perfluoropentanoic Acid	2706-90-3	9		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	PFOSA	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

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	172610028A	09/20/2017 21:39	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172610028A	09/19/2017 08:00	Kayla A Yuditsky	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17262001	09/22/2017 05:08	Jason W Knight	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17262001	09/19/2017 09:05	Pamela Rothharpt	1

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

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Analysis Report

Sample Description: SC39163-02 Grab Water

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Sample # WW 9210930
ELLE Group # 1851007
Account # 30891

Collected: 09/12/2017 10:30

Submitted: 09/15/2017 09:55
Reported: 10/06/2017 14:34

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

O4002 SDG#: THO40-02

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
02740	C8-C44	n.a.	0.64		0.051	0.10	0.21	1
02740	Total TPH	n.a.	0.64		0.051	0.10	0.21	1
Misc. Organics	**EPA 537 Version 1.1 Modified**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
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	3		0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	5		1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	5		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	4		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	PFOSA	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

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	172610028A	09/20/2017 22:00	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172610028A	09/19/2017 08:00	Kayla A Yuditsky	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17262001	09/22/2017 05:28	Jason W Knight	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17262001	09/19/2017 09:05	Pamela Rothharpt	1

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

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Analysis Report

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Sample Description: SC39163-03 Grab Water

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Sample # WW 9210931
ELLE Group # 1851007
Account # 30891

Collected: 09/12/2017 14:15

Submitted: 09/15/2017 09:55
Reported: 10/06/2017 14:34

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

O4003 SDG#: THO40-03

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
02740	C8-C44	n.a.	0.22		0.051	0.10	0.20	1
02740	Total TPH	n.a.	0.22		0.051	0.10	0.20	1
Misc. Organics	**EPA 537 Version 1.1 Modified**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10954	Perfluorobutanesulfonate	375-73-5	12		0.8	3	3	1
10954	Perfluorobutanoic Acid	375-22-4	15		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	4	J	2	6	6	1
10954	Perfluoroheptanoic acid	375-85-9	9		0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	180		1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	31		0.6	2	2	1
10954	Perfluorononanoic acid	375-95-1	2	U	0.6	2	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	390		2	6	6	1
10954	Perfluorooctanoic acid	335-67-1	20		0.6	2	2	1
10954	Perfluoropentanoic Acid	2706-90-3	15		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	PFOSA	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

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	172610028A	09/20/2017 22:22	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172610028A	09/19/2017 08:00	Kayla A Yuditsky	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17262001	09/22/2017 06:30	Jason W Knight	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17262001	09/19/2017 09:05	Pamela Rothharpt	1

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

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Analysis Report

Sample Description: SC39163-04 Grab Water

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Sample # WW 9210932
ELLE Group # 1851007
Account # 30891

Collected: 09/12/2017 10:20

Submitted: 09/15/2017 09:55
Reported: 10/06/2017 14:34

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

O4004 SDG#: THO40-04

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
02740	C8-C44	n.a.	0.27		0.051	0.10	0.20	1
02740	Total TPH	n.a.	0.27		0.051	0.10	0.20	1
Misc. Organics	**EPA 537 Version 1.1 Modified**		**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	1	J	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	J	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	PFOSA	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

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	172610028A	09/20/2017 22:43	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172610028A	09/19/2017 08:00	Kayla A Yuditsky	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17262001	09/22/2017 06:51	Jason W Knight	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17262001	09/19/2017 09:05	Pamela Rothharpt	1

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

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Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: SC39163-05 Grab Water

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Sample # WW 9210933
ELLE Group # 1851007
Account # 30891

Collected: 09/12/2017 12:00

Submitted: 09/15/2017 09:55
Reported: 10/06/2017 14:34

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

O4005 SDG#: THO40-05

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
02740	C8-C44	n.a.	0.26		0.051	0.10	0.21	1
02740	Total TPH	n.a.	0.26		0.051	0.10	0.21	1
Misc. Organics	**EPA 537 Version 1.1 Modified**		**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	1	J	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	J	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	PFOSA	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

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	172610028A	09/20/2017 23:04	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172610028A	09/19/2017 08:00	Kayla A Yuditsky	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17262001	09/22/2017 07:11	Jason W Knight	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17262001	09/19/2017 09:05	Pamela Rothharpt	1

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

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Analysis Report

Sample Description: SC39163-06 Grab Water

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Sample # WW 9210934
ELLE Group # 1851007
Account # 30891

Collected: 09/12/2017 15:10

Submitted: 09/15/2017 09:55
Reported: 10/06/2017 14:34

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

O4006 SDG#: THO40-06

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
02740	C8-C44	n.a.	0.11	U	0.053	0.11	0.21	1
02740	Total TPH	n.a.	0.11	U	0.053	0.11	0.21	1
Misc. Organics	**EPA 537 Version 1.1 Modified**		**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	PFOSA	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

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	172610028A	09/20/2017 23:26	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172610028A	09/19/2017 08:00	Kayla A Yuditsky	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17262001	09/22/2017 07:32	Jason W Knight	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17262001	09/19/2017 09:05	Pamela Rothharpt	1

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

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Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: SC39163-07 Grab Water

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Sample # WW 9210935
ELLE Group # 1851007
Account # 30891

Collected: 09/12/2017 08:00

Submitted: 09/15/2017 09:55
Reported: 10/06/2017 14:34

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

O4007 SDG#: THO40-07

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
02740	C8-C44	n.a.	0.10	U	0.051	0.10	0.21	1
02740	Total TPH	n.a.	0.10	U	0.051	0.10	0.21	1
Misc. Organics	**EPA 537 Version 1.1 Modified**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10954	Perfluorobutanesulfonate	375-73-5	0.9	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	0.9	J	0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	4		1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	1	J	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	J	0.6	2	2	1
10954	Perfluoropentanoic Acid	2706-90-3	1	J	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	PFOSA	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.

The recovery for labeled compound used as extraction standard 13C2-PFTeDA is outside of QC accpetance limits in the closing calibration verification standard(CCV) associated with this sample.

The recovery for labeled compound used as extraction standard 13C2-PFTeDA is outside of QC acceptance limits in the method blank associated with this sample.

The LCS/LCSD extraction standard(s) recovery is outside the QC acceptance limits as noted on the QC Summary. Since the recovery for the target analytes is compliant, the data is reported.

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

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

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Analysis Report

Sample Description: SC39163-07 Grab Water

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Sample # WW 9210935
ELLE Group # 1851007
Account # 30891

Collected: 09/12/2017 08:00

Submitted: 09/15/2017 09:55
Reported: 10/06/2017 14:34

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

O4007 SDG#: THO40-07

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	172610028A	09/20/2017 23:48	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172610028A	09/19/2017 08:00	Kayla A Yuditsky	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17269014	09/29/2017 12:20	Jason W Knight	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	2	17269014	09/26/2017 14:35	Danielle D McCully	1

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

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Analysis Report

Sample Description: SC39163-08 Grab Water

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Sample # WW 9210936
ELLE Group # 1851007
Account # 30891

Collected: 09/12/2017 12:15

Submitted: 09/15/2017 09:55
Reported: 10/06/2017 14:34

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

O4008 SDG#: THO40-08

CAT No.	Analysis Name	CAS Number	Result		Detection Limit*	Limit of Detection	Limit of Quantitation	DF
Misc. Organics	**EPA 537 Version 1.1 Modified**		**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	PFOSA	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

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	17262001	09/22/2017 08:13	Jason W Knight	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17262001	09/19/2017 09:05	Pamela Rothharpt	1

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

APPENDIX C

SUPPORT DOCUMENTATION

ANALYTE	ORIGINAL	DUPLICATE	RL	RPD	RPD > 30%	ORIGINAL SAMPLE CONC >2xRL	DUPLICATE SAMPLE CONC >2xRL	DIFFERENCE >2xRL
ARSENIC	0.0764	0.075	0.004	1.85	FALSE	TRUE	TRUE	FALSE
BARIUM	0.0083	0.0066	0.004	22.82	FALSE	TRUE	FALSE	FALSE
CALCIUM	8.69	8.73	0.2	0.46	FALSE	TRUE	TRUE	FALSE
COBALT	0.0248	0.0252	0.001	1.60	FALSE	TRUE	TRUE	FALSE
COPPER	0.0013	0.0011	0.004	16.67	FALSE	FALSE	FALSE	FALSE
IRON	45	45.3	0.08	0.66	FALSE	TRUE	TRUE	TRUE
LEAD	0.00096	0.00093	0.002	3.17	FALSE	FALSE	FALSE	FALSE
MAGNESIUM	1.8	1.8	0.02	0.00	FALSE	TRUE	TRUE	FALSE
MANGANESE	2.94	2.97	0.004	1.02	FALSE	TRUE	TRUE	TRUE
MOLYBDENUM	0.0015	0.002	0.001	28.57	FALSE	FALSE	FALSE	FALSE
NICKEL	0.0057	0.006	0.004	5.13	FALSE	FALSE	FALSE	FALSE
SODIUM	4.3	4.27	0.5	0.70	FALSE	TRUE	TRUE	FALSE
ALKALINITY	27.4	27.1	4	1.10	FALSE	TRUE	TRUE	FALSE
BIOCHEMICAL OXYGEN DEMAND	3	6	3	66.67	TRUE	FALSE	FALSE	FALSE
CHLORIDE	7.43	7.37	1	0.81	FALSE	TRUE	TRUE	FALSE
SULFATE	11	10.9	1	0.91	FALSE	TRUE	TRUE	FALSE
TOTAL ORGANIC CARBON	1.77	1.74	1	1.71	FALSE	FALSE	FALSE	FALSE
METHYL TERT-BUTYL ETHER	0.3	0.5	1	50.00	TRUE	FALSE	FALSE	FALSE
ETHANE	5	6		18.18	FALSE	TRUE	TRUE	TRUE
TPH (C08-C44)	0.27	0.26	0.2	3.77	FALSE	FALSE	FALSE	FALSE
PERFLUOROHEXANOIC ACID	1	1	2	0.00	FALSE	FALSE	FALSE	FALSE
PERFLUOROPENTANOIC ACID	2	2	2	0.00	FALSE	FALSE	FALSE	FALSE
POTASSIUM	2	1.91	1	4.60	FALSE	FALSE	FALSE	FALSE

SDG SC39163

TF1-DUP-03-091217/TF1-GT-118-091217

SC39163 ✓ BM

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CHAIN OF CUSTODY RECORD

Page 1 of 2

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: TetraTech
5 Industrial Way
Salem NH 03079

Telephone #: 603-328-1969
Project Mgr: Steve Parker

Invoice To: Mike Dreyden
Earth Tonics, Inc
8275 S. Eastern Ave.
Las Vegas, NV 89123

P.O No.: _____ Quote #: _____

Project No: 112G08005-WE15
Site Name: Tank Farm 1, NAVSTA Newport
Location: Portsmouth State: RI
Sampler(s): D. Whalen, S. Oshier, J. Pesko

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= _____ 12= _____

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=Compsite

QA/QC Reporting Notes:
* additional charges may appply

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:

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		TPH (8015D)	SVOCs/PAHs (8270D)	TAL metals (6020A/7470A)	TCL VOCs (8260)	Anions (9056A), BOD (5210B), Alk. (2320B)	TOC (5310B)	Dissolved Gases (RSK-175)	PFAS (537 mod.)	Check if chlorinated
SC39163-01	TFI-GT-130-091217	9-12-17	1215	G	GW	7	6		5		✓	✓	✓	✓	✓	✓	✓	✓	☐
02	TFI-GT-115-091217	↓	1030	G	GW	7	6		5		✓	✓	✓	✓	✓	✓	✓	✓	☐
03	TFI-GT-111-091217		1415	G	GW	7	6		5		✓	✓	✓	✓	✓	✓	✓	✓	☐
04	TFI-GT-118-091217		1020	G	GW	7	6		5		✓	✓	✓	✓	✓	✓	✓	✓	☐
05	TFI-DUP-03-091217		1200	G	GW	7	6		5		✓	✓	✓	✓	✓	✓	✓	✓	☐
06	TFI-MW-1004-091217		1510	G	GW	7	6		5		✓	✓	✓	✓	✓	✓	✓	✓	☐
07	TFI-GZ-106-091217		0800	G	GW	7	4		3		✓	✓	✓	✓		✓	✓	✓	☐
08	TFI-FRB-091217		1215	G	X1				2									✓	☐
09	TFI-TB-091217	↓	0745		X1	1								✓					☐
																			☐

List Preservative Code below: 2 | 4 | 2 | 10

Relinquished by:	Received by:	Date:	Time:
Daniel Whalen	[signature]	9-13-17	11:54
[signature]	[signature]	9/13/17	17:45

Temp °C: Observed 3.2; Correction Factor 0; Corrected 3.2; IR ID # 01

☒ EDD format:
☒ E-mail to: stephen.parker@tetratech.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

SDG SC39163 Page 11 / 2117

SC39163 By ✓

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CHAIN OF CUSTODY RECORD

Page 2 of 2

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: TetraTech, 5 Fudustrial Way, 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: 112G08005-WE15
Site Name: Tank Farm 1, NAVSTA Newport
Location: Portsmouth State: RI
Sampler(s): D. Whalen, S. Oshier, J. Pesko

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= _____ 12= _____

List Preservative Code below:

QA/QC Reporting Notes:
* additional charges may appply

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=Compsite

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:

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		Pesticides (8081B)	PCBs (Aroclors, 8082A)							Check if chlorinated
SC39163-01	TFI-GT-130-091217	9-12-17	1215	G	GW	7	6		5		✓								☐
02	TFI-GT-115-091217	↓	1030	G	GW	7	6		5		✓								☐
03	TFI-GT-111-091217	↓	1415	G	GW	7	6		5		✓								☐
04	TFI-GT-118-091217	↓	1020	G	GW	7	6		5		✓								☐
05	TFI-DUP-03-091217	↓	1200	G	GW	7	6		5		✓								☐
06	TFI-MW-1004-091217	↓	1510	G	GW	7	6		5		✓								☐
07	TFI-GZ-106-091217	↓	0800	G	GW	7	4		3										☐
08	TFI-FRB-091217	↓	1215		X1				2										☐
09	TFI-TB-091217	↓	0745		X1	1													☐
																			☐

Relinquished by:	Received by:	Date:	Time:	Temp °C
Donald Whalen	[signature]	9-13-17	11:54	Observed 3.2
[signature]	[signature]	9/13/17	17:45	Correction Factor 0
				Corrected 3.2
				IR ID # 01

☒ EDD format: _____
☒ E-mail to: stephen.parker@tetratech.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

SDGSC39163

SC39163 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 nine Ground Water samples submitted on September 13th, 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 failing 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

Christina A. White Date: 12/08/2017

Laboratory Director

Notes and Definitions

BOD4 Any difference greater than 30% between the high and low dilutions may indicate the presence of a toxic substance. For this sample, one or more of the dilutions is out of acceptance range and cannot be used to determine the % difference.

CRL3 Low level calibration check failed, reporting limit has been elevated.

O01 This compound is a common laboratory contaminant.

QM8 The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

QM9 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.

R06 MRL raised to correlate to batch QC reporting limits.

Z-2 QC recovery was outside of acceptance range however it was re-run before samples were run and was within the control limits.

BRL Below the reporting limit and also indicates there are no detections between the MDL and LOQ.

LOD Limit of Detection

LOQ Limit of Quantitation

RPD is calculated based on final result.

Form I 'Q' column

B The analyte was found in the associated blank as well as the sample.

D All identified compounds in the analysis are at a secondary dilution factor.

E The identified compound's concentration exceeds the calibration range of the instrument for this specific analysis.

F The parameter was positively identified but the associated numerical value is below the LOQ.

J Compound detected but below the LOQ and above the minimum detection limit (MDL); therefore, the result is an estimated concentration.

N Included for TIC that indicates presumptive evidence of a compound.

P Used for a Dual Column target analyte when the concentration difference between the two GC columns is greater than 40%.

U Compound was analyzed for but not detected. Samples were reported to the LOD.

Form IIa 'Method' column

This column refers to the instrument used for analysis:

IR Iris ICP

MS Thermo ICP/MS

AV Mercury analyzer

Form VI 'Q' column

***** indicates that:
Mean RF is above the value in the LIMIT column, or
Linear COD is below the value in the LIMIT column, or
Quad COD is below the value in the LIMIT column

Form VII 'Type' column

A Average of response factor

L Linear regression

Q Quadratic equation

Sample Identification and Analytical Requirements Summary

Project Name: WE15 Tank Farm 1 NAVSTA Newport SDG: SC39163

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		VOC Method #	SVOC Method #	GC Method #	Metals	Other
TF1-GT-130-091217	SC39163-01	SW846 8260C	8015DM SW846 8270D	SW846 8081B	EPA 245.1/7470A SW846 6010C SW846 6020A	EPA 300.0 EPA 537 Rev. 1.1 modified Mod EPA 3C/SOP RSK-175 SM18-22 5210B SM2320B (97, 11) SM5310B (00, 11)
TF1-GT-115-091217	SC39163-02	SW846 8260C	8015DM SW846 8270D	SW846 8081B	EPA 245.1/7470A SW846 6010C SW846 6020A	EPA 300.0 EPA 537 Rev. 1.1 modified Mod EPA 3C/SOP RSK-175 SM18-22 5210B SM2320B (97, 11) SM5310B (00, 11)
TF1-GT-111-091217	SC39163-03	SW846 8260C	8015DM SW846 8270D	SW846 8081B	EPA 245.1/7470A SW846 6010C SW846 6020A	EPA 300.0 EPA 537 Rev. 1.1 modified Mod EPA 3C/SOP RSK-175 SM18-22 5210B SM2320B (97, 11) SM5310B (00, 11)
TF1-GT-118-091217	SC39163-04	SW846 8260C	8015DM SW846 8270D	SW846 8081B	EPA 245.1/7470A SW846 6010C SW846 6020A	EPA 300.0 EPA 537 Rev. 1.1 modified Mod EPA 3C/SOP RSK-175 SM18-22 5210B SM2320B (97, 11) SM5310B (00, 11)
TF1-DUP-03-091217	SC39163-05	SW846 8260C	8015DM SW846 8270D	SW846 8081B	EPA 245.1/7470A SW846 6010C SW846 6020A	EPA 300.0 EPA 537 Rev. 1.1 modified Mod EPA 3C/SOP RSK-175 SM18-22 5210B SM2320B (97, 11) SM5310B (00, 11)
TF1-MW-1004-091217	SC39163-06	SW846 8260C	8015DM SW846 8270D	SW846 8081B	EPA 245.1/7470A SW846 6010C SW846 6020A	EPA 300.0 EPA 537 Rev. 1.1 modified Mod EPA 3C/SOP RSK-175 SM18-22 5210B SM2320B (97, 11) SM5310B (00, 11)

Sample Identification and Analytical Requirements Summary

Project Name: WE15 Tank Farm 1 NAVSTA Newport SDG: SC39163

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		VOC Method #	SVOC Method #	GC Method #	Metals	Other
TF1-GZ-106-091217	SC39163-07	SW846 8260C	8015DM SW846 8270D		EPA 245.1/7470A SW846 6010C SW846 6020A	EPA 537 Rev. 1.1 modified Mod EPA 3C/SOP RSK-175 SM5310B (00, 11)
TF1-FRB-091217	SC39163-08					EPA 537 Rev. 1.1 modified
TF1-TB-091217	SC39163-09	SW846 8260C				

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39163

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112G08005-WE15

SDG #: SC39163

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-091217, TF1-MW-1004-091217, TF1-GZ-106-091217, TF1-GT-130-091217, TF1-GT-118-091217, TF1-GT-115-091217, TF1-GT-111-091217, TF1-DUP-03-091217, S708215-CCV2, S708215-CCV1, S707839-ICV1, 1715853-BSD1, 1715853-BS1, 1715853-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 with the following exceptions:

Acetone in batch 1715853, sample TF1-GT-130-091217 (SC39163-01): This compound is a common laboratory contaminant.

CROSS REFERENCE TABLE

SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15		

Client Sample ID:	Lab Sample ID:
TF1-GT-130-091217	SC39163-01
TF1-GT-115-091217	SC39163-02
TF1-GT-111-091217	SC39163-03
TF1-GT-118-091217	SC39163-04
TF1-DUP-03-091217	SC39163-05
TF1-MW-1004-091217	SC39163-06
TF1-GZ-106-091217	SC39163-07
TF1-TB-091217	SC39163-09

FORM II - SURROGATE STANDARD RECOVERY SUMMARY

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC39163

Client: Tetra Tech, Inc. - Salem, NH Project: WE15 Tank Farm 1 NAVSTA Newport

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
Blank (1715853-BLK1)	101	98	99	99			0
LCS (1715853-BS1)	99	98	99	98			0
LCS Dup (1715853-BSD1)	96	99	97	98			0
TF1-GT-130-091217 (SC39163-01)	98	99	98	98			0
TF1-GT-115-091217 (SC39163-02)	97	101	98	100			0
TF1-GT-111-091217 (SC39163-03)	99	99	98	98			0
TF1-GT-118-091217 (SC39163-04)	96	96	97	101			0
TF1-DUP-03-091217 (SC39163-05)	96	99	99	99			0
TF1-MW-1004-091217 (SC39163-06)	100	98	99	98			0
TF1-GZ-106-091217 (SC39163-07)	97	96	98	97			0
TF1-TB-091217 (SC39163-09)	97	98	100	97			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	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708215	Instrument:	HPV3
Matrix:	Aqueous	Calibration:	1709004
Analyzed:	09/16/17 00:54	File ID:	CCC0915B.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	443176	11.15	458372	8.80	1017003	5.48						
Upper Limit	886352	11.65	916744	9.30	2034006	5.98						
Lower Limit	221588	10.65	229186	8.30	508502	4.98						
Sample ID												
Calibration Check (S708215-CCV2)	432446	11.146	448762	8.803	1033584	5.477						
Blank (1715853-BLK1)	420809	11.146	442493	8.803	1032521	5.477						
LCS (1715853-BS1)	418748	11.146	440368	8.799	1005031	5.481						
LCS Dup (1715853-BSD1)	447724	11.146	469618	8.803	1090533	5.481						
TF1-GT-130-091217 (SC39163-01)	432459	11.146	456553	8.803	1062408	5.481						
TF1-GT-115-091217 (SC39163-02)	447953	11.146	464285	8.798	1060802	5.481						
TF1-GT-111-091217 (SC39163-03)	436415	11.146	464720	8.803	1092316	5.481						
TF1-GT-118-091217 (SC39163-04)	422223	11.146	463992	8.799	1069795	5.481						
TF1-DUP-03-091217 (SC39163-05)	436170	11.146	463566	8.803	1067650	5.481						
TF1-MW-1004-091217 (SC39163-06)	422813	11.146	446852	8.803	1053761	5.481						
TF1-GZ-106-091217 (SC39163-07)	423032	11.146	455324	8.799	1058897	5.481						
TF1-TB-091217 (SC39163-09)	414040	11.146	441087	8.803	1038497	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

1715853-BLK1

SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1715853-BLK1	File ID:	BK30915D.D
		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Analyzed:	09/16/17 00:25	Instrument:	HPV3		
Batch:	1715853	Sequence:	S708215	Calibration:	1709004

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1715853-BS1	LCS0915C.D	09/16/17	1:23
LCS Dup	1715853-BSD1	LCS0915D.D	09/16/17	1:52
TF1-GT-130-091217	SC39163-01	3916301.D	09/16/17	3:47
TF1-GT-115-091217	SC39163-02	3916302.D	09/16/17	4:16
TF1-GT-111-091217	SC39163-03	3916303.D	09/16/17	4:45
TF1-GT-118-091217	SC39163-04	3916304.D	09/16/17	5:13
TF1-DUP-03-091217	SC39163-05	3916305.D	09/16/17	5:42
TF1-MW-1004-091217	SC39163-06	3916306.D	09/16/17	6:11
TF1-GZ-106-091217	SC39163-07	3916307.D	09/16/17	6:40
TF1-TB-091217	SC39163-09	3916309.D	09/16/17	7:09

FORM I - ORGANIC ANALYSIS DATA SHEET
SW846 8260C

1715853-BLK1

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1715853-BLK1	File ID:	BK30915D.D
		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Analyzed:	09/16/17 00:25	Instrument:	HPV3		
Batch:	1715853	Sequence:	S708215	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

1715853-BLK1

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1715853-BLK1	File ID:	BK30915D.D
		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Analyzed:	09/16/17 00:25	Instrument:	HPV3		
Batch:	1715853	Sequence:	S708215	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:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPV3
Batch:	1715853	Laboratory ID:	1715853-BS1
Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Analyzed:	09/16/17 01:23	Spike ID:	17I0350
		File ID:	LCS0915C.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.2	91	70 - 136
Acetone	20.0	17.0	85	39 - 160
Benzene	20.0	20.8	104	79 - 120
Bromochloromethane	20.0	19.9	99	78 - 123
Bromodichloromethane	20.0	22.2	111	79 - 125
Bromoform	20.0	20.0	100	66 - 130
Bromomethane	20.0	16.7	83	53 - 141
2-Butanone (MEK)	20.0	21.2	106	56 - 143
Carbon disulfide	20.0	19.5	97	64 - 133
Carbon tetrachloride	20.0	19.4	97	72 - 136
Chlorobenzene	20.0	20.9	104	82 - 118
Chloroethane	20.0	19.1	95	60 - 138
Chloroform	20.0	20.7	104	79 - 124
Chloromethane	20.0	24.0	120	50 - 139
1,2-Dibromo-3-chloropropane	20.0	19.2	96	62 - 128
Dibromochloromethane	20.0	20.0	100	74 - 126
1,2-Dibromoethane (EDB)	20.0	19.8	99	77 - 121
1,2-Dichlorobenzene	20.0	20.9	105	80 - 119
1,3-Dichlorobenzene	20.0	21.7	108	80 - 119
1,4-Dichlorobenzene	20.0	21.0	105	79 - 118
Dichlorodifluoromethane (Freon12)	20.0	20.1	101	32 - 152
1,1-Dichloroethane	20.0	21.6	108	77 - 125
1,2-Dichloroethane	20.0	19.8	99	73 - 128
1,1-Dichloroethene	20.0	17.8	89	71 - 131
cis-1,2-Dichloroethene	20.0	21.0	105	78 - 123
trans-1,2-Dichloroethene	20.0	20.5	102	75 - 124
1,2-Dichloropropane	20.0	20.8	104	78 - 128
cis-1,3-Dichloropropene	20.0	18.9	94	75 - 124
trans-1,3-Dichloropropene	20.0	19.0	95	73 - 127
Ethylbenzene	20.0	21.5	108	79 - 121

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPV3
Batch:	1715853	Laboratory ID:	1715853-BS1
Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Analyzed:	09/16/17 01:23	Spike ID:	17I0350
		File ID:	LCS0915C.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
2-Hexanone (MBK)	20.0	17.2	86	57 - 139
Isopropylbenzene	20.0	20.8	104	72 - 131
Methyl tert-butyl ether	20.0	19.8	99	71 - 124
4-Methyl-2-pentanone (MIBK)	20.0	17.6	88	67 - 130
Methylene chloride	20.0	18.8	94	74 - 124
Styrene	20.0	21.8	109	78 - 123
1,1,2,2-Tetrachloroethane	20.0	20.3	101	71 - 121
Tetrachloroethene	20.0	19.7	98	74 - 129
Toluene	20.0	20.8	104	80 - 121
1,2,3-Trichlorobenzene	20.0	18.8	94	69 - 129
1,2,4-Trichlorobenzene	20.0	18.8	94	69 - 130
1,1,1-Trichloroethane	20.0	21.2	106	74 - 131
1,1,2-Trichloroethane	20.0	20.1	100	80 - 119
Trichloroethene	20.0	20.7	104	79 - 123
Trichlorofluoromethane (Freon 11)	20.0	19.0	95	64 - 141
Vinyl chloride	20.0	22.0	110	58 - 137
m,p-Xylene	20.0	21.9	110	80 - 121
o-Xylene	20.0	22.2	111	78 - 122
Cyclohexane	20.0	21.3	107	71 - 130
Methyl acetate	20.0	14.7	74	56 - 136
Methylcyclohexane	20.0	20.6	103	72 - 132

File ID: LCS0915D.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,2-Trichlorotrifluoroethane (Freon	20.0	16.6	83	9	25	70 - 136
Acetone	20.0	15.1	76	12	50	39 - 160
Benzene	20.0	19.2	96	8	25	79 - 120
Bromochloromethane	20.0	18.7	94	6	25	78 - 123
Bromodichloromethane	20.0	19.4	97	14	25	79 - 125

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPV3
Batch:	1715853	Laboratory ID:	1715853-BSD1
Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Analyzed:	09/16/17 01:52	Spike ID:	17I0350
		File ID:	LCS0915D.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromoform	20.0	19.2	96	4	25	66 - 130
Bromomethane	20.0	15.4	77	8	50	53 - 141
2-Butanone (MEK)	20.0	20.9	104	2	50	56 - 143
Carbon disulfide	20.0	16.3	81	18	25	64 - 133
Carbon tetrachloride	20.0	17.0	85	13	25	72 - 136
Chlorobenzene	20.0	19.5	98	7	25	82 - 118
Chloroethane	20.0	16.6	83	14	50	60 - 138
Chloroform	20.0	18.5	92	12	25	79 - 124
Chloromethane	20.0	22.8	114	5	25	50 - 139
1,2-Dibromo-3-chloropropane	20.0	16.8	84	13	25	62 - 128
Dibromochloromethane	20.0	17.9	90	11	50	74 - 126
1,2-Dibromoethane (EDB)	20.0	19.0	95	4	25	77 - 121
1,2-Dichlorobenzene	20.0	20.1	100	4	25	80 - 119
1,3-Dichlorobenzene	20.0	20.2	101	7	25	80 - 119
1,4-Dichlorobenzene	20.0	19.4	97	8	25	79 - 118
Dichlorodifluoromethane (Freon12)	20.0	18.5	93	8	50	32 - 152
1,1-Dichloroethane	20.0	19.5	97	10	25	77 - 125
1,2-Dichloroethane	20.0	18.2	91	9	25	73 - 128
1,1-Dichloroethene	20.0	15.7	79	12	25	71 - 131
cis-1,2-Dichloroethene	20.0	17.9	90	16	25	78 - 123
trans-1,2-Dichloroethene	20.0	17.5	88	16	25	75 - 124
1,2-Dichloropropane	20.0	18.7	93	11	25	78 - 128
cis-1,3-Dichloropropene	20.0	17.8	89	6	25	75 - 124
trans-1,3-Dichloropropene	20.0	17.8	89	7	25	73 - 127
Ethylbenzene	20.0	19.8	99	8	25	79 - 121
2-Hexanone (MBK)	20.0	17.3	86	0.1	25	57 - 139
Isopropylbenzene	20.0	19.4	97	7	25	72 - 131
Methyl tert-butyl ether	20.0	18.4	92	7	25	71 - 124
4-Methyl-2-pentanone (MIBK)	20.0	16.0	80	10	50	67 - 130
Methylene chloride	20.0	15.9	79	17	25	74 - 124

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPV3
Batch:	1715853	Laboratory ID:	1715853-BSD1
Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Analyzed:	09/16/17 01:52	Spike ID:	17I0350
		File ID:	LCS0915D.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Styrene	20.0	19.6	98	11	25	78 - 123
1,1,2,2-Tetrachloroethane	20.0	19.1	96	6	25	71 - 121
Tetrachloroethene	20.0	18.2	91	8	25	74 - 129
Toluene	20.0	18.5	92	12	25	80 - 121
1,2,3-Trichlorobenzene	20.0	19.1	95	2	25	69 - 129
1,2,4-Trichlorobenzene	20.0	18.3	91	3	25	69 - 130
1,1,1-Trichloroethane	20.0	18.1	91	16	25	74 - 131
1,1,2-Trichloroethane	20.0	18.6	93	7	25	80 - 119
Trichloroethene	20.0	18.2	91	13	25	79 - 123
Trichlorofluoromethane (Freon 11)	20.0	16.4	82	14	50	64 - 141
Vinyl chloride	20.0	20.2	101	9	25	58 - 137
m,p-Xylene	20.0	20.1	101	8	25	80 - 121
o-Xylene	20.0	20.2	101	9	25	78 - 122
Cyclohexane	20.0	18.3	91	16	30	71 - 130
Methyl acetate	20.0	14.5	73	1	30	56 - 136
Methylcyclohexane	20.0	18.8	94	9	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. SC39163

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112G08005-WE15

SDG #: SC39163

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 8270D.

IV. PREPARATION

Aqueous samples were prepared according to SW846 3510C.

V. INSTRUMENTATION

The following equipment was used to analyze SW846 8270D:

HPS5 details: Agilent 6890 with 5973 MS: Agilent HP-5MS (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.

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.

CROSS REFERENCE TABLE

SW846 8270D

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15		

Client Sample ID:	Lab Sample ID:
TF1-GT-130-091217	SC39163-01
TF1-GT-115-091217	SC39163-02
TF1-GT-111-091217	SC39163-03
TF1-GT-118-091217	SC39163-04
TF1-DUP-03-091217	SC39163-05
TF1-MW-1004-091217	SC39163-06
TF1-GZ-106-091217	SC39163-07

FORM II - SURROGATE STANDARD RECOVERY SUMMARY

SW846 8270D

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Spike ID: 17I0218

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
Blank (1715919-BLK1)	65	64	78				0
LCS (1715919-BS1)	63	62	75				0
LCS Dup (1715919-BSD1)	59	58	72				0
TF1-GT-130-091217 (SC39163-01)	57	55	67				0
TF1-GT-115-091217 (SC39163-02)	56	54	66				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: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Spike ID: 17I0218

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
TF1-GT-111-091217 (SC39163-03)	56	53	67				0
TF1-GT-118-091217 (SC39163-04)	56	55	69				0
TF1-DUP-03-091217 (SC39163-05)	52	51	64				0
TF1-MW-1004-091217 (SC39163-06)	50	50	69				0
TF1-GZ-106-091217 (SC39163-07)	59	57	71				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 VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

SW846 8270D

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708501	Instrument:	HPS5
Matrix:	Aqueous	Calibration:	1709033
Analyzed:	09/20/17 20:29	File ID:	SCG50920.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	1628869	7.72	3209585	12.95	3112872	5.53	3501548	15.35	3185304	9.49		
Upper Limit	3257738	8.22	6419170	13.45	6225744	6.03	7003096	15.85	6370608	9.99		
Lower Limit	814435	7.22	1604793	12.45	1556436	5.03	1750774	14.85	1592652	8.99		
Sample ID												
Calibration Check (S708501-CCV2)	1750024	7.723	3445530	12.958	3322410	5.535	3739342	15.357	3376585	9.493		
Blank (1715919-BLK1)	1884815	7.717	3773280	12.94	3686193	5.523	4041967	15.34	3649789	9.487		
LCS (1715919-BS1)	2069992	7.729	4172570	12.958	3938619	5.529	4471020	15.357	3839401	9.499		
LCS Dup (1715919-BSD1)	1927401	7.728	3885886	12.952	3667057	5.529	4175626	15.357	3597834	9.493		
TF1-GT-130-091217 (SC39163-01)	1889093	7.723	3777441	12.946	3635123	5.523	4036018	15.346	3644184	9.487		
TF1-GT-115-091217 (SC39163-02)	1880915	7.723	3790362	12.946	3590281	5.523	4085522	15.352	3653643	9.487		

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	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708502	Instrument:	HPS5
Matrix:	Aqueous	Calibration:	1709033
Analyzed:	09/21/17 07:34	File ID:	SCD50920.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	1750024	7.72	3445530	12.96	3322410	5.54	3739342	15.36	3376585	9.49		
Upper Limit	3500048	8.22	6891060	13.46	6644820	6.04	7478684	15.86	6753170	9.99		
Lower Limit	875012	7.22	1722765	12.46	1661205	5.04	1869671	14.86	1688293	8.99		
Sample ID												
Calibration Check (S708502-CCV2)	2014918	7.728	3938702	12.958	3849351	5.535	4260207	15.363	3827602	9.499		
TF1-GT-111-091217 (SC39163-03)	1941775	7.717	3903592	12.946	3801537	5.523	4195011	15.352	3703738	9.487		
TF1-GT-118-091217 (SC39163-04)	1972847	7.723	3922189	12.946	3786540	5.523	4185894	15.352	3746002	9.487		
TF1-DUP-03-091217 (SC39163-05)	1836499	7.717	3623777	12.946	3545516	5.523	3906223	15.346	3446369	9.487		
TF1-MW-1004-091217 (SC39163-06)	1972522	7.717	4006523	12.946	3849380	5.523	4312998	15.352	3787524	9.487		
TF1-GZ-106-091217 (SC39163-07)	1754966	7.717	3509348	12.94	3496586	5.523	3742161	15.346	3393817	9.487		

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

1715919-BLK1

SW846 8270D

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1715919-BLK1	File ID:	BK715919.D
		Preparation:	SW846 3510C	Initial/Final:	980 ml / 1 ml
Analyzed:	09/20/17 21:01	Instrument:	HPS5		
Batch:	1715919	Sequence:	S708501	Calibration:	1709033

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1715919-BS1	BS715919.D	09/20/17	21:32
LCS Dup	1715919-BSD1	BSD15919.D	09/20/17	22:04
TF1-GT-130-091217	SC39163-01	C3916301.D	09/21/17	5:59
TF1-GT-115-091217	SC39163-02	C3916302.D	09/21/17	6:30
TF1-GT-111-091217	SC39163-03	C3916303.D	09/21/17	8:06
TF1-GT-118-091217	SC39163-04	C3916304.D	09/21/17	8:37
TF1-DUP-03-091217	SC39163-05	C3916305.D	09/21/17	9:09
TF1-MW-1004-091217	SC39163-06	C3916306.D	09/21/17	9:40
TF1-GZ-106-091217	SC39163-07	C3916307.D	09/21/17	10:11

FORM I - ORGANIC ANALYSIS DATA SHEET
SW846 8270D

1715919-BLK1

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1715919-BLK1	File ID:	BK715919.D
		Preparation:	SW846 3510C	Initial/Final:	980 ml / 1 ml
Analyzed:	09/20/17 21:01	Instrument:	HPS5		
Batch:	1715919	Sequence:	S708501	Calibration:	1709033

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	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPS5
Batch:	1715919	Laboratory ID:	1715919-BS1
Preparation:	SW846 3510C	Initial/Final:	990 ml / 1 ml
Analyzed:	09/20/17 21:32	Spike ID:	17H0927
		File ID:	BS715919.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
Acenaphthene	50.5	30.6	61	47 - 122
Acenaphthylene	50.5	30.3	60	41 - 130
Anthracene	50.5	34.8	69	57 - 123
Benzo (a) anthracene	50.5	34.1	68	58 - 125
Benzo (a) pyrene	50.5	35.4	70	54 - 128
Benzo (b) fluoranthene	50.5	36.8	73	53 - 131
Benzo (g,h,i) perylene	50.5	33.3	66	50 - 134
Benzo (k) fluoranthene	50.5	33.0	65	57 - 129
Chrysene	50.5	33.5	66	59 - 123
Dibenzo (a,h) anthracene	50.5	36.9	73	51 - 134
Fluoranthene	50.5	35.9	71	57 - 128
Fluorene	50.5	31.5	62	52 - 124
Indeno (1,2,3-cd) pyrene	50.5	36.0	71	52 - 134
1-Methylnaphthalene	50.5	32.7	65	41 - 119
2-Methylnaphthalene	50.5	36.4	72	40 - 121
Naphthalene	50.5	28.8	57	40 - 121
Phenanthrene	50.5	33.3	66	59 - 120
Pyrene	50.5	33.5	66	57 - 126

File ID: BSD15919.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	50.5	29.1	58	5	20	47 - 122
Acenaphthylene	50.5	28.7	57	5	20	41 - 130
Anthracene	50.5	32.1	64	8	20	57 - 123
Benzo (a) anthracene	50.5	32.3	64	5	20	58 - 125
Benzo (a) pyrene	50.5	33.9	67	4	20	54 - 128
Benzo (b) fluoranthene	50.5	32.8	65	11	20	53 - 131
Benzo (g,h,i) perylene	50.5	30.9	61	7	20	50 - 134
Benzo (k) fluoranthene	50.5	33.0	65	0.2	20	57 - 129

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8270D

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPS5
Batch:	1715919	Laboratory ID:	1715919-BSD1
Preparation:	SW846 3510C	Initial/Final:	990 ml / 1 ml
Analyzed:	09/20/17 22:04	Spike ID:	17H0927
		File ID:	BSD15919.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chrysene	50.5	32.0	63	5	20	59 - 123
Dibenzo (a,h) anthracene	50.5	34.1	67	8	20	51 - 134
Fluoranthene	50.5	33.5	66	7	20	57 - 128
Fluorene	50.5	29.7	59	6	20	52 - 124
Indeno (1,2,3-cd) pyrene	50.5	33.0	65	8	20	52 - 134
1-Methylnaphthalene	50.5	30.4	60	7	20	41 - 119
2-Methylnaphthalene	50.5	33.3	66	9	20	40 - 121
Naphthalene	50.5	26.7	53	7	20	40 - 121
Phenanthrene	50.5	30.7	61	8	20	59 - 120
Pyrene	50.5	31.4	62	6	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

1715919

FINAL COPY

* A = Analyst * W = Witness

Eurofins Spectrum Analytical, Inc. - MA

☐ Sodium Chloride (NaCl)	17G0504	☐ Florisil	17I0342	☑ Methylene Chloride (CH2Cl2)	17I0401	☐ Ethyl Acetate (C4H8O2)	14K0438
☐ Ottawa Sand	17H0732	☐ Silica gel (EPH)	17H0666	☐ Hexane (C6H14)	17I0189	☑ Aqueous Filter Paper	17I0351
☐ HCL	17H0366	☐ Silica gel (TPH)	17H0665	☐ Acetone (CH3COCH3)	17I0243	☐ Soil Filter Paper	17I0209
☐ Copper	17I0204	☐ Sulfuric Acid (H2SO4)	17H0891	☐ Methanol (CH3OH)	17E0681		
☑ Sodium Sulfate (Na2SO4)	17I0431			☐ Ether (C2H5OC2H5)	17H0567	☐ Gauze Wipe	17A0428
☐ PCB Transformer Oil	10H0132	☐ MTBE	16I0388	☐ Acidified Sodium Sulfate	17G0918	☐ 1:1 HCl Mix	17G0111
☑ 1:1 H2SO4 Mix	17G1000	☐ Acidified Methanol	17G0302	☑ Sodium Hydroxide (NaOH)	17G0775	☐ Glass Wool	17H0734
☐ Iso-octane	17B0969	☐ 37% KOH	17C0273	☐ Sodium Bicarbonate	14K0424	☐ Cupric Sulfate Pentahydrate	
☐ 1ml Syringe I	15A0480	☐ 1ml Syringe II	15A0481	☐ 1ml Syringe III	15A0482	☐ 500ul Syringe	15C0951
☐ 250ul Syringe	15A0484	☐ 100ul Syringe	15A0485	☐ 25ul Syringe I	15A0486	☐ 25ul Syringe II	15A0487
☐ 25ul Syringe III	15A0488	☐ 25ul Syringe IV	15A0489	☐ 25ul Syringe V	15A0490	☐ 10ul Syringe I	15A0491
☐ 1:1 DCM-Acetone	17I0246	☑ pH paper	16A0780	☐ Chlorine Chk Strips	17D0909	Balance ID	

Matrix: Aqueous **Prepared using: SVOC - SW846 3510C** **Surrogate used: 17I0218**

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
1715919-BLK1	Blank	QC	980	1						1000			18-Sep-17 08:00	18-Sep-17						
1715919-BS1	LCS	QC	990	1	17H0927				1000	1000			18-Sep-17 08:00	18-Sep-17						
1715919-BSD1	LCS Dup	QC	990	1	17H0927				1000	1000			18-Sep-17 08:00	18-Sep-17						
1715919-DUP1	Duplicate	QC	1060	1		SC39093-03				1000			11-Sep-17 15:50	18-Sep-17	Cont. M					
1715919-MS1	Matrix Spike	QC	1080	1	17H0927	SC39129-01			1000	1000			12-Sep-17 09:53	18-Sep-17	Cont. J					
1715919-MSD1	Matrix Spike Dup	QC	1080	1	17H0927	SC39129-01			1000	1000			12-Sep-17 09:53	18-Sep-17	Cont. M					
SC39093-01	TF1-GT-121-091117	8270 PAH DoD	1060	1						1000		21-Sep-17 16	11-Sep-17 12:35	18-Sep-17	DoD Level IV/Extra Liter	K				
SC39093-02	TF1-GT-119-091117	8270 PAH DoD	1000	1						1000		21-Sep-17 16	11-Sep-17 13:35	18-Sep-17	DoD Level IV/Extra Liter	L				
SC39093-03	TF1-GZ-103-091117	8270 PAH DoD	1040	1						1000		21-Sep-17 16	11-Sep-17 15:50	18-Sep-17	DoD Level IV/Extra Liter	L				
SC39129-01	BED-GW-ELM3-09122017	8270 PAH DoD	1070	1						1000		21-Sep-17 16	12-Sep-17 09:53	18-Sep-17	MS/MSD/DoD Level IV	L				
SC39129-02	BED-GW-IW18-09122017	8270 PAH DoD	1090	1						1000		21-Sep-17 16	12-Sep-17 10:03	18-Sep-17	Extra liter/DoD Level IV	E				
SC39129-04	BED-GW-MW805-09122017	8270 PAH DoD	1090	1						1000		21-Sep-17 16	12-Sep-17 11:25	18-Sep-17	Extra liter/DoD Level IV	D				
SC39129-05	BED-GW-MW18SR-09122017	8270 PAH DoD	1090	1						1000		21-Sep-17 16	12-Sep-17 12:34	18-Sep-17	Extra liter/DoD Level IV	D				
SC39129-06	BED-GW-MW15SR 09122017	8270 PAH DoD	750	1						1000		21-Sep-17 16	12-Sep-17 12:42	18-Sep-17	DoD Level IV	D				

Analyst Reviewed 9/20/17 Date

Manager Reviewed 9/26/17 Date

9/18/17 Extracts Prepared By Date

Printed: 9/19/2017 6:12:34PM

PREPARATION BENCH SHEET

1715919

FINAL COPY

* A = Analyst * W = Witness

Eurofins Spectrum Analytical, Inc. - MA

Matrix: Aqueous **Prepared using: SVOC - SW846 3510C** **Surrogate used: 17I0218**

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
SC39129-08	BED-GW-Dup01-09122017	8270 PAH DoD	1090	1						1000		21-Sep-17 16	12-Sep-17 00:00	18-Sep-17	Extra liter/DoD Level IV	D				
SC39129-09	BED-GW-Dup02-09122017	8270 PAH DoD	1080	1						1000		21-Sep-17 16	12-Sep-17 00:00	18-Sep-17	Extra liter/DoD Level IV	D				
SC39129-10	BED-GW-RB01-09122017	8270 PAH DoD	1080	1						1000		21-Sep-17 16	12-Sep-17 13:30	18-Sep-17	Extra liter/DoD Level IV	E				
SC39163-01	TF1-GT-130-091217	8270 PAH DoD	940	1						1000		22-Sep-17 16	12-Sep-17 12:15	18-Sep-17	DoD Level IV/Extra Liter	J				
SC39163-02	TF1-GT-115-091217	8270 PAH DoD	1070	1						1000		22-Sep-17 16	12-Sep-17 10:30	18-Sep-17	DoD Level IV/Extra Liter	K				
SC39163-03	TF1-GT-111-091217	8270 PAH DoD	1070	1						1000		22-Sep-17 16	12-Sep-17 14:15	18-Sep-17	DoD Level IV/Extra Liter	L				
SC39163-04	TF1-GT-118-091217	8270 PAH DoD	1020	1						1000		22-Sep-17 16	12-Sep-17 10:20	18-Sep-17	DoD Level IV/Extra Liter	J				
SC39163-05	TF1-DUP-03-091217	8270 PAH DoD	1050	1						1000		22-Sep-17 16	12-Sep-17 12:00	18-Sep-17	DoD Level IV/Extra Liter	J				
SC39163-06	TF1-MW-1004-091217	8270 PAH DoD	1060	1						1000		22-Sep-17 16	12-Sep-17 15:10	18-Sep-17	DoD Level IV/Extra Liter	M				
SC39163-07	TF1-GZ-106-091217	8270 PAH DoD	1060	1						1000		22-Sep-17 16	12-Sep-17 08:00	18-Sep-17	DoD Level IV/Extra Liter	J				

Analyst Reviewed 9/26/17 Date

Manager Reviewed 9/26/17 Date

9/18/17

Extracts Prepared By Date

Printed: 9/19/2017 6:12:34PM

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39163

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112G08005-WE15

SDG #: SC39163

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:

HPS17 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:

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.

CROSS REFERENCE TABLE

SW846 8081B

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15		

Client Sample ID:	Lab Sample ID:
TF1-GT-130-091217	SC39163-01
TF1-GT-115-091217	SC39163-02
TF1-GT-111-091217	SC39163-03
TF1-GT-118-091217	SC39163-04
TF1-DUP-03-091217	SC39163-05
TF1-MW-1004-091217	SC39163-06

FORM II - SURROGATE STANDARD RECOVERY SUMMARY

SW846 8081B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Spike ID: 17I0082

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
Blank (1715920-BLK1)	106	112	99	82			0
LCS (1715920-BS1)	97	100	90	72			0
LCS Dup (1715920-BSD1)	94	101	104	73			0
Instrument Blank (S708605-IBL1)	90	93	100	93			0
Instrument Blank (S708605-IBL2)	90	94	94	96			0
Instrument Blank (S708605-IBL3)	90	92	98	100			0
Instrument Blank (S708605-IBL4)	87	93	98	99			0
TF1-GT-130-091217 (SC39163-01)	87	93	100	88			0
TF1-GT-115-091217 (SC39163-02)	79	88	95	84			0
TF1-GT-111-091217 (SC39163-03)	71	83	96	70			0
TF1-GT-118-091217 (SC39163-04)	105	112	108	90			0
TF1-DUP-03-091217 (SC39163-05)	73	79	74	66			0
TF1-MW-1004-091217 (SC39163-06)	87	104	120	93			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	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708605	Instrument:	HPS17
Matrix:	Aqueous	Calibration:	1709047
Analyzed:	09/27/17 18:15	File ID:	C1170927.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	16792740	3.15	28827860	2.85								
Upper Limit	33585480	3.65	57655720	3.35								
Lower Limit	8396370	2.65	14413930	2.35								
Sample ID												
Calibration Check (S708605-CCV2)	16137720	3.15	27865700	2.85								
Calibration Check (S708605-CCV3)	16260210	3.15	26757370	2.86								
Calibration Check (S708605-CCV4)	26618120	3.15	45403790	2.85								
Calibration Check (S708605-CCV5)	18738820	3.15	33455530	2.85								
Calibration Check (S708605-CCV6)	18907300	3.15	34465360	2.85								
Calibration Check (S708605-CCV7)	19012080	3.11	30408840	2.82								
Calibration Check (S708605-CCV8)	17794030	3.11	26298860	2.82								
Blank (1715920-BLK1)	13224070	3.15	23649140	2.85								
LCS (1715920-BS1)	15053420	3.15	26976430	2.85								
LCS Dup (1715920-BSD1)	14466870	3.15	24752160	2.86								
Instrument Blank (S708605-IBL1)	18564200	3.15	32010740	2.85								
Instrument Blank (S708605-IBL2)	18647850	3.15	31099660	2.85								
Instrument Blank (S708605-IBL3)	23378750	3.15	41137110	2.85								
Instrument Blank (S708605-IBL4)	16109810	3.15	27763930	2.85								
Performance Mix (S708605-PEM1)	32163570	3.15	54004890	2.85								
Performance Mix (S708605-PEM2)	15462740	3.12	25750680	2.83								
Performance Mix (S708605-PEM3)	15808020	3.11	26992710	2.83								
Performance Mix (S708605-PEM4)	15919540	3.11	27845220	2.83								
TF1-GT-130-091217 (SC39163-01)	16144950	3.15	27776840	2.85								
TF1-GT-115-091217 (SC39163-02)	17516110	3.15	27156170	2.85								
TF1-GT-111-091217 (SC39163-03)	15866620	3.15	26262290	2.86								
TF1-GT-118-091217 (SC39163-04)	15174270	3.15	24897620	2.86								
TF1-DUP-03-091217 (SC39163-05)	16746690	3.15	28715400	2.86								
TF1-MW-1004-091217 (SC39163-06)	17066900	3.15	27722700	2.86								

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

1715920-BLK1

SW846 8081B

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1715920-BLK1	File ID:	B1170927.D
		Preparation:	SW846 3510C	Initial/Final:	970 ml / 10 ml
Analyzed:	09/27/17 19:29	Instrument:	HPS17		
Batch:	1715920	Sequence:	S708605	Calibration:	1709047

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1715920-BS1	L1170927.D	09/27/17	19:48
LCS Dup	1715920-BSD1	L2170927.D	09/27/17	20:07
TF1-GT-130-091217	SC39163-01	3916301Z.D	09/27/17	23:49
TF1-GT-115-091217	SC39163-02	3916302Z.D	09/28/17	0:08
TF1-GT-111-091217	SC39163-03	3916303Z.D	09/28/17	0:26
TF1-GT-118-091217	SC39163-04	3916304Z.D	09/28/17	0:45
TF1-DUP-03-091217	SC39163-05	3916305Z.D	09/28/17	1:03
TF1-MW-1004-091217	SC39163-06	3916306Z.D	09/28/17	1:22

FORM I - ANALYSIS DATA SHEET
SW846 8081B

1715920-BLK1

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1715920-BLK1	File ID:	B1170927.D
		Preparation:	SW846 3510C	Initial/Final:	970 ml / 10 ml
Analyzed:	09/27/17 19:29	Instrument:	HPS17		
Batch:	1715920	Sequence:	S708605	Calibration:	1709047

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
319-84-6	alpha-BHC [2C]	1	0.021	U	0.018	0.021	0.021
319-85-7	beta-BHC	1	0.021	U	0.015	0.021	0.021
319-85-7	beta-BHC [2C]	1	0.021	U	0.020	0.021	0.021
319-86-8	delta-BHC	1	0.021	U	0.016	0.021	0.021
319-86-8	delta-BHC [2C]	1	0.021	U	0.020	0.021	0.021
58-89-9	gamma-BHC (Lindane)	1	0.021	U	0.018	0.021	0.021
58-89-9	gamma-BHC (Lindane) [2C]	1	0.021	U	0.018	0.021	0.021
76-44-8	Heptachlor	1	0.021	U	0.020	0.021	0.021
76-44-8	Heptachlor [2C]	1	0.021	U	0.020	0.021	0.021
309-00-2	Aldrin	1	0.021	U	0.016	0.021	0.021
309-00-2	Aldrin [2C]	1	0.021	U	0.019	0.021	0.021
1024-57-3	Heptachlor epoxide	1	0.021	U	0.016	0.021	0.021
1024-57-3	Heptachlor epoxide [2C]	1	0.021	U	0.015	0.021	0.021
959-98-8	Endosulfan I	1	0.021	U	0.017	0.021	0.021
959-98-8	Endosulfan I [2C]	1	0.021	U	0.016	0.021	0.021
60-57-1	Dieldrin	1	0.021	U	0.018	0.021	0.021
60-57-1	Dieldrin [2C]	1	0.021	U	0.019	0.021	0.021
72-55-9	4,4'-DDE (p,p')	1	0.021	U	0.018	0.021	0.021
72-55-9	4,4'-DDE (p,p') [2C]	1	0.021	U	0.018	0.021	0.021
72-20-8	Endrin	1	0.021	U	0.020	0.021	0.041
72-20-8	Endrin [2C]	1	0.021	U	0.020	0.021	0.041
33213-65-9	Endosulfan II	1	0.021	U	0.021	0.021	0.041
33213-65-9	Endosulfan II [2C]	1	0.021	U	0.016	0.021	0.041
72-54-8	4,4'-DDD (p,p')	1	0.021	U	0.019	0.021	0.041
72-54-8	4,4'-DDD (p,p') [2C]	1	0.021	U	0.018	0.021	0.041
1031-07-8	Endosulfan sulfate	1	0.021	U	0.020	0.021	0.041
1031-07-8	Endosulfan sulfate [2C]	1	0.021	U	0.017	0.021	0.041
50-29-3	4,4'-DDT (p,p')	1	0.031	U	0.018	0.031	0.041
50-29-3	4,4'-DDT (p,p') [2C]	1	0.031	U	0.022	0.031	0.041
72-43-5	Methoxychlor	1	0.021	U	0.019	0.021	0.041
72-43-5	Methoxychlor [2C]	1	0.021	U	0.019	0.021	0.041

FORM I - ANALYSIS DATA SHEET
SW846 8081B

1715920-BLK1

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1715920-BLK1	File ID:	B1170927.D
		Preparation:	SW846 3510C	Initial/Final:	970 ml / 10 ml
Analyzed:	09/27/17 19:29	Instrument:	HPS17		
Batch:	1715920	Sequence:	S708605	Calibration:	1709047

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
53494-70-5	Endrin ketone	1	0.021	U	0.018	0.021	0.041
53494-70-5	Endrin ketone [2C]	1	0.021	U	0.019	0.021	0.041
7421-93-4	Endrin aldehyde	1	0.021	U	0.020	0.021	0.041
7421-93-4	Endrin aldehyde [2C]	1	0.021	U	0.018	0.021	0.041
5103-71-9	alpha-Chlordane	1	0.021	U	0.016	0.021	0.021
5103-71-9	alpha-Chlordane [2C]	1	0.021	U	0.018	0.021	0.021
5103-74-2	Chlordane (gamma)(trans)	1	0.021	U	0.017	0.021	0.021
5103-74-2	Chlordane (gamma)(trans) [2C]	1	0.021	U	0.015	0.021	0.021
15972-60-8	Alachlor	1	0.021	U	0.019	0.021	0.021
15972-60-8	Alachlor [2C]	1	0.021	U	0.018	0.021	0.021

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8081B

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPS17
Batch:	1715920	Laboratory ID:	1715920-BS1
Preparation:	SW846 3510C	Initial/Final:	980 ml / 10 ml
Analyzed:	09/27/17 19:48	Spike ID:	17I0075
		File ID:	L1170927.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
alpha-BHC	0.510	0.403	79	54 - 138
alpha-BHC [2C]	0.510	0.409	80	54 - 138
beta-BHC	0.510	0.426	83	56 - 136
beta-BHC [2C]	0.510	0.472	93	56 - 136
delta-BHC	0.510	0.420	82	52 - 142
delta-BHC [2C]	0.510	0.432	85	52 - 142
gamma-BHC (Lindane)	0.510	0.393	77	59 - 134
gamma-BHC (Lindane) [2C]	0.510	0.415	81	59 - 134
Heptachlor	0.510	0.407	80	54 - 130
Heptachlor [2C]	0.510	0.460	90	54 - 130
Aldrin	0.510	0.402	79	45 - 134
Aldrin [2C]	0.510	0.393	77	45 - 134
Heptachlor epoxide	0.510	0.402	79	61 - 133
Heptachlor epoxide [2C]	0.510	0.403	79	61 - 133
Endosulfan I	0.510	0.412	81	62 - 126
Endosulfan I [2C]	0.510	0.447	88	62 - 126
Dieldrin	0.510	0.399	78	60 - 136
Dieldrin [2C]	0.510	0.390	76	60 - 136
4,4'-DDE (p,p')	0.510	0.389	76	57 - 135
4,4'-DDE (p,p') [2C]	0.510	0.386	76	57 - 135
Endrin	0.510	0.485	95	60 - 138
Endrin [2C]	0.510	0.497	98	60 - 138
Endosulfan II	0.510	0.410	80	52 - 135
Endosulfan II [2C]	0.510	0.489	96	52 - 135
4,4'-DDD (p,p')	0.510	0.410	80	56 - 143
4,4'-DDD (p,p') [2C]	0.510	0.474	93	56 - 143
Endosulfan sulfate	0.510	0.418	82	62 - 133
Endosulfan sulfate [2C]	0.510	0.489	96	62 - 133
4,4'-DDT (p,p')	0.510	0.273	54	51 - 143
4,4'-DDT (p,p') [2C]	0.510	0.397	78	51 - 143

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8081B

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPS17
Batch:	1715920	Laboratory ID:	1715920-BS1
Preparation:	SW846 3510C	Initial/Final:	980 ml / 10 ml
Analyzed:	09/27/17 19:48	Spike ID:	17I0075
		File ID:	L1170927.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
Methoxychlor	0.510	0.392	77	54 - 145
Methoxychlor [2C]	0.510	0.438	86	54 - 145
Endrin ketone	0.510	0.347	68	58 - 134
Endrin ketone [2C]	0.510	0.423	83	58 - 134
Endrin aldehyde	0.510	0.437	86	51 - 132
Endrin aldehyde [2C]	0.510	0.503	99	51 - 132
alpha-Chlordane	0.510	0.417	82	60 - 129
alpha-Chlordane [2C]	0.510	0.421	83	60 - 129
Chlordane (gamma)(trans)	0.510	0.431	85	56 - 136
Chlordane (gamma)(trans) [2C]	0.510	0.418	82	56 - 136
Alachlor	0.510	0.453	89	40 - 140
Alachlor [2C]	0.510	0.453	89	40 - 140

File ID: L2170927.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	0.510	0.378	74	6	20	54 - 138
alpha-BHC [2C]	0.510	0.393	77	4	20	54 - 138
beta-BHC	0.510	0.390	76	9	20	56 - 136
beta-BHC [2C]	0.510	0.446	87	6	20	56 - 136
delta-BHC	0.510	0.369	72	13	20	52 - 142
delta-BHC [2C]	0.510	0.406	80	6	20	52 - 142
gamma-BHC (Lindane)	0.510	0.368	72	7	20	59 - 134
gamma-BHC (Lindane) [2C]	0.510	0.402	79	3	20	59 - 134
Heptachlor	0.510	0.380	75	7	20	54 - 130
Heptachlor [2C]	0.510	0.451	88	2	20	54 - 130
Aldrin	0.510	0.381	75	5	20	45 - 134
Aldrin [2C]	0.510	0.383	75	2	20	45 - 134
Heptachlor epoxide	0.510	0.384	75	5	20	61 - 133
Heptachlor epoxide [2C]	0.510	0.395	77	2	20	61 - 133

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8081B

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPS17
Batch:	1715920	Laboratory ID:	1715920-BSD1
Preparation:	SW846 3510C	Initial/Final:	980 ml / 10 ml
Analyzed:	09/27/17 20:07	Spike ID:	17I0075
		File ID:	L2170927.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Endosulfan I	0.510	0.396	78	4	20	62 - 126
Endosulfan I [2C]	0.510	0.432	85	4	20	62 - 126
Dieldrin	0.510	0.387	76	3	20	60 - 136
Dieldrin [2C]	0.510	0.385	75	1	20	60 - 136
4,4'-DDE (p,p')	0.510	0.380	74	2	20	57 - 135
4,4'-DDE (p,p') [2C]	0.510	0.371	73	4	20	57 - 135
Endrin	0.510	0.470	92	3	20	60 - 138
Endrin [2C]	0.510	0.475	93	5	20	60 - 138
Endosulfan II	0.510	0.413	81	0.7	20	52 - 135
Endosulfan II [2C]	0.510	0.469	92	4	20	52 - 135
4,4'-DDD (p,p')	0.510	0.406	80	0.9	20	56 - 143
4,4'-DDD (p,p') [2C]	0.510	0.480	94	1	20	56 - 143
Endosulfan sulfate	0.510	0.402	79	4	20	62 - 133
Endosulfan sulfate [2C]	0.510	0.493	97	0.8	20	62 - 133
4,4'-DDT (p,p')	0.510	0.266	52	3	20	51 - 143
4,4'-DDT (p,p') [2C]	0.510	0.345	68	14	20	51 - 143
Methoxychlor	0.510	0.375	73	4	20	54 - 145
Methoxychlor [2C]	0.510	0.387	76	12	20	54 - 145
Endrin ketone	0.510	0.338	66	3	20	58 - 134
Endrin ketone [2C]	0.510	0.405	79	4	20	58 - 134
Endrin aldehyde	0.510	0.425	83	3	20	51 - 132
Endrin aldehyde [2C]	0.510	0.489	96	3	20	51 - 132
alpha-Chlordane	0.510	0.397	78	5	20	60 - 129
alpha-Chlordane [2C]	0.510	0.417	82	1	20	60 - 129
Chlordane (gamma)(trans)	0.510	0.417	82	3	20	56 - 136
Chlordane (gamma)(trans) [2C]	0.510	0.411	81	2	20	56 - 136
Alachlor	0.510	0.414	81	9	20	40 - 140
Alachlor [2C]	0.510	0.482	94	6	20	40 - 140

PREPARATION BENCH SHEET

1715920

Eurofins Spectrum Analytical, Inc. - MA

* A = Analyst * W = Witness

FINAL COPY

☐ Sodium Chloride (NaCl)	17G0504	☑ Florisil	17I0342	☑ Methylene Chloride (CH2Cl2)	17I0401	☐ Ethyl Acetate (C4H8O2)	14K0438
☐ Ottawa Sand	17F1043	☐ Silica gel (EPH)		☑ Hexane (C6H14)	17I0189	☐ Aqueous Filter Paper	
☐ HCL	17I0035	☐ Silica gel (TPH)	17H0665	☐ Acetone (CH3COCH3)	17I0243	☐ Soil Filter Paper	
☐ Copper	17A0800	☐ Sulfuric Acid (H2SO4)	17H0891	☐ Methanol (CH3OH)	17E0681		
☑ Sodium Sulfate (Na2SO4)	17I0431			☐ Ether (C2H5OC2H5)	17H0567	☐ Gauze Wipe	17A0428
☐ PCB Transformer Oil	10H0132	☐ MTBE		☐ Acidified Sodium Sulfate	17H0033	☐ 1:1 HCl Mix	17G0111
☐ 1:1 H2SO4 Mix	17G1000	☐ Acidified Methanol	17G0302	☐ Sodium Hydroxide (NaOH)	17G0775	☐ Glass Wool	17G0179
☐ Iso-octane	17B0969	☐ 37% KOH	17C0273	☐ Sodium Bicarbonate	14K0424	☐ Cupric Sulfate Pentahydrate	
☐ 1ml Syringe I	15A0480	☐ 1ml Syringe II	15A0481	☐ 1ml Syringe III	15A0482	☐ 500ul Syringe	15C0951
☐ 250ul Syringe	15A0484	☐ 100ul Syringe	15A0485	☐ 25ul Syringe I	15A0486	☐ 25ul Syringe II	15A0487
☐ 25ul Syringe III	15A0488	☐ 25ul Syringe IV	15A0489	☐ 25ul Syringe V	15A0490	☐ 10ul Syringe I	15A0491
☐ 1:1 DCM-Acetone		☐ pH paper	16A0780	☐ Chlorine Chk Strips	17D0909	Balance ID	

Matrix: Aqueous **Prepared using: SVOC - SW846 3510C** **Surrogate used: 17I0082**

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
1715920-BLK1	Blank	QC	970	10						1000			18-Sep-17 08:00	18-Sep-17						
1715920-BS1	LCS	QC	980	10	17I0075				1000	1000			18-Sep-17 08:00	18-Sep-17						
1715920-BSD1	LCS Dup	QC	980	10	17I0075				1000	1000			18-Sep-17 08:00	18-Sep-17						
1715920-DUP1	Duplicate	QC	1040	10		SC39093-02				1000			11-Sep-17 13:35	18-Sep-17	Clear yellow Cont:M					
1715920-MS1	Matrix Spike	QC	990	10	17I0075	SC39266-01			1000	1000			14-Sep-17 10:20	18-Sep-17	Cont. AK					
1715920-MS2	Matrix Spike	QC	920	10	17I0075	SC39221-06			1000	1000			13-Sep-17 11:20	18-Sep-17	Clear yellow Cont:AI					
1715920-MSD1	Matrix Spike Dup	QC	1030	10	17I0075	SC39266-01			1000	1000			14-Sep-17 10:20	18-Sep-17	Cont. AJ					
1715920-MSD2	Matrix Spike Dup	QC	950	10	17I0075	SC39221-06			1000	1000			13-Sep-17 11:20	18-Sep-17	Clear yellow Cont:AM					
SC39093-01	TF1-GT-121-091117	8081 Pesticides DoD	1040	10						1000		21-Sep-17 16	11-Sep-17 12:35	18-Sep-17	DoD Level IV/Extra Liter yellow	Clear J				
SC39093-02	TF1-GT-119-091117	8081 Pesticides DoD	1030	10						1000		21-Sep-17 16	11-Sep-17 13:35	18-Sep-17	DoD Level IV/Extra Liter yellow	Clear K				
SC39093-03	TF1-GZ-103-091117	8081 Pesticides DoD	1020	10						1000		21-Sep-17 16	11-Sep-17 15:50	18-Sep-17	DoD Level IV/Extra Liter orange	Cloudy J				
SC39163-01	TF1-GT-130-091217	8081 Pesticides DoD	940	10						1000		22-Sep-17 16	12-Sep-17 12:15	18-Sep-17	DoD Level IV/Extra Liter orange	Clear K				
SC39163-02	TF1-GT-115-091217	8081 Pesticides DoD	1040	10						1000		22-Sep-17 16	12-Sep-17 10:30	18-Sep-17	DoD Level IV/Extra Liter orange	Clear L				
SC39163-03	TF1-GT-111-091217	8081 Pesticides DoD	1030	10						1000		22-Sep-17 16	12-Sep-17 14:15	18-Sep-17	DoD Level IV/Extra Liter	K				

S. Matarge 9/26/17
Analyst Reviewed Date

Manager Reviewed Date 9/26/17

Anthony LeBrun 9/26/17
Extracts Prepared By Date

Printed: 10/30/2017 4:19:58PM

PREPARATION BENCH SHEET

* A = Analyst * W = Witness

1715920

Eurofins Spectrum Analytical, Inc. - MA

Matrix: Aqueous **Prepared using: SVOC - SW846 3510C** **Surrogate used: 17I0082**

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
SC39163-04	TF1-GT-118-091217	8081 Pesticides DoD	1000	10						1000		22-Sep-17 16	12-Sep-17 10:20	18-Sep-17	DoD Level IV/Extra Liter yellow	Clear L				
SC39163-05	TF1-DUP-03-091217	8081 Pesticides DoD	1020	10						1000		22-Sep-17 16	12-Sep-17 12:00	18-Sep-17	DoD Level IV/Extra Liter orange	Clear L				
SC39163-06	TF1-MW-1004-091217	8081 Pesticides DoD	1040	10						1000		22-Sep-17 16	12-Sep-17 15:10	18-Sep-17	DoD Level IV/Extra Liter	L				
SC39221-01	TF1-GZ-106-091317	8081 Pesticides DoD	1040	10						1000		25-Sep-17 16	13-Sep-17 08:25	18-Sep-17	DoD Level IV/Extra Liter	A				
SC39221-02	TF1-GT-117-091317	8081 Pesticides DoD	1000	10						1000		25-Sep-17 16	13-Sep-17 09:50	18-Sep-17	DoD Level IV/Extra Liter orange	Clear L				
SC39221-03	TF1-GT-108-091317	8081 Pesticides DoD	1010	10						1000		25-Sep-17 16	13-Sep-17 14:30	18-Sep-17	DoD Level IV/Extra Liter	J				
SC39221-04	TF1-MW-1008-091317	8081 Pesticides DoD	1040	10						1000		25-Sep-17 16	13-Sep-17 13:20	18-Sep-17	DoD Level IV/Extra Liter yellow	Clear L				
SC39221-05	TF1-DUP-04-091317	8081 Pesticides DoD	1040	10						1000		25-Sep-17 16	13-Sep-17 14:30	18-Sep-17	DoD Level IV/Extra Liter yellow	Clear K				
SC39221-06	TF1-MW-7-091317	8081 Pesticides DoD	960	10						1000		25-Sep-17 16	13-Sep-17 11:20	18-Sep-17	Run MS/MSD/DoD Level IV/Extra Liter Clear yellow	AK				
SC39266-01	TF1-GT-136B-091417	8081 Pesticides DoD	1060	10						1000		26-Sep-17 16	14-Sep-17 10:20	18-Sep-17	Run MS/MSD/DoD Level IV/Extra Liter	AC				
SC39266-02	Grab-WILLH-091417	8081 Pesticides DoD	950	10						1000		26-Sep-17 16	14-Sep-17 15:10	18-Sep-17	DoD Level IV/Extra Liter	L				

S. Malecoge 9/26/17
Analyst Reviewed Date

9/26/17
Manager Reviewed Date

Anthony Febus 9/26/17
Extracts Prepared By Date

Printed: 10/30/2017 4:19:58PM

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39163

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112G08005-WE15

SDG #: SC39163

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:

A duplicate was analyzed.

In batch 1716006 from source sample TF1-GT-115-091217 (SC39163-02).

All method criteria were met.

E. Samples:

All method criteria were met.

CROSS REFERENCE TABLE

Mod EPA 3C/SOP RSK-175

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15		

Client Sample ID:	Lab Sample ID:
TF1-GT-130-091217	SC39163-01
TF1-GT-115-091217	SC39163-02
TF1-GT-111-091217	SC39163-03
TF1-GT-118-091217	SC39163-04
TF1-DUP-03-091217	SC39163-05
TF1-MW-1004-091217	SC39163-06
TF1-GZ-106-091217	SC39163-07

FORM IV - METHOD BLANK SUMMARY

1716006-BLK1

Mod EPA 3C/SOP RSK-175

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1716006-BLK1	File ID:	091817-chanb-004-0
		Preparation:	General Air Prep	Initial/Final:	10 µg / 10 µg
Analyzed:	09/18/17 10:23	Instrument:	Air5		
Batch:	1716006	Sequence:	S708315	Calibration:	1707028

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1716006-BS1	091817-chanb-003-0	09/18/17	9:29
TF1-GT-130-091217	SC39163-01	091817-chanb-005-0	09/18/17	10:46
TF1-GT-115-091217	SC39163-02	091817-chanb-007-0	09/18/17	11:47
Duplicate	1716006-DUP1	091817-chanb-009-0	09/18/17	12:44
TF1-GT-111-091217	SC39163-03	091817-chanb-010-0	09/18/17	13:07
TF1-GT-118-091217	SC39163-04	091817-chanb-011-0	09/18/17	13:39
TF1-DUP-03-091217	SC39163-05	091817-chanb-013-0	09/18/17	14:35
TF1-MW-1004-091217	SC39163-06	091817-chanb-014-0	09/18/17	15:09
TF1-GZ-106-091217	SC39163-07	091817-chanb-015-0	09/18/17	15:35

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

1716006-BLK1

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1716006-BLK1	File ID:	091817-chanb-004-0
		Preparation:	General Air Prep	Initial/Final:	10 µg / 10 µg
Analyzed:	09/18/17 10:23	Instrument:	Air5		
Batch:	1716006	Sequence:	S708315	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:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	Air5
Batch:	1716006	Laboratory ID:	1716006-BS1
Preparation:	General Air Prep	Initial/Final:	10 µg / 10 µg
Analyzed:	09/18/17 09:29	Spike ID:	17F0404
		File ID:	091817-chanb-003-0

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Methane	500	513	103	73 - 125
Ethane	500	550	110	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 IIIc - DUPLICATES

TF1-GT-115-091217

Mod EPA 3C/SOP RSK-175

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
Client: Tetra Tech, Inc. - Salem, NH
Matrix: Aqueous
Batch: 1716006
Preparation: General Air Prep
Source Sample Name: TF1-GT-115-091217

SDG: SC39163
Project: WE15 Tank Farm 1 NAVSTA Newport
Laboratory ID: 1716006-DUP1
Lab Source ID: SC39163-02
Initial/Final: 10 µg / 10 µg
% Solids:
File ID: 091817-chanb-009-0

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (µg/l)	C	DUPLICATE CONCENTRATION (µg/l)	C	RPD %	Q	METHOD
Methane	30	88.0		107		19		Mod EPA 3C/SOP RSK-175
Ethane	30	BRL		BDL				Mod EPA 3C/SOP RSK-175

* Values outside of QC limits

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

PREPARATION BENCH SHEET

1716006

Method No.: 1707028 Sequence No.: S708315

Matrix: Aqueous **Prepared using: Air - General Air Prep** **Surrogate used: 17D0155**

Lab Number	Client ID SAO	ID	Analysis	Initial (µg)	Final (µg)	Spike ID	Source ID	Due Date	Collection Date	Sample Comments	RE
1716006-BLK1	Blank		QC	10	10				18-Sep-17 06:00		
1716006-BS1	LCS		QC	10	10	17F0404			18-Sep-17 06:00		
1716006-DUP1	Duplicate		QC	10	10		SC39163-02		12-Sep-17 10:30		
SC39163-01	TF1-GT-130-091217	D	Dissolved Gase	10	10			22-Sep-17 16:00	12-Sep-17 12:15	**DoD Level IV / Methane & Ethane**	
SC39163-02	TF1-GT-115-091217	D	Dissolved Gase	10	10			22-Sep-17 16:00	12-Sep-17 10:30	**DoD Level IV / Methane & Ethane**	
SC39163-03	TF1-GT-111-091217	D	Dissolved Gase	10	10			22-Sep-17 16:00	12-Sep-17 14:15	**DoD Level IV / Methane & Ethane**	
SC39163-04	TF1-GT-118-091217	D	Dissolved Gase	10	10			22-Sep-17 16:00	12-Sep-17 10:20	**DoD Level IV / Methane & Ethane**	
SC39163-05	TF1-DUP-03-091217	D	Dissolved Gase	10	10			22-Sep-17 16:00	12-Sep-17 12:00	**DoD Level IV / Methane & Ethane**	
SC39163-06	TF1-MW-1004-091217	D	Dissolved Gase	10	10			22-Sep-17 16:00	12-Sep-17 15:10	**DoD Level IV / Methane & Ethane**	
SC39163-07	TF1-GZ-106-091217	D	Dissolved Gase	10	10			22-Sep-17 16:00	12-Sep-17 08:00	**DoD Level IV / Methane & Ethane**	

Air5
9/18/17
diss gas
BRF

Samantha Adler 9/19/17
Analyst Reviewed Date

09/22/17
Manager Reviewed Date

9/19/17
Sequence Reviewed By Date

Printed: 9/19/2017 2:03:17PM

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39163

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112G08005-WE15

SDG #: SC39163

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 with the following exceptions:

In sample S708796-CRL1:

Low level calibration check failed, reporting limit has been elevated.

Iron

In sample S708828-CRL3:

Low level calibration check failed, reporting limit has been elevated.

Iron

In sample S708828-CRL5:

Low level calibration check failed, reporting limit has been elevated.

Iron

In sample S708796-ICV1:

QC recovery was outside of acceptance range however it was re-run before samples were run and was within the control limits.

Iron

In sample S708796-ICV1:

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

Iron (111%)

This affected the following samples:

S708796-CCV1

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 1716281 from source sample TF1-GZ-106-091217 (SC39163-07).

In batch 1716533 from source sample TF1-GZ-106-091217 (SC39163-07).

All method criteria were met with the following exceptions:

Aluminum, Iron in batch 1716281, lab sample 1716281-MS1 from source sample TF1-GZ-106-091217 (SC39163-07): The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

Aluminum, Iron in batch 1716281, lab sample 1716281-MSD1 from source sample TF1-GZ-106-091217 (SC39163-07): The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

3. Post Spike Samples (PS):

A post spike was analyzed.

In batch 1716281 from source sample TF1-GZ-106-091217 (SC39163-07).

In batch 1716533 from source sample TF1-GZ-106-091217 (SC39163-07).

All method criteria were met.

D. Duplicates:

A duplicate was analyzed.

In batch 1716281 from source sample TF1-GZ-106-091217 (SC39163-07).

In batch 1716533 from source sample TF1-GZ-106-091217 (SC39163-07).

All method criteria were met with the following exceptions:

Iron in batch 1716281, sample 1716281-DUP1 from source sample TF1-GZ-106-091217 (SC39163-07): MRL raised to correlate to batch QC reporting limits.

E. Serial Dilutions:

In batch S708828, lab sample S708828-SRD3 from source sample TF1-GZ-106-091217 (SC39163-07): The dilution analysis is not within a control limit of 10%, therefore a chemical or physical interference effect must be suspected.

Iron (13%)

F. Samples:

All method criteria were met with the following exceptions:

Iron in batch 1716281, samples TF1-DUP-03-091217 (SC39163-05), TF1-GT-111-091217 (SC39163-03), TF1-GT-115-091217 (SC39163-02), TF1-GT-118-091217 (SC39163-04), TF1-GT-130-091217 (SC39163-01), TF1-GZ-106-091217 (SC39163-07), TF1-MW-1004-091217 (SC39163-06): MRL raised to correlate to batch QC reporting limits.

CROSS REFERENCE TABLE

SW846 6010C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15		

Client Sample ID:	Lab Sample ID:
TF1-GT-130-091217	SC39163-01
TF1-GT-115-091217	SC39163-02
TF1-GT-111-091217	SC39163-03
TF1-GT-118-091217	SC39163-04
TF1-DUP-03-091217	SC39163-05
TF1-MW-1004-091217	SC39163-06
TF1-GZ-106-091217	SC39163-07
TF1-GZ-106-091217	SC39163-07RE1

METALS ANALYSIS RUN LOG

SW846 6010C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708796	Instrument:	ICAP5
		Calibration:	1710008

Sample Name	Lab ID	D/F	Time	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	SU	TL	V	ZN
Cal Standard	S708796-CAL1	1	09/26/17 11:39	X						X				X		X							X				
Cal Standard	S708796-CAL2	1	09/26/17 11:43	X						X				X		X							X				
Cal Standard	S708796-CAL3	1	09/26/17 11:47	X						X				X		X							X				
Cal Standard	S708796-CAL4	1	09/26/17 11:51	X						X				X		X							X				
Cal Standard	S708796-CAL5	1	09/26/17 11:54	X						X				X		X							X				
Cal Standard	S708796-CAL6	1	09/26/17 11:58	X						X				X		X							X				
Cal Standard	S708796-CAL7	1	09/26/17 12:02	X						X				X		X							X				
Cal Standard	S708796-CAL8	1	09/26/17 12:06	X						X				X		X							X				
Cal Standard	S708796-CAL9	1	09/26/17 12:11	X						X				X									X				
Initial Cal Check	S708796-ICV1	1	09/26/17 12:23	X						X				X		X							X				
Initial Cal Blank	S708796-ICB1	1	09/26/17 12:27	X						X				X		X							X				
Instrument RL Check	S708796-CRL1	1	09/26/17 12:33	X						X				X		X							X				
Instrument RL Check	S708796-CRL2	1	09/26/17 12:38	X						X				X		X							X				
Calibration Check	S708796-CCV1	1	09/26/17 12:53	X						X				X		X							X				
Calibration Blank	S708796-CCB1	1	09/26/17 12:58	X						X				X		X							X				
Initial Cal Check	S708796-ICV2	1	09/26/17 13:13											X													

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SW846 6010C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708828	Instrument:	ICAP5
		Calibration:	1710008

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	S708828-CCV1	20170926-029	09/26/17 14:20
Calibration Blank	S708828-CCB1	20170926-030	09/26/17 14:25
Instrument RL Check	S708828-CRL1	20170926-035	09/26/17 14:50
Instrument RL Check	S708828-CRL2	20170926-036	09/26/17 14:55
Interference Check A	S708828-IFA1	20170926-037	09/26/17 15:00
Interference Check B	S708828-IFB1	20170926-038	09/26/17 15:06
Calibration Check	S708828-CCV2	20170926-039	09/26/17 15:11
Calibration Blank	S708828-CCB2	20170926-040	09/26/17 15:16
Calibration Check	S708828-CCV3	20170926-051	09/26/17 16:11
Calibration Blank	S708828-CCB3	20170926-052	09/26/17 16:16
Instrument RL Check	S708828-CRL3	20170926-054	09/26/17 16:26
Instrument RL Check	S708828-CRL4	20170926-055	09/26/17 16:32
Interference Check A	S708828-IFA2	20170926-056	09/26/17 16:37
Interference Check B	S708828-IFB2	20170926-057	09/26/17 16:42
Calibration Check	S708828-CCV4	20170926-058	09/26/17 16:47
Calibration Blank	S708828-CCB4	20170926-059	09/26/17 16:52
Blank	1716281-BLK1	20170926-060	09/26/17 16:57
LCS	1716281-BS1	20170926-061	09/26/17 17:02
LCS Dup	1716281-BSD1	20170926-062	09/26/17 17:07
TF1-GT-130-091217	SC39163-01	20170926-063	09/26/17 17:12
TF1-GT-115-091217	SC39163-02	20170926-064	09/26/17 17:18
TF1-GT-111-091217	SC39163-03	20170926-065	09/26/17 17:23
TF1-GT-118-091217	SC39163-04	20170926-066	09/26/17 17:28
TF1-DUP-03-091217	SC39163-05	20170926-067	09/26/17 17:33
TF1-MW-1004-091217	SC39163-06	20170926-068	09/26/17 17:38
TF1-GZ-106-091217	S708828-SRD3	20170926-069	09/26/17 17:43
Calibration Check	S708828-CCV5	20170926-070	09/26/17 17:48
Calibration Blank	S708828-CCB5	20170926-071	09/26/17 17:53
TF1-GZ-106-091217	SC39163-07	20170926-072	09/26/17 17:58
TF1-GZ-106-091217	1716281-DUP1	20170926-073	09/26/17 18:03
TF1-GZ-106-091217	1716281-MS1	20170926-074	09/26/17 18:09
TF1-GZ-106-091217	1716281-MSD1	20170926-075	09/26/17 18:14
TF1-GZ-106-091217	1716281-PS1	20170926-076	09/26/17 18:19

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Sequence: S708828
Instrument: ICAP5
Calibration: 1710008

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Instrument RL Check	S708828-CRL5	20170926-077	09/26/17 18:24
Instrument RL Check	S708828-CRL6	20170926-078	09/26/17 18:29
Interference Check A	S708828-IFA3	20170926-079	09/26/17 18:34
Interference Check B	S708828-IFB3	20170926-080	09/26/17 18:39
Calibration Check	S708828-CCV6	20170926-081	09/26/17 18:44
Calibration Blank	S708828-CCB6	20170926-082	09/26/17 18:49
Calibration Check	S708828-CCV7	20170926-093	09/26/17 20:34
Calibration Blank	S708828-CCB7	20170926-094	09/26/17 20:39
Instrument RL Check	S708828-CRL7	20170926-098	09/26/17 21:00
Instrument RL Check	S708828-CRL8	20170926-099	09/26/17 21:05
Interference Check A	S708828-IFA4	20170926-100	09/26/17 21:10
Interference Check B	S708828-IFB4	20170926-101	09/26/17 21:15
Calibration Check	S708828-CCV8	20170926-102	09/26/17 21:20
Calibration Blank	S708828-CCB8	20170926-103	09/26/17 21:25
Calibration Check	S708828-CCV9	20170926-114	09/26/17 22:21
Calibration Blank	S708828-CCB9	20170926-115	09/26/17 22:26
Instrument RL Check	S708828-CRL9	20170926-120	09/26/17 22:52
Instrument RL Check	S708828-CRLA	20170926-121	09/26/17 22:57
Interference Check A	S708828-IFA5	20170926-122	09/26/17 23:02
Interference Check B	S708828-IFB5	20170926-123	09/26/17 23:07
Calibration Check	S708828-CCVA	20170926-124	09/26/17 23:12
Calibration Blank	S708828-CCBA	20170926-125	09/26/17 23:17
Calibration Check	S708828-CCVB	20170926-136	09/27/17 00:13
Calibration Blank	S708828-CCBB	20170926-137	09/27/17 00:18
Instrument RL Check	S708828-CRLB	20170926-139	09/27/17 00:28
Instrument RL Check	S708828-CRLC	20170926-140	09/27/17 00:34
Interference Check A	S708828-IFA6	20170926-141	09/27/17 00:39
Interference Check B	S708828-IFB6	20170926-142	09/27/17 00:44
Calibration Check	S708828-CCVC	20170926-143	09/27/17 00:49
Calibration Blank	S708828-CCBC	20170926-144	09/27/17 00:54
Calibration Check	S708828-CCVD	20170926-155	09/27/17 01:50
Calibration Blank	S708828-CCBD	20170926-156	09/27/17 01:55
Instrument RL Check	S708828-CRLD	20170926-157	09/27/17 02:01

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SW846 6010C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708828	Instrument:	ICAP5
		Calibration:	1710008

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Instrument RL Check	S708828-CRLE	20170926-158	09/27/17 02:06
Interference Check A	S708828-IFA7	20170926-159	09/27/17 02:11
Interference Check B	S708828-IFB7	20170926-160	09/27/17 02:16

METALS ANALYSIS RUN LOG

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Sequence: S708828
Instrument: ICAP5
Calibration: 1710008

Sample Name	Lab ID	D/F	Time	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	SU	TL	V	ZN
Calibration Check	S708828-CCV1	1	09/26/17 14:20	X						X				X		X							X				
Calibration Blank	S708828-CCB1	1	09/26/17 14:25	X						X				X		X							X				
Instrument RL Check	S708828-CRL1	1	09/26/17 14:50	X						X				X		X							X				
Instrument RL Check	S708828-CRL2	1	09/26/17 14:55	X						X				X		X							X				
Interference Check A	S708828-IFA1	1	09/26/17 15:00	X						X				X		X							X				
Interference Check B	S708828-IFB1	1	09/26/17 15:06	X						X				X		X							X				
Calibration Check	S708828-CCV2	1	09/26/17 15:11	X						X				X		X							X				
Calibration Blank	S708828-CCB2	1	09/26/17 15:16	X						X				X		X							X				
Calibration Check	S708828-CCV3	1	09/26/17 16:11	X						X				X		X							X				
Calibration Blank	S708828-CCB3	1	09/26/17 16:16	X						X				X		X							X				
Instrument RL Check	S708828-CRL3	1	09/26/17 16:26	X						X				X		X							X				
Instrument RL Check	S708828-CRL4	1	09/26/17 16:32	X						X				X		X							X				
Interference Check A	S708828-IFA2	1	09/26/17 16:37	X						X				X		X							X				
Interference Check B	S708828-IFB2	1	09/26/17 16:42	X						X				X		X							X				
Calibration Check	S708828-CCV4	1	09/26/17 16:47	X						X				X		X							X				
Calibration Blank	S708828-CCB4	1	09/26/17 16:52	X						X				X		X							X				
Blank	1716281-BLK1	1	09/26/17 16:57	X						X				X		X							X				
LCS	1716281-BS1	1	09/26/17 17:02	X						X				X		X							X				
LCS Dup	1716281-BSD1	1	09/26/17 17:07	X						X				X		X							X				
TF1-GT-130-091217	SC39163-01	1	09/26/17 17:12	X						X				X		X							X				
TF1-GT-115-091217	SC39163-02	1	09/26/17 17:18	X						X				X		X							X				
TF1-GT-111-091217	SC39163-03	1	09/26/17 17:23	X						X				X		X							X				
TF1-GT-118-091217	SC39163-04	1	09/26/17 17:28	X						X				X		X							X				
TF1-DUP-03-091217	SC39163-05	1	09/26/17 17:33	X						X				X		X							X				
TF1-MW-1004-0912	SC39163-06	1	09/26/17 17:38	X						X				X		X							X				
TF1-GZ-106-091217	S708828-SRD3	5	09/26/17 17:43	X						X				X		X							X				
Calibration Check	S708828-CCV5	1	09/26/17 17:48	X						X				X		X							X				
Calibration Blank	S708828-CCB5	1	09/26/17 17:53	X						X				X		X							X				
TF1-GZ-106-091217	SC39163-07	1	09/26/17 17:58	X						X				X		X							X				
TF1-GZ-106-091217	1716281-DUP1	1	09/26/17 18:03	X						X				X		X							X				
TF1-GZ-106-091217	1716281-MS1	1	09/26/17 18:09	X						X				X		X							X				
TF1-GZ-106-091217	1716281-MSD1	1	09/26/17 18:14	X						X				X		X							X				
TF1-GZ-106-091217	1716281-PS1	1	09/26/17 18:19	X						X				X		X							X				
Instrument RL Check	S708828-CRL5	1	09/26/17 18:24	X						X				X		X							X				

METALS ANALYSIS RUN LOG

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Sequence: S708828
Instrument: ICAP5
Calibration: 1710008

Sample Name	Lab ID	D/F	Time	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	SU	TL	V	ZN
Instrument RL Check	S708828-CRL6	1	09/26/17 18:29	X						X				X		X							X				
Interference Check A	S708828-IFA3	1	09/26/17 18:34	X						X				X		X							X				
Interference Check B	S708828-IFB3	1	09/26/17 18:39	X						X				X		X							X				
Calibration Check	S708828-CCV6	1	09/26/17 18:44	X						X				X		X							X				
Calibration Blank	S708828-CCB6	1	09/26/17 18:49	X						X				X		X							X				
Calibration Check	S708828-CCV7	1	09/26/17 20:34	X						X						X							X				
Calibration Blank	S708828-CCB7	1	09/26/17 20:39	X						X						X							X				
Instrument RL Check	S708828-CRL7	1	09/26/17 21:00	X						X						X							X				
Instrument RL Check	S708828-CRL8	1	09/26/17 21:05	X						X						X							X				
Interference Check A	S708828-IFA4	1	09/26/17 21:10	X						X				X		X							X				
Interference Check B	S708828-IFB4	1	09/26/17 21:15	X						X				X		X							X				
Calibration Check	S708828-CCV8	1	09/26/17 21:20	X						X						X							X				
Calibration Blank	S708828-CCB8	1	09/26/17 21:25	X						X						X							X				
Calibration Check	S708828-CCV9	1	09/26/17 22:21	X						X						X							X				
Calibration Blank	S708828-CCB9	1	09/26/17 22:26	X						X						X							X				
Instrument RL Check	S708828-CRL9	1	09/26/17 22:52	X						X						X							X				
Instrument RL Check	S708828-CRLA	1	09/26/17 22:57	X						X						X							X				
Interference Check A	S708828-IFA5	1	09/26/17 23:02	X						X				X		X							X				
Interference Check B	S708828-IFB5	1	09/26/17 23:07	X						X				X		X							X				
Calibration Check	S708828-CCVA	1	09/26/17 23:12	X						X						X							X				
Calibration Blank	S708828-CCBA	1	09/26/17 23:17	X						X						X							X				
Calibration Check	S708828-CCVB	1	09/27/17 00:13	X						X						X							X				
Calibration Blank	S708828-CCBB	1	09/27/17 00:18	X						X						X							X				
Instrument RL Check	S708828-CRLB	1	09/27/17 00:28	X						X						X							X				
Instrument RL Check	S708828-CRLC	1	09/27/17 00:34	X						X						X							X				
Interference Check A	S708828-IFA6	1	09/27/17 00:39	X						X				X		X							X				
Interference Check B	S708828-IFB6	1	09/27/17 00:44	X						X				X		X							X				
Calibration Check	S708828-CCVC	1	09/27/17 00:49	X						X						X							X				
Calibration Blank	S708828-CCBC	1	09/27/17 00:54	X						X						X							X				
Calibration Check	S708828-CCVD	1	09/27/17 01:50	X						X						X							X				
Calibration Blank	S708828-CCBD	1	09/27/17 01:55	X						X						X							X				
Instrument RL Check	S708828-CRLD	1	09/27/17 02:01	X						X						X							X				
Instrument RL Check	S708828-CRLE	1	09/27/17 02:06	X						X						X							X				
Interference Check A	S708828-IFA7	1	09/27/17 02:11	X						X				X		X							X				

FORM III - BLANKS
SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: ICAP5
Calibration: 1710008
Sequence: S708796

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S708796-ICB1	Iron	BRL	0.0800	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.100	mg/l	U	SW846 6010C
	Calcium	BRL	0.500	mg/l	U	SW846 6010C
	Magnesium	BRL	0.100	mg/l	U	SW846 6010C
S708796-CCB1	Iron	BRL	0.0800	mg/l	U	SW846 6010C
	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.100	mg/l	U	SW846 6010C
	Calcium	BRL	0.500	mg/l	U	SW846 6010C
	Magnesium	BRL	0.100	mg/l	U	SW846 6010C

FORM III - BLANKS
SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: ICAP5
Calibration: 1710008
Sequence: S708828

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S708828-CCB1	Iron	0.0179	0.0300	mg/l	J	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
S708828-CCB2	Iron	BRL	0.0300	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
S708828-CCB3	Iron	BRL	0.0300	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
S708828-CCB4	Iron	0.0161	0.0300	mg/l	J	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
1716281-BLK1	Iron	0.0118	0.0800	mg/l	J	SW846 6010C
	Sodium	0.118	0.500	mg/l	J	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	0.0163	0.200	mg/l	J	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S708828-CCB5	Iron	BRL	0.0300	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
S708828-CCB6	Iron	BRL	0.0300	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
S708828-CCB7	Sodium	BRL	0.500	mg/l	U	SW846 6010C

FORM III - BLANKS
SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: ICAP5
Calibration: 1710008
Sequence: S708828

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S708828-CCB7	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
S708828-CCB8	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
S708828-CCB9	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
S708828-CCBA	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
S708828-CCBB	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	0.0161	0.200	mg/l	J	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C
S708828-CCBC	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
S708828-CCBD	Sodium	BRL	0.500	mg/l	U	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	0.025	0.200	mg/l	J	SW846 6010C
	Magnesium	BRL	0.0200	mg/l	U	SW846 6010C

METALS ANALYSIS RUN LOG

SW846 6010C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S710437	Instrument:	ICAP5
		Calibration:	1711058

Sample Name	Lab ID	D/F	Time	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	SU	TL	V	ZN
Cal Standard	S710437-CAL1	1	09/29/17 11:29																	X							
Cal Standard	S710437-CAL2	1	09/29/17 11:33																	X							
Cal Standard	S710437-CAL3	1	09/29/17 11:37											X						X							
Cal Standard	S710437-CAL4	1	09/29/17 11:41											X						X							
Cal Standard	S710437-CAL5	1	09/29/17 11:45											X						X							
Cal Standard	S710437-CAL6	1	09/29/17 11:49											X						X							
Cal Standard	S710437-CAL7	1	09/29/17 11:53											X						X							
Cal Standard	S710437-CAL8	1	09/29/17 11:57											X						X							
Cal Standard	S710437-CAL9	1	09/29/17 12:02																	X							
Cal Standard	S710437-CAL9	1	09/29/17 12:12											X													
Cal Standard	S710437-CAL1	1	09/29/17 12:23											X													
Cal Standard	S710437-CAL2	1	09/29/17 12:36											X													
Initial Cal Check	S710437-ICV1	1	09/29/17 12:44											X						X							
Initial Cal Blank	S710437-ICB1	1	09/29/17 12:49											X						X							
Instrument RL Check	S710437-CRL1	1	09/29/17 12:54											X						X							
Instrument RL Check	S710437-CRL2	1	09/29/17 12:59											X						X							
Calibration Check	S710437-CCV1	1	09/29/17 13:14											X						X							
Calibration Blank	S710437-CCB1	1	09/29/17 13:19											X						X							
Initial Cal Check	S710437-ICV2	1	09/29/17 13:28											X													

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SW846 6010C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S710438	Instrument:	ICAP5
		Calibration:	1711058

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	S710438-CCV1	20170929-039	09/29/17 15:05
Calibration Blank	S710438-CCB1	20170929-040	09/29/17 15:10
Calibration Check	S710438-CCV2	20170929-051	09/29/17 16:05
Calibration Blank	S710438-CCB2	20170929-052	09/29/17 16:10
Instrument RL Check	S710438-CRL1	20170929-054	09/29/17 16:20
Interference Check A	S710438-IFA1	20170929-055	09/29/17 16:25
Interference Check B	S710438-IFB1	20170929-056	09/29/17 16:31
Calibration Check	S710438-CCV3	20170929-057	09/29/17 16:36
Calibration Blank	S710438-CCB3	20170929-058	09/29/17 16:41
Blank	1716533-BLK1	20170929-059	09/29/17 16:46
LCS	1716533-BS1	20170929-060	09/29/17 16:51
LCS Dup	1716533-BSD1	20170929-061	09/29/17 16:56
TF1-GT-130-091217	SC39163-01	20170929-062	09/29/17 17:01
TF1-GT-115-091217	SC39163-02	20170929-063	09/29/17 17:06
TF1-GT-111-091217	SC39163-03	20170929-064	09/29/17 17:11
TF1-GT-118-091217	SC39163-04	20170929-065	09/29/17 17:16
TF1-DUP-03-091217	SC39163-05	20170929-066	09/29/17 17:21
TF1-MW-1004-091217	SC39163-06	20170929-067	09/29/17 17:26
TF1-GZ-106-091217	S710438-SRD2	20170929-068	09/29/17 17:31
Calibration Check	S710438-CCV4	20170929-069	09/29/17 17:36
Calibration Blank	S710438-CCB4	20170929-070	09/29/17 17:41
TF1-GZ-106-091217	SC39163-07	20170929-071	09/29/17 17:46
TF1-GZ-106-091217	1716533-DUP1	20170929-072	09/29/17 17:51
TF1-GZ-106-091217	1716533-MS1	20170929-073	09/29/17 17:56
TF1-GZ-106-091217	1716533-MSD1	20170929-074	09/29/17 18:01
TF1-GZ-106-091217	1716533-PS1	20170929-075	09/29/17 18:06
Instrument RL Check	S710438-CRL2	20170929-076	09/29/17 18:11
Interference Check A	S710438-IFA2	20170929-077	09/29/17 18:16
Interference Check B	S710438-IFB2	20170929-078	09/29/17 18:21
Calibration Check	S710438-CCV5	20170929-079	09/29/17 18:27
Calibration Blank	S710438-CCB5	20170929-080	09/29/17 18:32
Calibration Check	S710438-CCV6	20170929-091	09/29/17 19:27
Calibration Blank	S710438-CCB6	20170929-092	09/29/17 19:32

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SW846 6010C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S710438	Instrument:	ICAP5
		Calibration:	1711058

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Instrument RL Check	S710438-CRL3	20170929-097	09/29/17 19:57
Instrument RL Check	S710438-CRL4	20170929-098	09/29/17 20:03
Interference Check A	S710438-IFA3	20170929-099	09/29/17 20:08
Interference Check B	S710438-IFB3	20170929-100	09/29/17 20:13
Calibration Check	S710438-CCV7	20170929-101	09/29/17 20:18
Calibration Blank	S710438-CCB7	20170929-102	09/29/17 20:23
Calibration Check	S710438-CCV8	20170929-113	09/29/17 21:18
Calibration Blank	S710438-CCB8	20170929-114	09/29/17 21:23
Instrument RL Check	S710438-CRL5	20170929-115	09/29/17 21:29
Instrument RL Check	S710438-CRL6	20170929-116	09/29/17 21:34
Interference Check A	S710438-IFA4	20170929-117	09/29/17 21:39
Interference Check B	S710438-IFB4	20170929-118	09/29/17 21:44

METALS ANALYSIS RUN LOG

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Sequence: S710438
Instrument: ICAP5
Calibration: 1711058

Sample Name	Lab ID	D/F	Time	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	SU	TL	V	ZN
Calibration Check	S710438-CCV1	1	09/29/17 15:05											X						X							
Calibration Blank	S710438-CCB1	1	09/29/17 15:10											X						X							
Calibration Check	S710438-CCV2	1	09/29/17 16:05											X						X							
Calibration Blank	S710438-CCB2	1	09/29/17 16:10											X						X							
Instrument RL Check	S710438-CRL1	1	09/29/17 16:20											X						X							
Interference Check A	S710438-IFA1	1	09/29/17 16:25	X						X				X		X				X							
Interference Check B	S710438-IFB1	1	09/29/17 16:31	X						X				X		X				X							
Calibration Check	S710438-CCV3	1	09/29/17 16:36											X						X							
Calibration Blank	S710438-CCB3	1	09/29/17 16:41											X						X							
Blank	1716533-BLK1	1	09/29/17 16:46																	X							
LCS	1716533-BS1	1	09/29/17 16:51																	X							
LCS Dup	1716533-BSD1	1	09/29/17 16:56																	X							
TF1-GT-130-091217	SC39163-01	1	09/29/17 17:01																	X							
TF1-GT-115-091217	SC39163-02	1	09/29/17 17:06																	X							
TF1-GT-111-091217	SC39163-03	1	09/29/17 17:11																	X							
TF1-GT-118-091217	SC39163-04	1	09/29/17 17:16																	X							
TF1-DUP-03-091217	SC39163-05	1	09/29/17 17:21																	X							
TF1-MW-1004-09121	SC39163-06	1	09/29/17 17:26																	X							
TF1-GZ-106-091217	S710438-SRD2	5	09/29/17 17:31																	X							
Calibration Check	S710438-CCV4	1	09/29/17 17:36											X						X							
Calibration Blank	S710438-CCB4	1	09/29/17 17:41											X						X							
TF1-GZ-106-091217	SC39163-07	1	09/29/17 17:46																	X							
TF1-GZ-106-091217	1716533-DUP1	1	09/29/17 17:51																	X							
TF1-GZ-106-091217	1716533-MS1	1	09/29/17 17:56																	X							
TF1-GZ-106-091217	1716533-MSD1	1	09/29/17 18:01																	X							
TF1-GZ-106-091217	1716533-PS1	1	09/29/17 18:06																	X							
Instrument RL Check	S710438-CRL2	1	09/29/17 18:11											X						X							
Interference Check A	S710438-IFA2	1	09/29/17 18:16	X						X				X		X				X							
Interference Check B	S710438-IFB2	1	09/29/17 18:21	X						X				X		X				X							
Calibration Check	S710438-CCV5	1	09/29/17 18:27											X						X							
Calibration Blank	S710438-CCB5	1	09/29/17 18:32											X						X							
Calibration Check	S710438-CCV6	1	09/29/17 19:27											X						X							
Calibration Blank	S710438-CCB6	1	09/29/17 19:32											X						X							
Instrument RL Check	S710438-CRL3	1	09/29/17 19:57											X						X							

METALS ANALYSIS RUN LOG

SW846 6010C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S710438	Instrument:	ICAP5
		Calibration:	1711058

Sample Name	Lab ID	D/F	Time	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	SU	TL	V	ZN
Instrument RL Check	S710438-CRL4	1	09/29/17 20:03											X						X							
Interference Check A	S710438-IFA3	1	09/29/17 20:08	X						X				X		X				X							
Interference Check B	S710438-IFB3	1	09/29/17 20:13	X						X				X		X				X							
Calibration Check	S710438-CCV7	1	09/29/17 20:18											X						X							
Calibration Blank	S710438-CCB7	1	09/29/17 20:23											X						X							
Calibration Check	S710438-CCV8	1	09/29/17 21:18											X						X							
Calibration Blank	S710438-CCB8	1	09/29/17 21:23											X						X							
Instrument RL Check	S710438-CRL5	1	09/29/17 21:29											X						X							
Instrument RL Check	S710438-CRL6	1	09/29/17 21:34											X						X							
Interference Check A	S710438-IFA4	1	09/29/17 21:39	X						X				X		X				X							
Interference Check B	S710438-IFB4	1	09/29/17 21:44	X						X				X		X				X							

FORM III - BLANKS
SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: ICAP5
Calibration: 1711058
Sequence: S710437

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S710437-ICB1	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
S710437-CCB1	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C

FORM IV - ICP INTERFERENCE CHECK SAMPLE

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: ICAP5
Calibration: 1710008
Sequence: S708828
Units: mg/l

Lab Sample ID	Analyte	True	Found	%R
S708828-IFA1	Iron	100	102.60000	103
	Magnesium	250	237.10000	95
	Iron	100	102.60000	103
	Sodium		0.05760	
	Aluminum	250	246.20000	98
	Aluminum	250	246.20000	98
	Calcium	250	254.40000	102
	Calcium	250	254.40000	102
	Magnesium	250	237.10000	95
S708828-IFB1	Iron	100	99.02000	99
	Magnesium	250	227.70000	91
	Iron	100	99.02000	99
	Sodium		0.05600	
	Aluminum	250	235.80000	94
	Aluminum	250	235.80000	94
	Calcium	250	246.10000	98
	Calcium	250	246.10000	98
	Magnesium	250	227.70000	91
S708828-IFA2	Iron	100	103.70000	104
	Magnesium	250	241.10000	96
	Iron	100	103.70000	104
	Sodium		0.03970	
	Aluminum	250	248.80000	100
	Aluminum	250	248.80000	100
	Calcium	250	256.80000	103
	Calcium	250	256.80000	103
	Magnesium	250	241.10000	96
S708828-IFB2	Iron	100	100.30000	100
	Magnesium	250	231.90000	93
	Iron	100	100.30000	100

FORM IV - ICP INTERFERENCE CHECK SAMPLE

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: ICAP5
Calibration: 1710008
Sequence: S708828
Units: mg/l

Lab Sample ID	Analyte	True	Found	%R
S708828-IFA4	Calcium	250	252.00000	101
	Magnesium	250	226.30000	91
S708828-IFB4	Iron	100	101.00000	101
	Magnesium	250	231.50000	93
	Sodium		0.04900	
	Aluminum	250	239.80000	96
	Aluminum	250	239.80000	96
	Calcium	250	253.30000	101
	Calcium	250	253.30000	101
	Magnesium	250	231.50000	93
S708828-IFA5	Iron	100	102.20000	102
	Magnesium	250	237.20000	95
	Sodium		0.04620	
	Aluminum	250	246.40000	99
	Aluminum	250	246.40000	99
	Calcium	250	255.70000	102
	Calcium	250	255.70000	102
	Magnesium	250	237.20000	95
S708828-IFB5	Iron	100	101.30000	101
	Magnesium	250	232.70000	93
	Sodium		0.04520	
	Aluminum	250	240.80000	96
	Aluminum	250	240.80000	96
	Calcium	250	253.60000	101
	Calcium	250	253.60000	101
	Magnesium	250	232.70000	93
S708828-IFA6	Iron	100	99.13000	99
	Magnesium	250	230.60000	92
	Sodium		0.05700	
	Aluminum	250	239.60000	96

FORM IV - ICP INTERFERENCE CHECK SAMPLE

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: ICAP5
Calibration: 1710008
Sequence: S708828
Units: mg/l

Lab Sample ID	Analyte	True	Found	%R
S708828-IFA4	Calcium	250	252.00000	101
	Magnesium	250	226.30000	91
S708828-IFB4	Iron	100	101.00000	101
	Magnesium	250	231.50000	93
	Sodium		0.04900	
	Aluminum	250	239.80000	96
	Aluminum	250	239.80000	96
	Calcium	250	253.30000	101
	Calcium	250	253.30000	101
	Magnesium	250	231.50000	93
S708828-IFA5	Iron	100	102.20000	102
	Magnesium	250	237.20000	95
	Sodium		0.04620	
	Aluminum	250	246.40000	99
	Aluminum	250	246.40000	99
	Calcium	250	255.70000	102
	Calcium	250	255.70000	102
	Magnesium	250	237.20000	95
S708828-IFB5	Iron	100	101.30000	101
	Magnesium	250	232.70000	93
	Sodium		0.04520	
	Aluminum	250	240.80000	96
	Aluminum	250	240.80000	96
	Calcium	250	253.60000	101
	Calcium	250	253.60000	101
	Magnesium	250	232.70000	93
S708828-IFA6	Iron	100	99.13000	99
	Magnesium	250	230.60000	92
	Sodium		0.05700	
	Aluminum	250	239.60000	96

FORM IV - ICP INTERFERENCE CHECK SAMPLE

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: ICAP5
Calibration: 1710008
Sequence: S708828
Units: mg/l

Lab Sample ID	Analyte	True	Found	%R
S708828-IFA6	Aluminum	250	239.60000	96
	Calcium	250	248.30000	99
	Calcium	250	248.30000	99
	Magnesium	250	230.60000	92
S708828-IFB6	Iron	100	98.15000	98
	Magnesium	250	223.30000	89
	Sodium		0.05040	
	Aluminum	250	231.10000	92
	Aluminum	250	231.10000	92
	Calcium	250	247.70000	99
	Calcium	250	247.70000	99
	Magnesium	250	223.30000	89
S708828-IFA7	Iron	100	98.92000	99
	Magnesium	250	228.50000	91
	Sodium		0.05280	
	Aluminum	250	238.00000	95
	Aluminum	250	238.00000	95
	Calcium	250	249.70000	100
	Calcium	250	249.70000	100
	Magnesium	250	228.50000	91
S708828-IFB7	Iron	100	99.37000	99
	Magnesium	250	231.00000	92
	Sodium		0.05510	
	Aluminum	250	241.30000	97
	Aluminum	250	241.30000	97
	Calcium	250	248.70000	99
	Calcium	250	248.70000	99
	Magnesium	250	231.00000	92

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

FORM IV - ICP INTERFERENCE CHECK SAMPLE

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: ICAP5
Calibration: 1711058
Sequence: S710438
Units: mg/l

Lab Sample ID	Analyte	True	Found	%R
S710438-IFA1	Iron	100	101.10000	101
	Magnesium	250	233.50000	93
	Iron	100	101.10000	101
	Potassium		-0.04250	
	Aluminum	250	252.80000	101
	Calcium	250	250.30000	100
S710438-IFB1	Iron	100	102.50000	102
	Magnesium	250	231.40000	93
	Iron	100	102.50000	102
	Potassium		-0.04270	
	Aluminum	250	245.20000	98
	Calcium	250	251.90000	101
S710438-IFA2	Iron	100	100.20000	100
	Magnesium	250	229.60000	92
	Iron	100	100.20000	100
	Potassium		-0.03510	
	Aluminum	250	248.20000	99
	Calcium	250	247.70000	99
S710438-IFB2	Iron	100	98.56000	99
	Magnesium	250	227.90000	91
	Iron	100	98.56000	99
	Potassium		-0.03380	
	Aluminum	250	246.90000	99
	Calcium	250	247.00000	99
S710438-IFA3	Iron	100	97.76000	98
	Magnesium	250	226.80000	91
	Iron	100	97.76000	98
	Potassium		-0.05410	
	Aluminum	250	244.90000	98
	Calcium	250	246.20000	98

FORM IV - ICP INTERFERENCE CHECK SAMPLE

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: ICAP5
Calibration: 1711058
Sequence: S710438
Units: mg/l

Lab Sample ID	Analyte	True	Found	%R
S710438-IFB3	Iron	100	96.88000	97
	Magnesium	250	227.90000	91
	Iron	100	96.88000	97
	Potassium		-0.03890	
	Aluminum	250	248.70000	99
	Calcium	250	243.80000	98
S710438-IFA4	Iron	100	97.54000	98
	Magnesium	250	231.80000	93
	Iron	100	97.54000	98
	Potassium		-0.06110	
	Aluminum	250	254.70000	102
	Calcium	250	246.60000	99
S710438-IFB4	Iron	100	98.34000	98
	Magnesium	250	226.80000	91
	Iron	100	98.34000	98
	Potassium		-0.06010	
	Aluminum	250	243.20000	97
	Calcium	250	246.80000	99

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

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 6010C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	ICAP5
Batch:	1716281	Laboratory ID:	1716281-BS1
Preparation:	SW846 3005A	Initial/Final:	50 ml / 50 ml
Analyzed:	09/26/17 17:02	Spike ID:	17H1034
		File ID:	20170926-061

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Iron	2.50	2.84	114	87 - 115
Sodium	12.5	12.1	97	87 - 115
Aluminum	2.50	2.68	107	86 - 115
Calcium	12.5	13.4	107	87 - 113
Magnesium	2.50	2.61	105	85 - 113

File ID: 20170926-062

COMPOUND	SPIKE ADDED (mg/l)	LCSD CONCENTRATION (mg/l)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Iron	2.50	2.78	111	2	20	87 - 115
Sodium	12.5	12.1	97	0.4	20	87 - 115
Aluminum	2.50	2.73	109	2	20	86 - 115
Calcium	12.5	13.2	106	1	20	87 - 113
Magnesium	2.50	2.57	103	2	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 IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 6010C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	ICAP5
Batch:	1716533	Laboratory ID:	1716533-BS1
Preparation:	SW846 3005A	Initial/Final:	50 ml / 50 ml
Analyzed:	09/29/17 16:51	Spike ID:	17H1034
		File ID:	20170929-060

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Potassium	25.0	23.7	95	86 - 114

File ID: 20170929-061

COMPOUND	SPIKE ADDED (mg/l)	LCSD CONCENTRATION (mg/l)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Potassium	25.0	24.4	98	3	20	86 - 114

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-GZ-106-091217

SW846 6010C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	ICAP5
Batch:	1716281	Laboratory ID:	1716281-MS1
Preparation:	SW846 3005A	Initial/Final:	50 ml / 50 ml
Source Sample Name:	TF1-GZ-106-091217	% Solids:	
		Spike ID:	17H1034
		File ID:	20170926-074

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Iron	2.50	1.39	4.32	117 *	87 - 115
Sodium	12.5	5.47	17.2	94	87 - 115
Aluminum	2.50	0.719	4.25	141 *	86 - 115
Calcium	12.5	9.04	21.7	102	87 - 113
Magnesium	2.50	4.56	6.75	88	85 - 113

File ID: 20170926-075

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Iron	2.50	4.38	120 *	1	20	87 - 115
Sodium	12.5	17.6	97	2	20	87 - 115
Aluminum	2.50	4.09	135 *	4	20	86 - 115
Calcium	12.5	21.9	103	0.8	20	87 - 113
Magnesium	2.50	6.98	97	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

SW846 6010C

TF1-GZ-106-091217

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39163

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1716281-PS1

Batch: 1716281

Lab Source ID: SC39163-07

Preparation: SW846 3005A

Initial/Final: 50 ml / 50 ml

Source Sample Name: TF1-GZ-106-091217

% 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	4.24	1.39	2.50	114	SW846 6010C
Sodium	80 - 120	17.7	5.47	12.5	98	SW846 6010C
Aluminum	80 - 120	3.40	0.719	2.50	107	SW846 6010C
Calcium	80 - 120	21.9	9.04	12.5	103	SW846 6010C
Magnesium	80 - 120	7.12	4.56	2.50	102	SW846 6010C

* Values outside of QC limits

FORM VIII - SERIAL DILUTION

SW846 6010C

TF1-GZ-106-091217

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

Client: Tetra Tech, Inc. - Salem, NH

Sequence: S708828

Preparation: 1716317

Source Sample Name: TF1-GZ-106-091217

SDG: SC39163

Project: WE15 Tank Farm 1 NAVSTA Newport

Laboratory ID: S708828-SRD3

Lab Source ID: SC39163-07

Initial/Final: 50 / 50

% Solids:

Units: mg/l

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method	QC Limits % Difference
Iron	1.39		1.58		13 *	E	SW846 6010C	10
Sodium	5.47		5.62		3		SW846 6010C	10
Aluminum	0.719		0.723				SW846 6010C	10
Calcium	9.04		9.22		2		SW846 6010C	10
Magnesium	4.56		4.75		4		SW846 6010C	10

* Values outside of QC limits

FORM IIIc - DUPLICATES

TF1-GZ-106-091217

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
Client: Tetra Tech, Inc. - Salem, NH
Matrix: Aqueous
Batch: 1716281
Preparation: SW846 3005A
Source Sample Name: TF1-GZ-106-091217

SDG: SC39163
Project: WE15 Tank Farm 1 NAVSTA Newport
Laboratory ID: 1716281-DUP1
Lab Source ID: SC39163-07
Initial/Final: 50 ml / 50 ml
% Solids:
File ID: 20170926-073

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l)	C	DUPLICATE CONCENTRATION (mg/l)	C	RPD %	Q	METHOD
Iron	20	1.39		1.42		2		SW846 6010C
Sodium	20	5.47		5.43		0.7		SW846 6010C
Aluminum	20	0.719		0.703		2		SW846 6010C
Calcium	20	9.04		8.95		1		SW846 6010C
Magnesium	20	4.56		4.38		4		SW846 6010C

* 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-GZ-106-091217

SW846 6010C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	ICAP5
Batch:	1716533	Laboratory ID:	1716533-MS1
Preparation:	SW846 3005A	Initial/Final:	50 ml / 50 ml
Source Sample Name:	TF1-GZ-106-091217	% Solids:	
		Spike ID:	17H1034
		File ID:	20170929-073

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Potassium	25.0	1.25	25.7	98	86 - 114

File ID: 20170929-074

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Potassium	25.0	26.1	100	2	20	86 - 114

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

SW846 6010C

TF1-GZ-106-091217

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39163

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1716533-PS1

Batch: 1716533

Lab Source ID: SC39163-07

Preparation: SW846 3005A

Initial/Final: 50 ml / 50 ml

Source Sample Name: TF1-GZ-106-091217

% Solids:

Analyte	Control Limit %R	Spike Sample Result (SSR) (mg/l)	Sample Result (SR) (mg/l)	Spike Added (SA) (mg/l)	%R	Method
Potassium	80 - 120	25.5	1.25	25.0	97	SW846 6010C

* Values outside of QC limits

FORM VIII - SERIAL DILUTION

SW846 6010C

TF1-GZ-106-091217

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

Client: Tetra Tech, Inc. - Salem, NH

Sequence: S710438

Preparation: 1716544

Source Sample Name: TF1-GZ-106-091217

SDG: SC39163

Project: WE15 Tank Farm 1 NAVSTA Newport

Laboratory ID: S710438-SRD2

Lab Source ID: SC39163-07

Initial/Final: 50 / 50

% Solids:

Units: mg/l

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method	QC Limits % Difference
Potassium	1.25		1.14				SW846 6010C	10

* Values outside of QC limits

FORM IIIc - DUPLICATES

TF1-GZ-106-091217

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
Client: Tetra Tech, Inc. - Salem, NH
Matrix: Aqueous
Batch: 1716533
Preparation: SW846 3005A
Source Sample Name: TF1-GZ-106-091217

SDG: SC39163
Project: WE15 Tank Farm 1 NAVSTA Newport
Laboratory ID: 1716533-DUP1
Lab Source ID: SC39163-07
Initial/Final: 50 ml / 50 ml
% Solids:
File ID: 20170929-072

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l)	C	DUPLICATE CONCENTRATION (mg/l)	C	RPD %	Q	METHOD
Potassium	20	1.25		1.24		0.7		SW846 6010C

* Values outside of QC limits

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

TR

PREPARATION BENCH SHEET

1716281

Raise Fe IMPL = .08 (SCRL)

Eurofins Spectrum Analytical, Inc. - MA

Matrix: Aqueous **Prepared using: Metals - SW846 3005A** Rebatch K 1716533

Lab Number	Prepared	Initial (ml)	Final (ml)	Source ID	Spike ID	ul Spike	Spike 2 ID	ul Spike 2	Comments	Client ID	Collected	Due
1716281-BLK1	22-Sep-17 17:15	50	50							Blank	22-Sep-17 17:15	
1716281-BS1	22-Sep-17 17:15	50	50		17H1034	5000				LCS	22-Sep-17 17:15	
1716281-BSD1	22-Sep-17 17:15	50	50		17H1034	5000				LCS Dup	22-Sep-17 17:15	
1716281-DUP1	22-Sep-17 17:15	50	50	SC39163-07						Duplicate	12-Sep-17 08:00	
1716281-MS1	22-Sep-17 17:15	50	50	SC39163-07	17H1034	5000				Matrix Spike	12-Sep-17 08:00	
1716281-MSD1	22-Sep-17 17:15	50	50	SC39163-07	17H1034	5000				Matrix Spike Dup	12-Sep-17 08:00	
1716281-PS1	22-Sep-17 17:15	50	50	SC39163-07	17H1034	5000				Post Spike	12-Sep-17 08:00	
SC39163-01	22-Sep-17 17:15	50	50							TF1-GT-130-0912	12-Sep-17 12:15	**22-Sep-17 16:00**
Al Total ICP 6010 DoD DoD Level IV	*Ca Total ICP 6010 DoD* DoD Level IV			*Fe Total ICP 6010 DoD* DoD Level IV	*K Total ICP 6010 DoD* DoD Level IV		*Mg Total ICP 6010 DoD* DoD Level IV		*Na Total ICP 6010 DoD* DoD Level IV			
SC39163-02	22-Sep-17 17:15	50	50							TF1-GT-115-0912	12-Sep-17 10:30	**22-Sep-17 16:00**
Al Total ICP 6010 DoD DoD Level IV	*Ca Total ICP 6010 DoD* DoD Level IV			*Fe Total ICP 6010 DoD* DoD Level IV	*K Total ICP 6010 DoD* DoD Level IV		*Mg Total ICP 6010 DoD* DoD Level IV		*Na Total ICP 6010 DoD* DoD Level IV			
SC39163-03	22-Sep-17 17:15	50	50							TF1-GT-111-0912	12-Sep-17 14:15	**22-Sep-17 16:00**
Al Total ICP 6010 DoD DoD Level IV	*Ca Total ICP 6010 DoD* DoD Level IV			*Fe Total ICP 6010 DoD* DoD Level IV	*K Total ICP 6010 DoD* DoD Level IV		*Mg Total ICP 6010 DoD* DoD Level IV		*Na Total ICP 6010 DoD* DoD Level IV			
SC39163-04	22-Sep-17 17:15	50	50							TF1-GT-118-0912	12-Sep-17 10:20	**22-Sep-17 16:00**
Al Total ICP 6010 DoD DoD Level IV	*Ca Total ICP 6010 DoD* DoD Level IV			*Fe Total ICP 6010 DoD* DoD Level IV	*K Total ICP 6010 DoD* DoD Level IV		*Mg Total ICP 6010 DoD* DoD Level IV		*Na Total ICP 6010 DoD* DoD Level IV			
SC39163-05	22-Sep-17 17:15	50	50							TF1-DUP-03-0912	12-Sep-17 12:00	**22-Sep-17 16:00**
Al Total ICP 6010 DoD DoD Level IV	*Ca Total ICP 6010 DoD* DoD Level IV			*Fe Total ICP 6010 DoD* DoD Level IV	*K Total ICP 6010 DoD* DoD Level IV		*Mg Total ICP 6010 DoD* DoD Level IV		*Na Total ICP 6010 DoD* DoD Level IV			
SC39163-06	22-Sep-17 17:15	50	50							TF1-MW-1004-09	12-Sep-17 15:10	**22-Sep-17 16:00**
Al Total ICP 6010 DoD DoD Level IV	*Ca Total ICP 6010 DoD* DoD Level IV			*Fe Total ICP 6010 DoD* DoD Level IV	*K Total ICP 6010 DoD* DoD Level IV		*Mg Total ICP 6010 DoD* DoD Level IV		*Na Total ICP 6010 DoD* DoD Level IV			
SC39163-07	22-Sep-17 17:15	50	50							TF1-GZ-106-0912	12-Sep-17 08:00	**22-Sep-17 16:00**
Al Total ICP 6010 DoD DoD Level IV	*Ca Total ICP 6010 DoD* DoD Level IV			*Fe Total ICP 6010 DoD* DoD Level IV	*K Total ICP 6010 DoD* DoD Level IV		*Mg Total ICP 6010 DoD* DoD Level IV		*Na Total ICP 6010 DoD* DoD Level IV			

HSPD1

TR 9.29.17
Analyst Reviewed Date

SMR 9.29.17
Manager Reviewed Date

Prepared By Date

TR
Pipet used for dilutions: P29

Printed: 9/22/2017 7:22:14PM

PREPARATION BENCH SHEET

1716281

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
9/22/17 6010 aq E DoD												

9-29-17

Analyst Reviewed Date

SMR 9-29-17

Manager Reviewed Date

Prepared By Date

Printed: 9/22/2017 7:22:14PM

Pipet used for dilutions: _____

PREPARATION BENCH SHEET

1716533

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
1716533-BLK1	22-Sep-17 17:15	50	50							Blank	22-Sep-17 17:15	
1716533-BS1	22-Sep-17 17:15	50	50		17H1034	5000				LCS	22-Sep-17 17:15	
1716533-BSD1	22-Sep-17 17:15	50	50		17H1034	5000				LCS Dup	22-Sep-17 17:15	
1716533-DUP1	22-Sep-17 17:15	50	50	SC39163-07						Duplicate	12-Sep-17 08:00	
1716533-MS1	22-Sep-17 17:15	50	50	SC39163-07	17H1034	5000				Matrix Spike	12-Sep-17 08:00	
1716533-MSD1	22-Sep-17 17:15	50	50	SC39163-07	17H1034	5000				Matrix Spike Dup	12-Sep-17 08:00	
1716533-PS1	22-Sep-17 17:15	50	50	SC39163-07	17H1034	5000				Post Spike	12-Sep-17 08:00	
SC39163-01 *K Total ICP 6010 DoD* DoD Level IV	22-Sep-17 17:15	50	50							TF1-GT-130-0912	12-Sep-17 12:15	**22-Sep-17 16:00**
SC39163-02 *K Total ICP 6010 DoD* DoD Level IV	22-Sep-17 17:15	50	50							TF1-GT-115-0912	12-Sep-17 10:30	**22-Sep-17 16:00**
SC39163-03 *K Total ICP 6010 DoD* DoD Level IV	22-Sep-17 17:15	50	50							TF1-GT-111-0912	12-Sep-17 14:15	**22-Sep-17 16:00**
SC39163-04 *K Total ICP 6010 DoD* DoD Level IV	22-Sep-17 17:15	50	50							TF1-GT-118-0912	12-Sep-17 10:20	**22-Sep-17 16:00**
SC39163-05 *K Total ICP 6010 DoD* DoD Level IV	22-Sep-17 17:15	50	50							TF1-DUP-03-0912	12-Sep-17 12:00	**22-Sep-17 16:00**
SC39163-06 *K Total ICP 6010 DoD* DoD Level IV	22-Sep-17 17:15	50	50							TF1-MW-1004-09	12-Sep-17 15:10	**22-Sep-17 16:00**
SC39163-07 *K Total ICP 6010 DoD* DoD Level IV	22-Sep-17 17:15	50	50 +SRD1							TF1-GZ-106-0912	12-Sep-17 08:00	**22-Sep-17 16:00**

10-2-17
Analyst Reviewed Date

SMR 10-2-17
Manager Reviewed Date

Rebatch 9-27-17
Prepared By Date

Printed: 9/27/2017 12:10:44PM

Pipet used for dilutions: P29

PREPARATION BENCH SHEET

1716533

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

9/22/17 aq 6010 metals E
DoD

From 1716281 on 27-Sep-17 by TBC
Rebatch due to tier rerun

TBC 10-2-17
Analyst Reviewed Date

SMR 10-2-17
Manager Reviewed Date

Rebatch TBC 9-27-17
Prepared By Date

Pipet used for dilutions: _____

Printed: 9/27/2017 12:10:44PM

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39163

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112G08005-WE15

SDG #: SC39163

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.

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 1716283 from source sample TF1-DUP-03-091217 (SC39163-05).

All method criteria were met.

3. Post Spike Samples (PS):

A post spike was analyzed.

In batch 1716283 from source sample TF1-DUP-03-091217 (SC39163-05).

All method criteria were met.

D. Duplicates:

A duplicate was analyzed.

In batch 1716283 from source sample TF1-DUP-03-091217 (SC39163-05).

All method criteria were met.

E. Samples:

All method criteria were met.

CROSS REFERENCE TABLE

EPA 245.1/7470A

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15		

Client Sample ID:	Lab Sample ID:
TF1-GT-130-091217	SC39163-01
TF1-GT-115-091217	SC39163-02
TF1-GT-111-091217	SC39163-03
TF1-GT-118-091217	SC39163-04
TF1-DUP-03-091217	SC39163-05
TF1-MW-1004-091217	SC39163-06
TF1-GZ-106-091217	SC39163-07

METALS ANALYSIS RUN LOG

EPA 245.1/7470A

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S710400	Instrument:	Mercury4
		Calibration:	1711054

Sample Name	Lab ID	D/F	Time	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	SU	TL	V	ZN
Cal Standard	S710400-CAL1	1	09/25/17 12:57															X									
Cal Standard	S710400-CAL2	1	09/25/17 12:59															X									
Cal Standard	S710400-CAL3	1	09/25/17 13:01															X									
Cal Standard	S710400-CAL4	1	09/25/17 13:03															X									
Cal Standard	S710400-CAL5	1	09/25/17 13:05															X									
Cal Standard	S710400-CAL6	1	09/25/17 13:07															X									
Cal Standard	S710400-CAL7	1	09/25/17 13:09															X									
Cal Standard	S710400-CAL8	1	09/25/17 13:11															X									
Initial Cal Check	S710400-ICV1	1	09/25/17 13:15															X									
Initial Cal Blank	S710400-ICB1	1	09/25/17 13:17															X									
Instrument RL Check	S710400-CRL1	1	09/25/17 13:20															X									
Calibration Check	S710400-CCV1	1	09/25/17 13:23															X									
Calibration Blank	S710400-CCB1	1	09/25/17 13:25															X									

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 245.1/7470A

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S710401	Instrument:	Mercury4
		Calibration:	1711054

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	S710401-CCV1	092517A-038	09/25/17 14:16
Calibration Blank	S710401-CCB1	092517A-039	09/25/17 14:18
Instrument RL Check	S710401-CRL1	092517A-040	09/25/17 14:20
Calibration Check	S710401-CCV2	092517A-051	09/25/17 14:43
Calibration Blank	S710401-CCB2	092517A-052	09/25/17 14:45
Instrument RL Check	S710401-CRL2	092517A-060	09/25/17 15:01
Calibration Check	S710401-CCV3	092517A-061	09/25/17 15:03
Calibration Blank	S710401-CCB3	092517A-062	09/25/17 15:05
Instrument RL Check	S710401-CRL3	092517A-063	09/25/17 15:14
Instrument RL Check	S710401-CRL4	092517A-073	09/25/17 15:41
Calibration Check	S710401-CCV4	092517A-074	09/25/17 15:43
Calibration Blank	S710401-CCB4	092517A-075	09/25/17 15:45
Blank	1716283-BLK1	092517A-076	09/25/17 15:47
LCS	1716283-BS1	092517A-077	09/25/17 15:49
TF1-GT-130-091217	SC39163-01	092517A-078	09/25/17 15:51
TF1-GT-115-091217	SC39163-02	092517A-079	09/25/17 15:53
TF1-GT-111-091217	SC39163-03	092517A-080	09/25/17 15:55
TF1-GT-118-091217	SC39163-04	092517A-081	09/25/17 15:57
TF1-DUP-03-091217	SC39163-05	092517A-082	09/25/17 15:59
TF1-DUP-03-091217	1716283-DUP1	092517A-083	09/25/17 16:01
TF1-DUP-03-091217	1716283-MS1	092517A-084	09/25/17 16:03
TF1-DUP-03-091217	1716283-MSD1	092517A-085	09/25/17 16:05
Calibration Check	S710401-CCV5	092517A-086	09/25/17 16:07
Calibration Blank	S710401-CCB5	092517A-087	09/25/17 16:09
TF1-DUP-03-091217	1716283-PS1	092517A-088	09/25/17 16:11
TF1-MW-1004-091217	SC39163-06	092517A-089	09/25/17 16:13
TF1-GZ-106-091217	SC39163-07	092517A-090	09/25/17 16:15
Instrument RL Check	S710401-CRL5	092517A-091	09/25/17 16:17
Calibration Check	S710401-CCV6	092517A-092	09/25/17 16:19
Calibration Blank	S710401-CCB6	092517A-093	09/25/17 16:21

METALS ANALYSIS RUN LOG

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

Client: Tetra Tech, Inc. - Salem, NH

Sequence: S710401

SDG: SC39163

Project: WE15 Tank Farm 1 NAVSTA Newport

Instrument: Mercury4

Calibration: 1711054

Sample Name	Lab ID	D/F	Time	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	SU	TL	V	ZN
Calibration Check	S710401-CCV1	1	09/25/17 14:16															X									
Calibration Blank	S710401-CCB1	1	09/25/17 14:18															X									
Instrument RL Check	S710401-CRL1	1	09/25/17 14:20															X									
Calibration Check	S710401-CCV2	1	09/25/17 14:43															X									
Calibration Blank	S710401-CCB2	1	09/25/17 14:45															X									
Instrument RL Check	S710401-CRL2	1	09/25/17 15:01															X									
Calibration Check	S710401-CCV3	1	09/25/17 15:03															X									
Calibration Blank	S710401-CCB3	1	09/25/17 15:05															X									
Instrument RL Check	S710401-CRL3	1	09/25/17 15:14															X									
Instrument RL Check	S710401-CRL4	1	09/25/17 15:41															X									
Calibration Check	S710401-CCV4	1	09/25/17 15:43															X									
Calibration Blank	S710401-CCB4	1	09/25/17 15:45															X									
Blank	1716283-BLK1	1	09/25/17 15:47															X									
LCS	1716283-BS1	1	09/25/17 15:49															X									
TF1-GT-130-091217	SC39163-01	1	09/25/17 15:51															X									
TF1-GT-115-091217	SC39163-02	1	09/25/17 15:53															X									
TF1-GT-111-091217	SC39163-03	1	09/25/17 15:55															X									
TF1-GT-118-091217	SC39163-04	1	09/25/17 15:57															X									
TF1-DUP-03-091217	SC39163-05	1	09/25/17 15:59															X									
TF1-DUP-03-091217	1716283-DUP1	1	09/25/17 16:01															X									
TF1-DUP-03-091217	1716283-MS1	1	09/25/17 16:03															X									
TF1-DUP-03-091217	1716283-MSD1	1	09/25/17 16:05															X									
Calibration Check	S710401-CCV5	1	09/25/17 16:07															X									
Calibration Blank	S710401-CCB5	1	09/25/17 16:09															X									
TF1-DUP-03-091217	1716283-PS1	1	09/25/17 16:11															X									
TF1-MW-1004-09121	SC39163-06	1	09/25/17 16:13															X									
TF1-GZ-106-091217	SC39163-07	1	09/25/17 16:15															X									
Instrument RL Check	S710401-CRL5	1	09/25/17 16:17															X									
Calibration Check	S710401-CCV6	1	09/25/17 16:19															X									
Calibration Blank	S710401-CCB6	1	09/25/17 16:21															X									

FORM III - BLANKS
EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: Mercury4
Calibration: 1711054
Sequence: S710400

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S710400-ICB1	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710400-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: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: Mercury4
Calibration: 1711054
Sequence: S710401

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S710401-CCB1	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710401-CCB2	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710401-CCB3	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710401-CCB4	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
1716283-BLK1	Mercury	BRL	0.00020	mg/l	U	EPA 245.1/7470A
S710401-CCB5	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710401-CCB6	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:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	Mercury4
Batch:	1716283	Laboratory ID:	1716283-BS1
Preparation:	EPA200/SW7000 Series	Initial/Final:	20 ml / 20 ml
Analyzed:	09/25/17 15:49	Spike ID:	17I0655
		File ID:	092517A-077

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Mercury	0.00500	0.00475	95	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-DUP-03-091217

EPA 245.1/7470A

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	Mercury4
Batch:	1716283	Laboratory ID:	1716283-MS1
Preparation:	EPA200/SW7000 Series	Initial/Final:	20 ml / 20 ml
Source Sample Name:	TF1-DUP-03-091217	% Solids:	
		Spike ID:	17I0655
		File ID:	092517A-084

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Mercury	0.00500	BRL	0.00475	95	82 - 119

File ID: 092517A-085

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Mercury	0.00500	0.00449	90	6	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

EPA 245.1/7470A

TF1-DUP-03-091217

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39163

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Matrix: Aqueous

Laboratory ID: 1716283-PS1

Batch: 1716283

Lab Source ID: SC39163-05

Preparation: EPA200/SW7000 Series

Initial/Final: 20 ml / 20 ml

Source Sample Name: TF1-DUP-03-091217

% 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	0.00470	BRL	0.00500	94	EPA 245.1/7470A

* Values outside of QC limits

FORM IIIc - DUPLICATES

TF1-DUP-03-091217

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
Client: Tetra Tech, Inc. - Salem, NH
Matrix: Aqueous
Batch: 1716283
Preparation: EPA200/SW7000 Series
Source Sample Name: TF1-DUP-03-091217

SDG: SC39163
Project: WE15 Tank Farm 1 NAVSTA Newport
Laboratory ID: 1716283-DUP1
Lab Source ID: SC39163-05
Initial/Final: 20 ml / 20 ml
% Solids:
File ID: 092517A-083

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

UDR 10000
SNU2 17 J5704

PREPARATION BENCH SHEET

1716283

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
1716283-BLK1	22-Sep-17 17:15	20	20							Blank	22-Sep-17 17:15	
1716283-BS1	22-Sep-17 17:15	20	20		17I0654~~5~~	500				LCS	22-Sep-17 17:15	
1716283-DUP1	22-Sep-17 17:15	20	20	SC39163-05						Duplicate	12-Sep-17 12:00	
1716283-MS1	22-Sep-17 17:15	20	20	SC39163-05	17I0654~~5~~	500				Matrix Spike	12-Sep-17 12:00	
1716283-MSD1	22-Sep-17 17:15	20	20	SC39163-05	17I0654~~5~~	500				Matrix Spike Dup	12-Sep-17 12:00	
1716283-PS1	22-Sep-17 17:15	20	20	SC39163-05	17I0654~~5~~	500				Post Spike	12-Sep-17 12:00	
SC39163-01 *Hg Total CVAA DoD* DoD Level IV	22-Sep-17 17:15	20	20		LMb 9.25.17					TF1-GT-130-0912	12-Sep-17 12:15	**22-Sep-17 16:00**
SC39163-02 *Hg Total CVAA DoD* DoD Level IV	22-Sep-17 17:15	20	20							TF1-GT-115-0912	12-Sep-17 10:30	**22-Sep-17 16:00**
SC39163-03 *Hg Total CVAA DoD* DoD Level IV	22-Sep-17 17:15	20	20							TF1-GT-111-0912	12-Sep-17 14:15	**22-Sep-17 16:00**
SC39163-04 *Hg Total CVAA DoD* DoD Level IV	22-Sep-17 17:15	20	20							TF1-GT-118-0912	12-Sep-17 10:20	**22-Sep-17 16:00**
SC39163-05 *Hg Total CVAA DoD* DoD Level IV	22-Sep-17 17:15	20	20							TF1-DUP-03-0912	12-Sep-17 12:00	**22-Sep-17 16:00**
SC39163-06 *Hg Total CVAA DoD* DoD Level IV	22-Sep-17 17:15	20	20							TF1-MW-1004-09	12-Sep-17 15:10	**22-Sep-17 16:00**

LMb 9.25.17
Analyst Reviewed Date

Caw 9/26/17
Manager Reviewed Date

9.22.17
Prepared By Date

Printed: 9/22/2017 7:23:36PM

Pipet used for dilutions: _____

PREPARATION BENCH SHEET

1716283

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
SC39163-07 *Hg Total CVAA DoD* DoD Level IV	22-Sep-17 17:15	20	20							TF1-GZ-106-0912	12-Sep-17 08:00	**22-Sep-17 16:00**

9/22/17 Hg Aq E
DoD

Analyst Reviewed 9-25-17 Date

Manager Reviewed 9/26/17 Date

Prepared By 9-22-17 Date

Printed: 9/22/2017 7:23:36PM

Pipet used for dilutions: _____

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39163

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112G08005-WE15

SDG #: SC39163

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 1715726 from source sample TF1-MW-1004-091217 (SC39163-06).

All method criteria were met.

3. Reference:

All method criteria were met.

D. Duplicates:

A duplicate was analyzed.

In batch 1715726 from source sample TF1-MW-1004-091217 (SC39163-06).

All method criteria were met.

E. Samples:

All method criteria were met.

CROSS REFERENCE TABLE

EPA 300.0

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15		

Client Sample ID:	Lab Sample ID:
TF1-GT-130-091217	SC39163-01
TF1-GT-115-091217	SC39163-02
TF1-GT-111-091217	SC39163-03
TF1-GT-118-091217	SC39163-04
TF1-DUP-03-091217	SC39163-05
TF1-MW-1004-091217	SC39163-06

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 300.0

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
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:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S709518	Instrument:	IC3
		Calibration:	1710011

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	1715726-CCV1	091317-037	09/13/17 21:21
Calibration Blank	1715726-CCB1	091317-038	09/13/17 21:37
TF1-GT-115-091217	SC39163-02	091317-039	09/13/17 21:53
TF1-GT-118-091217	SC39163-04	091317-041	09/13/17 22:25
TF1-GT-130-091217	SC39163-01	091317-045	09/13/17 23:29
Calibration Check	1715726-CCV2	091317-049	09/14/17 00:33
Calibration Blank	1715726-CCB2	091317-050	09/14/17 00:49
TF1-DUP-03-091217	SC39163-05	091317-052	09/14/17 01:21
TF1-GT-111-091217	SC39163-03	091317-054	09/14/17 01:53
TF1-MW-1004-091217	SC39163-06	091317-055	09/14/17 02:09
TF1-MW-1004-091217	1715726-DUP1	091317-056	09/14/17 02:25
Calibration Check	1715726-CCV3	091317-061	09/14/17 03:45
Calibration Blank	1715726-CCB3	091317-062	09/14/17 04:01
TF1-MW-1004-091217	1715726-MS1	091317-063	09/14/17 04:17
TF1-MW-1004-091217	1715726-MSD1	091317-064	09/14/17 04:33
Calibration Check	1715726-CCV4	091317-073	09/14/17 06:57
Calibration Blank	1715726-CCB4	091317-074	09/14/17 07:13
Blank	1715726-BLK1	091317-082	09/14/17 09:20
LCS	1715726-BS1	091317-083	09/14/17 09:36
Reference	1715726-SRM1	091417-001	09/14/17 09:52
Calibration Check	1715726-CCV5	091417-002	09/14/17 10:08
Calibration Blank	1715726-CCB5	091417-004	09/14/17 10:33
Calibration Check	1715726-CCV6	091417-014	09/14/17 13:12
Calibration Blank	1715726-CCB6	091417-015	09/14/17 13:28

FORM III - BLANKS
EPA 300.0

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: IC3
Calibration: 1710011
Sequence: S708848
Matrix: Drinking Water

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
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. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: IC3
Calibration: 1710011
Sequence: S709518
Matrix: Aqueous

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
1715726-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
1715726-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
1715726-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
1715726-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
1715726-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
1715726-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
1715726-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

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

EPA 300.0

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	IC3
Batch:	1715726	Laboratory ID:	1715726-BS1
Preparation:	General Preparation	Initial/Final:	5 ml / 5 ml
Analyzed:	09/14/17 09:36	Spike ID:	17I0371
		File ID:	091317-083

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Chloride	20.0	19.9	100	90 - 110
Sulfate as SO4	20.0	19.9	99	90 - 110
Nitrate as N	2.00	1.96	98	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 IIIc - DUPLICATES

TF1-MW-1004-091217

EPA 300.0

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
Client: Tetra Tech, Inc. - Salem, NH
Matrix: Aqueous
Batch: 1715726
Preparation: General Preparation
Source Sample Name: TF1-MW-1004-091217

SDG: SC39163
Project: WE15 Tank Farm 1 NAVSTA Newport
Laboratory ID: 1715726-DUP1
Lab Source ID: SC39163-06
Initial/Final: 5 ml / 5 ml
% Solids:
File ID: 091317-056

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l)	C	DUPLICATE CONCENTRATION (mg/l)	C	RPD %	Q	METHOD
Chloride	20	36.9		37.0		0.2		EPA 300.0
Sulfate as SO4	20	34.9		35.0		0.1		EPA 300.0
Nitrate as N	20	BRL		BDL				EPA 300.0

* 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-MW-1004-091217

EPA 300.0

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	IC3
Batch:	1715726	Laboratory ID:	1715726-MS1
Preparation:	General Preparation	Initial/Final:	5 ml / 5 ml
Source Sample Name:	TF1-MW-1004-091217	% Solids:	
		Spike ID:	17I0115
		File ID:	091317-063

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Chloride	8.00	36.9	44.5	95	90 - 110
Sulfate as SO4	8.00	34.9	42.3	92	90 - 110
Nitrate as N	0.800	BRL	0.824	103	90 - 110

File ID: 091317-064

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloride	8.00	44.6	96	0.1	20	90 - 110
Sulfate as SO4	8.00	42.4	93	0.1	20	90 - 110
Nitrate as N	0.800	0.827	103	0.4	20	90 - 110

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

* Values outside of QC limits

FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

EPA 300.0

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous
Spike ID: 17I0370
Batch: 1715726
Laboratory ID: 1715726-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	24.8	99	90 - 110
Sulfate as SO4	25.0	25.1	100	90 - 110
Nitrate as N	2.50	2.38	95	90 - 110

* Values outside of QC limits

PREPARATION BENCH SHEET

1715726

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
1715726-BLK1	Blank		QC	5	5					
1715726-BS1	LCS		QC	5	5	17I0371				
1715726-CCB1	Calibration Blank		QC	5	5					
1715726-CCB2	Calibration Blank		QC	5	5					
1715726-CCB3	Calibration Blank		QC	5	5					
1715726-CCB4	Calibration Blank		QC	5	5					
1715726-CCB5	Calibration Blank		QC	5	5					
1715726-CCB6	Calibration Blank		QC	5	5					
1715726-CCV1	Calibration Check		QC	5	5	17I0371				
1715726-CCV2	Calibration Check		QC	5	5	17I0371				
1715726-CCV3	Calibration Check		QC	5	5	17I0371				
1715726-CCV4	Calibration Check		QC	5	5	17I0371				
1715726-CCV5	Calibration Check		QC	5	5	17I0371				
1715726-CCV6	Calibration Check		QC	5	5	17I0371				
1715726-DUP1	Duplicate		QC	5	5		SC39163-06			
1715726-DUP2	Duplicate		QC	5	5		SC39164-02			
1715726-MS1	Matrix Spike		QC	5	5	17I0115	SC39163-06		T4, IC#1	
1715726-MS2	Matrix Spike		QC	1	5	17I0115	SC39164-02		T4, IC#1	
1715726-MSD1	Matrix Spike Dup		QC	5	5	17I0115	SC39163-06		T4, IC#1	
1715726-MSD2	Matrix Spike Dup		QC	1	5	17I0115	SC39164-02		T4, IC#1	
1715726-SRM1	Reference		QC	5	5	17I0370				
SC39039-02RE1	Effluent	G	wc-Chloride-30	5	5			13-Sep-17 15:00		**Re-extract added 9/14/2017 by LNB**

LNB 9-14-17 — Analyst Reviewed — Date

[illegible] 9/14/17 — Manager Reviewed — Date

Extracts Received By — Date

Printed: 9/14/2017 2:39:16PM

PREPARATION BENCH SHEET

1715726

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
SC39154-01	CC-5A	B	wc-Nitrate 300.	5	5			22-Sep-17 16:00		
SC39154-02	CC-4A	B	wc-Nitrate 300.	5	5			22-Sep-17 16:00		
SC39154-03	CC-6A	B	wc-Nitrate 300.	5	5			22-Sep-17 16:00		
SC39154-04	MW-9U	B	wc-Nitrate 300.	5	5			22-Sep-17 16:00		
SC39154-05	CC-1A	B	wc-Nitrate 300.	5	5			22-Sep-17 16:00		
SC39163-01	TF1-GT-130-091217	O	wc-Chloride-30	5	5			22-Sep-17 16:00		**DoD Level IV**
SC39163-01	TF1-GT-130-091217	O	wc-Nitrate 300.	5	5			22-Sep-17 16:00		**DoD Level IV**
SC39163-01	TF1-GT-130-091217	O	wc-Sulfate - 30	5	5			22-Sep-17 16:00		**DoD Level IV**
SC39163-02	TF1-GT-115-091217	N	wc-Chloride-30	5	5			22-Sep-17 16:00		**DoD Level IV**
SC39163-02	TF1-GT-115-091217	N	wc-Nitrate 300.	5	5			22-Sep-17 16:00		**DoD Level IV**
SC39163-02	TF1-GT-115-091217	N	wc-Sulfate - 30	5	5			22-Sep-17 16:00		**DoD Level IV**
SC39163-03	TF1-GT-111-091217	O	wc-Chloride-30	5	5			22-Sep-17 16:00		**DoD Level IV**
SC39163-03	TF1-GT-111-091217	O	wc-Nitrate 300.	5	5			22-Sep-17 16:00		**DoD Level IV**
SC39163-03	TF1-GT-111-091217	O	wc-Sulfate - 30	5	5			22-Sep-17 16:00		**DoD Level IV**
SC39163-04	TF1-GT-118-091217	N	wc-Chloride-30	5	5			22-Sep-17 16:00		**DoD Level IV**
SC39163-04	TF1-GT-118-091217	N	wc-Nitrate 300.	5	5			22-Sep-17 16:00		**DoD Level IV**
SC39163-04	TF1-GT-118-091217	N	wc-Sulfate - 30	5	5			22-Sep-17 16:00		**DoD Level IV**
SC39163-05	TF1-DUP-03-091217	N	wc-Chloride-30	5	5			22-Sep-17 16:00		**DoD Level IV**
SC39163-05	TF1-DUP-03-091217	N	wc-Nitrate 300.	5	5			22-Sep-17 16:00		**DoD Level IV**
SC39163-05	TF1-DUP-03-091217	N	wc-Sulfate - 30	5	5			22-Sep-17 16:00		**DoD Level IV**
SC39163-06	TF1-MW-1004-091217	O	wc-Chloride-30	5	5			22-Sep-17 16:00		**DoD Level IV**
SC39163-06	TF1-MW-1004-091217	O	wc-Nitrate 300.	5	5			22-Sep-17 16:00		**DoD Level IV**

LNB 9-14-17 — Analyst Reviewed — Date

Manager Reviewed — Date

Extracts Received By — Date

Printed: 9/14/2017 2:39:16PM

PREPARATION BENCH SHEET

1715726

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
SC39163-06	TF1-MW-1004-091217	O	wc-Sulfate - 30	5	5			22-Sep-17 16:00		**DoD Level IV**
SC39164-01	Influent	G	wc-Chloride-30	5	5			15-Sep-17 14:00		**See attached for limits & compounds**
SC39164-02	Effluent	G	wc-Chloride-30	5	5			15-Sep-17 14:00		**See attached for limits & compounds**
SC39164-02	Effluent	G	wc-Nitrate 300.	5	5					**BatchQC**
SC39164-02	Effluent	G	wc-Sulfate - 30	5	5					**BatchQC**

9/13/17 AQ ANIONS LNB

Reagents Used:

17A0456 IC3 column

17I0242 IC3 Eluent 090817

LNB 9.14.17

Analyst Reviewed Date

9/14/17

Manager Reviewed Date

Extracts Received By Date

Printed: 9/14/2017 2:39:16PM

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39163

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport / 112G08005-WE15

SDG #: SC39163

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):

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1716147 from source sample TF1-GT-130-091217 (SC39163-01).

All method criteria were met.

3. Reference:

All method criteria were met.

D. Duplicates:

A duplicate was analyzed.

In batch 1716147 from source sample TF1-GT-130-091217 (SC39163-01).

All method criteria were met.

E. Samples:

All method criteria were met.

CROSS REFERENCE TABLE

SM5310B (00, 11)

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15		

Client Sample ID:	Lab Sample ID:
TF1-GT-130-091217	SC39163-01
TF1-GT-115-091217	SC39163-02
TF1-GT-111-091217	SC39163-03
TF1-GT-118-091217	SC39163-04
TF1-DUP-03-091217	SC39163-05
TF1-MW-1004-091217	SC39163-06
TF1-GZ-106-091217	SC39163-07

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SM5310B (00, 11)

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
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:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708405	Instrument:	TOC4
		Calibration:	1706085

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	1716147-CCV1	1716147-001	09/20/17 16:40
Calibration Blank	1716147-CCB1	1716147-002	09/20/17 16:56
Blank	1716147-BLK1	1716147-003	09/20/17 17:11
LCS	1716147-BS1	1716147-004	09/20/17 17:25
Reference	1716147-SRM1	1716147-005	09/20/17 17:41
TF1-GT-130-091217	SC39163-01	1716147-009	09/20/17 19:19
TF1-GT-130-091217	1716147-DUP1	1716147-010	09/20/17 19:34
TF1-GT-130-091217	1716147-MS1	1716147-011	09/20/17 19:50
TF1-GT-130-091217	1716147-MSD1	1716147-012	09/20/17 20:03
Calibration Check	1716147-CCV2	1716147-013	09/20/17 20:20
Calibration Blank	1716147-CCB2	1716147-014	09/20/17 20:36
TF1-GT-115-091217	SC39163-02	1716147-015	09/20/17 20:50
TF1-GT-111-091217	SC39163-03	1716147-016	09/20/17 21:07
TF1-GT-118-091217	SC39163-04	1716147-017	09/20/17 21:23
TF1-DUP-03-091217	SC39163-05	1716147-018	09/20/17 21:40
TF1-MW-1004-091217	SC39163-06	1716147-019	09/20/17 21:56
TF1-GZ-106-091217	SC39163-07	1716147-020	09/20/17 22:12
Calibration Check	1716147-CCV3	1716147-021	09/20/17 22:26
Calibration Blank	1716147-CCB3	1716147-022	09/20/17 22:43

FORM III - BLANKS
SM5310B (00, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
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)

No action, ICB run in June, no TOC in CCBs run in September

FORM III - BLANKS
SM5310B (00, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: TOC4
Calibration: 1706085
Sequence: S708405
Matrix: Aqueous

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
1716147-CCB1	Total Organic Carbon	BRL	1.00	mg/l	U	SM5310B (00, 11)
1716147-BLK1	Total Organic Carbon	BRL	1.00	mg/l	U	SM5310B (00, 11)
1716147-CCB2	Total Organic Carbon	BRL	1.00	mg/l	U	SM5310B (00, 11)
1716147-CCB3	Total Organic Carbon	BRL	1.00	mg/l	U	SM5310B (00, 11)

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SM5310B (00, 11)

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	TOC4
Batch:	1716147	Laboratory ID:	1716147-BS1
Preparation:	General Preparation	Initial/Final:	40 ml / 40 ml
Analyzed:	09/20/17 17:25	Spike ID:	17H0827
		File ID:	1716147-004

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	15.0	13.2	88	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 IIIc - DUPLICATES

TF1-GT-130-091217

SM5310B (00, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
Client: Tetra Tech, Inc. - Salem, NH
Matrix: Aqueous
Batch: 1716147
Preparation: General Preparation
Source Sample Name: TF1-GT-130-091217

SDG: SC39163
Project: WE15 Tank Farm 1 NAVSTA Newport
Laboratory ID: 1716147-DUP1
Lab Source ID: SC39163-01
Initial/Final: 40 ml / 40 ml
% Solids:
File ID: 1716147-010

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l)	C	DUPLICATE CONCENTRATION (mg/l)	C	RPD %	Q	METHOD
Total Organic Carbon	20	1.68		1.54		9		SM5310B (00, 11)

* 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-GT-130-091217

SM5310B (00, 11)

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	TOC4
Batch:	1716147	Laboratory ID:	1716147-MS1
Preparation:	General Preparation	Initial/Final:	40 ml / 40 ml
Source Sample Name:	TF1-GT-130-091217	% Solids:	
		Spike ID:	16E0251
		File ID:	1716147-011

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Total Organic Carbon	5.00	1.68	6.28	92	70 - 130

File ID: 1716147-012

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Total Organic Carbon	5.00	6.20	90	1	30	70 - 130

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

* Values outside of QC limits

FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

SM5310B (00, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous
Spike ID: 17H0608
Batch: 1716147
Laboratory ID: 1716147-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	13.4	92	88 - 112

* Values outside of QC limits

PREPARATION BENCH SHEET

1716147

Sequence S708405

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
1716147-BLK1	Blank		QC	40	40					
1716147-BS1	LCS		QC	40	40	17H0827				
1716147-CCB1	Calibration Blank		QC	40	40					
1716147-CCB2	Calibration Blank		QC	40	40					
1716147-CCB3	Calibration Blank		QC	40	40					
1716147-CCV1	Calibration Check		QC	40	40	17H0827				
1716147-CCV2	Calibration Check		QC	40	40	17H0827				
1716147-CCV3	Calibration Check		QC	40	40	17H0827				
1716147-DUP1	Duplicate		QC	40	40		SC39163-01			
1716147-MS1	Matrix Spike		QC	40	40	16E0251	SC39163-01		ICI	
1716147-MSD1	Matrix Spike Dup		QC	40	40	16E0251	SC39163-01		ICI	
1716147-SRM1	Reference		QC	40	40	17H0608			PCG	
SC39093-01	TF1-GT-121-091117	F	wc-TOC - water	40	40			21-Sep-17 16:00		**DoD Level IV**
SC39093-02	TF1-GT-119-091117	F	wc-TOC - water	40	40			21-Sep-17 16:00		**DoD Level IV**
SC39093-03	TF1-GZ-103-091117	F	wc-TOC - water	40	40			21-Sep-17 16:00		**DoD Level IV**
SC39163-01	TF1-GT-130-091217	F	wc-TOC - water	40	40			22-Sep-17 16:00		**DoD Level IV**
SC39163-02	TF1-GT-115-091217	F	wc-TOC - water	40	40			22-Sep-17 16:00		**DoD Level IV**
SC39163-03	TF1-GT-111-091217	F	wc-TOC - water	40	40			22-Sep-17 16:00		**DoD Level IV**
SC39163-04	TF1-GT-118-091217	F	wc-TOC - water	40	40			22-Sep-17 16:00		**DoD Level IV**
SC39163-05	TF1-DUP-03-091217	F	wc-TOC - water	40	40			22-Sep-17 16:00		**DoD Level IV**
SC39163-06	TF1-MW-1004-091217	F	wc-TOC - water	40	40			22-Sep-17 16:00		**DoD Level IV**
SC39163-07	TF1-GZ-106-091217	F	wc-TOC - water	40	40			22-Sep-17 16:00		**DoD Level IV**

Analyst Reviewed — 9.22.17 Date

Manager Reviewed — 9/22/17 Date

Extracts Received By — Date

Printed: 9/21/2017 6:10:24PM

PREPARATION BENCH SHEET

1716147

Sequence S708405

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

toc9/20/17rlt
VIAL LOT 7-080-001

Reagents Used:

17E0315 TOC WATER---1M HCL

Analyst Reviewed 9/22/17 Date

Manager Reviewed 9/22/17 Date

Extracts Received By Date

Printed: 9/21/2017 6:10:24PM

CROSS REFERENCE TABLE

SM18-22 5210B

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15		

Client Sample ID:	Lab Sample ID:
TF1-GT-130-091217	SC39163-01
TF1-GT-115-091217	SC39163-02
TF1-GT-111-091217	SC39163-03
TF1-GT-118-091217	SC39163-04
TF1-DUP-03-091217	SC39163-05
TF1-MW-1004-091217	SC39163-06

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SM18-22 5210B

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708314	Instrument:	DO Meter
		Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Blank	1715818-BLK1		09/19/17 14:05
LCS	1715818-BS1		09/19/17 14:05
Reference	1715818-SRM1		09/19/17 14:05
TF1-GT-130-091217	SC39163-01		09/19/17 14:05
TF1-GT-115-091217	SC39163-02		09/19/17 14:05
TF1-GT-111-091217	SC39163-03		09/19/17 14:05
TF1-GT-118-091217	SC39163-04		09/19/17 14:05
TF1-DUP-03-091217	SC39163-05		09/19/17 14:05
TF1-MW-1004-091217	SC39163-06		09/19/17 14:05
Reference	1715818-SRM2		09/19/17 14:05
Blank	1715818-BLK2		09/19/17 14:05

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

1715818-BLK1

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1715818-BLK1	File ID:	
		Preparation:	General Preparation	Initial/Final:	300 ml / 300 ml
Analyzed:	09/19/17 14:05	Instrument:	DO Meter		
Batch:	1715818	Sequence:	S708314	Calibration:	UNASSIGNED

CAS NO.	Analyte	Result CONC. (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
	Biochemical Oxygen Demand (5-day)	2.97	U	1	2.74	2.97	9.12

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

1715818-BLK2

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1715818-BLK2	File ID:	
		Preparation:	General Preparation	Initial/Final:	300 ml / 300 ml
Analyzed:	09/19/17 14:05	Instrument:	DO Meter		
Batch:	1715818	Sequence:	S708314	Calibration:	UNASSIGNED

CAS NO.	Analyte	Result CONC. (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
	Biochemical Oxygen Demand (5-day)	2.97	U	1	2.74	2.97	9.12

FORM III - BLANKS
SM18-22 5210B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: DO Meter
Calibration: UNASSIGNED
Sequence: S708314
Matrix: Aqueous

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
1715818-BLK1	Biochemical Oxygen Demand (5-day	BRL	3.00	mg/l	U	SM18-22 5210B
1715818-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:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	DO Meter
Batch:	1715818	Laboratory ID:	1715818-BS1
Preparation:	General Preparation	Initial/Final:	300 ml / 300 ml
Analyzed:	09/19/17 14:05	Spike ID:	17H0348
		File ID:	

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Biochemical Oxygen Demand (5-day)	198	155	78 *	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: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous
Spike ID: 17I0355
Batch: 1715818
Laboratory ID: 1715818-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)	45.6	42.0	92	67 - 133

* Values outside of QC limits

FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

SM18-22 5210B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous
Spike ID: 17I0355
Batch: 1715818
Laboratory ID: 1715818-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)	45.6	41.0	90	67 - 133

* Values outside of QC limits

PREPARATION BENCH SHEET

1715818

Sequence S708314

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
1715818-BLK1	Blank		QC	300	300					
1715818-BLK2	Blank		QC	300	300					
1715818-BS1	LCS		QC	300	300	17H0348				
1715818-DUP1	Duplicate		QC	300	300		SC39152-01			
1715818-MS1	Matrix Spike		QC	300	300	17H0348	SC39152-01			
1715818-MSD1	Matrix Spike Dup		QC	300	300	17H0348	SC39152-01			
1715818-SRM1	Reference		QC	300	300	17I0355				
1715818-SRM2	Reference		QC	300	300	17I0355				
SC39152-01	7520-I	A	wc-BOD/5-day	300	300			22-Sep-17 16:00		
SC39152-03	7522-E	A	wc-BOD/5-day	300	300			22-Sep-17 16:00		
SC39161-01	Grinding WW	C	wc-BOD/5-day	300	300			18-Sep-17 15:00		
SC39161-02	Grinding WW Comp	C	wc-BOD/5-day	300	300			18-Sep-17 15:00		
SC39162-01	Cutting Water	C	wc-BOD/5-day	300	300			22-Sep-17 16:00		
SC39163-01	TF1-GT-130-091217	N	wc-BOD/5-day	300	300			22-Sep-17 16:00		**DoD Level IV**
SC39163-02	TF1-GT-115-091217	N	wc-BOD/5-day	300	300			22-Sep-17 16:00		**DoD Level IV**
SC39163-03	TF1-GT-111-091217	O	wc-BOD/5-day	300	300			22-Sep-17 16:00		**DoD Level IV**
SC39163-04	TF1-GT-118-091217	N	wc-BOD/5-day	300	300			22-Sep-17 16:00		**DoD Level IV**
SC39163-05	TF1-DUP-03-091217	O	wc-BOD/5-day	300	300			22-Sep-17 16:00		**DoD Level IV**
SC39163-06	TF1-MW-1004-091217	O	wc-BOD/5-day	300	300			22-Sep-17 16:00		**DoD Level IV**
SC39191-01	EFF-1	A	wc-BOD/5-day	300	300			25-Sep-17 16:00		
SC39192-01	BOD	A	wc-BOD/5-day	300	300			25-Sep-17 16:00		
SC39199-01	MS091417	A	wc-BOD/5-day	300	300			25-Sep-17 16:00		

TW 09/19/17
Analyst Reviewed Date

BD 9/19/17
Manager Reviewed Date

Extracts Received By Date

Printed: 9/19/2017 2:12:47PM

PREPARATION BENCH SHEET

1715818

Sequence S708314

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
SC39199-02	PC091417	A	wc-BOD/5-day	300	300			25-Sep-17 16:00		
SC39200-01	Effluent	A	wc-BOD/5-day	300	300			25-Sep-17 16:00		

9/14/17

Reagents Used:

JN 09/19/17
Analyst Reviewed Date

BD 9/19/17
Manager Reviewed Date

Extracts Received By Date

Printed: 9/19/2017 2:12:47PM

CROSS REFERENCE TABLE

SM2320B (97, 11)

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15		

Client Sample ID:	Lab Sample ID:
TF1-GT-130-091217	SC39163-01
TF1-GT-115-091217	SC39163-02
TF1-GT-111-091217	SC39163-03
TF1-GT-118-091217	SC39163-04
TF1-DUP-03-091217	SC39163-05
TF1-MW-1004-091217	SC39163-06

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SM2320B (97, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
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	1715985-BLK1	TOOL Alk 2017-09-20 1521-00	09/20/17 15:21
LCS	1715985-BS1	TOOL Alk 2017-09-20 1521-00	09/20/17 15:23
Reference	1715985-SRM1	TOOL Alk 2017-09-20 1521-00	09/20/17 15:28
Blank	1715985-BLK2	TOOL Alk 2017-09-20 1521-01	09/20/17 16:03
LCS	1715985-BS2	TOOL Alk 2017-09-20 1521-01	09/20/17 16:04
Blank	1715985-BLK3	TOOL Alk 2017-09-20 1521-02	09/20/17 17:08
LCS	1715985-BS3	TOOL Alk 2017-09-20 1521-02	09/20/17 17:09
Blank	1715985-BLK4	TOOL Alk 2017-09-20 1521-03	09/20/17 17:40
LCS	1715985-BS4	TOOL Alk 2017-09-20 1521-03	09/20/17 17:42

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

1715985-BLK1

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1715985-BLK1	File ID:	DTOOL Alk 2017-09-20 1521-00
		Preparation:	General Preparation	Initial/Final:	50 ml / 50 ml
Analyzed:	09/20/17 15:21	Instrument:	Titrator		
Batch:	1715985	Sequence:		Calibration:	

CAS NO.	Analyte	Result CONC. (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	2.30	J	1	1.05	3.00	3.49

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

1715985-BLK2

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1715985-BLK2	File ID:	DTOOL Alk 2017-09-20 1521-01
		Preparation:	General Preparation	Initial/Final:	50 ml / 50 ml
Analyzed:	09/20/17 16:03	Instrument:	Titrator		
Batch:	1715985	Sequence:		Calibration:	

CAS NO.	Analyte	Result CONC. (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	3.00	U	1	1.05	3.00	3.49

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

1715985-BLK3

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1715985-BLK3	File ID:	DTOOL Alk 2017-09-20 1521-02
		Preparation:	General Preparation	Initial/Final:	50 ml / 50 ml
Analyzed:	09/20/17 17:08	Instrument:	Titrator		
Batch:	1715985	Sequence:		Calibration:	

CAS NO.	Analyte	Result CONC. (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	3.00	U	1	1.05	3.00	3.49

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

1715985-BLK4

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1715985-BLK4	File ID:	DTOOL Alk 2017-09-20 1521-03
		Preparation:	General Preparation	Initial/Final:	50 ml / 50 ml
Analyzed:	09/20/17 17:40	Instrument:	Titrator		
Batch:	1715985	Sequence:		Calibration:	

CAS NO.	Analyte	Result CONC. (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	3.00	U	1	1.05	3.00	3.49

FORM III - BLANKS
SM2320B (97, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: Titrator
Calibration:
Sequence:
Matrix: Aqueous

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
1715985-BLK1	Total Alkalinity	2.30	4.00	mg/l CaCO3	J	SM2320B (97, 11)
1715985-BLK2	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)
1715985-BLK3	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)
1715985-BLK4	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SM2320B (97, 11)

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	Titrator
Batch:	1715985	Laboratory ID:	1715985-BS1
Preparation:	General Preparation	Initial/Final:	50 ml / 50 ml
Analyzed:	09/20/17 15:23	Spike ID:	17H0352
		File ID:	DTOOL Alk 2017-09-20 1521-002

COMPOUND	SPIKE ADDED (mg/l CaCO3)	LCS CONCENTRATION (mg/l CaCO3)	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:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	Titrator
Batch:	1715985	Laboratory ID:	1715985-BS2
Preparation:	General Preparation	Initial/Final:	50 ml / 50 ml
Analyzed:	09/20/17 16:04	Spike ID:	17H0352
		File ID:	DTOOL Alk 2017-09-20 1521-012

COMPOUND	SPIKE ADDED (mg/l CaCO3)	LCS CONCENTRATION (mg/l CaCO3)	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	51.7	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:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	Titrator
Batch:	1715985	Laboratory ID:	1715985-BS3
Preparation:	General Preparation	Initial/Final:	50 ml / 50 ml
Analyzed:	09/20/17 17:09	Spike ID:	17H0352
		File ID:	DTOOL Alk 2017-09-20 1521-024

COMPOUND	SPIKE ADDED (mg/l CaCO3)	LCS CONCENTRATION (mg/l CaCO3)	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	51.6	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:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39163
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	Titrator
Batch:	1715985	Laboratory ID:	1715985-BS4
Preparation:	General Preparation	Initial/Final:	50 ml / 50 ml
Analyzed:	09/20/17 17:42	Spike ID:	17H0352
		File ID:	DTOOL Alk 2017-09-20 1521-032

COMPOUND	SPIKE ADDED (mg/l CaCO3)	LCS CONCENTRATION (mg/l CaCO3)	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 VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

SM2320B (97, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39163
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous
Spike ID: 17H0359
Batch: 1715985
Laboratory ID: 1715985-SRM1
Preparation: General Preparation
Initial/Final: 15 ml / 50 ml

ANALYTE	TRUE (mg/l CaCO3)	FOUND (mg/l CaCO3)	SRM % REC.	QC LIMITS REC.
Total Alkalinity	124	125	101	92 - 111

* Values outside of QC limits

PREPARATION BENCH SHEET

1715985

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
1715985-BLK1	Blank		QC	50	50					
1715985-BLK2	Blank		QC	50	50					
1715985-BLK3	Blank		QC	50	50					
1715985-BLK4	Blank		QC	50	50					
1715985-BS1	LCS		QC	50	50	17H0352				
1715985-BS2	LCS		QC	50	50	17H0352				
1715985-BS3	LCS		QC	50	50	17H0352				
1715985-BS4	LCS		QC	50	50	17H0352				
1715985-DUP1	Duplicate		QC	100	50		SC39221-06			
1715985-MS1	Matrix Spike		QC	100	50	17H0352	SC39221-06			
1715985-MSD1	Matrix Spike Dup		QC	100	50	17H0352	SC39221-06			
1715985-SRM1	Reference		QC	15	50	17H0359				
SC39153-07	MW-22	F	wc-Alkalinity S	20	50			22-Sep-17 16:00		
SC39153-08	MW-11	F	wc-Alkalinity S	20	50			22-Sep-17 16:00		
SC39163-01	TF1-GT-130-091217	N	wc-Alkalinity S	100	50			22-Sep-17 16:00		**DoD Level IV**
SC39163-02	TF1-GT-115-091217	O	wc-Alkalinity S	50	50			22-Sep-17 16:00		**DoD Level IV**
SC39163-03	TF1-GT-111-091217	N	wc-Alkalinity S	100	50			22-Sep-17 16:00		**DoD Level IV**
SC39163-04	TF1-GT-118-091217	O	wc-Alkalinity S	50	50			22-Sep-17 16:00		**DoD Level IV**
SC39163-05	TF1-DUP-03-091217	O	wc-Alkalinity S	50	50			22-Sep-17 16:00		**DoD Level IV**
SC39163-06	TF1-MW-1004-091217	N	wc-Alkalinity S	100	50			22-Sep-17 16:00		**DoD Level IV**
SC39215-01	BED-GW-MW12R-09142017	H	wc-Alkalinity S	100	50			25-Sep-17 16:00		**DoD Level IV**
SC39215-03	BED-GW-MW21R-09142017	H	wc-Alkalinity S	100	50			25-Sep-17 16:00		**DoD Level IV**

BD 10/5/17

Analyst Reviewed Date

10/5/17

Manager Reviewed Date

Extracts Received By Date

Printed: 10/5/2017 4:23:30PM

PREPARATION BENCH SHEET

1715985

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
SC39215-07	BED-GW-DUP04-09142017	H	wc-Alkalinity S	100	50			25-Sep-17 16:00		**DoD Level IV**
SC39221-01	TF1-GZ-106-091317	D	wc-Alkalinity S	100	50			25-Sep-17 16:00		**DoD Level IV**
SC39221-02	TF1-GT-117-091317	N	wc-Alkalinity S	100	50			25-Sep-17 16:00		**DoD Level IV**
SC39221-03	TF1-GT-108-091317	N	wc-Alkalinity S	100	50			25-Sep-17 16:00		**DoD Level IV**
SC39221-04	TF1-MW-1008-091317	T	wc-Alkalinity S	100	50			25-Sep-17 16:00		**DoD Level IV**
SC39221-05	TF1-DUP-04-091317	N	wc-Alkalinity S	100	50			25-Sep-17 16:00		**DoD Level IV**
SC39221-06	TF1-MW-7-091317	AX	wc-Alkalinity S	100	50			25-Sep-17 16:00		**Run MS/MSD/DoD Level IV**
SC39253-01	B-201D	E	wc-Alkalinity S	100	50			26-Sep-17 16:00		
SC39253-02	B-1A	E	wc-Alkalinity S	100	50			26-Sep-17 16:00		
SC39253-03	B-3A	E	wc-Alkalinity S	50	50			26-Sep-17 16:00		

9/18/17

Reagents Used:

BD 10/5/17

Analyst Reviewed Date

Manager Reviewed 10.05.17 Date

Extracts Received By Date

Printed: 10/5/2017 4:23:30PM

Project Name: SC39163
LL Group #: 1857425

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): 9240350-9240356 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

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SAMPLE INFORMATION

Client Sample Description	Collection Information	ELLE#
SC39163-01 Groundwater	09/12/2017 12:15	9240350
SC39163-02 Groundwater	09/12/2017 10:30	9240351
SC39163-03 Groundwater	09/12/2017 14:15	9240352
SC39163-04 Groundwater	09/12/2017 10:20	9240353
SC39163-05 Groundwater	09/12/2017 12:00	9240354
SC39163-06 Groundwater	09/12/2017 15:10	9240355
SC39163-07 Groundwater	09/12/2017 08:00	9240356

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mg**	milligram(s)
C	degrees Celsius	**mL**	milliliter(s)
cfu	colony forming units	**MPN**	Most Probable Number
CP Units	cobalt-chloroplatinate units	**N.D.**	non-detect
F	degrees Fahrenheit	**ng**	nanogram(s)
g	gram(s)	**NTU**	nephelometric turbidity units
IU	International Units	**pg/L**	picogram/liter
kg	kilogram(s)	**RL**	Reporting Limit
L	liter(s)	**TNTC**	Too Numerous To Count
lb.	pound(s)	**µg**	microgram(s)
m3	cubic meter(s)	**µL**	microliter(s)
meq	milliequivalents	**umhos/cm**	micromhos/cm

<	less than
>	greater than
ppm	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.
ppb	parts per billion
Dry weight basis	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.

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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 >= 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.

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Case Narrative/Conformance Summary

CLIENT: Eurofins Spectrum Analytical
SDG: SAI22

ICP Metals

Fraction: Metals in Liquid

Sample #	Client ID	Matrix Liquid	Solid	Comments
9240350	SC39163-01	X		
9240351	SC39163-02	X		
9240352	SC39163-03	X		
9240353	SC39163-04	X		
9240354	SC39163-05	X		
9240355	SC39163-06	X		
9240356	SC39163-07	X		

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.

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Case Narrative/Conformance Summary

CLIENT: Eurofins Spectrum Analytical
SDG: SAI22

ICP Metals

Fraction: Metals in Liquid

SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.

Refer to analysis run log for samples requiring dilutions.

The instrument detection limits (IDLs) are used for determining the U flags on the initial and continuing calibration blanks. The highest IDL is selected when multiple instruments are used for an analysis. The method detection limits (MDLs) are used for determining all other U flags.

Abbreviation Key

BKG – Background	AF - Cold Vapor Atomic Fluorescence
DUP – Duplicate	U - Below MDL
MS - Matrix Spike	B - Below LOQ
MSD - Matrix Spike Dup	N - Matrix Spike out of specifications
B – Blank	* - Duplicate out of specifications
Q - Laboratory Control Sample	E - Matrix Effects exist as proven by Serial Dilution or Spiked Dilution
Y - Laboratory Control Sample Duplicate	A - Post Digestion Spike
P - ICP Atomic Emission Spectrometer	L - Serial Dilution
MS - ICP Mass Spectrometry	R - Internal Standard Relative Intensity OOS
CV - Cold Vapor	NR - Not Required

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QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: SAI22

Method: MS
Instrument ID: 19204
Run Name: 1728207E05

Run Start Date: 10/09/2017
Run End Date: 10/09/2017

Lab Sample ID	D/F	Time	Analytes																													
			SB	AS	BA	BE	CD	CR	CO	CU	PB	MN	MO	NI	SE	AG	TL	V	ZN													
S0	1.00	17:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X													
S	1.00	17:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X													
CCS	1.00	17:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X													
CCS	1.00	17:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X													
ICV	1.00	17:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X													
ICB	1.00	17:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X													
LLC	1.00	17:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X													
ICSA	1.00	17:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X													
ICSAB	1.00	17:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X													
ZZZZZZ	1.00	17:43																														
CCV	1.00	17:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X													
CCB	1.00	17:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X													
P27763AB	1.00	17:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X													
P27763AQ	1.00	17:55	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X													
*40335BKG	1.00	17:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X													
ZZZZZZ	1.00	18:01																														
ZZZZZZ	1.00	18:04																														
ZZZZZZ	1.00	18:07																														
ZZZZZZ	1.00	18:10																														
*40335L	5.00	18:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X													
ZZZZZZ	1.00	18:17																														
9240350	1.00	18:20	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X													
CCV	1.00	18:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X													
CCB	1.00	18:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X													
9240351	1.00	18:29	X	X		X	X	X	X	X	X		X	X	X	X	X	X	X													
9240352	1.00	18:32	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X													
9240353	1.00	18:35	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X													
9240354	1.00	18:38	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X													
9240355	1.00	18:41	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X													
9240356	1.00	18:45	X	X		X		X	X	X	X		X	X	X	X	X	X	X													
ZZZZZZ	1.00	18:48																														
ZZZZZZ	1.00	18:51																														
ZZZZZZ	1.00	18:54																														
ZZZZZZ	1.00	18:57																														
CCV	1.00	19:00	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X													
CCB	1.00	19:03	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X													

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
- A = Post Digest Spike
- L = Serial Dilution
- B = Blank
- Q = Laboratory Control Sample
- Y = Laboratory Control Sample Duplicate

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QUALITY ASSURANCE SUMMARY
FORM 14
ANALYSIS RUN LOG
SDG No.: SAI22

Method: MS
Instrument ID: 19204
Run Name: 1728504E05

Run Start Date: 10/12/2017
Run End Date: 10/12/2017

Lab Sample ID	D/F	Time	Analytes																													
			SB	AS	BA	BE	CD	CR	CO	CU	PB	MN	MO	NI	SE	AG	TL	V	ZN													
S0	1.00	05:53			X		X					X																				
S	1.00	05:55			X		X					X																				
CCS	1.00	05:57			X		X					X																				
CCS	1.00	05:59			X		X					X																				
ICV	1.00	06:00			X		X					X																				
ICB	1.00	06:02			X		X					X																				
LLC	1.00	06:04			X		X					X																				
ICSA	1.00	06:06			X		X					X																				
ICSAB	1.00	06:08			X		X					X																				
ZZZZZZ	1.00	06:10																														
CCV	1.00	06:11			X		X					X																				
CCB	1.00	06:13			X		X					X																				
P27763AQ	1.00	06:15					X					X																				
ZZZZZZ	1.00	06:17																														
ZZZZZZ	1.00	06:19																														
ZZZZZZ	1.00	06:21																														
ZZZZZZ	5.00	06:22																														
9240350	1.00	06:24			X		X																									
9240351	5.00	06:26			X							X																				
9240352	1.00	06:28			X																											
9240353	1.00	06:30			X																											
9240354	1.00	06:32			X																											
CCV	1.00	06:34			X		X					X																				
CCB	1.00	06:35			X		X					X																				
9240355	1.00	06:37			X		X																									
9240356	1.00	06:39			X		X					X																				
ZZZZZZ	1.00	06:41																														
ZZZZZZ	5.00	06:43																														
ZZZZZZ	1.00	06:45																														
ZZZZZZ	1.00	06:46																														
ZZZZZZ	1.00	06:48																														
ZZZZZZ	1.00	06:50																														
ZZZZZZ	1.00	06:52																														
ZZZZZZ	1.00	06:54																														
CCV	1.00	06:56			X		X					X																				
CCB	1.00	06:57			X		X					X																				

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
- A = Post Digest Spike
- L = Serial Dilution
- B = Blank
- Q = Laboratory Control Sample
- Y = Laboratory Control Sample Duplicate

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QUALITY ASSURANCE SUMMARY
FORM 16
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
SDG No.: SAI22

Instrument ID: 19204 Start Date: 10/09/2017
Run Name: 1728207E05 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														
9240350	18:20	100		100		101		99		101					
CCV	18:23	98		98		102		101		101					
CCB	18:26	94		97		98		98		99					
9240351	18:29	97		99		99		93		98					
9240352	18:32	102		100		100		100		101					
9240353	18:35	99		99		100		98		101					
9240354	18:38	98		99		100		97		102					
9240355	18:41	97		101		100		99		99					
9240356	18:45	105		99		102		99		102					
ZZZZZZ	18:48														

LEGEND:
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
FLAG:
R = Internal Standard Relative Intensity OOS

INTERNAL STANDARD ELEMENTS:
BE = Beryllium LI = Lithium
BI = Bismuth SC = Scandium
GE = Germanium TB = Terbium
HO = Holmium Y = Yttrium
IN = Indium

QUALITY ASSURANCE SUMMARY
FORM 16
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
SDG No.: SAI22

Instrument ID: 19204 Start Date: 10/09/2017
Run Name: 1728207E05 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					

LEGEND:
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
FLAG:
R = Internal Standard Relative Intensity OOS

INTERNAL STANDARD ELEMENTS:
BE = Beryllium LI = Lithium
BI = Bismuth SC = Scandium
GE = Germanium TB = Terbium
HO = Holmium Y = Yttrium
IN = Indium

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QUALITY ASSURANCE SUMMARY
FORM 16
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
SDG No.: SAI22

Instrument ID: 19204 Start Date: 10/12/2017
Run Name: 1728504E05 End Date: 10/12/2017

Standard	Elements Applies to	Standard	Elements Applies to
IN-1-115	BA,CD	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	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														
9240350	06:24			100											
9240351	06:26	101		100											
9240352	06:28			101											
9240353	06:30			98											
9240354	06:32			102											
CCV	06:34	102		103											
CCB	06:35	101		102											
9240355	06:37			102											
9240356	06:39	104		102											
ZZZZZZ	06:41														
ZZZZZZ	06:43														
ZZZZZZ	06:45														
ZZZZZZ	06:46														
ZZZZZZ	06:48														

LEGEND:
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
FLAG:
R = Internal Standard Relative Intensity OOS

INTERNAL STANDARD ELEMENTS:
BE = Beryllium LI = Lithium
BI = Bismuth SC = Scandium
GE = Germanium TB = Terbium
HO = Holmium Y = Yttrium
IN = Indium

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QUALITY ASSURANCE SUMMARY
FORM 16
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
SDG No.: SAI22

Instrument ID: 19204 Start Date: 10/12/2017
Run Name: 1728504E05 End Date: 10/12/2017

Standard	Elements Applies to	Standard	Elements Applies to
IN-1-115	BA,CD	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	Element	Q
ZZZZZZ	06:50														
ZZZZZZ	06:52														
ZZZZZZ	06:54														
CCV	06:56	104		101											
CCB	06:57	101		103											

LEGEND:
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
FLAG:
R = Internal Standard Relative Intensity OOS

INTERNAL STANDARD ELEMENTS:
BE = Beryllium LI = Lithium
BI = Bismuth SC = Scandium
GE = Germanium TB = Terbium
HO = Holmium Y = Yttrium
IN = Indium

Method: MS
Batch Number: 172771063901

Lab Sample ID	Date	Initial Volume(ml)	Final Volume(ml)
9240350	10/05/2017	50.00	50
9240351	10/05/2017	50.00	50
9240352	10/05/2017	50.00	50
9240353	10/05/2017	50.00	50
9240354	10/05/2017	50.00	50
9240355	10/05/2017	50.00	50
9240356	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

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QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: SAI22

Method: MS
Run Name: 1728207E05
Calibration Date(s): 10/09/2017
Preparation Blank Matrix: WATER

		Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank (UG/L)			
Analyte	Mass		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:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below IDL/MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	

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QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: SAI22

Method: MS
Run Name: 1728504E05
Calibration Date(s): 10/12/2017

		Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank (UG/L)			
Analyte	Mass		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	0.15	U				
Chromium													
Cobalt													
Copper													
Lead													
Manganese	55	0.90	U	0.90	U	0.90	U	0.90	U				
Molybdenum													
Nickel													
Selenium													
Silver													
Thallium													
Vanadium													
Zinc													

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below IDL/MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	

QUALITY ASSURANCE SUMMARY
FORM 4B
ICP-MS INTERFERENCE CHECK SAMPLE
SDG No.: SAI22

Instrument ID: 19204
Run Name: 1728207E05
Concentration Units: ug/L

Analyte	Mass	True Sol. A	True Sol. AB	Found Sol. A	%R	Found 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%

QUALITY ASSURANCE SUMMARY
FORM 4B
ICP-MS INTERFERENCE CHECK SAMPLE
SDG No.: SAI22

Instrument ID: 19204
Run Name: 1728504E05
Concentration Units: ug/L

Analyte	Mass	True Sol. A	True Sol. AB	Found Sol. A	%R	Found 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							
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%

Quality Control Summary

Client Name: Eurofins Spectrum Analytical
Reported: 10/12/2017 16:20

Group Number: 1857425

Matrix QC may not be reported if insufficient sample or 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.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result mg/l	DL** mg/l	LOD mg/l	LOQ mg/l
Batch number: 172771063901A	Sample number(s): 9240350-9240356			
Antimony	0.0010 U	0.00045	0.0010	0.0020
Arsenic	0.0020 U	0.00072	0.0020	0.0040
Beryllium	0.00025 U	0.000071	0.00025	0.0010
Cadmium	0.00050 U	0.00015	0.00050	0.0010
Chromium	0.0020 U	0.00087	0.0020	0.0040
Cobalt	0.00050 U	0.00016	0.00050	0.0010
Copper	0.0010 U	0.00054	0.0010	0.0040
Lead	0.00025 U	0.00011	0.00025	0.0020
Manganese	0.0020 U	0.00090	0.0020	0.0040
Nickel	0.0020 U	0.0010	0.0020	0.0040
Silver	0.00025 U	0.00015	0.00025	0.0010
Thallium	0.00025 U	0.00012	0.00025	0.0010
Vanadium	0.00050 U	0.00021	0.00050	0.0010
Zinc	0.0075 U	0.0039	0.0075	0.0300
Batch number: 172771063901B	Sample number(s): 9240350-9240356			
Selenium	0.0010 U	0.00050	0.0010	0.0040
Batch number: 172771063901C	Sample number(s): 9240350-9240356			
Molybdenum	0.00050 U	0.00025	0.00050	0.0010
Batch number: 172771063901D	Sample number(s): 9240350-9240356			
Barium	0.0020 U	0.00072	0.0020	0.0040

LCS/LCSD

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 172771063901A	Sample number(s): 9240350-9240356								
Antimony	0.00600	0.00610			102		85-117		
Arsenic	0.0100	0.00939			94		84-116		
Beryllium	0.00400	0.00419			105		83-121		
Cadmium	0.00500	0.00503			101		87-115		
Chromium	0.0500	0.0498			100		85-116		
Cobalt	0.250	0.257			103		86-115		
Copper	0.0500	0.0515			103		85-118		
Lead	0.0150	0.0158			106		88-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
(3) The surrogate spike amount was less than the LOD.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins Spectrum Analytical
Reported: 10/12/2017 16:20

Group Number: 1857425

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Manganese	0.0500	0.0515			103		87-115		
Nickel	0.0500	0.0530			106		85-117		
Silver	0.0500	0.0527			105		85-116		
Thallium	0.00200	0.00215			108		82-116		
Vanadium	0.0500	0.0510			102		86-115		
Zinc	0.500	0.531			106		83-119		
Batch number: 172771063901B	Sample number(s): 9240350-9240356								
Selenium	0.0100	0.0104			104		80-120		
Batch number: 172771063901C	Sample number(s): 9240350-9240356								
Molybdenum	0.0500	0.0513			103		83-115		
Batch number: 172771063901D	Sample number(s): 9240350-9240356								
Barium	0.0500	0.0520			104		86-114		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 172771063901A	Sample number(s): 9240350-9240356 UNSPK: P240335									
Antimony	0.0010 U	0.00600	0.00638	0.00600	0.00724	106	121*	85-117	13	20
Arsenic	0.00696	0.0100	0.0185	0.0100	0.0172	115	103	84-116	7	20
Beryllium	0.00025 U	0.00400	0.00419	0.00400	0.00422	105	105	83-121	1	20
Cadmium	0.00050 U	0.00500	0.00482	0.00500	0.00492	96	98	87-115	2	20
Chromium	0.00242	0.0500	0.0528	0.0500	0.0541	101	103	85-116	3	20
Cobalt	0.0382	0.250	0.301	0.250	0.296	105	103	86-115	2	20
Copper	0.0010 U	0.0500	0.0541	0.0500	0.0541	108	108	85-118	0	20
Lead	0.00025 U	0.0150	0.0158	0.0150	0.0159	105	106	88-115	1	20
Manganese	2.45	0.0500	2.43	0.0500	2.39	-32 (2)	-117 (2)	87-115	2	20
Nickel	0.0144	0.0500	0.0693	0.0500	0.0665	110	104	85-117	4	20
Silver	0.00025 U	0.0500	0.0537	0.0500	0.0534	107	107	85-116	1	20
Thallium	0.00025 U	0.00200	0.00205	0.00200	0.00198	103	99	82-116	4	20
Vanadium	0.00050 U	0.0500	0.0538	0.0500	0.0545	108	109	86-115	1	20
Zinc	0.0105	0.500	0.552	0.500	0.530	108	104	83-119	4	20
Batch number: 172771063901B	Sample number(s): 9240350-9240356 UNSPK: P240335									
Selenium	0.0010 U	0.0100	0.0104	0.0100	0.0107	104	107	80-120	3	20
Batch number: 172771063901C	Sample number(s): 9240350-9240356 UNSPK: P240335									
Molybdenum	0.000796	0.0500	0.0538	0.0500	0.0544	106	107	83-115	1	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
(3) The surrogate spike amount was less than the LOD.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins Spectrum Analytical
Reported: 10/12/2017 16:20

Group Number: 1857425

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 172771063901D	Sample number(s): 9240350-9240356 UNSPK: P240335									
Barium	0.0826	0.0500	0.128	0.0500	0.137	90	108	86-114	7	20

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/l	DUP Conc mg/l	DUP RPD	DUP RPD Max
Batch number: 172771063901A	Sample number(s): 9240350-9240356 BKG: P240335			
Antimony	0.0010 U	0.0010 U	0 (1)	20
Arsenic	0.00696	0.00775	11 (1)	20
Beryllium	0.00025 U	0.00025 U	0 (1)	20
Cadmium	0.00050 U	0.00050 U	0 (1)	20
Chromium	0.00242	0.000895	92* (1)	20
Cobalt	0.0382	0.0369	3	20
Copper	0.0010 U	0.0010 U	0 (1)	20
Lead	0.00025 U	0.00025 U	0 (1)	20
Manganese	2.45	2.33	5	20
Nickel	0.0144	0.0144	0 (1)	20
Silver	0.00025 U	0.00025 U	0 (1)	20
Thallium	0.00025 U	0.00025 U	0 (1)	20
Vanadium	0.00050 U	0.00050 U	0 (1)	20
Zinc	0.0105	0.0108	3 (1)	20
Batch number: 172771063901B	Sample number(s): 9240350-9240356 BKG: P240335			
Selenium	0.0010 U	0.0010 U	0 (1)	20
Batch number: 172771063901C	Sample number(s): 9240350-9240356 BKG: P240335			
Molybdenum	0.000796	0.000725	9 (1)	20
Batch number: 172771063901D	Sample number(s): 9240350-9240356 BKG: P240335			
Barium	0.0826	0.0759	9	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
(3) The surrogate spike amount was less than the LOD.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

LLENS Worksheet for 0639 ICP/MS SW846 Water

Batch# 17 277 10639 01

Start Time: 10/5/17 6:47 **End Time:** 10/5/17 11:04 **Hot Block:** 12

Pipette ID: JU06758
Reflux Cap Lot#: 17051107235MK

Spike/Reagent	Lot#	Volume Added(mL)
HNO3	175151	3.00
ICP/MS Spike	1720507#6	0.50
LCS	1720507#6	0.50

Method Ref:

	SampleID	Date Due	ST	P	H	Balance	PH<2	BC	Vessel Lot#	Location ID	Comments
1)	PBW	.				10685			1707186		Batch alone
2)	LCSW	.				10685			1707186		
3)	**9240335U**	10/12/17 00:00	WW	N8		10685		008A	1707186	E1495/	
4)	**9240336R**	10/12/17 00:00	WW	N8		10685		008A	1707186	E1498/	
5)	**9240337M**	10/12/17 00:00	WW	N8		10685		008A	1707186	E1498/	
6)	**9240338D**	10/12/17 00:00	WW	N8		10685		008A	1707186		
7)	9240339	10/12/17 00:00	WW	N8		10685		008A	1707186	E1498/	
8)	9240350	10/12/17 00:00	WW	N8		10685		008A	1707186	E1498/	
9)	9240351	10/12/17 00:00	WW	N8		10685		008A	1707186	E1493/	
10)	9240352	10/12/17 00:00	WW	N8		10685		008A	1707186	E1495/	
11)	9240353	10/12/17 00:00	WW	N8		10685		008A	1707186	E1495/	
12)	9240354	10/12/17 00:00	WW	N8		10685		008A	1707186	E1498/	
13)	9240355	10/12/17 00:00	WW	N8		10685		008A	1707186	E1493/	
14)	9240356	10/12/17 00:00	WW	N8		10685		008A	1707186	E1495/	
15)	9240357	10/12/17 00:00	WW	N8		10685		008A	1707186	C0414/	
16)	9240361	10/12/17 00:00	WW	N8		10685		008A	1707186	E1498/	
17)	9240362	10/12/17 00:00	WW	N8		10685		008A	1707186	E1495/	
18)	9240363	10/12/17 00:00	WW	N8		10685		008A	1707186	E1478/	
19)	9240365	10/12/17 00:00	WW	N8		10685		008A	1707186	E1493/	
20)	9240366	10/12/17 00:00	WW	N8		10685		008A	1707186	C0414/	
21)	9240367	10/12/17 00:00	WW	N8		10685		008A	1707186	E1493/	
22)	9240368	10/12/17 00:00	WW	N8		10685		008A	1707186	E1489/	
23)	9240369	10/12/17 00:00	WW	N8		10685		008A	1707186	E1493/	
24)	9240370	10/12/17 00:00	WW	N8		10685		008A	1707186	E1493/	

Prep Employee:1184 D/I _____

10/5/2017

v 1.1.0

Batch# 17 277 1063 901

LLENS Batch Chronology and Change Log - ICP/MS SW846 Water

	Operation	Instrument	Operation Date	ANALYST
1)	Batch Creation		10/4/17 0:00	1184
2)	Sample Vol		10/5/17 4:07	277
3)	Final Vol	10685	10/5/17 4:07	277
4)	Trial		10/5/17 4:07	277
5)	Upload Prep	US19PCC0669	10/5/17 11:04	1184

Sample ID	Analysis	D	Operation	Measurement	Original Entry				Data Changed		
					Date/Time	Data	Units	Analyst	Date/Time	Analyst	Reason

Analysis: 0639 ICP/MS SW846 Water

Batch# 17 277 1063 901

Sample ID	Due Date	P	EPA#	SDG#	Initial Volume	Final Volume	Trial
PBW					50.0000	50.0000	1
LCSW					1.0000	1.0000	1
9240335U	10/12/17	N8	26601	SAI20-01BKG	50.0000	50.0000	1
9240336R	10/12/17	N8	26601	SAI20-01MS	50.0000	50.0000	1
9240337M	10/12/17	N8	26601	SAI20-01MSD	50.0000	50.0000	1
9240338D	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

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Sample Reference List for SDG Number THO40
with a Data Package Type of I-DOD

30891 - Eurofins Spectrum Analytical

Project: WE15 Tank Farm 1 NAVSTA Newport

Lab Sample Number	Client Sample ID	Collection Date	Date Received
9210929	SC39163-01	09/12/2017 12:15	09/15/2017 09:55
9210930	SC39163-02	09/12/2017 10:30	09/15/2017 09:55
9210931	SC39163-03	09/12/2017 14:15	09/15/2017 09:55
9210932	SC39163-04	09/12/2017 10:20	09/15/2017 09:55
9210933	SC39163-05	09/12/2017 12:00	09/15/2017 09:55
9210934	SC39163-06	09/12/2017 15:10	09/15/2017 09:55
9210935	SC39163-07	09/12/2017 08:00	09/15/2017 09:55
9210936	SC39163-08	09/12/2017 12:15	09/15/2017 09:55

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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

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

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.

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SAMPLE INFORMATION

Client Sample Description	Collection Information	ELLE#
SC39163-01 Grab Water	09/12/2017 12:15	9210929
SC39163-02 Grab Water	09/12/2017 10:30	9210930
SC39163-03 Grab Water	09/12/2017 14:15	9210931
SC39163-04 Grab Water	09/12/2017 10:20	9210932
SC39163-05 Grab Water	09/12/2017 12:00	9210933
SC39163-06 Grab Water	09/12/2017 15:10	9210934
SC39163-07 Grab Water	09/12/2017 08:00	9210935
SC39163-08 Grab Water	09/12/2017 12:15	9210936

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Project Name: WE15 Tank Farm 1 NAVSTA Newport
LL Group #: 1851007

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: 9210929, 9210930, 9210931, 9210932, 9210933, 9210934, 9210936

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

Sample #s: 9210935

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

The recovery for labeled compound used as extraction standard 13C2-PFTeDA is outside of QC accpetance limits in the closing calibration verification standard(CCV) associated with this sample.

The recovery for labeled compound used as extraction standard 13C2-PFTeDA is outside of QC acceptance limits in the method blank associated with this sample.

The LCS/LCSD extraction standard(s) recovery is outside the QC acceptance limits as noted on the QC Summary. Since the recovery for the target analytes is compliant, the data is reported.

Batch #: 17262001 (Sample number(s): 9210929-9210934, 9210936 UNSPK: P208998)

The recovery(ies) for one or more surrogates were below the acceptance window for sample(s) 9210929, 9210930, 9210931, 9210932, 9210933, 9210934, 9210936, Blank, LCS, LCSD, MS

Batch #: 17269014 (Sample number(s): 9210935 UNSPK: 9210935)

The recovery(ies) for one or more surrogates exceeded the acceptance window indicating a positive bias for sample(s) Blank, LCS

The recovery(ies) for one or more surrogates were below the acceptance window for sample(s) 9210935, Blank, LCS, LCSD, MS

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Runlog for J093B
Instrument CP23--19879B

Data Directory Path is - \\USLAN-CHROMPERF\ACTIVE-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

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EPH/Miscellaneous GC
Runlog for J256B
Instrument CP23--19879B

Data Directory Path is - \\USLAN-CHROMPERFECT\ACTIVE-DATA\CP23\

Operator	File	LLI#	Client ID	Analysis Date	Batch	Dilution Factor
11173	J256B.0001	CONDITIONER		9/13/17 12:17	1725599999	1.00
11173	J256B.0002	CONDITIONER		9/13/17 17:51	1725599999	1.00
11173	J256B.0003	CONDITIONER		9/14/17 12:03	1725599999	1.00
11173	J256B.0004	CONDITIONER		9/14/17 12:25	1725599999	1.00
11173	J256B.0005	CONDITIONER		9/14/17 12:47	1725599999	1.00
11173	J256B.0006	CONDITIONER		9/14/17 13:08	1725599999	1.00
11173	J256B.0007	TPH_31732K	TPH_3CD	9/14/17 13:30	1725599999	1.00
11173	J256B.0008	CAPR31732B	CAPR3VN	9/14/17 13:52	1725599999	1.00
11173	J256B.0009	BLANKA 9/12/17	PBLK35254	9/14/17 14:14	172540035A	5.00
11173	J256B.0010	LCSA 9/12/17	LCS35254	9/14/17 14:35	172540035A	5.00
11173	J256B.0011	LCSD 9/12/17	LCSD0N	9/14/17 14:57	172540035A	5.00
11173	J256B.0012	9172642R	19723	9/14/17 15:19	172540035A	5.00
11173	J256B.0013	9194303DF25	AMP13	9/14/17 15:40	172500015A	25.00
11173	J256B.0014	TPH_31732K	TPH_3CE	9/14/17 16:02	1725599999	1.00
11173	J256B.0015	BLANKA 9/12/17	PBLK09255	9/14/17 16:23	172550009A	5.00
11173	J256B.0016	LCSA 9/12/17	LCS09255	9/14/17 16:45	172550009A	5.00
11173	J256B.0017	9198772DF5	SPN05	9/14/17 17:06	172550009A	25.00
11173	J256B.0018	9198775DF5	SPN08	9/14/17 17:28	172550009A	25.00
11173	J256B.0019	9198778DF5	SPN11	9/14/17 17:50	172550009A	25.00
11173	J256B.0020	9198779DF5	SPN12	9/14/17 18:11	172550009A	25.00
11173	J256B.0021	9198784DF5	SPN17	9/14/17 18:33	172550009A	25.00
11173	J256B.0022	9198768DF10	SPN01	9/14/17 18:54	172550009A	50.00
11173	J256B.0023	9198768DF10	SPN01DUP	9/14/17 19:16	172550009A	50.00
11173	J256B.0024	9198768MSDF10	SPN01MS	9/14/17 19:37	172550009A	50.00
11173	J256B.0025	9198769DF10	SPN02	9/14/17 19:59	172550009A	50.00
11173	J256B.0026	9198770DF10	SPN03	9/14/17 20:20	172550009A	50.00
11173	J256B.0027	TPH_31732K	TPH_3CF	9/14/17 20:42	1725599999	1.00
11173	J256B.0028	9198771DF10	SPN04	9/14/17 21:04	172550009A	50.00
11173	J256B.0029	9198773DF10	SPN06	9/14/17 21:25	172550009A	50.00
11173	J256B.0030	9198774DF10	SPN07	9/14/17 21:47	172550009A	50.00
11173	J256B.0031	9198776DF10	SPN09	9/14/17 22:08	172550009A	50.00
11173	J256B.0032	9198777DF10	SPN10	9/14/17 22:30	172550009A	50.00
11173	J256B.0033	9198780DF10	SPN13	9/14/17 22:52	172550009A	50.00
11173	J256B.0034	9198781DF10	SPN14	9/14/17 23:13	172550009A	50.00
11173	J256B.0035	9198782DF10	SPN15	9/14/17 23:35	172550009A	50.00
11173	J256B.0036	9198783DF10	SPN16	9/14/17 23:56	172550009A	50.00
11173	J256B.0037	9198785DF10	SPN18	9/15/17 0:18	172550009A	50.00
11173	J256B.0038	9198786DF10	SPN19	9/15/17 0:39	172550009A	50.00
11173	J256B.0039	9198787DF10	SPN20	9/15/17 1:01	172550009A	50.00
11173	J256B.0040	TPH_31732K	TPH_3CF	9/15/17 1:23	1725599999	1.00
11173	J256B.0041	BLANKA 9/11/17 S	PBLK09254	9/15/17 1:44	172540009A	1.00
11173	J256B.0042	LCSA 9/11/17 S	LCS09254	9/15/17 2:06	172540009A	1.00
11173	J256B.0043	LCSDA 9/11/17 S	LCSD09254	9/15/17 2:27	172540009A	1.00
11173	J256B.0044	9186310RS	8SF19	9/15/17 2:49	172540009A	1.00
11173	J256B.0045	TPH_31732K	TPH_3CJ	9/15/17 3:10	1725699999	1.00
11173	J256B.0046	1FUL31732H	1FUL3WH	9/15/17 8:31	1725699999	1.00

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EPH/Miscellaneous GC
Runlog for J263B
Instrument CP23--19879B

Data Directory Path is - \\USLAN-CHROMPERFECT\ACTIVE-DATA\CP23\

Operator	File	LLI#	Client ID	Analysis Date	Batch	Dilution Factor
11173	J263B.0001	CONDITIONER		9/20/17 11:35	1726299999	1.00
11173	J263B.0002	CONDITIONER		9/20/17 11:57	1726299999	1.00
11173	J263B.0003	CONDITIONER		9/20/17 12:18	1726299999	1.00
11173	J263B.0004	CONDITIONER		9/20/17 12:40	1726299999	1.00
11173	J263B.0005	TPH_31732K	TPH_3CX	9/20/17 13:02	1726299999	1.00
11173	J263B.0006	TPH_31732K	TPH_3DE	9/20/17 13:23	1726299999	1.00
11173	J263B.0007	1FUL31732G	1FUL3WP	9/20/17 13:45	1726299999	1.00
11173	J263B.0008	CAPR31732B	CAPR3VS	9/20/17 14:06	1726299999	1.00
11173	J263B.0009	BLANKA 9/18/17 S	PBLK22259	9/20/17 14:28	172590022A	5.00
11173	J263B.0010	LCSA 9/18/17 S	LCS22259	9/20/17 14:49	172590022A	5.00
11173	J263B.0011	9211276 S	MCM01	9/20/17 15:11	172590022A	5.00
11173	J263B.0012	9211276DUP S	MCM01DUP	9/20/17 15:32	172590022A	5.00
11173	J263B.0013	9211276MS S	MCM01MS	9/20/17 15:54	172590022A	5.00
11173	J263B.0014	9212720 S	DB2A2	9/20/17 16:15	172590022A	5.00
11173	J263B.0015	TPH_31732K	TPH_3CY	9/20/17 16:37	1726299999	1.00
11173	J263B.0016	1FUL31732G	1FUL3WQ	9/20/17 16:59	1726299999	1.00
11173	J263B.0017	9212104 RI	44408	9/20/17 17:20	172590018A	5.00
11173	J263B.0018	9212106 RI	44410	9/20/17 17:42	172590018A	5.00
11173	J263B.0019	9212103 RI	44407	9/20/17 18:03	172590018A	5.00
11173	J263B.0020	9212099 RI	44403	9/20/17 18:25	172590018A	5.00
11173	J263B.0021	9212101 RI	44405	9/20/17 18:46	172590018A	5.00
11173	J263B.0022	9212105 RI	44409	9/20/17 19:08	172590018A	5.00
11173	J263B.0023	9212102 RI	44406	9/20/17 19:29	172590018A	5.00
11173	J263B.0024	TPH_31732K	TPH_3CZ	9/20/17 19:51	1726299999	1.00
11173	J263B.0025	RTC44	AA	9/20/17 20:12	1726299999	1.00
11173	J263B.0026	BLANKA 9/19/17 RI	PBLK28261	9/20/17 20:34	172610028A	1.00
11173	J263B.0027	LCSA 9/19/17	LCS28261	9/20/17 20:55	172610028A	1.00
11173	J263B.0028	LCSDA 9/19/17	LCSD28261	9/20/17 21:17	172610028A	1.00
11173	J263B.0029	9210929 RI	O4001	9/20/17 21:39	172610028A	1.00
11173	J263B.0030	9210930 RI	O4002	9/20/17 22:00	172610028A	1.00
11173	J263B.0031	9210931 RI	O4003	9/20/17 22:22	172610028A	1.00
11173	J263B.0032	9210932 RI	O4004	9/20/17 22:43	172610028A	1.00
11173	J263B.0033	9210933 RI	O4005	9/20/17 23:04	172610028A	1.00
11173	J263B.0034	9210934 RI	O4006	9/20/17 23:26	172610028A	1.00
11173	J263B.0035	9210935 RI	O4007	9/20/17 23:48	172610028A	1.00
11173	J263B.0036	TPH_31732K	TPH_3DB	9/21/17 0:09	1726299999	1.00
11173	J263B.0037	9208170 RI	RAP3F	9/21/17 0:30	172610028A	1.00
11173	J263B.0038	9208167 RI	SS-72	9/21/17 0:52	172610028A	1.00
11173	J263B.0039	9208165 RI	SS-69	9/21/17 1:13	172610028A	1.00
11173	J263B.0040	9205830 RI	SS-68	9/21/17 1:35	172610028A	1.00
11173	J263B.0041	9208166 DF2	SS-73	9/21/17 1:56	172610028A	2.00
11173	J263B.0042	9208168 DF2	SS-74	9/21/17 2:18	172610028A	2.00
11173	J263B.0043	9205828 DF5	SS-76	9/21/17 2:39	172610028A	5.00
11173	J263B.0044	9205832 DF5	SS-15	9/21/17 3:01	172610028A	5.00
11173	J263B.0045	9208169 DF5	SS-14	9/21/17 3:22	172610028A	5.00
11173	J263B.0046	9205834 DF20	SS-80	9/21/17 3:44	172610028A	20.00
11173	J263B.0047	TPH_31732K	TPH_3DB	9/21/17 4:05	1726299999	1.00
11173	J263B.0048	BLANKA 9/16/17 RI	PBLK05259	9/21/17 4:26	172590005A	5.00
11173	J263B.0049	LCSA 9/16/17	LCS05259	9/21/17 4:48	172590005A	5.00
11173	J263B.0050	LCSD 9/16/17	LCSD15	9/21/17 5:09	172590005A	5.00
11173	J263B.0051	9194292R RI DF5	AMP-2	9/21/17 5:31	172570043A	5.00
11173	J263B.0052	9194293R RI DF5	AMP-3	9/21/17 5:52	172570043A	5.00
11173	J263B.0053	9194315R RI DF5	AMFD2	9/21/17 6:13	172570043A	5.00
11173	J263B.0054	9205822 RI DF5	SS-77	9/21/17 6:35	172570043A	5.00
11173	J263B.0055	9205820 RI DF10	SS-81	9/21/17 6:56	172570043A	10.00
11173	J263B.0056	9205826 RI DF10	SS-DP	9/21/17 7:18	172570043A	10.00

Operator	File	LLI#	Client ID	Analysis Date	Batch	Dilution Factor
11173	J263B.0057	9198772R RI DF10	SPN05	9/21/17 7:39	172590005A	50.00
11173	J263B.0058	TPH_31732K	TPH_3DC	9/21/17 8:01	1726299999	1.00

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LC-MS/MS
Sample Run Log

Printed: 9/25/2017 6:00:00 AM
Template: Sample Run Log-17JUL05.docx

Instrument Name: LM24960

Data File Name	Sample ID	Batch No	Analysis Date/Time
17SEP13-20.wiff	MDL	MODICAL	9/14/2017 7:00:30 AM
17SEP13-21.wiff	CAL1	MODICAL	9/14/2017 7:21:03 AM
17SEP13-22.wiff	CAL2	MODICAL	9/14/2017 7:41:36 AM
17SEP13-23.wiff	CAL3	MODICAL	9/14/2017 8:02:09 AM
17SEP13-24.wiff	CAL4	MODICAL	9/14/2017 8:22:39 AM
17SEP13-25.wiff	CAL5	MODICAL	9/14/2017 8:43:09 AM
17SEP13-26.wiff	CAL6	MODICAL	9/14/2017 9:03:42 AM
17SEP13-27.wiff	CAL7	MODICAL	9/14/2017 9:24:15 AM
17SEP13-28.wiff	Instrument Blank	MODICAL	9/14/2017 9:44:49 AM
17SEP13-29.wiff	CCV1_CAL3	MODICAL	9/14/2017 10:05:22 AM
17SEP13-30.wiff	ICV	MODICAL	9/14/2017 10:25:55 AM
17SEP13-31.wiff	L+B CAL3	MODICAL	9/14/2017 10:46:28 AM
17SEP21-01.wiff	Solvent	MODICAL	9/21/2017 9:25:49 AM
17SEP21-02.wiff	Solvent	MODICAL	9/21/2017 9:46:21 AM
17SEP21-03.wiff	CCV1_CAL1	MODICAL	9/21/2017 10:06:54 AM
17SEP21-04.wiff	Instrument Blank	MODICAL	9/21/2017 10:27:24 AM
17SEP21-05.wiff	Solvent	MODICAL	9/21/2017 10:59:39 AM
17SEP21-06.wiff	Solvent	MODICAL	9/21/2017 11:20:15 AM
17SEP21-07.wiff	Solvent	MODICAL	9/21/2017 11:40:48 AM
17SEP21-08.wiff	Solvent	MODICAL	9/21/2017 12:01:21 PM
17SEP21-09.wiff	LCS262003	17262003	9/21/2017 12:21:54 PM
17SEP21-10.wiff	9197946BKG	17262003	9/21/2017 12:42:27 PM
17SEP21-11.wiff	9197947MSD	17262003	9/21/2017 1:03:00 PM
17SEP21-12.wiff	Solvent		9/21/2017 1:23:30 PM
17SEP21-13.wiff	BLK262003	17262003	9/21/2017 1:44:03 PM
17SEP21-14.wiff	9197944	17262003	9/21/2017 2:04:36 PM
17SEP21-15.wiff	9197946MS	17262003	9/21/2017 2:25:09 PM
17SEP21-16.wiff	9197949	17262003	9/21/2017 2:45:42 PM
17SEP21-17.wiff	9197950	17262003	9/21/2017 3:06:15 PM
17SEP21-18.wiff	9197951	17262003	9/21/2017 3:26:48 PM
17SEP21-19.wiff	9197953	17262003	9/21/2017 3:47:21 PM
17SEP21-20.wiff	CCV2_CAL3		9/21/2017 4:07:54 PM
17SEP21-21.wiff	Solvent		9/21/2017 4:28:24 PM
17SEP21-22.wiff	IS TEST	MODICAL	9/21/2017 4:48:57 PM
17SEP21-23.wiff	9197954	17262003	9/21/2017 5:09:27 PM
17SEP21-24.wiff	9197955	17262003	9/21/2017 5:30:00 PM
17SEP21-25.wiff	9198116	17262003	9/21/2017 5:50:33 PM
17SEP21-26.wiff	9198117	17262003	9/21/2017 6:11:03 PM
17SEP21-27.wiff	9198118	17262003	9/21/2017 6:31:33 PM
17SEP21-28.wiff	CCV3_CAL4		9/21/2017 6:52:03 PM
17SEP21-29.wiff	Solvent		9/21/2017 7:12:34 PM
17SEP21-30.wiff	LCS258003	17258003	9/21/2017 7:33:06 PM
17SEP21-31.wiff	LCSDA	17258003	9/21/2017 7:53:36 PM
17SEP21-32.wiff	9198046MS	17258003	9/21/2017 8:14:09 PM
17SEP21-33.wiff	solvent	N\A	9/21/2017 8:34:40 PM
17SEP21-34.wiff	9198046BKGDL	17258003	9/21/2017 8:55:13 PM
17SEP21-35.wiff	9198047DL	17258003	9/21/2017 9:15:45 PM
17SEP21-36.wiff	9198048DL	17258003	9/21/2017 9:36:18 PM
17SEP21-37.wiff	9198049DL	17258003	9/21/2017 9:56:52 PM
17SEP21-38.wiff	9198050DL	17258003	9/21/2017 10:17:22 PM
17SEP21-39.wiff	9198051DL	17258003	9/21/2017 10:37:55 PM
17SEP21-40.wiff	9198053DL	17258003	9/21/2017 10:58:28 PM
17SEP21-41.wiff	CCV4_CAL5	MODICAL	9/21/2017 11:19:01 PM
17SEP21-42.wiff	Solvent	MODICAL	9/21/2017 11:39:34 PM
17SEP21-43.wiff	9198047DL2	17258003	9/22/2017 12:00:07 AM
17SEP21-44.wiff	9198050DL2	17258003	9/22/2017 12:20:40 AM
17SEP21-45.wiff	Solvent	MODICAL	9/22/2017 12:41:13 AM

APPROVED
By JWK at 6:01 am, 9/25/17

REVIEWED
By uild at 11:25 am, 9/25/17

Instrument Name: LM24960

17SEP21-46.wiff	Solvent	MODICAL	9/22/2017 1:01:46 AM
17SEP21-47.wiff	CCV5_CAL4	MODICAL	9/22/2017 1:22:19 AM
17SEP21-48.wiff	Solvent	MODICAL	9/22/2017 1:42:49 AM
17SEP21-49.wiff	LCS262001	17262001	9/22/2017 2:03:22 AM
17SEP21-50.wiff	LCSDA	17262001	9/22/2017 2:23:55 AM
17SEP21-51.wiff	9208998MS	17262001	9/22/2017 2:44:28 AM
17SEP21-52.wiff	solvent	N\A	9/22/2017 3:05:01 AM
17SEP21-53.wiff	BLK262001	17262001	9/22/2017 3:25:34 AM
17SEP21-54.wiff	9208998BKG	17262001	9/22/2017 3:46:07 AM
17SEP21-55.wiff	9208999	17262001	9/22/2017 4:06:40 AM
17SEP21-56.wiff	9209000	17262001	9/22/2017 4:27:13 AM
17SEP21-57.wiff	9209001	17262001	9/22/2017 4:47:46 AM
17SEP21-58.wiff	9210929	17262001	9/22/2017 5:08:19 AM
17SEP21-59.wiff	9210930	17262001	9/22/2017 5:28:52 AM
17SEP21-60.wiff	CCV6_CAL4	N\A	9/22/2017 5:49:25 AM
17SEP21-61.wiff	solvent	N\A	9/22/2017 6:09:55 AM
17SEP21-62.wiff	9210931	17262001	9/22/2017 6:30:28 AM
17SEP21-63.wiff	9210932	17262001	9/22/2017 6:51:01 AM
17SEP21-64.wiff	9210933	17262001	9/22/2017 7:11:34 AM
17SEP21-65.wiff	9210934	17262001	9/22/2017 7:32:07 AM
17SEP21-66.wiff	9210935	17262001	9/22/2017 7:52:40 AM
17SEP21-67.wiff	9210936	17262001	9/22/2017 8:13:13 AM
17SEP21-68.wiff	CCV7_CAL4	N\A	9/22/2017 8:33:46 AM
17SEP21-69.wiff	solvent	N\A	9/22/2017 8:54:19 AM
17SEP21-70.wiff	LCS258004	17258004	9/22/2017 9:14:52 AM
17SEP21-71.wiff	9203132MS	17258004	9/22/2017 9:35:25 AM
17SEP21-72.wiff	9203133MSD	17258004	9/22/2017 9:55:58 AM
17SEP21-73.wiff	solvent	N\A	9/22/2017 10:16:28 AM
17SEP21-74.wiff	BLK258004	17258004	9/22/2017 10:37:01 AM
17SEP21-75.wiff	9203127	17258004	9/22/2017 10:57:34 AM
17SEP21-76.wiff	9203128	17258004	9/22/2017 11:18:07 AM
17SEP21-77.wiff	9203129	17258004	9/22/2017 11:38:40 AM
17SEP21-78.wiff	9203130	17258004	9/22/2017 11:59:11 AM
17SEP21-79.wiff	9203131BKG	17258004	9/22/2017 12:19:44 PM
17SEP21-80.wiff	9203134	17258004	9/22/2017 12:40:17 PM
17SEP21-81.wiff	CCV8_CAL4	N\A	9/22/2017 1:00:47 PM
17SEP21-82.wiff	solvent	N\A	9/22/2017 1:21:17 PM
17SEP21-83.wiff	LCS262004	17262004	9/22/2017 1:41:50 PM
17SEP21-84.wiff	LCSDA	17262004	9/22/2017 2:02:23 PM
17SEP21-85.wiff	9213980MS	17262004	9/22/2017 2:22:56 PM
17SEP21-86.wiff	solvent	N\A	9/22/2017 2:43:26 PM
17SEP21-87.wiff	BLK262004	17262004	9/22/2017 3:03:59 PM
17SEP21-88.wiff	9213980BKG	17262004	9/22/2017 3:24:32 PM
17SEP21-89.wiff	CCV9_CAL5	N\A	9/22/2017 3:45:05 PM
17SEP21-90.wiff	solvent	N\A	9/22/2017 4:05:35 PM

Ammonium Acetate: 1026209191733A
Methanol: DS096-US

APPROVED
By JWK at 6:01 am, 9/25/17

REVIEWED
By uild at 11:25 am, 9/25/17

eurofins | Lancaster Laboratories

LC-MS/MS
Sample Run Log

Printed: 9/30/2017 8:12:00 AM
Template: Sample Run Log-17JUL05.docx

Instrument Name: LM24960

Data File Name	Sample ID	Batch No	Analysis Date/Time
17SEP13-20.wiff	MDL	MODICAL	9/14/2017 7:00:30 AM
17SEP13-21.wiff	CAL1	MODICAL	9/14/2017 7:21:03 AM
17SEP13-22.wiff	CAL2	MODICAL	9/14/2017 7:41:36 AM
17SEP13-23.wiff	CAL3	MODICAL	9/14/2017 8:02:09 AM
17SEP13-24.wiff	CAL4	MODICAL	9/14/2017 8:22:39 AM
17SEP13-25.wiff	CAL5	MODICAL	9/14/2017 8:43:09 AM
17SEP13-26.wiff	CAL6	MODICAL	9/14/2017 9:03:42 AM
17SEP13-27.wiff	CAL7	MODICAL	9/14/2017 9:24:15 AM
17SEP13-28.wiff	Instrument Blank	MODICAL	9/14/2017 9:44:49 AM
17SEP13-29.wiff	CCV1_CAL3	MODICAL	9/14/2017 10:05:22 AM
17SEP13-30.wiff	ICV	MODICAL	9/14/2017 10:25:55 AM
17SEP13-31.wiff	L+B CAL3	MODICAL	9/14/2017 10:46:28 AM
17SEP28-01.wiff	CCV1_CAL1	MODICAL	9/28/2017 7:54:30 PM
17SEP28-02.wiff	Instrument Blank	MODICAL	9/28/2017 8:15:00 PM
17SEP28-03.wiff	LCSDA	17265017	9/28/2017 8:35:33 PM
17SEP28-04.wiff	9211241	17265017	9/28/2017 8:56:06 PM
17SEP28-05.wiff	solvent	N\A	9/28/2017 9:16:39 PM
17SEP28-06.wiff	LCS267002	17267002	9/28/2017 9:37:12 PM
17SEP28-07.wiff	LCSDA	17267002	9/28/2017 9:57:46 PM
17SEP28-08.wiff	9223295MS	17267002	9/28/2017 10:18:19 PM
17SEP28-09.wiff	solvent	N\A	9/28/2017 10:38:52 PM
17SEP28-10.wiff	BLK267002	17267002	9/28/2017 10:59:25 PM
17SEP28-11.wiff	9223295BKG	17267002	9/28/2017 11:19:55 PM
17SEP28-12.wiff	9223296	17267002	9/28/2017 11:40:25 PM
17SEP28-13.wiff	9223297	17267002	9/29/2017 12:00:55 AM
17SEP28-14.wiff	CCV2_CAL3	N\A	9/29/2017 12:21:28 AM
17SEP28-15.wiff	solvent	N\A	9/29/2017 12:42:01 AM
17SEP28-16.wiff	LCS269008	17269008	9/29/2017 1:02:34 AM
17SEP28-17.wiff	LCSDA	17269008	9/29/2017 1:23:07 AM
17SEP28-18.wiff	9222028MS	17269008	9/29/2017 1:43:37 AM
17SEP28-19.wiff	solvent	N\A	9/29/2017 2:04:10 AM
17SEP28-20.wiff	BLK269008	17269008	9/29/2017 2:24:40 AM
17SEP28-21.wiff	9222028BKG	17269008	9/29/2017 2:45:10 AM
17SEP28-22.wiff	9222029	17269008	9/29/2017 3:05:43 AM
17SEP28-23.wiff	9222030	17269008	9/29/2017 3:26:16 AM
17SEP28-24.wiff	9222031	17269008	9/29/2017 3:46:49 AM
17SEP28-25.wiff	9203400BKG	17270009	9/29/2017 4:07:22 AM
17SEP28-26.wiff	9203400MS	17270009	9/29/2017 4:27:55 AM
17SEP28-27.wiff	CCV3_CAL4	N\A	9/29/2017 4:48:28 AM
17SEP28-28.wiff	solvent	N\A	9/29/2017 5:09:01 AM
17SEP28-29.wiff	BLK242016	17242016	9/29/2017 5:29:34 AM
17SEP28-30.wiff	LOD1	17242016	9/29/2017 5:50:07 AM
17SEP28-31.wiff	LOD2	17242016	9/29/2017 6:10:40 AM
17SEP28-32.wiff	LOD3	17242016	9/29/2017 6:31:13 AM
17SEP28-33.wiff	LOD4	17242016	9/29/2017 6:51:46 AM
17SEP28-34.wiff	solvent	N\A	9/29/2017 7:12:19 AM
17SEP28-35.wiff	BLK248008	17248008	9/29/2017 7:32:52 AM
17SEP28-36.wiff	LOD1	17248008	9/29/2017 7:53:25 AM
17SEP28-37.wiff	LOD2	17248008	9/29/2017 8:13:58 AM
17SEP28-38.wiff	LOD3	17248008	9/29/2017 8:34:31 AM
17SEP28-39.wiff	CCV4_CAL4	N\A	9/29/2017 8:55:04 AM
17SEP28-40.wiff	solvent	N\A	9/29/2017 9:15:37 AM
17SEP28-41.wiff	IS Test	MODICAL	9/29/2017 9:36:11 AM
17SEP28-42.wiff	CCV5_CAL4	N\A	9/29/2017 9:56:43 AM
17SEP28-43.wiff	solvent		9/29/2017 10:17:16 AM
17SEP28-44.wiff	LCS269014	17269014	9/29/2017 10:37:49 AM
17SEP28-45.wiff	LCSDA	17269014	9/29/2017 10:58:22 AM

APPROVED
By JWK at 8:14 am, 9/30/17

REVIEWED
By UMJS at 7:51 am, 10/2/17

Instrument Name: LM24960

17SEP28-46.wiff	9210935MS	17269014	9/29/2017 11:18:55 AM
17SEP28-47.wiff	solvent		9/29/2017 11:39:28 AM
17SEP28-48.wiff	BLK269014	17269014	9/29/2017 12:00:01 PM
17SEP28-49.wiff	9210935BKG	17269014	9/29/2017 12:20:34 PM
17SEP28-50.wiff	CCV6_CAL4	N\A	9/29/2017 12:41:07 PM
17SEP28-51.wiff	solvent		9/29/2017 1:01:41 PM
17SEP28-52.wiff	LCS271006	17271006	9/29/2017 1:22:14 PM
17SEP28-53.wiff	LCSDA	17271006	9/29/2017 1:42:46 PM
17SEP28-54.wiff	solvent	N\A	9/29/2017 2:03:19 PM
17SEP28-55.wiff	BLK271006	17271006	9/29/2017 2:23:53 PM
17SEP28-56.wiff	9210684RE	17271006	9/29/2017 2:44:26 PM
17SEP28-57.wiff	9210686RE	17271006	9/29/2017 3:04:58 PM
17SEP28-58.wiff	9210688RE	17271006	9/29/2017 3:25:31 PM
17SEP28-59.wiff	9212613	17271006	9/29/2017 3:46:05 PM
17SEP28-60.wiff	LCS271004	17271004	9/29/2017 4:06:38 PM
17SEP28-61.wiff	LCSDA	17271004	9/29/2017 4:27:11 PM
17SEP28-62.wiff	9233016MS	17271004	9/29/2017 4:47:44 PM
17SEP28-63.wiff	CCV7_CAL5	N\A	9/29/2017 5:08:17 PM
17SEP28-64.wiff	solvent	N\A	9/29/2017 5:28:50 PM
17SEP28-65.wiff	BLK271004	17271004	9/29/2017 5:49:23 PM
17SEP28-66.wiff	9233016BKG	17271004	9/29/2017 6:09:56 PM
17SEP28-67.wiff	9233017	17271004	9/29/2017 6:30:29 PM
17SEP28-68.wiff	9233018	17271004	9/29/2017 6:51:02 PM
17SEP28-69.wiff	CCV8_CAL3	N\A	9/29/2017 7:11:35 PM
17SEP28-70.wiff	solvent	N\A	9/29/2017 7:32:08 PM

Ammonium Acetate: 26157009271733A
Methanol: DR018-US

APPROVED
By JWK at 8:14 am, 9/30/17

REVIEWED
By UMJS at 7:51 am, 10/2/17

Quality Control Summary

Client Name: Eurofins Spectrum Analytical
Reported: 10/06/2017 14:34

Group Number: 1851007

Matrix QC may not be reported if insufficient sample or 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.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result		DL**	LOD	LOQ
	mg/l		mg/l	mg/l	mg/l
Batch number: 172610028A	Sample number(s): 9210929-9210935				
C8-C44	0.10	U	0.050	0.10	0.20
Total TPH	0.10	U	0.050	0.10	0.20
	ng/l		ng/l	ng/l	ng/l
Batch number: 17262001	Sample number(s): 9210929-9210934,9210936				
Perfluorobutanesulfonate	3	U	0.8	3	3
Perfluorobutanoic Acid	10	U	3	10	10
Perfluorodecanesulfonate	6	U	2	6	6
Perfluorodecanoic acid	2	U	0.5	2	2
Perfluorododecanoic acid	2	U	0.5	2	2
Perfluoroheptanesulfonate	6	U	2	6	6
Perfluoroheptanoic acid	2	U	0.5	2	2
Perfluorohexanesulfonate	3	U	1	3	3
Perfluorohexanoic acid	2	U	0.6	2	2
Perfluorononanoic acid	2	U	0.6	2	2
Perfluoro-octanesulfonate	6	U	2	6	6
Perfluorooctanoic acid	2	U	0.6	2	2
Perfluoropentanoic Acid	2	U	0.5	2	2
Perfluorotetradecanoic acid	2	U	0.5	2	2
Perfluorotridecanoic acid	2	U	0.5	2	2
Perfluoroundecanoic acid	3	U	1	3	3
PFOSA	9	U	3	9	9
Batch number: 17269014	Sample number(s): 9210935				
Perfluorobutanesulfonate	3	U	0.8	3	3
Perfluorobutanoic Acid	10	U	3	10	10
Perfluorodecanesulfonate	6	U	2	6	6
Perfluorodecanoic acid	2	U	0.5	2	2
Perfluorododecanoic acid	2	U	0.5	2	2
Perfluoroheptanesulfonate	6	U	2	6	6
Perfluoroheptanoic acid	2	U	0.5	2	2
Perfluorohexanesulfonate	3	U	1	3	3
Perfluorohexanoic acid	2	U	0.6	2	2
Perfluorononanoic acid	2	U	0.6	2	2
Perfluoro-octanesulfonate	6	U	2	6	6
Perfluorooctanoic acid	2	U	0.6	2	2
Perfluoropentanoic Acid	2	U	0.5	2	2
Perfluorotetradecanoic acid	2	U	0.5	2	2
Perfluorotridecanoic acid	2	U	0.5	2	2
Perfluoroundecanoic acid	3	U	1	3	3
PFOSA	9	U	3	9	9

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
(3) The surrogate spike amount was less than the LOD.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins Spectrum Analytical
Reported: 10/06/2017 14:34

Group Number: 1851007

Method Blank (continued)

Analysis Name	Result	DL**	LOD	LOQ
	ng/l	ng/l	ng/l	ng/l

LCS/LCSD

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 172610028A	Sample number(s): 9210929-9210935								
Total TPH	0.800	0.738	0.800	0.714	92	89	36-132	3	30
	ng/l	ng/l	ng/l	ng/l					
Batch number: 17262001	Sample number(s): 9210929-9210934,9210936								
Perfluorobutanesulfonate	12.03	11.34	12.03	11.27	94	94	70-130	1	30
Perfluorobutanoic Acid	13.6	14.22	13.6	13.63	105	100	70-130	4	30
Perfluorodecanesulfonate	13.1	11.02	13.1	9.92	84	76	70-130	10	30
Perfluorodecanoic acid	13.6	12.92	13.6	11.96	95	88	70-130	8	30
Perfluorododecanoic acid	13.6	13.25	13.6	13.53	97	99	70-130	2	30
Perfluoroheptanesulfonate	12.49	12.81	12.49	12.17	103	97	70-130	5	30
Perfluoroheptanoic acid	13.6	15.25	13.6	12.17	112	89	70-130	22	30
Perfluorohexanesulfonate	12.86	12.66	12.86	13.38	98	104	70-130	6	30
Perfluorohexanoic acid	13.6	13.82	13.6	13.84	102	102	70-130	0	30
Perfluorononanoic acid	13.6	16.14	13.6	14.46	119	106	70-130	11	30
Perfluoro-octanesulfonate	13	11.64	13	11.18	90	86	70-130	4	30
Perfluorooctanoic acid	13.6	11.83	13.6	13.41	87	99	70-130	12	30
Perfluoropentanoic Acid	13.6	12.74	13.6	13.05	94	96	70-130	2	30
Perfluorotetradecanoic acid	13.6	13.61	13.6	13.96	100	103	70-130	3	30
Perfluorotridecanoic acid	13.6	14.18	13.6	15.2	104	112	70-130	7	30
Perfluoroundecanoic acid	13.6	12.29	13.6	14.49	90	107	70-130	16	30
PFOSA	13.6	12.76	13.6	11.7	94	86	70-130	9	30
Batch number: 17269014	Sample number(s): 9210935								
Perfluorobutanesulfonate	12.03	11.88	12.03	11.94	99	99	70-130	1	30
Perfluorobutanoic Acid	13.6	13.35	13.6	13.15	98	97	70-130	2	30
Perfluorodecanesulfonate	13.1	12.64	13.1	10.3	97	79	70-130	20	30
Perfluorodecanoic acid	13.6	13.12	13.6	11.28	96	83	70-130	15	30
Perfluorododecanoic acid	13.6	12.43	13.6	12.46	91	92	70-130	0	30
Perfluoroheptanesulfonate	12.49	10.47	12.49	11.57	84	93	70-130	10	30
Perfluoroheptanoic acid	13.6	14.22	13.6	13.79	105	101	70-130	3	30
Perfluorohexanesulfonate	12.86	10.4	12.86	12.62	81	98	70-130	19	30
Perfluorohexanoic acid	13.6	12.06	13.6	11.83	89	87	70-130	2	30
Perfluorononanoic acid	13.6	12.46	13.6	12.48	92	92	70-130	0	30
Perfluoro-octanesulfonate	13	11.82	13	11.32	91	87	70-130	4	30
Perfluorooctanoic acid	13.6	12.71	13.6	12.16	93	89	70-130	4	30
Perfluoropentanoic Acid	13.6	12.43	13.6	12.63	91	93	70-130	2	30
Perfluorotetradecanoic acid	13.6	13.35	13.6	12.57	98	92	70-130	6	30
Perfluorotridecanoic acid	13.6	13.93	13.6	14.55	102	107	70-130	4	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
(3) The surrogate spike amount was less than the LOD.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins Spectrum Analytical
Reported: 10/06/2017 14:34

Group Number: 1851007

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ng/l	LCS Conc ng/l	LCSD Spike Added ng/l	LCSD Conc ng/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Perfluoroundecanoic acid	13.6	14.37	13.6	13.96	106	103	70-130	3	30
PFOSA	13.6	14.57	13.6	15.13	107	111	70-130	4	30

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/l	MS Spike Added ng/l	MS Conc ng/l	MSD Spike Added ng/l	MSD Conc ng/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 17262001	Sample number(s): 9210929-9210934,9210936 UNSPK: P208998									
Perfluorobutanesulfonate	8.54	12.09	20.96			103		70-130		
Perfluorobutanoic Acid	21.24	13.66	34.34			96		70-130		
Perfluorodecanesulfonate	6 U	13.16	11.59			88		70-130		
Perfluorodecanoic acid	0.878	13.66	14.93			103		70-130		
Perfluorododecanoic acid	2 U	13.66	13.62			100		70-130		
Perfluoroheptanesulfonate	6 U	12.55	12.85			102		70-130		
Perfluoroheptanoic acid	12.24	13.66	26.5			104		70-130		
Perfluorohexanesulfonate	12.93	12.92	24.54			90		70-130		
Perfluorohexanoic acid	48.33	13.66	62.53			104		70-130		
Perfluorononanoic acid	2 U	13.66	13.5			99		70-130		
Perfluoro-octanesulfonate	2.23	13.06	14.55			94		70-130		
Perfluorooctanoic acid	14.68	13.66	30.47			116		70-130		
Perfluoropentanoic Acid	50.94	13.66	67.6			122		70-130		
Perfluorotetradecanoic acid	2 U	13.66	14.32			105		70-130		
Perfluorotridecanoic acid	2 U	13.66	15.16			111		70-130		
Perfluoroundecanoic acid	3 U	13.66	14.27			104		70-130		
PFOSA	9 U	13.66	13.11			96		70-130		
Batch number: 17269014	Sample number(s): 9210935 UNSPK: 9210935									
Perfluorobutanesulfonate	0.858	12.05	11.59			89		70-130		
Perfluorobutanoic Acid	10 U	13.63	14.35			105		70-130		
Perfluorodecanesulfonate	6 U	13.12	11.6			88		70-130		
Perfluorodecanoic acid	2 U	13.63	12.6			92		70-130		
Perfluorododecanoic acid	2 U	13.63	12.25			90		70-130		
Perfluoroheptanesulfonate	6 U	12.51	10.24			82		70-130		
Perfluoroheptanoic acid	0.852	13.63	14.73			102		70-130		
Perfluorohexanesulfonate	3.96	12.88	14.61			83		70-130		
Perfluorohexanoic acid	1.19	13.63	12.87			86		70-130		
Perfluorononanoic acid	2 U	13.63	13.71			101		70-130		
Perfluoro-octanesulfonate	6 U	13.03	11.2			86		70-130		
Perfluorooctanoic acid	1.90	13.63	13.28			84		70-130		
Perfluoropentanoic Acid	1.19	13.63	12.86			86		70-130		
Perfluorotetradecanoic acid	2 U	13.63	12.04			88		70-130		
Perfluorotridecanoic acid	2 U	13.63	13.04			96		70-130		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
(3) The surrogate spike amount was less than the LOD.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins Spectrum Analytical
Reported: 10/06/2017 14:34

Group Number: 1851007

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ng/l		MS Spike Added ng/l	MS Conc ng/l	MSD Spike Added ng/l	MSD Conc ng/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Perfluoroundecanoic acid	3	U	13.63	10.95			80		70-130		
PFOSA	9	U	13.63	13.6			100		70-130		

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report. For dual column analyses, the surrogate (at least one surrogate for multi-surrogate tests) must be within the acceptance limits on at least one of the two columns.

Analysis Name: Custom TPH with Ranges (Water)
Batch number: 172610028A

	Chlorobenzene %Rec	LOD (mg/l)	Orthoterphenyl %Rec	LOD (mg/l)
9210929	85	0.0015	99	0.0015
9210930	112	0.0012	88	0.0012
9210931	90	0.0012	104	0.0012
9210932	94	0.0012	103	0.0012
9210933	89	0.0012	100	0.0012
9210934	85	0.0013	98	0.0013
9210935	90	0.0012	104	0.0012
Blank	73	0.0012	100	0.0012
LCS	87	0.0012	106	0.0012
LCSD	83	0.0012	101	0.0012
Limits:	35-135		56-125	

Analysis Name: PFAS in Water by LC/MS/MS
Batch number: 17262001

	13C4-PFBA %Rec	LOD (ng/l)	13C5-PFPeA %Rec	LOD (ng/l)	13C3-PFBS %Rec	LOD (ng/l)	13C5-PFHxA %Rec	LOD (ng/l)	13C3-PFHxS %Rec	LOD (ng/l)	13C4-PFHpA %Rec	LOD (ng/l)
9210929	69	10	66	3	82	10	79	2	84	10	62	2
9210930	80	10	96	3	114	10	76	2	82	10	72	2
9210931	72	10	89	3	116	10	62	2	70	10	66	2
9210932	81	10	84	3	99	10	91	2	90	10	83	2
9210933	69	10	72	3	89	10	80	2	83	10	79	2
9210934	73	10	72	3	79	10	81	2	88	10	82	2
9210936	81	10	77	3	81	10	86	2	83	10	82	2
Blank	80	10	79	3	78	10	87	2	83	10	74	2
LCS	74	10	70	3	69	10	80	2	84	10	76	2

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(2) The unspiked result was more than four times the spike added.
(3) The surrogate spike amount was less than the LOD.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins Spectrum Analytical
Reported: 10/06/2017 14:34

Group Number: 1851007

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report. For dual column analyses, the surrogate (at least one surrogate for multi-surrogate tests) must be within the acceptance limits on at least one of the two columns.

Analysis Name: PFAS in Water by LC/MS/MS
Batch number: 17262001

	13C4-PFBA %Rec	LOD (ng/l)	13C5-PFPeA %Rec	LOD (ng/l)	13C3-PFBS %Rec	LOD (ng/l)	13C5-PFHxA %Rec	LOD (ng/l)	13C3-PFHxS %Rec	LOD (ng/l)	13C4-PFHpA %Rec	LOD (ng/l)
LCSD	75	10	66	3	73	10	72	2	78	10	75	2
MS	73	10	77	3	94	10	86	2	87	10	73	2
Limits:	33-123		39-135		26-148		31-128		34-126		35-126	

	13C8-PFOA %Rec	LOD (ng/l)	13C8-PFOS %Rec	LOD (ng/l)	13C9-PFNA %Rec	LOD (ng/l)	13C6-PFDA %Rec	LOD (ng/l)	13C7-PFUnDA %Rec	LOD (ng/l)	13C2-PFDoDA %Rec	LOD (ng/l)
9210929	68	2	75	10	69	2	62	2	55	4	52	5
9210930	73	2	81	10	75	2	73	2	67	4	60	5
9210931	63	2	63	10	74	2	71	2	64	4	57	5
9210932	93	2	87	10	86	2	90	2	76	4	68	5
9210933	73	2	70	10	69	2	76	2	63	4	64	5
9210934	74	2	77	10	71	2	74	2	64	4	58	5
9210936	77	2	72	10	74	2	77	2	66	4	62	5
Blank	79	2	70	10	78	2	79	2	73	4	66	5
LCS	83	2	72	10	68	2	73	2	70	4	63	5
LCSD	64	2	85	10	71	2	74	2	70	4	67	5
MS	69	2	77	10	71	2	70	2	71	4	70	5
Limits:	43-112		43-115		32-134		40-115		30-128		28-127	

	13C2-PFTeDA %Rec	LOD (ng/l)	13C8-PFOSA %Rec	LOD (ng/l)
9210929	52	5	9*	9
9210930	63	5	10*	9
9210931	52	5	14*	9
9210932	67	5	17*	9
9210933	61	5	9*	9
9210934	60	5	10*	9
9210936	62	5	36*	9
Blank	73	5	18*	9
LCS	66	5	17*	9
LCSD	68	5	6*	9
MS	64	5	10*	9
Limits:	26-119		70-130	

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Quality Control Summary

Client Name: Eurofins Spectrum Analytical
Reported: 10/06/2017 14:34

Group Number: 1851007

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report. For dual column analyses, the surrogate (at least one surrogate for multi-surrogate tests) must be within the acceptance limits on at least one of the two columns.

Analysis Name: PFAS in Water by LC/MS/MS
Batch number: 17269014

	13C4-PFBA		13C5-PFPeA		13C3-PFBS		13C5-PFHxA		13C3-PFHxS		13C4-PFHpA	
	%Rec	LOD (ng/l)	%Rec	LOD (ng/l)	%Rec	LOD (ng/l)	%Rec	LOD (ng/l)	%Rec	LOD (ng/l)	%Rec	LOD (ng/l)
9210935	84	10	93	3	102	10	89	2	93	10	92	2
Blank	93	10	94	3	87	10	88	2	81	10	82	2
LCS	107	10	101	3	90	10	113	2	117	10	100	2
LCSD	85	10	82	3	75	10	93	2	92	10	95	2
MS	93	10	123	3	137	10	101	2	106	10	89	2
Limits:	33-123		39-135		26-148		31-128		34-126		35-126	

	13C8-PFOA		13C8-PFOS		13C9-PFNA		13C6-PFDA		13C7-PFUnDA		13C2-PFDoDA	
	%Rec	LOD (ng/l)	%Rec	LOD (ng/l)	%Rec	LOD (ng/l)	%Rec	LOD (ng/l)	%Rec	LOD (ng/l)	%Rec	LOD (ng/l)
9210935	94	2	86	10	91	2	92	2	96	4	112	5
Blank	87	2	88	10	83	2	100	2	117	4	123	5
LCS	109	2	93	10	103	2	101	2	119	4	134*	5
LCSD	92	2	97	10	94	2	90	2	85	4	103	5
MS	105	2	110	10	97	2	90	2	112	4	117	5
Limits:	43-112		43-115		32-134		40-115		30-128		28-127	

	13C2-PFTeDA		13C8-PFOSA	
	%Rec	LOD (ng/l)	%Rec	LOD (ng/l)
9210935	117	5	24*	9
Blank	134*	5	32*	9
LCS	140*	5	47*	9
LCSD	111	5	18*	9
MS	113	5	36*	9
Limits:	26-119		70-130	

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FORM 08A
INTERNAL STANDARDS
LC/MS/MS

SDG No.: THO40
Matrix: WATER

17262001		13C2-PFDA	13C2-PFOA	13C3-PFBA	13C4-PFOS
		Area	Area	Area	Area
Average ICAL Response		339765	262013	469829	148338
UPPER LIMIT		509648	393020	704744	222507
LOWER LIMIT		169883	131007	234915	74169
LAB SAMPLE ID	**DATE ANALYZED**				
LCS262001	09/22/17 02:03	433700	306425	658460	187890
LCSDA	09/22/17 02:23	404707	314379	640866	181129
BLK262001	09/22/17 03:25	369142	306174	580675	182469
9210929	09/22/17 05:08	357435	297811	563197	160994
9210930	09/22/17 05:28	356368	357407	442288	191926
9210931	09/22/17 06:30	377829	360883	391925	187066
9210932	09/22/17 06:51	329297	319294	556004	175681
9210933	09/22/17 07:11	319356	308435	558089	179407
9210934	09/22/17 07:32	327772	291620	560653	170556
9210936	09/22/17 08:13	297725	297326	558942	165269

AREA: Upper limit: 150% of the internal standard area.
Lower Limit: 50% of the internal standard area.

* Outside QC Limits

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FORM 08A
INTERNAL STANDARDS
LC/MS/MS

SDG No.: THO40
Matrix: WATER

17269014		13C2-PFDA	13C2-PFOA	13C3-PFBA	13C4-PFOS
		Area	Area	Area	Area
Average ICAL Response		339765	262013	469829	148338
UPPER LIMIT		509648	393020	704744	222507
LOWER LIMIT		169883	131007	234915	74169
LAB SAMPLE ID	**DATE ANALYZED**				
LCS269014	09/29/17 10:37	365162	284091	601806	175953
LCSDA	09/29/17 10:58	403046	295433	618625	161530
9210935MS	09/29/17 11:18	388300	300182	417210	161786
BLK269014	09/29/17 12:00	337133	333682	580115	167701
9210935	09/29/17 12:20	358691	284922	508472	169334

AREA: Upper limit: 150% of the internal standard area.
Lower Limit: 50% of the internal standard area.

* Outside QC Limits

Organic Extraction Batchlog Assigned to: 9874 Kayla Yuditsky

Reviewed by: JE11173 Start Date: 9/19/17 Start time: 8:00

172610028A

Tech 1: Ky 9874 Tech 2: OS11067

Dept: 32	Prep Analysis: 11181 Custom TPH w/ Ranges Water Ext										Custom TPH with Ranges (Water)
QC	Sample Code	Amt mL	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
BLANKA	PBLK28261	1000	SS1724332D	1.0			1	2	2	2	DI H2O
LCSA	LCS28261	1000	SS1724332D		~~MS1725532A~~	1.0	1	2	2	2	
LCSDA	LCSD28261	1000	SS1724332D		~~MS1725532A~~		1	2	2	2	

8

Solvent Used	Lot No.
1:1 HCl	G180-05
Methylene Chloride	175716
Sodium Sulfate	17251A

Spike Solutions: Witness:

8 MS1724432A ~~MS1725532A~~ DRO WATER SPIKE

Ky 9874 9/19/17 SS1724332D DRO WATER SURROGATE

Sample #	Sample Code	Amt mL	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	List	Due Date	Prio
1 9205828	SS-76	996	SS1724332D	1.0	1			43A	yellow sediment	02740	4317	09/25/2017	N
2 9205830	SS-68	992	SS1724332D		1			43A	tan tint	02740	4317	09/25/2017	N
3 9205832	SS-15	995	SS1724332D		1			43A	yellow, sediment	02740	4317	09/25/2017	N
4 9205834	SS-80	996	SS1724332D		1			43A		02740	4317	09/25/2017	N
5 9208165	SS-69	990	SS1724332D		1			43A		02740	4317	09/26/2017	N
6 9208166	SS-73	1057	SS1724332D		1			43A	brown sediment	02740	4317	09/26/2017	N
7 9208167	SS-72	998	SS1724332D		1			43A	yellow	02740	4317	09/26/2017	N
8 9208168	SS-74	992	SS1724332D		1			43A	orange	02740	4317	09/26/2017	N
9 9208169	SS-14	993	SS1724332D		1			43A	yellow	02740	4317	09/26/2017	N
10 9208170	RAP3F	996	SS1724332D		1			43A	clear	02740	4317	09/26/2017	N
11 9210929	O4001	805	SS1724332D		1			29A		02740	24604	09/27/2017	N
12 9210930	O4002	975	SS1724332D		1			29A	tan tint	02740	24604	09/27/2017	N
13 9210931	O4003	980	SS1724332D		1			29A	clear	02740	24604	09/27/2017	N
14 9210932	O4004	978	SS1724332D		1			29A		02740	24604	09/27/2017	N
15 9210933	O4005	972	SS1724332D		1			29A		02740	24604	09/27/2017	N
16 9210934	O4006	948	SS1724332D		1			29A		02740	24604	09/27/2017	N
17 9210935	O4007	975	SS1724332D		1			29A	tan tint	02740	24604	09/27/2017	N

Bench#	Bench#	Bench#										
Rack ID:		Work Station	14203	Micro Temp 100?	R-VAP ID	C	R-VAP ID	C	R-VAP ID	C		
Internal Standard		Balance #	25996		S-bath ID 20	88 C	S-bath ID	C	N-Evap	C	M-vap	C

172610028A

DF = Dilution Factor FV = Final Volume

Documented temps are NIST corrected.

Organic Extraction Batchlog Assigned to: 9213 Pamela Rothharpt Reviewed by: JWK9524 Start Date: 9/19/17 Start time: 9:05

17262001 Tech 1: PJR9213 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
5	9208998MS	39T01MS	99.53	SSMODX1733AH	.025	MSMODX1733X	.04	1ml	20	201a	
1	BLANKA	BLK262001	100	SSMODX1733AH	.025	—	—	↓	↓	↓	
2	LCSA	LCS262001	100	SSMODX1733AH	.025	MSMODX1733X	.04	↓	↓	↓	
3	LCSDA	LCSD262001	100	SSMODX1733AH	.025	MSMODX1733X	.04	↓	↓	↓	

Spike Solutions: Witness: M072616 57 Instrument: LM24960

MSMODX1733X PFAS 537 Native Spike

SSMODX1733AH PFAS 537 Modified Extraction/Surrogate Spik Sequence: 17SEP13MOD (17SEP21)(17SEP25)

Port#		Sample #	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV (uL)	IS Amt (uL)	BC	Comments	Analyses	Due Date	Prio
40	1	9208998	39T0	100.34	SSMODX1733AH	.025	1ml	20	201a	cloudy, sediment	10954	09/26/2017	N
9	2	9208999	39T0	100.36	SSMODX1733AH	.025	↓	↓	201a		10954	09/26/2017	N
8	3	9209000	39T0	99.94	SSMODX1733AH	.025	↓	↓	201a	light brown, Sediment	10954	09/26/2017	N
7	4	9209001	39T0	100.29	SSMODX1733AH	.025	↓	↓	201a		10954	09/26/2017	N
6	5	9210929	O400	100.05	SSMODX1733AH	.025	↓	↓	201a	light brown, Sediment	10954	09/27/2017	N
5	6	9210930	O400	99.68	SSMODX1733AH	.025	↓	↓	201a	light brown, Sediment	10954	09/27/2017	N
4	7	9210931	O400	100.07	SSMODX1733AH	.025	↓	↓	201a		10954	09/27/2017	N
12	8	9210932	O400	99.64	SSMODX1733AH	.025	↓	↓	201a	light brown, sediment	10954	09/27/2017	N
1	9	9210933	O400	100.49	SSMODX1733AH	.025	↓	↓	201a	light brown, sediment	10954	09/27/2017	N
2	10	9210934	O400	99.71	SSMODX1733AH	.025	↓	↓	201a		10954	09/27/2017	N
3	11	9210935	O400	100.11	SSMODX1733AH	.025	↓	↓	201a	dark brown, Sediment	10954	09/27/2017	N
4	12	9210936	O400	99.64	SSMODX1733AH	.025	↓	↓	201a		10954	09/27/2017	N

9/19/17 DDM 25 ug/g

Balance #	B629764122	SPE Manifold	4.7	N-evap	C

17262001

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	P1000-3
Internal Standard	IS1726233A
Methanol	DS096-US
Milli-Q H2O	~~2547809181733A~~ MOUSC A223
NH4OH:H2O	~~2547809181733B~~ 2547809181733A
NH4OH:MeOH	~~6370231-02~~ ③ 2547809181733B
SPE Cartridge #1	— → 6370231-02
SPE Cartridge #2	—
Sodium Thiosulfate	—
Syringe (IS)	IS1
Syringe (MS)	PFAS10
Syringe (SS)	PFAS9
Trizma	SLBT4699

③ PJR9213 9/26/17

Organic Extraction Batchlog Assigned to: 25478 Danielle McCully Reviewed by: DW 10262 Start Date: 9/26/17 Start time: 14:35

17269014

Tech 1: DDM25478 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
5	9210935MS	O4007MS	99.81	SSMODX1733AL	.025	MSMODX1733Z	.04	1ml	20	201b	
1	BLANKA	BLK269014	100	SSMODX1733AL	.025	—	—	↓	↓	—	
2	LCSA	LCS269014	100	SSMODX1733AL	.025	MSMODX1733Z	.04				
3	LCSDA	LCSD269014	100	SSMODX1733AL	.025	MSMODX1733Z	.04				

Spike Solutions: Witness: MM26157 Instrument: LM24960

MSMODX1733Z PFAS 537 Native Spike Sequence: MSEP B400 - MSEP28

SSMODX1733AL 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
4	1 9210935 R	O400	100.25	SSMODX1733AL	.025	1ml	20	201a		10954	09/27/2017	N

9/26/17 DDM25478

Balance #	B1029710H122	SPE Manifold	4	N-evap	C

17269014

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	P1000-1
Internal Standard	IS17270338
Methanol	DS096-US
Milli-Q H2O	HOUSE A723
NH4OH:H2O	25478092517338
NH4OH:MeOH	~~25478~~ ③ ③ 921309261733B DDM25478 9/26/17
SPE Cartridge #1	16370231-05
SPE Cartridge #2	—
Sodium Thiosulfate	—
Syringe (IS)	IS 1
Syringe (MS)	PFAS 10
Syringe (SS)	PFAS 9
Plasma	SLBT4699

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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	SC39163	SITE 00007	SITE 00007	TF1-MW-1004	Monitoring well	388157.15	184873.45	N6247016D9008	WE15	TETRA TECH, INC.	TF1-MW-1004-091217	Ground water	Normal (Regular)	12-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC39163	SITE 00007	SITE 00007	TF1-GT-115	Monitoring well	388171.81	184580.76	N6247016D9008	WE15	TETRA TECH, INC.	TF1-GT-115-091217	Ground water	Normal (Regular)	12-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC39163	SITE 00007	SITE 00007	TF1-GT-118	Monitoring well	388278.34	184828.81	N6247016D9008	WE15	TETRA TECH, INC.	TF1-GT-118-091217	Ground water	Normal (Regular)	12-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC39163	SITE 00007	SITE 00007	TF1-GT-130	Monitoring well	388884.19	184188.42	N6247016D9008	WE15	TETRA TECH, INC.	TF1-GT-130-091217	Ground water	Normal (Regular)	12-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC39163	SITE 00007	SITE 00007	TF1-GT-118	Monitoring well	388278.34	184828.81	N6247016D9008	WE15	TETRA TECH, INC.	TF1-GT-118-091217-D	Ground water	Field duplicate	12-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC39163							N6247016D9008	WE15	TETRA TECH, INC.	TF1-FRB-091217	Water for QC samples	Field Reagent Blank	12-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC39163	SITE 00007	SITE 00007	TF1-GZ-106	Monitoring well	388336.91	184294.03	N6247016D9008	WE15	TETRA TECH, INC.	TF1-GZ-106-091217	Ground water	Normal (Regular)	12-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC39163	SITE 00007	SITE 00007	TF1-GT-111	Monitoring well	387650.3	183942.9	N6247016D9008	WE15	TETRA TECH, INC.	TF1-GT-111-091217	Ground water	Normal (Regular)	12-Sep-17	537	Perfluoroalkyl Compounds