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NAVFAC
Naval Facilities Engineering Command

Groundwater Sample Results, Electronic Data Deliverable, Data Validation Report, and the Sample Location Report, SDG SC39266

Naval Station Newport
Newport, Rhode Island

August 2019

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

"1715887-BLK1","EPA 300.0","RES","1715887-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",
"1715887-BLK1","EPA 300.0","RES","1715887-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",
"1715887-BLK1","EPA 300.0","RES","1715887-BLK1","ESAI","16887-00-6","Chloride","0.100","mg/l","U","0.0994","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"5","5","0.100",
"1715887-BS1","EPA 300.0","RES","1715887-BS1","ESAI","14797-55-8","Nitrate as N","1.97","mg/l",,"0.007","MDL",,"TARGET","98",,"0.100","RDL","YES","2.00",,"5","5","0.100",
"1715887-BS1","EPA 300.0","RES","1715887-BS1","ESAI","14808-79-8","Sulfate as SO4","20.1","mg/l",,"0.798","MDL",,"TARGET","100",,"1.00","RDL","YES","20.0",,"5","5","1.00",
"1715887-BS1","EPA 300.0","RES","1715887-BS1","ESAI","16887-00-6","Chloride","20.0","mg/l",,"0.0994","MDL",,"TARGET","100",,"1.00","RDL","YES","20.0",,"5","5","0.100",
"1715887-SRM1","EPA 300.0","RES","1715887-SRM1","ESAI","14797-55-8","Nitrate as N","2.31","mg/l",,"0.007","MDL",,"TARGET","92",,"0.100","RDL","YES","2.50",,"5","5","0.100",
"1715887-SRM1","EPA 300.0","RES","1715887-SRM1","ESAI","14808-79-8","Sulfate as SO4","24.8","mg/l",,"0.798","MDL",,"TARGET","99",,"1.00","RDL","YES","25.0",,"5","5","1.00",
"1715887-SRM1","EPA 300.0","RES","1715887-SRM1","ESAI","16887-00-6","Chloride","24.4","mg/l",,"0.0994","MDL",,"TARGET","97",,"1.00","RDL","YES","25.0",,"5","5","0.100",
"1715906-BLK1","SM18-22 5210B","RES","1715906-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",
"1715906-BLK2","SM18-22 5210B","RES","1715906-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",
"1715906-BS1","SM18-22 5210B","RES","1715906-BS1","ESAI","NA","Biochemical Oxygen Demand (5-day)","171","mg/l",,"2.74","MDL",,"TARGET","86",,"100","RDL","YES","198",,"300","300","2.97",
"1715906-SRM1","SM18-22 5210B","RES","1715906-SRM1","ESAI","NA","Biochemical Oxygen Demand (5-day)","40.0","mg/l",,"2.74","MDL",,"TARGET","88",,"20.0","RDL","YES","45.6",,"300","300","2.97",
"1715906-SRM2","SM18-22 5210B","RES","1715906-SRM2","ESAI","NA","Biochemical Oxygen Demand (5-day)","35.0","mg/l",,"2.74","MDL",,"TARGET","77",,"20.0","RDL","YES","45.6",,"300","300","2.97",
"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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","&#65533;g/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","&#65533;g/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","&#65533;g/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","&#65533;g/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","&#65533;g/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","&#65533;g/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","&#65533;g/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","&#65533;g/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","&#65533;g/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","&#65533;g/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","&#65533;g/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","&#65533;g/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","&#65533;g/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","&#65533;g/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","&#65533;g/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","&#65533;g/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","&#65533;g/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","&#65533;g/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","&#65533;g/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","&#65533;g/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","&#65533;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","&#65533;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","&#65533;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","&#65533;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","&#65533;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","&#65533;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","&#65533;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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/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","µg/l",,"0.016","MDL",,"TARGET","85","4","0.020","RDL","YES","0.510",,"980","10","0.020",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","100-41-
4","Ethylbenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","100-42-
5","Styrene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","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",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","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",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","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",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","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",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","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",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","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",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","108-87-
2","Methylcyclohexane","2.0","µg/l","U","0.7","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","108-88-
3","Toluene","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","108-90-
7","Chlorobenzene","0.5","µg/l","U","0.2","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","110-82-
7","Cyclohexane","2.0","µg/l","U","0.8","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","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",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","124-48-
1","Dibromochloromethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","127-18-
4","Tetrachloroethene","1.0","µg/l","U","0.6","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","17060-07-0","1,2-Dichloroethane-
d4","51.0","µg/l",,"-99","NA",,"SUR","102",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","1868-53-
7","Dibromofluoromethane","50.4","µg/l",,"-99","NA",,"SUR","101",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","2037-26-5","Toluene-
d8","48.5","µg/l",,"-99","NA",,"SUR","97",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","3114-55-4","Chlorobenzene-
d5","50.0","µg/l",,"-99","NA",,"ISTD","92",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","3855-82-1","1,4-Dichlorobenzene-
d4","50.0","µg/l",,"-99","NA",,"ISTD","80",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","460-00-4","4-
Bromofluorobenzene","44.4","µg/l",,"-99","NA",,"SUR","89",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","462-06-
6","Fluorobenzene","50.0","µg/l",,"-99","NA",,"ISTD","94",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","67-64-
1","Acetone","2.0","µg/l","U","0.8","MDL",,"TARGET",,,"10.0","RDL","YES","-99",,"5","5","2.0",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","67-66-
3","Chloroform","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","71-43-
2","Benzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"1715994-BLK1","SW846 8260C","RES","1715994-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",

"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","74-83-
9","Bromomethane","2.0","µg/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","74-87-
3","Chloromethane","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","74-97-
5","Bromochloromethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","75-00-
3","Chloroethane","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","75-25-
2","Bromoform","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","75-27-
4","Bromodichloromethane","0.5","µg/l","U","0.4","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","79-01-
6","Trichloroethene","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-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",
"1715994-BLK1","SW846 8260C","RES","1715994-BLK1","ESAI","98-82-
8","Isopropylbenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","100-41-
4","Ethylbenzene","17.9","µg/l",,"-99","NA",,"TARGET","90",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","100-42-
5","Styrene","17.9","µg/l",,"-99","NA",,"TARGET","89",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","10061-01-5","cis-1,3-
Dichloropropene","19.2","µg/l",,"-99","NA",,"TARGET","96",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","10061-02-6","trans-1,3-

Dichloropropene","19.2","µg/l",,"-99","NA",,"TARGET","96",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","106-46-7","1,4-
Dichlorobenzene","18.8","µg/l",,"-99","NA",,"TARGET","94",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","106-93-4","1,2-Dibromoethane
(EDB)","20.3","µg/l",,"-99","NA",,"TARGET","101",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","107-06-2","1,2-
Dichloroethane","19.4","µg/l",,"-99","NA",,"TARGET","97",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","108-10-1","4-Methyl-2-pentanone
(MIBK)","20.0","µg/l",,"-99","NA",,"TARGET","100",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","108-87-
2","Methylcyclohexane","16.6","µg/l",,"-99","NA",,"TARGET","83",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","108-88-
3","Toluene","18.8","µg/l",,"-99","NA",,"TARGET","94",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","108-90-
7","Chlorobenzene","18.9","µg/l",,"-99","NA",,"TARGET","95",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","110-82-
7","Cyclohexane","17.3","µg/l",,"-99","NA",,"TARGET","87",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","120-82-1","1,2,4-
Trichlorobenzene","18.4","µg/l",,"-99","NA",,"TARGET","92",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","124-48-
1","Dibromochloromethane","19.4","µg/l",,"-99","NA",,"TARGET","97",,"-99","NA","YES","20.0",,"5","5","-99
",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","127-18-
4","Tetrachloroethene","18.4","µg/l",,"-99","NA",,"TARGET","92",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","156-59-2","cis-1,2-
Dichloroethene","17.5","µg/l",,"-99","NA",,"TARGET","87",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","156-60-5","trans-1,2-
Dichloroethene","16.8","µg/l",,"-99","NA",,"TARGET","84",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","1634-04-4","Methyl tert-butyl
ether","20.5","µg/l",,"-99","NA",,"TARGET","102",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","17060-07-0","1,2-Dichloroethane-
d4","48.7","µg/l",,"-99","NA",,"SUR","97",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","179601-23-1","m,p-
Xylene","17.7","µg/l",,"-99","NA",,"TARGET","88",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","1868-53-
7","Dibromofluoromethane","47.4","µg/l",,"-99","NA",,"SUR","95",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","2037-26-5","Toluene-
d8","50.5","µg/l",,"-99","NA",,"SUR","101",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","3114-55-4","Chlorobenzene-
d5","50.0","µg/l",,"-99","NA",,"ISTD","100",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","3855-82-1","1,4-Dichlorobenzene-
d4","50.0","µg/l",,"-99","NA",,"ISTD","98",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","460-00-4","4-
Bromofluorobenzene","51.6","µg/l",,"-99","NA",,"SUR","103",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","462-06-
6","Fluorobenzene","50.0","µg/l",,"-99","NA",,"ISTD","100",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","541-73-1","1,3-
Dichlorobenzene","19.0","µg/l",,"-99","NA",,"TARGET","95",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","56-23-5","Carbon
tetrachloride","18.4","µg/l",,"-99","NA",,"TARGET","92",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","591-78-6","2-Hexanone
(MBK)","20.3","µg/l",,"-99","NA",,"TARGET","101",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","67-64-
1","Acetone","18.7","µg/l",,"-99","NA",,"TARGET","93",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","67-66-
3","Chloroform","17.6","µg/l",,"-99","NA",,"TARGET","88",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","71-43-

2","Benzene","19.5","µg/l",,"-99","NA",,"TARGET","98",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","71-55-6","1,1,1-
Trichloroethane","18.5","µg/l",,"-99","NA",,"TARGET","93",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","74-83-
9","Bromomethane","17.4","µg/l",,"-99","NA",,"TARGET","87",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","74-87-
3","Chloromethane","16.2","µg/l",,"-99","NA",,"TARGET","81",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","74-97-
5","Bromochloromethane","18.2","µg/l",,"-99","NA",,"TARGET","91",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","75-00-
3","Chloroethane","18.4","µg/l",,"-99","NA",,"TARGET","92",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","75-01-4","Vinyl
chloride","17.7","µg/l",,"-99","NA",,"TARGET","88",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","75-09-2","Methylene
chloride","17.0","µg/l",,"-99","NA",,"TARGET","85",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","75-15-0","Carbon
disulfide","16.8","µg/l",,"-99","NA",,"TARGET","84",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","75-25-
2","Bromoform","19.4","µg/l",,"-99","NA",,"TARGET","97",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","75-27-
4","Bromodichloromethane","19.7","µg/l",,"-99","NA",,"TARGET","99",,"-99","NA","YES","20.0",,"5","5","-99"
,
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","75-34-3","1,1-
Dichloroethane","17.6","µg/l",,"-99","NA",,"TARGET","88",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","75-35-4","1,1-
Dichloroethene","16.9","µg/l",,"-99","NA",,"TARGET","85",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","75-69-4","Trichlorofluoromethane (Freon
11)","17.2","µg/l",,"-99","NA",,"TARGET","86",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","75-71-8","Dichlorodifluoromethane
(Freon12)","16.7","µg/l",,"-99","NA",,"TARGET","83",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane
(Freon 113)","16.5","µg/l",,"-99","NA",,"TARGET","82",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","78-87-5","1,2-
Dichloropropane","19.6","µg/l",,"-99","NA",,"TARGET","98",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","78-93-3","2-Butanone
(MEK)","20.4","µg/l",,"-99","NA",,"TARGET","102",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","79-00-5","1,1,2-
Trichloroethane","20.5","µg/l",,"-99","NA",,"TARGET","103",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","79-01-
6","Trichloroethene","18.6","µg/l",,"-99","NA",,"TARGET","93",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","79-20-9","Methyl
acetate","15.6","µg/l",,"-99","NA",,"TARGET","78",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","79-34-5","1,1,2,2-
Tetrachloroethane","20.9","µg/l",,"-99","NA",,"TARGET","105",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","87-61-6","1,2,3-
Trichlorobenzene","19.1","µg/l",,"-99","NA",,"TARGET","95",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","95-47-6","o-
Xylene","18.4","µg/l",,"-99","NA",,"TARGET","92",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","95-50-1","1,2-
Dichlorobenzene","20.1","µg/l",,"-99","NA",,"TARGET","100",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","96-12-8","1,2-Dibromo-3-
chloropropane","19.2","µg/l",,"-99","NA",,"TARGET","96",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BS1","SW846 8260C","RES","1715994-BS1","ESAI","98-82-
8","Isopropylbenzene","19.0","µg/l",,"-99","NA",,"TARGET","95",,"-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","100-41-
4","Ethylbenzene","20.9","µg/l",,"-99","NA",,"TARGET","104","15","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","100-42-

5","Styrene","20.9","µg/l",,"-99","NA",,"TARGET","104","16","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","10061-01-5","cis-1,3-
Dichloropropene","21.8","µg/l",,"-99","NA",,"TARGET","109","12","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","10061-02-6","trans-1,3-
Dichloropropene","21.6","µg/l",,"-99","NA",,"TARGET","108","12","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","106-46-7","1,4-
Dichlorobenzene","21.5","µg/l",,"-99","NA",,"TARGET","108","13","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","106-93-4","1,2-Dibromoethane
(EDB)","22.5","µg/l",,"-99","NA",,"TARGET","113","10","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","107-06-2","1,2-
Dichloroethane","21.3","µg/l",,"-99","NA",,"TARGET","106","9","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","108-10-1","4-Methyl-2-pentanone
(MIBK)","21.3","µg/l",,"-99","NA",,"TARGET","107","6","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","108-87-
2","Methylcyclohexane","20.6","µg/l",,"-99","NA",,"TARGET","103","22","-99","NA","YES","20.0",,"5","5","-9
9",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","108-88-
3","Toluene","21.4","µg/l",,"-99","NA",,"TARGET","107","13","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","108-90-
7","Chlorobenzene","21.8","µg/l",,"-99","NA",,"TARGET","109","14","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","110-82-
7","Cyclohexane","20.7","µg/l",,"-99","NA",,"TARGET","104","18","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","120-82-1","1,2,4-
Trichlorobenzene","21.9","µg/l",,"-99","NA",,"TARGET","110","17","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","124-48-
1","Dibromochloromethane","21.5","µg/l",,"-99","NA",,"TARGET","108","10","-99","NA","YES","20.0",,"5","5"
,"-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","127-18-
4","Tetrachloroethene","21.4","µg/l",,"-99","NA",,"TARGET","107","15","-99","NA","YES","20.0",,"5","5","-99
",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","156-59-2","cis-1,2-
Dichloroethene","20.0","µg/l",,"-99","NA",,"TARGET","100","13","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","156-60-5","trans-1,2-
Dichloroethene","20.1","µg/l",,"-99","NA",,"TARGET","100","18","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","1634-04-4","Methyl tert-butyl
ether","22.5","µg/l",,"-99","NA",,"TARGET","113","9","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","17060-07-0","1,2-Dichloroethane-
d4","49.0","µg/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","179601-23-1","m,p-
Xylene","20.8","µg/l",,"-99","NA",,"TARGET","104","16","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","1868-53-
7","Dibromofluoromethane","46.7","µg/l",,"-99","NA",,"SUR","93",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","2037-26-5","Toluene-
d8","51.2","µg/l",,"-99","NA",,"SUR","102",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","3114-55-4","Chlorobenzene-
d5","50.0","µg/l",,"-99","NA",,"ISTD","101",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","3855-82-1","1,4-Dichlorobenzene-
d4","50.0","µg/l",,"-99","NA",,"ISTD","98",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","460-00-4","4-
Bromofluorobenzene","51.1","µg/l",,"-99","NA",,"SUR","102",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","462-06-
6","Fluorobenzene","50.0","µg/l",,"-99","NA",,"ISTD","101",,"-99","NA","YES","50.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","541-73-1","1,3-
Dichlorobenzene","21.3","µg/l",,"-99","NA",,"TARGET","107","12","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","56-23-5","Carbon
tetrachloride","21.3","µg/l",,"-99","NA",,"TARGET","107","15","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","591-78-6","2-Hexanone

(MBK)","22.4","µg/l",,"-99","NA",,"TARGET","112","10","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","67-64-
1","Acetone","19.8","µg/l",,"-99","NA",,"TARGET","99","6","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","67-66-
3","Chloroform","20.0","µg/l",,"-99","NA",,"TARGET","100","13","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","71-43-
2","Benzene","22.4","µg/l",,"-99","NA",,"TARGET","112","14","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","71-55-6","1,1,1-
Trichloroethane","22.0","µg/l",,"-99","NA",,"TARGET","110","17","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","74-83-
9","Bromomethane","21.2","µg/l",,"-99","NA",,"TARGET","106","20","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","74-87-
3","Chloromethane","19.1","µg/l",,"-99","NA",,"TARGET","95","16","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","74-97-
5","Bromochloromethane","20.2","µg/l",,"-99","NA",,"TARGET","101","10","-99","NA","YES","20.0",,"5","5","
-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","75-00-
3","Chloroethane","20.3","µg/l",,"-99","NA",,"TARGET","102","10","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","75-01-4","Vinyl
chloride","20.0","µg/l",,"-99","NA",,"TARGET","100","12","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","75-09-2","Methylene
chloride","19.4","µg/l",,"-99","NA",,"TARGET","97","13","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","75-15-0","Carbon
disulfide","19.8","µg/l",,"-99","NA",,"TARGET","99","16","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","75-25-
2","Bromoform","21.1","µg/l",,"-99","NA",,"TARGET","105","8","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","75-27-
4","Bromodichloromethane","22.6","µg/l",,"-99","NA",,"TARGET","113","14","-99","NA","YES","20.0",,"5","5"
,"-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","75-34-3","1,1-
Dichloroethane","20.2","µg/l",,"-99","NA",,"TARGET","101","14","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","75-35-4","1,1-
Dichloroethene","19.9","µg/l",,"-99","NA",,"TARGET","100","16","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","75-69-4","Trichlorofluoromethane (Freon
11)","20.1","µg/l",,"-99","NA",,"TARGET","101","15","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","75-71-8","Dichlorodifluoromethane
(Freon12)","18.6","µg/l",,"-99","NA",,"TARGET","93","11","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane
(Freon 113)","19.3","µg/l",,"-99","NA",,"TARGET","96","16","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","78-87-5","1,2-
Dichloropropane","21.8","µg/l",,"-99","NA",,"TARGET","109","10","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","78-93-3","2-Butanone
(MEK)","23.1","µg/l",,"-99","NA",,"TARGET","116","13","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","79-00-5","1,1,2-
Trichloroethane","21.8","µg/l",,"-99","NA",,"TARGET","109","6","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","79-01-
6","Trichloroethene","21.5","µg/l",,"-99","NA",,"TARGET","108","15","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","79-20-9","Methyl
acetate","16.3","µg/l",,"-99","NA",,"TARGET","82","5","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","79-34-5","1,1,2,2-
Tetrachloroethane","22.4","µg/l",,"-99","NA",,"TARGET","112","7","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","87-61-6","1,2,3-
Trichlorobenzene","21.6","µg/l",,"-99","NA",,"TARGET","108","13","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","95-47-6","o-
Xylene","21.4","µg/l",,"-99","NA",,"TARGET","107","15","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","95-50-1","1,2-
Dichlorobenzene","22.9","µg/l",,"-99","NA",,"TARGET","114","13","-99","NA","YES","20.0",,"5","5","-99",

"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","96-12-8","1,2-Dibromo-3-chloropropane","20.8","µg/l",,"-99","NA",,"TARGET","104","8","-99","NA","YES","20.0",,"5","5","-99",
"1715994-BSD1","SW846 8260C","RES","1715994-BSD1","ESAI","98-82-8","Isopropylbenzene","21.9","µg/l",,"-99","NA",,"TARGET","110","14","-99","NA","YES","20.0",,"5","5","-99"
,
"1716073-BLK1","Mod EPA 3C/SOP RSK-175","RES","1716073-BLK1","ESAI","74-82-8","Methane","2.20","µg/l","U","2.16","MDL",,"TARGET",,,"2.20","RDL","YES","-99",,"10","10","2.20",
"1716073-BLK1","Mod EPA 3C/SOP RSK-175","RES","1716073-BLK1","ESAI","74-84-0","Ethane","5.00","µg/l","U","3.48","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"10","10","5.00",
"1716073-BS1","Mod EPA 3C/SOP RSK-175","RES","1716073-BS1","ESAI","74-82-8","Methane","445","mg/l",,"-99","NA",,"TARGET","89",,"-99","NA","YES","500",,"10","10","-99",
"1716073-BS1","Mod EPA 3C/SOP RSK-175","RES","1716073-BS1","ESAI","74-84-0","Ethane","491","mg/l",,"-99","NA",,"TARGET","98",,"-99","NA","YES","500",,"10","10","-99",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","1146-65-2","Naphthalene-d8","40.0","µg/ml",,"-99","NA",,"ISTD","106",,"-99","NA","YES","40.0",,"980","1","-99",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","120-12-7","Anthracene","1.02","µg/l","U","0.620","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","129-00-0","Pyrene","1.02","µg/l","U","0.622","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","15067-26-2","Acenaphthene-d10","40.0","µg/ml",,"-99","NA",,"ISTD","102",,"-99","NA","YES","40.0",,"980","1","-99",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","1517-22-2","Phenanthrene-d10","40.0","µg/ml",,"-99","NA",,"ISTD","100",,"-99","NA","YES","40.0",,"980","1","-99",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","1520-96-3","Perylene-d12","40.0","µg/ml",,"-99","NA",,"ISTD","103",,"-99","NA","YES","40.0",,"980","1","-99",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","1718-51-0","Terphenyl-dl4","35.2","µg/l",,"-99","NA",,"SUR","69",,"-99","NA","YES","51.0",,"980","1","-99",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","1719-03-5","Chrysene-d12","40.0","µg/ml",,"-99","NA",,"ISTD","104",,"-99","NA","YES","40.0",,"980","1","-99",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","191-24-2","Benzo (g,h,i) perylene","1.02","µg/l","U","0.541","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","193-39-5","Indeno (1,2,3-cd) pyrene","1.02","µg/l","U","0.592","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","205-99-2","Benzo (b) fluoranthene","1.02","µg/l","U","0.446","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","206-44-0","Fluoranthene","1.02","µg/l","U","0.651","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","207-08-9","Benzo (k) fluoranthene","1.02","µg/l","U","0.490","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","208-96-8","Acenaphthylene","1.02","µg/l","U","0.697","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02
",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","218-01-9","Chrysene","1.02","µg/l","U","0.543","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","321-60-8","2-Fluorobiphenyl","27.3","µg/l",,"-99","NA",,"SUR","53",,"-99","NA","YES","51.0",,"980","1","-99",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","4165-60-0","Nitrobenzene-d5","27.7","µg/l",,"-99","NA",,"SUR","54",,"-99","NA","YES","51.0",,"980","1","-99",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","50-32-8","Benzo (a) pyrene","1.02","µg/l","U","0.573","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","53-70-3","Dibenzo (a,h) anthracene","1.02","µg/l","U","0.459","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","56-55-3","Benzo (a) anthracene","1.02","µg/l","U","0.547","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","83-32-9","Acenaphthene","1.02","µg/l","U","0.705","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","85-01-

8","Phenanthrene","1.02","µg/l","U","0.598","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","86-73-
7","Fluorene","1.02","µg/l","U","0.624","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","90-12-0","1-
Methylnaphthalene","1.02","µg/l","U","0.748","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02"
,
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","91-20-
3","Naphthalene","1.02","µg/l","U","0.699","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02",
"1716100-BLK1","SW846 8270D","RES","1716100-BLK1","ESAI","91-57-6","2-
Methylnaphthalene","1.02","µg/l","U","0.586","MDL",,"TARGET",,,"5.10","RDL","YES","-99",,"980","1","1.02"
,
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","1146-65-2","Naphthalene-
d8","40.0","µg/ml",,"-99","NA",,"ISTD","100",,"-99","NA","YES","40.0",,"990","1","-99",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","120-12-
7","Anthracene","28.6","µg/l",,"0.614","MDL",,"TARGET","57",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","129-00-
0","Pyrene","28.9","µg/l",,"0.616","MDL",,"TARGET","57",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","15067-26-2","Acenaphthene-
d10","40.0","µg/ml",,"-99","NA",,"ISTD","100",,"-99","NA","YES","40.0",,"990","1","-99",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","1517-22-2","Phenanthrene-
d10","40.0","µg/ml",,"-99","NA",,"ISTD","98",,"-99","NA","YES","40.0",,"990","1","-99",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","1520-96-3","Perylene-
d12","40.0","µg/ml",,"-99","NA",,"ISTD","98",,"-99","NA","YES","40.0",,"990","1","-99",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","1718-51-0","Terphenyl-
dl4","34.3","µg/l",,"-99","NA",,"SUR","68",,"-99","NA","YES","50.5",,"990","1","-99",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","1719-03-5","Chrysene-
d12","40.0","µg/ml",,"-99","NA",,"ISTD","104",,"-99","NA","YES","40.0",,"990","1","-99",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","191-24-2","Benzo (g,h,i)
perylene","29.9","µg/l",,"0.535","MDL",,"TARGET","59",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","193-39-5","Indeno (1,2,3-cd)
pyrene","32.1","µg/l",,"0.586","MDL",,"TARGET","64",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","205-99-2","Benzo (b)
fluoranthene","30.5","µg/l",,"0.441","MDL",,"TARGET","60",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","206-44-
0","Fluoranthene","29.7","µg/l",,"0.644","MDL",,"TARGET","59",,"5.05","RDL","YES","50.5",,"990","1","1.01"
,
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","207-08-9","Benzo (k)
fluoranthene","32.6","µg/l",,"0.485","MDL",,"TARGET","65",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","208-96-
8","Acenaphthylene","26.7","µg/l",,"0.690","MDL",,"TARGET","53",,"5.05","RDL","YES","50.5",,"990","1","1.
01",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","218-01-
9","Chrysene","29.2","µg/l","QC2","0.537","MDL",,"TARGET","58",,"5.05","RDL","YES","50.5",,"990","1","1.0
1",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","321-60-8","2-
Fluorobiphenyl","28.6","µg/l",,"-99","NA",,"SUR","57",,"-99","NA","YES","50.5",,"990","1","-99",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","4165-60-0","Nitrobenzene-
d5","26.1","µg/l",,"-99","NA",,"SUR","52",,"-99","NA","YES","50.5",,"990","1","-99",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","50-32-8","Benzo (a)
pyrene","29.9","µg/l",,"0.568","MDL",,"TARGET","59",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","53-70-3","Dibenzo (a,h)
anthracene","33.2","µg/l",,"0.455","MDL",,"TARGET","66",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","56-55-3","Benzo (a)
anthracene","29.6","µg/l",,"0.541","MDL",,"TARGET","59",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","83-32-
9","Acenaphthene","25.8","µg/l",,"0.698","MDL",,"TARGET","51",,"5.05","RDL","YES","50.5",,"990","1","1.01
",

"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","85-01-
8","Phenanthrene","27.4","µg/l","QC2","0.592","MDL",,"TARGET","54",,"5.05","RDL","YES","50.5",,"990","1"
,"1.01",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","86-73-
7","Fluorene","25.2","µg/l","QC2","0.618","MDL",,"TARGET","50",,"5.05","RDL","YES","50.5",,"990","1","1.0
1",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","90-12-0","1-
Methylnaphthalene","28.0","µg/l",,"0.740","MDL",,"TARGET","55",,"5.05","RDL","YES","50.5",,"990","1","1.0
1",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","91-20-
3","Naphthalene","25.0","µg/l",,"0.692","MDL",,"TARGET","49",,"5.05","RDL","YES","50.5",,"990","1","1.01",
"1716100-BS1","SW846 8270D","RES","1716100-BS1","ESAI","91-57-6","2-
Methylnaphthalene","30.6","µg/l",,"0.580","MDL",,"TARGET","61",,"5.05","RDL","YES","50.5",,"990","1","1.0
1",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","1146-65-2","Naphthalene-
d8","40.0","µg/ml",,"-99","NA",,"ISTD","100",,"-99","NA","YES","40.0",,"990","1","-99",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","120-12-
7","Anthracene","26.5","µg/l","QM9","0.614","MDL",,"TARGET","52","8","5.05","RDL","YES","50.5",,"990","1
","1.01",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","129-00-
0","Pyrene","23.7","µg/l","QM9","0.616","MDL",,"TARGET","47","20","5.05","RDL","YES","50.5",,"990","1","1
.01",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","15067-26-2","Acenaphthene-
d10","40.0","µg/ml",,"-99","NA",,"ISTD","105",,"-99","NA","YES","40.0",,"990","1","-99",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","1517-22-2","Phenanthrene-
d10","40.0","µg/ml",,"-99","NA",,"ISTD","103",,"-99","NA","YES","40.0",,"990","1","-99",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","1520-96-3","Perylene-
d12","40.0","µg/ml",,"-99","NA",,"ISTD","114",,"-99","NA","YES","40.0",,"990","1","-99",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","1718-51-0","Terphenyl-
dl4","29.8","µg/l",,"-99","NA",,"SUR","59",,"-99","NA","YES","50.5",,"990","1","-99",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","1719-03-5","Chrysene-
d12","40.0","µg/ml",,"-99","NA",,"ISTD","113",,"-99","NA","YES","40.0",,"990","1","-99",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","191-24-2","Benzo (g,h,i)
perylene","24.7","µg/l","QM9","0.535","MDL",,"TARGET","49","19","5.05","RDL","YES","50.5",,"990","1","1.0
1",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","193-39-5","Indeno (1,2,3-cd)
pyrene","26.9","µg/l",,"0.586","MDL",,"TARGET","53","18","5.05","RDL","YES","50.5",,"990","1","1.01",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","205-99-2","Benzo (b)
fluoranthene","26.1","µg/l","QM9","0.441","MDL",,"TARGET","52","16","5.05","RDL","YES","50.5",,"990","1",
"1.01",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","206-44-
0","Fluoranthene","25.0","µg/l","QM9","0.644","MDL",,"TARGET","50","17","5.05","RDL","YES","50.5",,"990"
,"1","1.01",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","207-08-9","Benzo (k)
fluoranthene","29.3","µg/l",,"0.485","MDL",,"TARGET","58","11","5.05","RDL","YES","50.5",,"990","1","1.01"
,
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","208-96-
8","Acenaphthylene","24.3","µg/l",,"0.690","MDL",,"TARGET","48","9","5.05","RDL","YES","50.5",,"990","1",
"1.01",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","218-01-
9","Chrysene","26.7","µg/l","QC2","0.537","MDL",,"TARGET","53","9","5.05","RDL","YES","50.5",,"990","1","
1.01",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","321-60-8","2-
Fluorobiphenyl","26.1","µg/l",,"-99","NA",,"SUR","52",,"-99","NA","YES","50.5",,"990","1","-99",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","4165-60-0","Nitrobenzene-
d5","24.1","µg/l",,"-99","NA",,"SUR","48",,"-99","NA","YES","50.5",,"990","1","-99",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","50-32-8","Benzo (a)

pyrene","27.6","µg/l",,"0.568","MDL",,"TARGET","55","8","5.05","RDL","YES","50.5",,"990","1","1.01",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","53-70-3","Dibenzo (a,h)
anthracene","27.7","µg/l",,"0.455","MDL",,"TARGET","55","18","5.05","RDL","YES","50.5",,"990","1","1.01",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","56-55-3","Benzo (a)
anthracene","26.9","µg/l","QM9","0.541","MDL",,"TARGET","53","9","5.05","RDL","YES","50.5",,"990","1","1.
01",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","83-32-
9","Acenaphthene","24.7","µg/l",,"0.698","MDL",,"TARGET","49","5","5.05","RDL","YES","50.5",,"990","1","1
.01",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","85-01-
8","Phenanthrene","25.1","µg/l","QC2","0.592","MDL",,"TARGET","50","9","5.05","RDL","YES","50.5",,"990",
"1","1.01",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","86-73-
7","Fluorene","25.1","µg/l","QC2","0.618","MDL",,"TARGET","50","0.04","5.05","RDL","YES","50.5",,"990","1
","1.01",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","90-12-0","1-
Methylnaphthalene","26.1","µg/l",,"0.740","MDL",,"TARGET","52","7","5.05","RDL","YES","50.5",,"990","1","
1.01",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","91-20-
3","Naphthalene","22.5","µg/l",,"0.692","MDL",,"TARGET","45","10","5.05","RDL","YES","50.5",,"990","1","1.
01",
"1716100-BSD1","SW846 8270D","RES","1716100-BSD1","ESAI","91-57-6","2-
Methylnaphthalene","30.0","µg/l",,"0.580","MDL",,"TARGET","59","2","5.05","RDL","YES","50.5",,"990","1","
1.01",
"1716132-BLK1","Mod EPA 3C/SOP RSK-175","RES","1716132-BLK1","ESAI","74-82-
8","Methane","2.20","µg/l","U","2.16","MDL",,"TARGET",,,"2.20","RDL","YES","-99",,"10","10","2.20",
"1716132-BLK1","Mod EPA 3C/SOP RSK-175","RES","1716132-BLK1","ESAI","74-84-
0","Ethane","5.00","µg/l","U","3.48","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"10","10","5.00",
"1716132-BS1","Mod EPA 3C/SOP RSK-175","RES","1716132-BS1","ESAI","74-82-
8","Methane","495","mg/l",,"-99","NA",,"TARGET","99",,"-99","NA","YES","500",,"10","10","-99",
"1716132-BS1","Mod EPA 3C/SOP RSK-175","RES","1716132-BS1","ESAI","74-84-
0","Ethane","508","mg/l",,"-99","NA",,"TARGET","102",,"-99","NA","YES","500",,"10","10","-99",
"1716298-BLK1","SM2320B (97, 11)","RES","1716298-BLK1","ESAI","NA","Total Alkalinity","3.00","mg/l
CaCO3","U","1.05","MDL",,"TARGET",,,"4.00","RDL","YES","-99",,"50","50","3.00",
"1716298-BLK2","SM2320B (97, 11)","RES","1716298-BLK2","ESAI","NA","Total Alkalinity","3.00","mg/l
CaCO3","U","1.05","MDL",,"TARGET",,,"4.00","RDL","YES","-99",,"50","50","3.00",
"1716298-BLK3","SM2320B (97, 11)","RES","1716298-BLK3","ESAI","NA","Total Alkalinity","3.00","mg/l
CaCO3","U","1.05","MDL",,"TARGET",,,"4.00","RDL","YES","-99",,"50","50","3.00",
"1716298-BLK4","SM2320B (97, 11)","RES","1716298-BLK4","ESAI","NA","Total Alkalinity","3.00","mg/l
CaCO3","U","1.05","MDL",,"TARGET",,,"4.00","RDL","YES","-99",,"50","50","3.00",
"1716298-BS1","SM2320B (97, 11)","RES","1716298-BS1","ESAI","NA","Total Alkalinity","53.7","mg/l
CaCO3",,"1.05","MDL",,"TARGET","107",,"4.00","RDL","YES","50.0",,"50","50","3.00",
"1716298-BS2","SM2320B (97, 11)","RES","1716298-BS2","ESAI","NA","Total Alkalinity","50.9","mg/l
CaCO3",,"1.05","MDL",,"TARGET","102",,"4.00","RDL","YES","50.0",,"50","50","3.00",
"1716298-BS3","SM2320B (97, 11)","RES","1716298-BS3","ESAI","NA","Total Alkalinity","51.5","mg/l
CaCO3",,"1.05","MDL",,"TARGET","103",,"4.00","RDL","YES","50.0",,"50","50","3.00",
"1716298-BS4","SM2320B (97, 11)","RES","1716298-BS4","ESAI","NA","Total Alkalinity","50.3","mg/l
CaCO3",,"1.05","MDL",,"TARGET","101",,"4.00","RDL","YES","50.0",,"50","50","3.00",
"1716298-SRM1","SM2320B (97, 11)","RES","1716298-SRM1","ESAI","NA","Total Alkalinity","125","mg/l
CaCO3",,"3.50","MDL",,"TARGET","101",,"13.3","RDL","YES","124",,"15","50","10.0",
"1716320-BLK1","SW846 6010C","RES","1716320-BLK1","ESAI","7429-90-
5","Aluminum","0.0500","mg/l","U","0.0206","MDL",,"TARGET",,,"0.0500","RDL","YES","-99",,"50","50","0.05
00",
"1716320-BLK1","SW846 6010C","RES","1716320-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",
"1716320-BLK1","SW846 6010C","RES","1716320-BLK1","ESAI","7440-23-

5","Sodium","0.142","mg/l","J","0.0785","MDL",,"TARGET",,,"0.500","RDL","YES","-99",,"50","50","0.250",
"1716320-BLK1","SW846 6010C","RES","1716320-BLK1","ESAI","7440-70-
2","Calcium","0.0227","mg/l","J","0.0142","MDL",,"TARGET",,,"0.200","RDL","YES","-99",,"50","50","0.0500",
"1716320-BS1","SW846 6010C","RES","1716320-BS1","ESAI","7429-90-
5","Aluminum","2.65","mg/l",,"0.0206","MDL",,"TARGET","106",,"0.0500","RDL","YES","2.50",,"50","50","0.0
500",
"1716320-BS1","SW846 6010C","RES","1716320-BS1","ESAI","7439-95-
4","Magnesium","2.46","mg/l",,"0.0088","MDL",,"TARGET","99",,"0.0200","RDL","YES","2.50",,"50","50","0.0
100",
"1716320-BS1","SW846 6010C","RES","1716320-BS1","ESAI","7440-23-
5","Sodium","11.8","mg/l",,"0.0785","MDL",,"TARGET","95",,"0.500","RDL","YES","12.5",,"50","50","0.250",
"1716320-BS1","SW846 6010C","RES","1716320-BS1","ESAI","7440-70-
2","Calcium","13.1","mg/l",,"0.0142","MDL",,"TARGET","105",,"0.200","RDL","YES","12.5",,"50","50","0.0500
",
"1716320-BSD1","SW846 6010C","RES","1716320-BSD1","ESAI","7429-90-
5","Aluminum","2.59","mg/l",,"0.0206","MDL",,"TARGET","104","2","0.0500","RDL","YES","2.50",,"50","50","
0.0500",
"1716320-BSD1","SW846 6010C","RES","1716320-BSD1","ESAI","7439-95-
4","Magnesium","2.54","mg/l",,"0.0088","MDL",,"TARGET","102","3","0.0200","RDL","YES","2.50",,"50","50",
"0.0100",
"1716320-BSD1","SW846 6010C","RES","1716320-BSD1","ESAI","7440-23-
5","Sodium","11.9","mg/l",,"0.0785","MDL",,"TARGET","95","0.7","0.500","RDL","YES","12.5",,"50","50","0.2
50",
"1716320-BSD1","SW846 6010C","RES","1716320-BSD1","ESAI","7440-70-
2","Calcium","13.2","mg/l",,"0.0142","MDL",,"TARGET","106","0.8","0.200","RDL","YES","12.5",,"50","50","0.
0500",
"1716321-BLK1","EPA 245.1/7470A","RES","1716321-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",
"1716321-BS1","EPA 245.1/7470A","RES","1716321-BS1","ESAI","7439-97-
6","Mercury","0.00439","mg/l",,"0.00013","MDL",,"TARGET","88",,"0.00020","RDL","YES","0.00500",,"20","20
","0.00020",
"1716423-BLK1","SM5310B (00, 11)","RES","1716423-BLK1","ESAI","NA","Total Organic
Carbon","0.500","mg/l","U","0.238","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"40","40","0.500",
"1716423-BS1","SM5310B (00, 11)","RES","1716423-BS1","ESAI","NA","Total Organic
Carbon","13.8","mg/l",,"0.238","MDL",,"TARGET","92",,"1.00","RDL","YES","15.0",,"40","40","0.500",
"1716423-CCB1","SM5310B (00, 11)","RES","1716423-CCB1","ESAI","NA","Total Organic
Carbon","0.168","mg/l",,"-99","NA",,"TARGET",,,"-99","NA","YES","-99",,"40","40","-99",
"1716423-CCB2","SM5310B (00, 11)","RES","1716423-CCB2","ESAI","NA","Total Organic
Carbon","0.221","mg/l",,"-99","NA",,"TARGET",,,"-99","NA","YES","-99",,"40","40","-99",
"1716423-CCB3","SM5310B (00, 11)","RES","1716423-CCB3","ESAI","NA","Total Organic
Carbon","0.292","mg/l","J","-99","NA",,"TARGET",,,"-99","NA","YES","-99",,"40","40","-99",
"1716423-CCB4","SM5310B (00, 11)","RES","1716423-CCB4","ESAI","NA","Total Organic
Carbon","0.152","mg/l",,"-99","NA",,"TARGET",,,"-99","NA","YES","-99",,"40","40","-99",
"1716423-CCV1","SM5310B (00, 11)","RES","1716423-CCV1","ESAI","NA","Total Organic
Carbon","14.0","mg/l",,"0.238","MDL",,"TARGET","93",,"1.00","RDL","YES","15.0",,"40","40","0.500",
"1716423-CCV2","SM5310B (00, 11)","RES","1716423-CCV2","ESAI","NA","Total Organic
Carbon","14.4","mg/l",,"0.238","MDL",,"TARGET","96",,"1.00","RDL","YES","15.0",,"40","40","0.500",
"1716423-CCV3","SM5310B (00, 11)","RES","1716423-CCV3","ESAI","NA","Total Organic
Carbon","14.3","mg/l",,"0.238","MDL",,"TARGET","96",,"1.00","RDL","YES","15.0",,"40","40","0.500",
"1716423-CCV4","SM5310B (00, 11)","RES","1716423-CCV4","ESAI","NA","Total Organic
Carbon","14.2","mg/l",,"0.238","MDL",,"TARGET","94",,"1.00","RDL","YES","15.0",,"40","40","0.500",
"1716423-SRM1","SM5310B (00, 11)","RES","1716423-SRM1","ESAI","NA","Total Organic
Carbon","14.4","mg/l",,"0.238","MDL",,"TARGET","99",,"1.00","RDL","YES","14.6",,"40","40","0.500",
"1716544-BLK1","SW846 6010C","RES","1716544-BLK1","ESAI","7439-89-
6","Iron","0.0300","mg/l","U","0.0089","MDL",,"TARGET",,,"0.0300","RDL","YES","-99",,"50","50","0.0300",
"1716544-BLK1","SW846 6010C","RES","1716544-BLK1","ESAI","7440-09-

7","Potassium","0.250","mg/l","U","0.120","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"50","50","0.250",
"1716544-BS1","SW846 6010C","RES","1716544-BS1","ESAI","7439-89-
6","Iron","2.65","mg/l",,"0.0089","MDL",,"TARGET","106",,"0.0300","RDL","YES","2.50",,"50","50","0.0300",
"1716544-BS1","SW846 6010C","RES","1716544-BS1","ESAI","7440-09-
7","Potassium","23.8","mg/l",,"0.120","MDL",,"TARGET","95",,"1.00","RDL","YES","25.0",,"50","50","0.250",
"1716544-BSD1","SW846 6010C","RES","1716544-BSD1","ESAI","7439-89-
6","Iron","2.68","mg/l",,"0.0089","MDL",,"TARGET","107","1","0.0300","RDL","YES","2.50",,"50","50","0.0300
",
"1716544-BSD1","SW846 6010C","RES","1716544-BSD1","ESAI","7440-09-
7","Potassium","24.1","mg/l",,"0.120","MDL",,"TARGET","97","1","1.00","RDL","YES","25.0",,"50","50","0.250
",
"Grab-WILLH-091417","EPA 200/6000 methods","RES","SC39266-
02","ESAI","NA","Preservation","0","N/A",,"-99","NA",,"TARGET",,,"-99","NA","YES","-99",,"1","1","-99","Field
Preserved; pH<2 confirmed"
"Grab-WILLH-091417","EPA 245.1/7470A","RES","SC39266-02","ESAI","7439-97-
6","Mercury","0.00020","mg/l","U","0.00013","MDL",,"TARGET",,,"0.00020","RDL","YES","-99",,"20","20","0.0
0020",
"Grab-WILLH-091417","EPA 300.0","RES","SC39266-02","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",
"Grab-WILLH-091417","EPA 300.0","RES","SC39266-02","ESAI","14808-79-8","Sulfate as
SO4","9.12","mg/l",,"0.798","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"5","5","1.00",
"Grab-WILLH-091417","EPA 300.0","RES","SC39266-02","ESAI","16887-00-
6","Chloride","29.9","mg/l",,"0.0994","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"5","5","0.100",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","1763-23-1","Perfluoro-
octanesulfonate","12","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","1763-23-1L","13C8-
PFOS","35","ng/l",,"-99","NA",,"SUR","74",,"-99","NA","YES","48",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","2058-94-8","Perfluoroundecanoic
acid","0","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","2058-94-8L","13C7-
PFUnDA","33","ng/l",,"-99","NA",,"SUR","66",,"-99","NA","YES","50",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","2706-90-3","Perfluoropentanoic
Acid","94","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","2706-90-3L","13C5-
PFPeA","53","ng/l",,"-99","NA",,"SUR","106",,"-99","NA","YES","50",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","307-24-4","Perfluorohexanoic
acid","97","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","307-24-4L","13C5-
PFHxA","31","ng/l",,"-99","NA",,"SUR","62",,"-99","NA","YES","50",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","307-55-1","Perfluorododecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","307-55-1L","13C2-
PFDoDA","33","ng/l",,"-99","NA",,"SUR","67",,"-99","NA","YES","50",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","335-67-1","Perfluorooctanoic
acid","43","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","335-67-1L","13C8-
PFOA","36","ng/l",,"-99","NA",,"SUR","72",,"-99","NA","YES","50",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","335-76-2","Perfluorodecanoic
acid","0.8","ng/l","Ja","0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","335-76-2L","13C6-
PFDA","34","ng/l",,"-99","NA",,"SUR","69",,"-99","NA","YES","50",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","335-77-
3","Perfluorodecanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","355-46-
4","Perfluorohexanesulfonate","44","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","355-46-4L","13C3-
PFHxS","33","ng/l",,"-99","NA",,"SUR","71",,"-99","NA","YES","47",,,,"-99",

"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","375-22-4","Perfluorobutanoic Acid","31","ng/l",,"3","MDL",,"TARGET",,,"10","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","375-22-4L","13C4-PFBA","39","ng/l",,"-99","NA",,"SUR","79",,"-99","NA","YES","50",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","375-73-5","Perfluorobutanesulfonate","16","ng/l",,"0.8","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","375-73-5L","13C3-PFBS","60","ng/l",,"-99","NA",,"SUR","129",,"-99","NA","YES","46",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","375-85-9","Perfluoroheptanoic acid","27","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","375-85-9L","13C4-PFHpA","37","ng/l",,"-99","NA",,"SUR","75",,"-99","NA","YES","50",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","375-92-8","Perfluoroheptanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","375-95-1","Perfluorononanoic acid","3","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","375-95-1L","13C9-PFNA","43","ng/l",,"-99","NA",,"SUR","86",,"-99","NA","YES","50",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","376-06-7","Perfluorotetradecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","376-06-7L","13C2-PFTeDA","29","ng/l",,"-99","NA",,"SUR","59",,"-99","NA","YES","50",,,,"-99",
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","72629-94-8","Perfluorotridecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","754-91-6","PFOSA","0","ng/l",,"3","MDL",,"TARGET",,,"9","RDL","YES","-99",,,,"-99","<"
"Grab-WILLH-091417","EPA 537 Modified","RES","SC39266-02","ESAI","754-91-6L","13C8-PFOSA","24","ng/l",,"-99","NA",,"SUR","48",,"-99","NA","YES","50",,,,"-99",
"Grab-WILLH-091417","Mod EPA 3C/SOP RSK-175","DL10","SC39266-02RE1","ESAI","74-82-8","Methane","3330","µg/l","D","21.6","MDL",,"TARGET",,,"22.0","RDL","YES","-99",,"10","10","22.0",
"Grab-WILLH-091417","Mod EPA 3C/SOP RSK-175","DL10","SC39266-02RE1","ESAI","74-84-0","Ethane","50.0","µg/l","U, D","34.8","MDL",,"TARGET",,,"50.0","RDL","YES","-99",,"10","10","50.0",
"Grab-WILLH-091417","Mod EPA 3C/SOP RSK-175","RES","SC39266-02","ESAI","74-82-8","Methane","1230","µg/l","E","2.16","MDL",,"TARGET",,,"2.20","RDL","YES","-99",,"10","10","2.20",
"Grab-WILLH-091417","Mod EPA 3C/SOP RSK-175","RES","SC39266-02","ESAI","74-84-0","Ethane","5.00","µg/l","U","3.48","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"10","10","5.00",
"Grab-WILLH-091417","SM18-22 5210B","RES","SC39266-02","ESAI","NA","Biochemical Oxygen Demand (5-day)","21.0","mg/l",,"2.74","MDL",,"TARGET",,,"3.00","RDL","YES","-99",,"300","300","2.97",
"Grab-WILLH-091417","SM2320B (97, 11)","RES","SC39266-02","ESAI","NA","Total Alkalinity","132","mg/l CaCO3",,"1.05","MDL",,"TARGET",,,"4.00","RDL","YES","-99",,"50","50","3.00",
"Grab-WILLH-091417","SM5310B (00, 11)","RES","SC39266-02","ESAI","NA","Total Organic Carbon","20.0","mg/l",,"0.238","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"40","40","0.500",
"Grab-WILLH-091417","SW846 6010C","RES","SC39266-02","ESAI","7429-90-5","Aluminum","0.686","mg/l",,"0.0206","MDL",,"TARGET",,,"0.0500","RDL","YES","-99",,"50","50","0.0500",
"Grab-WILLH-091417","SW846 6010C","RES","SC39266-02","ESAI","7439-89-6","Iron","101","mg/l",,"0.0089","MDL",,"TARGET",,,"0.0300","RDL","YES","-99",,"50","50","0.0300",
"Grab-WILLH-091417","SW846 6010C","RES","SC39266-02","ESAI","7439-95-4","Magnesium","6.06","mg/l",,"0.0088","MDL",,"TARGET",,,"0.0200","RDL","YES","-99",,"50","50","0.0100",
"Grab-WILLH-091417","SW846 6010C","RES","SC39266-02","ESAI","7440-09-7","Potassium","4.93","mg/l",,"0.120","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"50","50","0.250",
"Grab-WILLH-091417","SW846 6010C","RES","SC39266-02","ESAI","7440-23-5","Sodium","13.8","mg/l",,"0.0785","MDL",,"TARGET",,,"0.500","RDL","YES","-99",,"50","50","0.250",
"Grab-WILLH-091417","SW846 6010C","RES","SC39266-02","ESAI","7440-70-2","Calcium","42.2","mg/l",,"0.0142","MDL",,"TARGET",,,"0.200","RDL","YES","-99",,"50","50","0.0500",
"Grab-WILLH-091417","SW-846 6020A","DL5","SC39266-02","ESAI","7439-96-5","Manganese","7.10","mg/l",,"0.0045","MDL",,"TARGET",,,"0.0200","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","SW-846 6020A","RES","SC39266-02","ESAI","7439-92-

1","Lead","0.0033","mg/l",,"0.00011","MDL",,"TARGET",,,"0.0020","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","SW-846 6020A","RES","SC39266-02","ESAI","7439-98-
7","Molybdenum","0.0036","mg/l",,"0.00025","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","SW-846 6020A","RES","SC39266-02","ESAI","7440-02-
0","Nickel","0.0109","mg/l",,"0.0010","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","SW-846 6020A","RES","SC39266-02","ESAI","7440-22-
4","Silver","0","mg/l",,"0.00015","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"Grab-WILLH-091417","SW-846 6020A","RES","SC39266-02","ESAI","7440-28-
0","Thallium","0","mg/l",,"0.00012","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"Grab-WILLH-091417","SW-846 6020A","RES","SC39266-02","ESAI","7440-36-
0","Antimony","0","mg/l",,"0.00045","MDL",,"TARGET",,,"0.0020","RDL","YES","-99",,,,"-99","<"
"Grab-WILLH-091417","SW-846 6020A","RES","SC39266-02","ESAI","7440-38-
2","Arsenic","0.0236","mg/l",,"0.00072","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","SW-846 6020A","RES","SC39266-02","ESAI","7440-39-
3","Barium","0.0403","mg/l",,"0.00072","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","SW-846 6020A","RES","SC39266-02","ESAI","7440-41-
7","Beryllium","0","mg/l",,"0.000071","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"Grab-WILLH-091417","SW-846 6020A","RES","SC39266-02","ESAI","7440-43-
9","Cadmium","0","mg/l",,"0.00015","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"Grab-WILLH-091417","SW-846 6020A","RES","SC39266-02","ESAI","7440-47-
3","Chromium","0.0015","mg/l","Ja","0.00087","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","SW-846 6020A","RES","SC39266-02","ESAI","7440-48-
4","Cobalt","0.0364","mg/l",,"0.00016","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","SW-846 6020A","RES","SC39266-02","ESAI","7440-50-
8","Copper","0.0021","mg/l","Ja","0.00054","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","SW-846 6020A","RES","SC39266-02","ESAI","7440-62-
2","Vanadium","0.0014","mg/l",,"0.00021","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","SW-846 6020A","RES","SC39266-02","ESAI","7440-66-
6","Zinc","0.0079","mg/l","Ja","0.0039","MDL",,"TARGET",,,"0.0300","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","SW-846 6020A","RES","SC39266-02","ESAI","7782-49-
2","Selenium","0","mg/l",,"0.00050","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99","<"
"Grab-WILLH-091417","SW-846 8015B","RES","SC39266-02","ESAI","108-90-
7","Chlorobenzene","0.0089","mg/l",,"-99","NA",,"SUR","68",,"-99","NA","YES","0.013",,,,"-99",
"Grab-WILLH-091417","SW-846 8015B","RES","SC39266-02","ESAI","84-15-
1","Orthoterphenyl","0.012","mg/l",,"-99","NA",,"SUR","92",,"-99","NA","YES","0.013",,,,"-99",
"Grab-WILLH-091417","SW-846 8015B","RES","SC39266-02","ESAI","PHCC8C44","C8-
C44","0.27","mg/l",,"0.054","MDL",,"TARGET",,,"0.22","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","SW-846 8015B","RES","SC39266-02","ESAI","PHCE","Total
TPH","0.27","mg/l",,"0.054","MDL",,"TARGET",,,"0.22","RDL","YES","-99",,,,"-99",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","1024-57-3","Heptachlor
epoxide","0.021","µg/l","U","0.016","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"950","10","0.021",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","1031-07-8","Endosulfan
sulfate","0.021","µg/l","U","0.021","MDL",,"TARGET",,,"0.042","RDL","YES","-99",,"950","10","0.021",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl
(Sr)","0.167","µg/l",,"-99","NA",,"SUR","79",,"-99","NA","YES","0.211",,"950","10","-99",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","15972-60-
8","Alachlor","0.021","µg/l","U","0.020","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"950","10","0.021",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","2051-24-3","Decachlorobiphenyl
(Sr)","0.203","µg/l",,"-99","NA",,"SUR","96",,"-99","NA","YES","0.211",,"950","10","-99",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","309-00-
2","Aldrin","0.021","µg/l","U","0.017","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"950","10","0.021",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","319-84-6","alpha-
BHC","0.021","µg/l","U","0.012","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"950","10","0.021",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","319-85-7","beta-
BHC","0.021","µg/l","U","0.015","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"950","10","0.021",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","319-86-8","delta-
BHC","0.021","µg/l","U","0.016","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"950","10","0.021",

"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","33213-65-9","Endosulfan II","0.021","µg/l","U","0.021","MDL",,"TARGET",,,"0.042","RDL","YES","-99",,"950","10","0.021",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","50-29-3","4,4'-DDT (p,p')","0.032","µg/l","U","0.019","MDL",,"TARGET",,,"0.042","RDL","YES","-99",,"950","10","0.032",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","5103-71-9","alpha-Chlordane","0.021","µg/l","U","0.016","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"950","10","0.021",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","5103-74-2","Chlordane (gamma) (trans)","0.021","µg/l","U","0.017","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"950","10","0.021",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","53494-70-5","Endrin ketone","0.021","µg/l","U","0.018","MDL",,"TARGET",,,"0.042","RDL","YES","-99",,"950","10","0.021",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","57-74-9","Chlordane","0.068","µg/l","U","0.054","MDL",,"TARGET",,,"0.068","RDL","YES","-99",,"950","10","0.068",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","58-89-9","gamma-BHC (Lindane)","0.021","µg/l","U","0.018","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"950","10","0.021",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","60-57-1","Dieldrin","0.021","µg/l","U","0.018","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"950","10","0.021",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","72-20-8","Endrin","0.021","µg/l","U","0.020","MDL",,"TARGET",,,"0.042","RDL","YES","-99",,"950","10","0.021",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","72-43-5","Methoxychlor","0.021","µg/l","U","0.019","MDL",,"TARGET",,,"0.042","RDL","YES","-99",,"950","10","0.021",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","72-54-8","4,4'-DDD (p,p')","0.021","µg/l","U","0.020","MDL",,"TARGET",,,"0.042","RDL","YES","-99",,"950","10","0.021",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","72-55-9","4,4'-DDE (p,p')","0.021","µg/l","U","0.019","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"950","10","0.021",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","7421-93-4","Endrin aldehyde","0.021","µg/l","U","0.020","MDL",,"TARGET",,,"0.042","RDL","YES","-99",,"950","10","0.021",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","76-44-8","Heptachlor","0.021","µg/l","U","0.021","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"950","10","0.021",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","8001-35-2","Toxaphene","0.526","µg/l","U","0.345","MDL",,"TARGET",,,"0.526","RDL","YES","-99",,"950","10","0.526",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)","0.020","µg/ml",,"-99","NA",,"ISTD","115",,"-99","NA","YES","10.0",,"950","10","-99",
"Grab-WILLH-091417","SW846 8081B","RES","SC39266-02","ESAI","959-98-8","Endosulfan I","0.021","µg/l","U","0.017","MDL",,"TARGET",,,"0.021","RDL","YES","-99",,"950","10","0.021",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","100-41-4","Ethylbenzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","100-42-5","Styrene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","108-87-2","Methylcyclohexane","2.0","µg/l","U","0.7","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","108-88-

3","Toluene","1.2","µg/l",,"0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","108-90-
7","Chlorobenzene","0.5","µg/l","U","0.2","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","110-82-
7","Cyclohexane","2.0","µg/l","U","0.8","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","124-48-
1","Dibromochloromethane","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","127-18-
4","Tetrachloroethene","1.0","µg/l","U","0.6","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","17060-07-0","1,2-Dichloroethane-
d4","51.4","µg/l",,"-99","NA",,"SUR","103",,"-99","NA","YES","50.0",,"5","5","-99",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","1868-53-
7","Dibromofluoromethane","49.1","µg/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","50.0",,"5","5","-99",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","2037-26-5","Toluene-
d8","49.0","µg/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","50.0",,"5","5","-99",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","3114-55-4","Chlorobenzene-
d5","50.0","µg/l",,"-99","NA",,"ISTD","94",,"-99","NA","YES","50.0",,"5","5","-99",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","3855-82-1","1,4-Dichlorobenzene-
d4","50.0","µg/l",,"-99","NA",,"ISTD","81",,"-99","NA","YES","50.0",,"5","5","-99",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","460-00-4","4-
Bromofluorobenzene","44.8","µg/l",,"-99","NA",,"SUR","90",,"-99","NA","YES","50.0",,"5","5","-99",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","462-06-
6","Fluorobenzene","50.0","µg/l",,"-99","NA",,"ISTD","94",,"-99","NA","YES","50.0",,"5","5","-99",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","56-23-5","Carbon
tetrachloride","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","67-64-
1","Acetone","6.5","µg/l","J","0.8","MDL",,"TARGET",,,"10.0","RDL","YES","-99",,"5","5","2.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","67-66-
3","Chloroform","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","71-43-
2","Benzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","74-83-
9","Bromomethane","2.0","µg/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","74-87-
3","Chloromethane","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","74-97-
5","Bromochloromethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","75-00-
3","Chloroethane","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","75-01-4","Vinyl
chloride","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",

"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","75-09-2","Methylene chloride","2.0","µg/l","U","0.7","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","75-15-0","Carbon disulfide","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","75-25-2","Bromoform","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","75-27-4","Bromodichloromethane","0.5","µg/l","U","0.4","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","75-71-8","Dichlorodifluoromethane (Freon12)","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","78-93-3","2-Butanone (MEK)","2.1","µg/l",,"1.1","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","79-01-6","Trichloroethene","1.0","µg/l","U","0.5","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","79-20-9","Methyl acetate","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"5.0","RDL","YES","-99",,"5","5","2.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","95-47-6","o-Xylene","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","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",
"Grab-WILLH-091417","SW846 8260C","RES","SC39266-02","ESAI","98-82-8","Isopropylbenzene","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","1146-65-2","Naphthalene-d8","40.0","µg/ml",,"-99","NA",,"ISTD","145",,"-99","NA","YES","40.0",,"940","1","-99",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","120-12-7","Anthracene","1.06","µg/l","U","0.647","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","129-00-0","Pyrene","1.06","µg/l","U","0.649","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","15067-26-2","Acenaphthene-d10","40.0","µg/ml",,"-99","NA",,"ISTD","109",,"-99","NA","YES","40.0",,"940","1","-99",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","1517-22-2","Phenanthrene-d10","40.0","µg/ml",,"-99","NA",,"ISTD","141",,"-99","NA","YES","40.0",,"940","1","-99",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","1520-96-3","Perylene-d12","40.0","µg/ml",,"-99","NA",,"ISTD","132",,"-99","NA","YES","40.0",,"940","1","-99",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","1718-51-0","Terphenyl-dl4","29.7","µg/l",,"-99","NA",,"SUR","56",,"-99","NA","YES","53.2",,"940","1","-99",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","1719-03-5","Chrysene-d12","40.0","µg/ml",,"-99","NA",,"ISTD","135",,"-99","NA","YES","40.0",,"940","1","-99",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","191-24-2","Benzo (g,h,i)

perylene","1.06","µg/l","U","0.564","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","193-39-5","Indeno (1,2,3-cd)
pyrene","1.06","µg/l","U","0.617","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","205-99-2","Benzo (b)
fluoranthene","1.06","µg/l","U","0.465","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","206-44-
0","Fluoranthene","1.06","µg/l","U","0.679","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","207-08-9","Benzo (k)
fluoranthene","1.06","µg/l","U","0.511","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","208-96-
8","Acenaphthylene","1.06","µg/l","U","0.727","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06
",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","218-01-
9","Chrysene","1.06","µg/l","U","0.566","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","321-60-8","2-
Fluorobiphenyl","28.8","µg/l",,"-99","NA",,"SUR","54",,"-99","NA","YES","53.2",,"940","1","-99",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","4165-60-0","Nitrobenzene-
d5","21.2","µg/l",,"-99","NA",,"SUR","40",,"-99","NA","YES","53.2",,"940","1","-99",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","50-32-8","Benzo (a)
pyrene","1.06","µg/l","U","0.598","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","53-70-3","Dibenzo (a,h)
anthracene","1.06","µg/l","U","0.479","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","56-55-3","Benzo (a)
anthracene","1.06","µg/l","U","0.570","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","83-32-
9","Acenaphthene","1.06","µg/l","U","0.735","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","85-01-
8","Phenanthrene","1.06","µg/l","U","0.623","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","86-73-
7","Fluorene","1.06","µg/l","U","0.651","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","90-12-0","1-
Methylnaphthalene","1.06","µg/l","U","0.780","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06"
,
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","91-20-
3","Naphthalene","1.06","µg/l","U","0.729","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06",
"Grab-WILLH-091417","SW846 8270D","RES","SC39266-02","ESAI","91-57-6","2-
Methylnaphthalene","1.06","µg/l","U","0.611","MDL",,"TARGET",,,"5.32","RDL","YES","-99",,"940","1","1.06"
,
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","1763-23-1","Perfluoro-
octanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","1763-23-1L","13C8-
PFOS","31","ng/l",,"-99","NA",,"SUR","65",,"-99","NA","YES","48",,,,"-99",
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","2058-94-8","Perfluoroundecanoic
acid","0","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","2058-94-8L","13C7-
PFUnDA","34","ng/l",,"-99","NA",,"SUR","68",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","2706-90-3","Perfluoropentanoic
Acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","2706-90-3L","13C5-
PFPeA","41","ng/l",,"-99","NA",,"SUR","82",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","307-24-4","Perfluorohexanoic
acid","0","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","307-24-4L","13C5-
PFHxA","37","ng/l",,"-99","NA",,"SUR","75",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","307-55-1","Perfluorododecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","307-55-1L","13C2-

PFDoDA","31","ng/l",,"-99","NA",,"SUR","63",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","335-67-1","Perfluorooctanoic
acid","0","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","335-67-1L","13C8-
PFOA","40","ng/l",,"-99","NA",,"SUR","79",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","335-76-2","Perfluorodecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","335-76-2L","13C6-
PFDA","35","ng/l",,"-99","NA",,"SUR","70",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","335-77-
3","Perfluorodecanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","355-46-
4","Perfluorohexanesulfonate","0","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","355-46-4L","13C3-
PFHxS","37","ng/l",,"-99","NA",,"SUR","78",,"-99","NA","YES","47",,,,"-99",
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","375-22-4","Perfluorobutanoic
Acid","0","ng/l",,"3","MDL",,"TARGET",,,"10","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","375-22-4L","13C4-
PFBA","41","ng/l",,"-99","NA",,"SUR","83",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","375-73-
5","Perfluorobutanesulfonate","0","ng/l",,"0.8","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","375-73-5L","13C3-
PFBS","39","ng/l",,"-99","NA",,"SUR","84",,"-99","NA","YES","47",,,,"-99",
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","375-85-9","Perfluoroheptanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","375-85-9L","13C4-
PFHpA","35","ng/l",,"-99","NA",,"SUR","70",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","375-92-
8","Perfluoroheptanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","375-95-1","Perfluorononanoic
acid","0","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","375-95-1L","13C9-
PFNA","36","ng/l",,"-99","NA",,"SUR","72",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","376-06-7","Perfluorotetradecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","376-06-7L","13C2-
PFTeDA","33","ng/l",,"-99","NA",,"SUR","67",,"-99","NA","YES","50",,,,"-99",
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","72629-94-8","Perfluorotridecanoic
acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","754-91-
6","PFOSA","0","ng/l",,"3","MDL",,"TARGET",,,"9","RDL","YES","-99",,,,"-99","<"
"TF1-FRB-091417","EPA 537 Modified","RES","SC39266-03","ESAI","754-91-6L","13C8-
PFOSA","29","ng/l",,"-99","NA",,"SUR","57",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-136B-091417","EPA 200/6000 methods","RES","SC39266-
01","ESAI","NA","Preservation","0","N/A",,"-99","NA",,"TARGET",,,"-99","NA","YES","-99",,"1","1","-99","Field
Preserved; pH<2 confirmed"
"TF1-GT-136B-091417","EPA 245.1/7470A","RES","SC39266-01","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-136B-091417","EPA 300.0","DL2","SC39266-01","ESAI","14808-79-8","Sulfate as
SO4","4.77","mg/l","R01, D","1.60","MDL",,"TARGET",,,"2.00","RDL","YES","-99",,"5","5","2.00",
"TF1-GT-136B-091417","EPA 300.0","DL2","SC39266-01","ESAI","16887-00-6","Chloride","51.8","mg/l","GS1,
D","0.199","MDL",,"TARGET",,,"2.00","RDL","YES","-99",,"5","5","0.200",
"TF1-GT-136B-091417","EPA 300.0","RES","SC39266-01","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-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","1763-23-1","Perfluoro-
octanesulfonate","5","ng/l","Ja","2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99",

"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","1763-23-1L","13C8-PFOS","30","ng/l",,"-99","NA",,"SUR","62",,"-99","NA","YES","48",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","2058-94-8","Perfluoroundecanoic acid","0","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","2058-94-8L","13C7-PFUnDA","33","ng/l",,"-99","NA",,"SUR","65",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","2706-90-3","Perfluoropentanoic Acid","2","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","2706-90-3L","13C5-PFPeA","40","ng/l",,"-99","NA",,"SUR","80",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","307-24-4","Perfluorohexanoic acid","2","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","307-24-4L","13C5-PFHxA","35","ng/l",,"-99","NA",,"SUR","70",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","307-55-1","Perfluorododecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","307-55-1L","13C2-PFDoDA","32","ng/l",,"-99","NA",,"SUR","64",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","335-67-1","Perfluorooctanoic acid","5","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","335-67-1L","13C8-PFOA","35","ng/l",,"-99","NA",,"SUR","70",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","335-76-2","Perfluorodecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","335-76-2L","13C6-PFDA","35","ng/l",,"-99","NA",,"SUR","70",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","335-77-3","Perfluorodecanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","355-46-4","Perfluorohexanesulfonate","5","ng/l",,"1","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","355-46-4L","13C3-PFHxS","36","ng/l",,"-99","NA",,"SUR","75",,"-99","NA","YES","47",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","375-22-4","Perfluorobutanoic Acid","0","ng/l",,"3","MDL",,"TARGET",,,"10","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","375-22-4L","13C4-PFBA","35","ng/l",,"-99","NA",,"SUR","71",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","375-73-5","Perfluorobutanesulfonate","1","ng/l","Ja","0.8","MDL",,"TARGET",,,"3","RDL","YES","-99",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","375-73-5L","13C3-PFBS","35","ng/l",,"-99","NA",,"SUR","75",,"-99","NA","YES","47",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","375-85-9","Perfluoroheptanoic acid","1","ng/l","Ja","0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","375-85-9L","13C4-PFHpA","36","ng/l",,"-99","NA",,"SUR","72",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","375-92-8","Perfluoroheptanesulfonate","0","ng/l",,"2","MDL",,"TARGET",,,"6","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","375-95-1","Perfluorononanoic acid","6","ng/l",,"0.6","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","375-95-1L","13C9-PFNA","40","ng/l",,"-99","NA",,"SUR","81",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","376-06-7","Perfluorotetradecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","376-06-7L","13C2-PFTeDA","31","ng/l",,"-99","NA",,"SUR","63",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","72629-94-8","Perfluorotridecanoic acid","0","ng/l",,"0.5","MDL",,"TARGET",,,"2","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","754-91-

6","PFOSA","0","ng/l",,"3","MDL",,"TARGET",,,"9","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","EPA 537 Modified","RES","SC39266-01","ESAI","754-91-6L","13C8-
PFOSA","23","ng/l",,"-99","NA",,"SUR","45",,"-99","NA","YES","50",,,,"-99",
"TF1-GT-136B-091417","Mod EPA 3C/SOP RSK-175","RES","SC39266-01","ESAI","74-82-
8","Methane","2.20","µg/l","U","2.16","MDL",,"TARGET",,,"2.20","RDL","YES","-99",,"10","10","2.20",
"TF1-GT-136B-091417","Mod EPA 3C/SOP RSK-175","RES","SC39266-01","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-136B-091417","SM18-22 5210B","RES","SC39266-01","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-136B-091417","SM2320B (97, 11)","RES","SC39266-01","ESAI","NA","Total Alkalinity","44.4","mg/l
CaCO3",,"0.524","MDL",,"TARGET",,,"2.00","RDL","YES","-99",,"100","50","1.50",
"TF1-GT-136B-091417","SM5310B (00, 11)","RES","SC39266-01","ESAI","NA","Total Organic
Carbon","1.30","mg/l",,"0.238","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"40","40","0.500",
"TF1-GT-136B-091417","SW846 6010C","RES","SC39266-01","ESAI","7429-90-
5","Aluminum","0.0265","mg/l","J","0.0206","MDL",,"TARGET",,,"0.0500","RDL","YES","-99",,"50","50","0.05
00",
"TF1-GT-136B-091417","SW846 6010C","RES","SC39266-01","ESAI","7439-89-
6","Iron","9.86","mg/l",,"0.0089","MDL",,"TARGET",,,"0.0300","RDL","YES","-99",,"50","50","0.0300",
"TF1-GT-136B-091417","SW846 6010C","RES","SC39266-01","ESAI","7439-95-
4","Magnesium","3.80","mg/l",,"0.0088","MDL",,"TARGET",,,"0.0200","RDL","YES","-99",,"50","50","0.0100",
"TF1-GT-136B-091417","SW846 6010C","RES","SC39266-01","ESAI","7440-09-
7","Potassium","0.933","mg/l","J","0.120","MDL",,"TARGET",,,"1.00","RDL","YES","-99",,"50","50","0.250",
"TF1-GT-136B-091417","SW846 6010C","RES","SC39266-01","ESAI","7440-23-
5","Sodium","17.2","mg/l",,"0.0785","MDL",,"TARGET",,,"0.500","RDL","YES","-99",,"50","50","0.250",
"TF1-GT-136B-091417","SW846 6010C","RES","SC39266-01","ESAI","7440-70-
2","Calcium","25.1","mg/l",,"0.0142","MDL",,"TARGET",,,"0.200","RDL","YES","-99",,"50","50","0.0500",
"TF1-GT-136B-091417","SW-846 6020A","RES","SC39266-01","ESAI","7439-92-
1","Lead","0","mg/l",,"0.00011","MDL",,"TARGET",,,"0.0020","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","SW-846 6020A","RES","SC39266-01","ESAI","7439-96-
5","Manganese","2.45","mg/l",,"0.00090","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-136B-091417","SW-846 6020A","RES","SC39266-01","ESAI","7439-98-
7","Molybdenum","0.00080","mg/l","Ja","0.00025","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-GT-136B-091417","SW-846 6020A","RES","SC39266-01","ESAI","7440-02-
0","Nickel","0.0144","mg/l",,"0.0010","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-136B-091417","SW-846 6020A","RES","SC39266-01","ESAI","7440-22-
4","Silver","0","mg/l",,"0.00015","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","SW-846 6020A","RES","SC39266-01","ESAI","7440-28-
0","Thallium","0","mg/l",,"0.00012","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","SW-846 6020A","RES","SC39266-01","ESAI","7440-36-
0","Antimony","0","mg/l",,"0.00045","MDL",,"TARGET",,,"0.0020","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","SW-846 6020A","RES","SC39266-01","ESAI","7440-38-
2","Arsenic","0.0070","mg/l",,"0.00072","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-136B-091417","SW-846 6020A","RES","SC39266-01","ESAI","7440-39-
3","Barium","0.0826","mg/l",,"0.00072","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-136B-091417","SW-846 6020A","RES","SC39266-01","ESAI","7440-41-
7","Beryllium","0","mg/l",,"0.000071","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","SW-846 6020A","RES","SC39266-01","ESAI","7440-43-
9","Cadmium","0","mg/l",,"0.00015","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","SW-846 6020A","RES","SC39266-01","ESAI","7440-47-
3","Chromium","0.0024","mg/l","Ja","0.00087","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99",
"TF1-GT-136B-091417","SW-846 6020A","RES","SC39266-01","ESAI","7440-48-
4","Cobalt","0.0382","mg/l",,"0.00016","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99",
"TF1-GT-136B-091417","SW-846 6020A","RES","SC39266-01","ESAI","7440-50-
8","Copper","0","mg/l",,"0.00054","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","SW-846 6020A","RES","SC39266-01","ESAI","7440-62-
2","Vanadium","0","mg/l",,"0.00021","MDL",,"TARGET",,,"0.0010","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","SW-846 6020A","RES","SC39266-01","ESAI","7440-66-

6","Zinc","0.0105","mg/l","Ja","0.0039","MDL",,"TARGET",,,"0.0300","RDL","YES","-99",,,,"-99",
"TF1-GT-136B-091417","SW-846 6020A","RES","SC39266-01","ESAI","7782-49-
2","Selenium","0","mg/l",,"0.00050","MDL",,"TARGET",,,"0.0040","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","SW-846 8015B","RES","SC39266-01","ESAI","108-90-
7","Chlorobenzene","0.011","mg/l",,"-99","NA",,"SUR","89",,"-99","NA","YES","0.012",,,,"-99",
"TF1-GT-136B-091417","SW-846 8015B","RES","SC39266-01","ESAI","84-15-
1","Orthoterphenyl","0.012","mg/l",,"-99","NA",,"SUR","101",,"-99","NA","YES","0.012",,,,"-99",
"TF1-GT-136B-091417","SW-846 8015B","RES","SC39266-01","ESAI","PHCC8C44","C8-
C44","0","mg/l",,"0.051","MDL",,"TARGET",,,"0.20","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","SW-846 8015B","RES","SC39266-01","ESAI","PHCE","Total
TPH","0","mg/l",,"0.051","MDL",,"TARGET",,,"0.20","RDL","YES","-99",,,,"-99","<"
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","1024-57-3","Heptachlor
epoxide","0.019","µg/l","U","0.014","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1060","10","0.019",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","1031-07-8","Endosulfan
sulfate","0.019","µg/l","U","0.019","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1060","10","0.019",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","10386-84-2","4,4-DB-
Octafluorobiphenyl
(Sr)","0.190","µg/l",,"-99","NA",,"SUR","101",,"-99","NA","YES","0.189",,"1060","10","-99",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","15972-60-
8","Alachlor","0.019","µg/l","U","0.018","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1060","10","0.019",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","2051-24-3","Decachlorobiphenyl
(Sr)","0.160","µg/l",,"-99","NA",,"SUR","85",,"-99","NA","YES","0.189",,"1060","10","-99",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","309-00-
2","Aldrin","0.019","µg/l","U","0.015","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1060","10","0.019",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","319-84-6","alpha-
BHC","0.019","µg/l","U","0.011","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1060","10","0.019",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","319-85-7","beta-
BHC","0.019","µg/l","U","0.014","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1060","10","0.019",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","319-86-8","delta-
BHC","0.019","µg/l","U","0.015","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1060","10","0.019",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","33213-65-9","Endosulfan
II","0.019","µg/l","U","0.019","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1060","10","0.019",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","50-29-3","4,4'-DDT
(p,p')","0.028","µg/l","U","0.017","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1060","10","0.028",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","5103-71-9","alpha-
Chlordane","0.019","µg/l","U","0.015","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1060","10","0.019",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","5103-74-2","Chlordane (gamma)
(trans)","0.019","µg/l","U","0.015","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1060","10","0.019",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","53494-70-5","Endrin
ketone","0.019","µg/l","U","0.016","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1060","10","0.019",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","57-74-
9","Chlordane","0.061","µg/l","U","0.048","MDL",,"TARGET",,,"0.061","RDL","YES","-99",,"1060","10","0.061
",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","58-89-9","gamma-BHC
(Lindane)","0.019","µg/l","U","0.016","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1060","10","0.019",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","60-57-
1","Dieldrin","0.019","µg/l","U","0.016","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1060","10","0.019",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","72-20-
8","Endrin","0.019","µg/l","U","0.018","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1060","10","0.019",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","72-43-
5","Methoxychlor","0.019","µg/l","U","0.017","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1060","10","0.
019",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","72-54-8","4,4'-DDD
(p,p')","0.019","µg/l","U","0.018","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1060","10","0.019",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","72-55-9","4,4'-DDE
(p,p')","0.019","µg/l","U","0.017","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1060","10","0.019",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","7421-93-4","Endrin

aldehyde","0.019","µg/l","U","0.018","MDL",,"TARGET",,,"0.038","RDL","YES","-99",,"1060","10","0.019",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","76-44-
8","Heptachlor","0.019","µg/l","U","0.018","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1060","10","0.01
9",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","8001-35-
2","Toxaphene","0.472","µg/l","U","0.309","MDL",,"TARGET",,,"0.472","RDL","YES","-99",,"1060","10","0.47
2",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","877-09-8","2,4,5,6-TC-M-Xylene
(IS)","0.020","µg/ml",,"-99","NA",,"ISTD","77",,"-99","NA","YES","10.0",,"1060","10","-99",
"TF1-GT-136B-091417","SW846 8081B","RES","SC39266-01","ESAI","959-98-8","Endosulfan
I","0.019","µg/l","U","0.015","MDL",,"TARGET",,,"0.019","RDL","YES","-99",,"1060","10","0.019",
"TF1-GT-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","ESAI","1634-04-4","Methyl tert-butyl
ether","4.8","µg/l",,"0.2","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-GT-136B-091417","SW846 8260C","RES","SC39266-01","ESAI","17060-07-0","1,2-Dichloroethane-
d4","50.6","µg/l",,"-99","NA",,"SUR","101",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","ESAI","1868-53-
7","Dibromofluoromethane","49.4","µg/l",,"-99","NA",,"SUR","99",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-136B-091417","SW846 8260C","RES","SC39266-01","ESAI","2037-26-5","Toluene-
d8","49.0","µg/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-136B-091417","SW846 8260C","RES","SC39266-01","ESAI","3114-55-4","Chlorobenzene-
d5","50.0","µg/l",,"-99","NA",,"ISTD","94",,"-99","NA","YES","50.0",,"5","5","-99",

"TF1-GT-136B-091417","SW846 8260C","RES","SC39266-01","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","µg/l",,"-99","NA",,"ISTD","80",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-136B-091417","SW846 8260C","RES","SC39266-01","ESAI","460-00-4","4-Bromofluorobenzene","44.4","µg/l",,"-99","NA",,"SUR","89",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-136B-091417","SW846 8260C","RES","SC39266-01","ESAI","462-06-6","Fluorobenzene","50.0","µg/l",,"-99","NA",,"ISTD","94",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-GT-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8260C","RES","SC39266-01","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-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","1146-65-2","Naphthalene-d8","40.0","µg/ml",,"-99","NA",,"ISTD","156",,"-99","NA","YES","40.0",,"1000","1","-99",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","120-12-7","Anthracene","1.00","µg/l","U","0.608","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"1000","1","1.00",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","129-00-0","Pyrene","1.00","µg/l","U","0.610","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"1000","1","1.00",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","15067-26-2","Acenaphthene-d10","40.0","µg/ml",,"-99","NA",,"ISTD","119",,"-99","NA","YES","40.0",,"1000","1","-99",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","1517-22-2","Phenanthrene-d10","40.0","µg/ml",,"-99","NA",,"ISTD","154",,"-99","NA","YES","40.0",,"1000","1","-99",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","1520-96-3","Perylene-d12","40.0","µg/ml",,"-99","NA",,"ISTD","149",,"-99","NA","YES","40.0",,"1000","1","-99",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","1718-51-0","Terphenyl-dl4","32.2","µg/l",,"-99","NA",,"SUR","64",,"-99","NA","YES","50.0",,"1000","1","-99",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","1719-03-5","Chrysene-d12","40.0","µg/ml",,"-99","NA",,"ISTD","147",,"-99","NA","YES","40.0",,"1000","1","-99",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","191-24-2","Benzo (g,h,i) perylene","1.00","µg/l","U","0.530","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"1000","1","1.00",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","193-39-5","Indeno (1,2,3-cd) pyrene","1.00","µg/l","U","0.580","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"1000","1","1.00",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","205-99-2","Benzo (b) fluoranthene","1.00","µg/l","U","0.437","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"1000","1","1.00",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","206-44-0","Fluoranthene","1.00","µg/l","U","0.638","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"1000","1","1.00",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","207-08-9","Benzo (k) fluoranthene","1.00","µg/l","U","0.480","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"1000","1","1.00",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","208-96-8","Acenaphthylene","1.00","µg/l","U","0.683","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"1000","1","1.00",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","218-01-9","Chrysene","1.00","µg/l","U","0.532","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"1000","1","1.00",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","321-60-8","2-Fluorobiphenyl","31.3","µg/l",,"-99","NA",,"SUR","63",,"-99","NA","YES","50.0",,"1000","1","-99",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","4165-60-0","Nitrobenzene-d5","23.4","µg/l",,"-99","NA",,"SUR","47",,"-99","NA","YES","50.0",,"1000","1","-99",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","50-32-8","Benzo (a) pyrene","1.00","µg/l","U","0.562","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"1000","1","1.00",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","53-70-3","Dibenzo (a,h) anthracene","1.00","µg/l","U","0.450","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"1000","1","1.00",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","56-55-3","Benzo (a) anthracene","1.00","µg/l","U","0.536","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"1000","1","1.00",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","83-32-9","Acenaphthene","1.00","µg/l","U","0.691","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"1000","1","1.00"

,
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","85-01-8","Phenanthrene","1.00","µg/l","U","0.586","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"1000","1","1.00"
,
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","86-73-7","Fluorene","1.00","µg/l","U","0.612","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"1000","1","1.00",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","90-12-0","1-Methylnaphthalene","1.00","µg/l","U","0.733","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"1000","1","1.00
",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","91-20-3","Naphthalene","1.00","µg/l","U","0.685","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"1000","1","1.00",
"TF1-GT-136B-091417","SW846 8270D","RES","SC39266-01","ESAI","91-57-6","2-Methylnaphthalene","1.00","µg/l","U","0.574","MDL",,"TARGET",,,"5.00","RDL","YES","-99",,"1000","1","1.00
",
"TF1-GT-136B-091417DUP","EPA 245.1/7470A","RES","1716321-DUP1","ESAI","7439-97-6","Mercury","0.00020","mg/l","U","0.00013","MDL",,"TARGET",,,"0.00020","RDL","YES","-99","TF1-GT-136B-091417","20","20","0.00020",
"TF1-GT-136B-091417DUP","EPA 300.0","RES","1715887-DUP2","ESAI","14797-55-8","Nitrate as N","0.100","mg/l","U","0.007","MDL",,"TARGET",,,"0.100","RDL","YES","-99","TF1-GT-136B-091417","5","5","0.100",
"TF1-GT-136B-091417DUP","EPA 300.0","RES","1715887-DUP2","ESAI","14808-79-8","Sulfate as SO4","4.82","mg/l","D","1.60","MDL",,"TARGET",,"1","2.00","RDL","YES","-99","TF1-GT-136B-091417","5","5","2.00",
"TF1-GT-136B-091417DUP","EPA 300.0","RES","1715887-DUP2","ESAI","16887-00-6","Chloride","52.4","mg/l","D","0.199","MDL",,"TARGET",,"1","2.00","RDL","YES","-99","TF1-GT-136B-091417","5","5","0.200",
"TF1-GT-136B-091417DUP","Mod EPA 3C/SOP RSK-175","RES","1716073-DUP2","ESAI","74-82-8","Methane","2.20","µg/l","U","2.16","MDL",,"TARGET",,,"2.20","RDL","YES","-99","TF1-GT-136B-091417","10","10","2.20",
"TF1-GT-136B-091417DUP","Mod EPA 3C/SOP RSK-175","RES","1716073-DUP2","ESAI","74-84-0","Ethane","5.00","µg/l","U","3.48","MDL",,"TARGET",,,"5.00","RDL","YES","-99","TF1-GT-136B-091417","10","10","5.00",
"TF1-GT-136B-091417DUP","SM2320B (97, 11)","RES","1716298-DUP1","ESAI","NA","Total Alkalinity","45.5","mg/l CaCO3",,"0.524","MDL",,"TARGET",,"2","2.00","RDL","YES","-99","TF1-GT-136B-091417","100","50","1.50",
"TF1-GT-136B-091417DUP","SM5310B (00, 11)","RES","1716423-DUP1","ESAI","NA","Total Organic Carbon","1.03","mg/l","QR6","0.238","MDL",,"TARGET",,"24","1.00","RDL","YES","-99","TF1-GT-136B-091417","40","40","0.500",
"TF1-GT-136B-091417DUP","SW846 6010C","RES","1716320-DUP1","ESAI","7429-90-5","Aluminum","0.0272","mg/l","J","0.0206","MDL",,"TARGET",,"3","0.0500","RDL","YES","-99","TF1-GT-136B-091417","50","50","0.0500",
"TF1-GT-136B-091417DUP","SW846 6010C","RES","1716320-DUP1","ESAI","7439-95-4","Magnesium","3.91","mg/l",,"0.0088","MDL",,"TARGET",,"3","0.0200","RDL","YES","-99","TF1-GT-136B-091417","50","50","0.0100",
"TF1-GT-136B-091417DUP","SW846 6010C","RES","1716320-DUP1","ESAI","7440-23-5","Sodium","17.6","mg/l",,"0.0785","MDL",,"TARGET",,"2","0.500","RDL","YES","-99","TF1-GT-136B-091417","50","50","0.250",
"TF1-GT-136B-091417DUP","SW846 6010C","RES","1716320-DUP1","ESAI","7440-70-2","Calcium","25.4","mg/l",,"0.0142","MDL",,"TARGET",,"1","0.200","RDL","YES","-99","TF1-GT-136B-091417","50","50","0.0500",
"TF1-GT-136B-091417DUP","SW846 6010C","RES","1716544-DUP1","ESAI","7439-89-6","Iron","10.0","mg/l",,"0.0089","MDL",,"TARGET",,"2","0.0300","RDL","YES","-99","TF1-GT-136B-091417","50","50","0.0300",
"TF1-GT-136B-091417DUP","SW846 6010C","RES","1716544-DUP1","ESAI","7440-09-7","Potassium","0.945","mg/l","J","0.120","MDL",,"TARGET",,"1","1.00","RDL","YES","-99","TF1-GT-136B-091417","50","50","0.250",
"TF1-GT-136B-091417MS","EPA 245.1/7470A","RES","1716321-MS1","ESAI","7439-97-

6","Mercury","0.00457","mg/l",,"0.00013","MDL",,"SPIKE","91",,"0.00020","RDL","YES","0.00500","TF1-GT-136B-091417","20","20","0.00020",
"TF1-GT-136B-091417MS","EPA 300.0","RES","1715887-MS2","ESAI","14797-55-8","Nitrate as N","1.50","mg/l",,"0.014","MDL",,"SPIKE","94",,"0.200","RDL","YES","1.60","TF1-GT-136B-091417","2.5","5","0.200",
"TF1-GT-136B-091417MS","EPA 300.0","RES","1715887-MS2","ESAI","14808-79-8","Sulfate as SO4","28.4","mg/l","QM7","1.60","MDL",,"SPIKE","148",,"2.00","RDL","YES","16.0","TF1-GT-136B-091417","2.5","5","2.00",
"TF1-GT-136B-091417MS","EPA 300.0","RES","1715887-MS2","ESAI","16887-00-6","Chloride","66.6","mg/l",,"0.199","MDL",,"SPIKE","92",,"2.00","RDL","YES","16.0","TF1-GT-136B-091417","2.5","5","0.200",
"TF1-GT-136B-091417MS","SM18-22 5210B","RES","1715906-MS1","ESAI","NA","Biochemical Oxygen Demand (5-day)","59.0","mg/l",,"2.74","MDL",,"SPIKE","99",,"30.0","RDL","YES","59.4","TF1-GT-136B-091417","300","300","2.97",
"TF1-GT-136B-091417MS","SM2320B (97, 11)","RES","1716298-MS1","ESAI","NA","Total Alkalinity","72.9","mg/l CaCO3",,"0.524","MDL",,"SPIKE","114",,"2.00","RDL","YES","25.0","TF1-GT-136B-091417","100","50","1.50",
"TF1-GT-136B-091417MS","SM5310B (00, 11)","RES","1716423-MS1","ESAI","NA","Total Organic Carbon","5.68","mg/l",,"0.238","MDL",,"SPIKE","87",,"1.00","RDL","YES","5.00","TF1-GT-136B-091417","40","40","0.500",
"TF1-GT-136B-091417MS","SW846 6010C","RES","1716320-MS1","ESAI","7429-90-5","Aluminum","2.65","mg/l",,"0.0206","MDL",,"SPIKE","105",,"0.0500","RDL","YES","2.50","TF1-GT-136B-091417","50","50","0.0500",
"TF1-GT-136B-091417MS","SW846 6010C","RES","1716320-MS1","ESAI","7439-95-4","Magnesium","6.16","mg/l",,"0.0088","MDL",,"SPIKE","94",,"0.0200","RDL","YES","2.50","TF1-GT-136B-091417","50","50","0.0100",
"TF1-GT-136B-091417MS","SW846 6010C","RES","1716320-MS1","ESAI","7440-23-5","Sodium","29.1","mg/l",,"0.0785","MDL",,"SPIKE","95",,"0.500","RDL","YES","12.5","TF1-GT-136B-091417","50","50","0.250",
"TF1-GT-136B-091417MS","SW846 6010C","RES","1716320-MS1","ESAI","7440-70-2","Calcium","38.0","mg/l",,"0.0142","MDL",,"SPIKE","103",,"0.200","RDL","YES","12.5","TF1-GT-136B-091417","50","50","0.0500",
"TF1-GT-136B-091417MS","SW846 6010C","RES","1716544-MS1","ESAI","7439-89-6","Iron","12.4","mg/l",,"0.0089","MDL",,"SPIKE","101",,"0.0300","RDL","YES","2.50","TF1-GT-136B-091417","50","50","0.0300",
"TF1-GT-136B-091417MS","SW846 6010C","RES","1716544-MS1","ESAI","7440-09-7","Potassium","25.7","mg/l",,"0.120","MDL",,"SPIKE","99",,"1.00","RDL","YES","25.0","TF1-GT-136B-091417","50","50","0.250",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","1024-57-3","Heptachlor epoxide","0.402","&#65533;g/l",,"0.015","MDL",,"SPIKE","80",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","1024-57-3","Heptachlor epoxide [2C]","0.407","&#65533;g/l",,"0.015","MDL",,"SPIKE","81",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","1031-07-8","Endosulfan sulfate","0.441","&#65533;g/l",,"0.020","MDL",,"SPIKE","87",,"0.040","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","1031-07-8","Endosulfan sulfate [2C]","0.525","&#65533;g/l",,"0.017","MDL",,"SPIKE","104",,"0.040","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr)","0.235","&#65533;g/l",,"-99","NA",,"SUR","116",,"-99","NA","YES","0.202","TF1-GT-136B-091417","990","10","-99",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr) [2C]","0.246","&#65533;g/l",,"-99","NA",,"SUR","122",,"-99","NA","YES","0.202","TF1-GT-136B-091417","990","10","-99",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","15972-60-

8","Alachlor","0.476","µg/l",,"0.019","MDL",,"SPIKE","94",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","15972-60-8","Alachlor [2C]","0.491","µg/l",,"0.018","MDL",,"SPIKE","97",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","2051-24-3","Decachlorobiphenyl (Sr)","0.173","µg/l",,"-99","NA",,"SUR","85",,"-99","NA","YES","0.202","TF1-GT-136B-091417","990","10","-99",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","2051-24-3","Decachlorobiphenyl (Sr) [2C]","0.144","µg/l",,"-99","NA",,"SUR","71",,"-99","NA","YES","0.202","TF1-GT-136B-091417","990","10","-99",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","309-00-2","Aldrin","0.331","µg/l",,"0.016","MDL",,"SPIKE","65",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","309-00-2","Aldrin [2C]","0.324","µg/l",,"0.019","MDL",,"SPIKE","64",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","319-84-6","alpha-BHC","0.361","µg/l",,"0.012","MDL",,"SPIKE","71",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","319-84-6","alpha-BHC [2C]","0.379","µg/l",,"0.018","MDL",,"SPIKE","75",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","319-85-7","beta-BHC","0.422","µg/l",,"0.015","MDL",,"SPIKE","84",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","319-85-7","beta-BHC [2C]","0.478","µg/l",,"0.019","MDL",,"SPIKE","95",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","319-86-8","delta-BHC","0.406","µg/l",,"0.016","MDL",,"SPIKE","80",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","319-86-8","delta-BHC [2C]","0.455","µg/l",,"0.019","MDL",,"SPIKE","90",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","33213-65-9","Endosulfan II","0.439","µg/l",,"0.020","MDL",,"SPIKE","87",,"0.040","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","33213-65-9","Endosulfan II [2C]","0.502","µg/l",,"0.016","MDL",,"SPIKE","99",,"0.040","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","50-29-3","4,4'-DDT (p,p')","0.369","µg/l",,"0.018","MDL",,"SPIKE","73",,"0.040","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.030",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","50-29-3","4,4'-DDT (p,p') [2C]","0.418","µg/l",,"0.022","MDL",,"SPIKE","83",,"0.040","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.030",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","5103-71-9","alpha-Chlordane","0.416","µg/l",,"0.016","MDL",,"SPIKE","82",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","5103-71-9","alpha-Chlordane [2C]","0.426","µg/l",,"0.017","MDL",,"SPIKE","84",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","5103-74-2","Chlordane (gamma) (trans)","0.431","µg/l",,"0.016","MDL",,"SPIKE","85",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","5103-74-2","Chlordane (gamma)

(trans) [2C]","0.424","µg/l",,"0.014","MDL",,"SPIKE","84",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","53494-70-5","Endrin ketone","0.390","µg/l",,"0.017","MDL",,"SPIKE","77",,"0.040","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","53494-70-5","Endrin ketone [2C]","0.455","µg/l",,"0.018","MDL",,"SPIKE","90",,"0.040","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","58-89-9","gamma-BHC (Lindane)","0.372","µg/l",,"0.017","MDL",,"SPIKE","74",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","58-89-9","gamma-BHC (Lindane) [2C]","0.401","µg/l",,"0.018","MDL",,"SPIKE","79",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","60-57-1","Dieldrin","0.427","µg/l",,"0.017","MDL",,"SPIKE","84",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","60-57-1","Dieldrin [2C]","0.404","µg/l",,"0.019","MDL",,"SPIKE","80",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","72-20-8","Endrin","0.528","µg/l",,"0.019","MDL",,"SPIKE","104",,"0.040","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","72-20-8","Endrin [2C]","0.512","µg/l",,"0.020","MDL",,"SPIKE","101",,"0.040","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","72-43-5","Methoxychlor","0.455","µg/l",,"0.018","MDL",,"SPIKE","90",,"0.040","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","72-43-5","Methoxychlor [2C]","0.427","µg/l",,"0.018","MDL",,"SPIKE","85",,"0.040","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","72-54-8","4,4'-DDD (p,p')","0.467","µg/l",,"0.019","MDL",,"SPIKE","92",,"0.040","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","72-54-8","4,4'-DDD (p,p') [2C]","0.504","µg/l",,"0.018","MDL",,"SPIKE","100",,"0.040","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","72-55-9","4,4'-DDE (p,p')","0.401","µg/l",,"0.018","MDL",,"SPIKE","79",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","72-55-9","4,4'-DDE (p,p') [2C]","0.383","µg/l",,"0.018","MDL",,"SPIKE","76",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","7421-93-4","Endrin aldehyde","0.486","µg/l",,"0.019","MDL",,"SPIKE","96",,"0.040","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","7421-93-4","Endrin aldehyde [2C]","0.481","µg/l",,"0.018","MDL",,"SPIKE","95",,"0.040","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","76-44-8","Heptachlor","0.343","µg/l",,"0.020","MDL",,"SPIKE","68",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","76-44-8","Heptachlor [2C]","0.406","µg/l",,"0.020","MDL",,"SPIKE","80",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene

(IS)","0.020","µg/ml",,"-99","NA",,"ISTD","87",,"-99","NA","YES","10.0","TF1-GT-136B-091417","990","10","-99",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS) [2C]","0.020","µg/ml",,"-99","NA",,"ISTD","87",,"-99","NA","YES","10.0","TF1-GT-136B-091417","990","10","-99",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","959-98-8","Endosulfan I","0.421","µg/l",,"0.016","MDL",,"SPIKE","83",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8081B","RES","1715920-MS1","ESAI","959-98-8","Endosulfan I [2C]","0.450","µg/l",,"0.016","MDL",,"SPIKE","89",,"0.020","RDL","YES","0.505","TF1-GT-136B-091417","990","10","0.020",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","100-41-4","Ethylbenzene","19.7","µg/l",,"-99","NA",,"SPIKE","99",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","100-42-5","Styrene","20.4","µg/l",,"-99","NA",,"SPIKE","102",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","10061-01-5","cis-1,3-Dichloropropene","19.8","µg/l",,"-99","NA",,"SPIKE","99",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","10061-02-6","trans-1,3-Dichloropropene","19.9","µg/l",,"-99","NA",,"SPIKE","99",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","106-46-7","1,4-Dichlorobenzene","20.4","µg/l",,"-99","NA",,"SPIKE","102",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","106-93-4","1,2-Dibromoethane (EDB)","20.7","µg/l",,"-99","NA",,"SPIKE","104",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","107-06-2","1,2-Dichloroethane","19.1","µg/l",,"-99","NA",,"SPIKE","96",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","20.0","µg/l",,"-99","NA",,"SPIKE","100",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","108-87-2","Methylcyclohexane","17.9","µg/l",,"-99","NA",,"SPIKE","90",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","108-88-3","Toluene","19.4","µg/l",,"-99","NA",,"SPIKE","97",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","108-90-7","Chlorobenzene","20.5","µg/l",,"-99","NA",,"SPIKE","103",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","110-82-7","Cyclohexane","18.0","µg/l",,"-99","NA",,"SPIKE","90",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","120-82-1","1,2,4-Trichlorobenzene","21.1","µg/l",,"-99","NA",,"SPIKE","105",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","124-48-1","Dibromochloromethane","19.4","µg/l",,"-99","NA",,"SPIKE","97",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","127-18-4","Tetrachloroethene","19.6","µg/l",,"-99","NA",,"SPIKE","98",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","156-59-2","cis-1,2-

Dichloroethene","17.9","µg/l",,"-99","NA",,"SPIKE","89",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","156-60-5","trans-1,2-Dichloroethene","17.6","µg/l",,"-99","NA",,"SPIKE","88",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","1634-04-4","Methyl tert-butyl ether","25.2","µg/l",,"-99","NA",,"SPIKE","102",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","17060-07-0","1,2-Dichloroethane-d4","47.2","µg/l",,"-99","NA",,"SUR","94",,"-99","NA","YES","50.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","179601-23-1","m,p-Xylene","19.7","µg/l",,"-99","NA",,"SPIKE","98",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","1868-53-7","Dibromofluoromethane","47.5","µg/l",,"-99","NA",,"SUR","95",,"-99","NA","YES","50.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","2037-26-5","Toluene-d8","48.2","µg/l",,"-99","NA",,"SUR","96",,"-99","NA","YES","50.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","3114-55-4","Chlorobenzene-d5","50.0","µg/l",,"-99","NA",,"ISTD","102",,"-99","NA","YES","50.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","µg/l",,"-99","NA",,"ISTD","101",,"-99","NA","YES","50.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","460-00-4","4-Bromofluorobenzene","50.7","µg/l",,"-99","NA",,"SUR","101",,"-99","NA","YES","50.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","462-06-6","Fluorobenzene","50.0","µg/l",,"-99","NA",,"ISTD","104",,"-99","NA","YES","50.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","541-73-1","1,3-Dichlorobenzene","20.5","µg/l",,"-99","NA",,"SPIKE","102",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","56-23-5","Carbon tetrachloride","19.2","µg/l",,"-99","NA",,"SPIKE","96",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","591-78-6","2-Hexanone (MBK)","21.2","µg/l",,"-99","NA",,"SPIKE","106",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","67-64-1","Acetone","19.3","µg/l",,"-99","NA",,"SPIKE","97",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","67-66-3","Chloroform","18.2","µg/l",,"-99","NA",,"SPIKE","91",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","71-43-2","Benzene","20.2","µg/l",,"-99","NA",,"SPIKE","101",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","71-55-6","1,1,1-Trichloroethane","20.4","µg/l",,"-99","NA",,"SPIKE","102",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","74-83-9","Bromomethane","17.8","µg/l",,"-99","NA",,"SPIKE","89",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","74-87-3","Chloromethane","15.3","µg/l",,"-99","NA",,"SPIKE","76",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","74-97-5","Bromochloromethane","17.8","µg/l",,"-99","NA",,"SPIKE","89",,"-99","NA","YES","20.0","TF1-GT-136B-

091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","75-00-3","Chloroethane","17.6","µg/l",,"-99","NA",,"SPIKE","88",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","75-01-4","Vinyl chloride","16.0","µg/l",,"-99","NA",,"SPIKE","80",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","75-09-2","Methylene chloride","17.2","µg/l",,"-99","NA",,"SPIKE","86",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","75-15-0","Carbon disulfide","15.9","µg/l",,"-99","NA",,"SPIKE","79",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","75-25-2","Bromoform","20.1","µg/l",,"-99","NA",,"SPIKE","100",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","75-27-4","Bromodichloromethane","20.5","µg/l",,"-99","NA",,"SPIKE","103",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","75-34-3","1,1-Dichloroethane","17.9","µg/l",,"-99","NA",,"SPIKE","89",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","75-35-4","1,1-Dichloroethene","17.3","µg/l",,"-99","NA",,"SPIKE","86",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","75-69-4","Trichlorofluoromethane (Freon 11)","17.3","µg/l",,"-99","NA",,"SPIKE","86",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","75-71-8","Dichlorodifluoromethane (Freon12)","14.9","µg/l",,"-99","NA",,"SPIKE","75",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane (Freon 113)","17.1","µg/l",,"-99","NA",,"SPIKE","85",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","78-87-5","1,2-Dichloropropane","19.9","µg/l",,"-99","NA",,"SPIKE","99",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","78-93-3","2-Butanone (MEK)","20.6","µg/l",,"-99","NA",,"SPIKE","103",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","79-00-5","1,1,2-Trichloroethane","19.7","µg/l",,"-99","NA",,"SPIKE","98",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","79-01-6","Trichloroethene","19.5","µg/l",,"-99","NA",,"SPIKE","98",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","79-20-9","Methyl acetate","17.7","µg/l",,"-99","NA",,"SPIKE","89",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","79-34-5","1,1,2,2-Tetrachloroethane","21.4","µg/l",,"-99","NA",,"SPIKE","107",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","87-61-6","1,2,3-Trichlorobenzene","21.1","µg/l",,"-99","NA",,"SPIKE","106",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","95-47-6","o-Xylene","19.9","µg/l",,"-99","NA",,"SPIKE","100",,"-99","NA","YES","20.0","TF1-GT-136B-

091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","95-50-1","1,2-Dichlorobenzene","21.6","µg/l",,"-99","NA",,"SPIKE","108",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","96-12-8","1,2-Dibromo-3-chloropropane","19.4","µg/l",,"-99","NA",,"SPIKE","97",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8260C","RES","1715994-MS2","ESAI","98-82-8","Isopropylbenzene","20.7","µg/l",,"-99","NA",,"SPIKE","104",,"-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","1146-65-2","Naphthalene-d8","40.0","µg/ml",,"-99","NA",,"ISTD","131",,"-99","NA","YES","40.0","TF1-GT-136B-091417","940","1","-99",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","120-12-7","Anthracene","29.4","µg/l","QM7","0.647","MDL",,"SPIKE","55",,"5.32","RDL","YES","53.2","TF1-GT-136B-091417","940","1","1.06",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","129-00-0","Pyrene","30.9","µg/l",,"0.649","MDL",,"SPIKE","58",,"5.32","RDL","YES","53.2","TF1-GT-136B-091417","940","1","1.06",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","15067-26-2","Acenaphthene-d10","40.0","µg/ml",,"-99","NA",,"ISTD","101",,"-99","NA","YES","40.0","TF1-GT-136B-091417","940","1","-99",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","1517-22-2","Phenanthrene-d10","40.0","µg/ml",,"-99","NA",,"ISTD","129",,"-99","NA","YES","40.0","TF1-GT-136B-091417","940","1","-99",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","1520-96-3","Perylene-d12","40.0","µg/ml",,"-99","NA",,"ISTD","126",,"-99","NA","YES","40.0","TF1-GT-136B-091417","940","1","-99",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","1718-51-0","Terphenyl-dl4","39.4","µg/l",,"-99","NA",,"SUR","74",,"-99","NA","YES","53.2","TF1-GT-136B-091417","940","1","-99",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","1719-03-5","Chrysene-d12","40.0","µg/ml",,"-99","NA",,"ISTD","126",,"-99","NA","YES","40.0","TF1-GT-136B-091417","940","1","-99",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","191-24-2","Benzo (g,h,i) perylene","31.3","µg/l",,"0.564","MDL",,"SPIKE","59",,"5.32","RDL","YES","53.2","TF1-GT-136B-091417","940","1","1.06",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","193-39-5","Indeno (1,2,3-cd) pyrene","33.7","µg/l",,"0.617","MDL",,"SPIKE","63",,"5.32","RDL","YES","53.2","TF1-GT-136B-091417","940","1","1.06",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","205-99-2","Benzo (b) fluoranthene","31.6","µg/l",,"0.465","MDL",,"SPIKE","59",,"5.32","RDL","YES","53.2","TF1-GT-136B-091417","940","1","1.06",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","206-44-0","Fluoranthene","32.2","µg/l",,"0.679","MDL",,"SPIKE","61",,"5.32","RDL","YES","53.2","TF1-GT-136B-091417","940","1","1.06",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","207-08-9","Benzo (k) fluoranthene","32.0","µg/l",,"0.511","MDL",,"SPIKE","60",,"5.32","RDL","YES","53.2","TF1-GT-136B-091417","940","1","1.06",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","208-96-8","Acenaphthylene","35.2","µg/l",,"0.727","MDL",,"SPIKE","66",,"5.32","RDL","YES","53.2","TF1-GT-136B-091417","940","1","1.06",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","218-01-9","Chrysene","31.4","µg/l",,"0.566","MDL",,"SPIKE","59",,"5.32","RDL","YES","53.2","TF1-GT-136B-091417","940","1","1.06",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","321-60-8","2-Fluorobiphenyl","40.1","µg/l",,"-99","NA",,"SUR","75",,"-99","NA","YES","53.2","TF1-GT-136B-091417","940","1","-99",

"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","4165-60-0","Nitrobenzene-d5","29.2","µg/l",,"-99","NA",,"SUR","55",,"-99","NA","YES","53.2","TF1-GT-136B-091417","940","1","-99",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","50-32-8","Benzo (a) pyrene","33.6","µg/l",,"0.598","MDL",,"SPIKE","63",,"5.32","RDL","YES","53.2","TF1-GT-136B-091417","940","1","1.06",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","53-70-3","Dibenzo (a,h) anthracene","34.6","µg/l",,"0.479","MDL",,"SPIKE","65",,"5.32","RDL","YES","53.2","TF1-GT-136B-091417","940","1","1.06",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","56-55-3","Benzo (a) anthracene","32.0","µg/l",,"0.570","MDL",,"SPIKE","60",,"5.32","RDL","YES","53.2","TF1-GT-136B-091417","940","1","1.06",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","83-32-9","Acenaphthene","35.2","µg/l",,"0.735","MDL",,"SPIKE","66",,"5.32","RDL","YES","53.2","TF1-GT-136B-091417","940","1","1.06",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","85-01-8","Phenanthrene","28.5","µg/l","QC2","0.623","MDL",,"SPIKE","54",,"5.32","RDL","YES","53.2","TF1-GT-136B-091417","940","1","1.06",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","86-73-7","Fluorene","36.0","µg/l",,"0.651","MDL",,"SPIKE","68",,"5.32","RDL","YES","53.2","TF1-GT-136B-091417","940","1","1.06",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","90-12-0","1-Methylnaphthalene","36.7","µg/l",,"0.780","MDL",,"SPIKE","69",,"5.32","RDL","YES","53.2","TF1-GT-136B-091417","940","1","1.06",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","91-20-3","Naphthalene","25.4","µg/l",,"0.729","MDL",,"SPIKE","48",,"5.32","RDL","YES","53.2","TF1-GT-136B-091417","940","1","1.06",
"TF1-GT-136B-091417MS","SW846 8270D","RES","1716100-MS2","ESAI","91-57-6","2-Methylnaphthalene","30.5","µg/l",,"0.611","MDL",,"SPIKE","57",,"5.32","RDL","YES","53.2","TF1-GT-136B-091417","940","1","1.06",
"TF1-GT-136B-091417MSD","EPA 245.1/7470A","RES","1716321-MSD1","ESAI","7439-97-6","Mercury","0.00452","mg/l",,"0.00013","MDL",,"SPIKE","90","1","0.00020","RDL","YES","0.00500","TF1-GT-136B-091417","20","20","0.00020",
"TF1-GT-136B-091417MSD","EPA 300.0","RES","1715887-MSD2","ESAI","14797-55-8","Nitrate as N","1.50","mg/l",,"0.014","MDL",,"SPIKE","94","0.3","0.200","RDL","YES","1.60","TF1-GT-136B-091417","2.5","5","0.200",
"TF1-GT-136B-091417MSD","EPA 300.0","RES","1715887-MSD2","ESAI","14808-79-8","Sulfate as SO4","28.4","mg/l","QM7","1.60","MDL",,"SPIKE","148","0.04","2.00","RDL","YES","16.0","TF1-GT-136B-091417","2.5","5","2.00",
"TF1-GT-136B-091417MSD","EPA 300.0","RES","1715887-MSD2","ESAI","16887-00-6","Chloride","66.6","mg/l",,"0.199","MDL",,"SPIKE","92","0.08","2.00","RDL","YES","16.0","TF1-GT-136B-091417","2.5","5","0.200",
"TF1-GT-136B-091417MSD","SM18-22 5210B","RES","1715906-MSD1","ESAI","NA","Biochemical Oxygen Demand (5-day)","61.0","mg/l",,"2.74","MDL",,"SPIKE","103","3","30.0","RDL","YES","59.4","TF1-GT-136B-091417","300","300","2.97",
"TF1-GT-136B-091417MSD","SM2320B (97, 11)","RES","1716298-MSD1","ESAI","NA","Total Alkalinity","72.1","mg/l CaCO3",,"0.524","MDL",,"SPIKE","111","1","2.00","RDL","YES","25.0","TF1-GT-136B-091417","100","50","1.50",
"TF1-GT-136B-091417MSD","SM5310B (00, 11)","RES","1716423-MSD1","ESAI","NA","Total Organic Carbon","5.68","mg/l",,"0.238","MDL",,"SPIKE","88","0.1","1.00","RDL","YES","5.00","TF1-GT-136B-091417","40","40","0.500",
"TF1-GT-136B-091417MSD","SW846 6010C","RES","1716320-MSD1","ESAI","7429-90-5","Aluminum","2.69","mg/l",,"0.0206","MDL",,"SPIKE","107","1","0.0500","RDL","YES","2.50","TF1-GT-136B-091417","50","50","0.0500",
"TF1-GT-136B-091417MSD","SW846 6010C","RES","1716320-MSD1","ESAI","7439-95-4","Magnesium","6.21","mg/l",,"0.0088","MDL",,"SPIKE","96","0.8","0.0200","RDL","YES","2.50","TF1-GT-136B-091417","50","50","0.0100",
"TF1-GT-136B-091417MSD","SW846 6010C","RES","1716320-MSD1","ESAI","7440-23-

5","Sodium","29.3","mg/l",,"0.0785","MDL",,"SPIKE","97","0.7","0.500","RDL","YES","12.5","TF1-GT-136B-091417","50","50","0.250",
"TF1-GT-136B-091417MSD","SW846 6010C","RES","1716320-MSD1","ESAI","7440-70-2","Calcium","38.2","mg/l",,"0.0142","MDL",,"SPIKE","105","0.7","0.200","RDL","YES","12.5","TF1-GT-136B-091417","50","50","0.0500",
"TF1-GT-136B-091417MSD","SW846 6010C","RES","1716544-MSD1","ESAI","7439-89-6","Iron","12.4","mg/l",,"0.0089","MDL",,"SPIKE","104","0.6","0.0300","RDL","YES","2.50","TF1-GT-136B-091417","50","50","0.0300",
"TF1-GT-136B-091417MSD","SW846 6010C","RES","1716544-MSD1","ESAI","7440-09-7","Potassium","26.6","mg/l",,"0.120","MDL",,"SPIKE","102","3","1.00","RDL","YES","25.0","TF1-GT-136B-091417","50","50","0.250",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","1024-57-3","Heptachlor epoxide","0.357","µg/l",,"0.015","MDL",,"SPIKE","74","12","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","1024-57-3","Heptachlor epoxide [2C]","0.377","µg/l",,"0.014","MDL",,"SPIKE","78","8","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","1031-07-8","Endosulfan sulfate","0.421","µg/l",,"0.019","MDL",,"SPIKE","87","5","0.039","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","1031-07-8","Endosulfan sulfate [2C]","0.508","µg/l",,"0.016","MDL",,"SPIKE","105","3","0.039","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr)","0.220","µg/l",,"-99","NA",,"SUR","113",,"-99","NA","YES","0.194","TF1-GT-136B-091417","1030","10","-99",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","10386-84-2","4,4-DB-Octafluorobiphenyl (Sr) [2C]","0.230","µg/l",,"-99","NA",,"SUR","119",,"-99","NA","YES","0.194","TF1-GT-136B-091417","1030","10","-99",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","15972-60-8","Alachlor","0.444","µg/l",,"0.018","MDL",,"SPIKE","91","7","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","15972-60-8","Alachlor [2C]","0.456","µg/l",,"0.017","MDL",,"SPIKE","94","7","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","2051-24-3","Decachlorobiphenyl (Sr)","0.146","µg/l",,"-99","NA",,"SUR","75",,"-99","NA","YES","0.194","TF1-GT-136B-091417","1030","10","-99",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","2051-24-3","Decachlorobiphenyl (Sr) [2C]","0.147","µg/l",,"-99","NA",,"SUR","76",,"-99","NA","YES","0.194","TF1-GT-136B-091417","1030","10","-99",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","309-00-2","Aldrin","0.307","µg/l",,"0.015","MDL",,"SPIKE","63","7","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","309-00-2","Aldrin [2C]","0.301","µg/l",,"0.018","MDL",,"SPIKE","62","7","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","319-84-6","alpha-BHC","0.334","µg/l",,"0.011","MDL",,"SPIKE","69","8","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","319-84-6","alpha-BHC [2C]","0.348","µg/l",,"0.017","MDL",,"SPIKE","72","9","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","319-85-7","beta-BHC","0.412","µg/l",,"0.014","MDL",,"SPIKE","85","2","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","319-85-7","beta-BHC

[2C]","0.439","µg/l",,"0.019","MDL",,"SPIKE","91","8","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","319-86-8","delta-BHC","0.374","µg/l",,"0.015","MDL",,"SPIKE","77","8","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","319-86-8","delta-BHC [2C]","0.416","µg/l",,"0.019","MDL",,"SPIKE","86","9","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","33213-65-9","Endosulfan II","0.420","µg/l",,"0.019","MDL",,"SPIKE","87","4","0.039","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","33213-65-9","Endosulfan II [2C]","0.467","µg/l",,"0.015","MDL",,"SPIKE","96","7","0.039","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","50-29-3","4,4'-DDT (p,p')","0.348","µg/l",,"0.017","MDL",,"SPIKE","72","6","0.039","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.029",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","50-29-3","4,4'-DDT (p,p') [2C]","0.379","µg/l",,"0.021","MDL",,"SPIKE","78","10","0.039","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.029",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","5103-71-9","alpha-Chlordane","0.370","µg/l",,"0.015","MDL",,"SPIKE","76","12","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","5103-71-9","alpha-Chlordane [2C]","0.401","µg/l",,"0.017","MDL",,"SPIKE","83","6","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","5103-74-2","Chlordane (gamma)(trans)","0.387","µg/l",,"0.016","MDL",,"SPIKE","80","11","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","5103-74-2","Chlordane (gamma)(trans) [2C]","0.393","µg/l",,"0.014","MDL",,"SPIKE","81","7","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","53494-70-5","Endrin ketone","0.342","µg/l",,"0.017","MDL",,"SPIKE","71","13","0.039","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","53494-70-5","Endrin ketone [2C]","0.432","µg/l",,"0.018","MDL",,"SPIKE","89","5","0.039","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","58-89-9","gamma-BHC (Lindane)","0.344","µg/l",,"0.017","MDL",,"SPIKE","71","8","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","58-89-9","gamma-BHC (Lindane) [2C]","0.367","µg/l",,"0.017","MDL",,"SPIKE","76","9","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","60-57-1","Dieldrin","0.365","µg/l",,"0.017","MDL",,"SPIKE","75","15","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","60-57-1","Dieldrin [2C]","0.378","µg/l",,"0.018","MDL",,"SPIKE","78","7","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","72-20-8","Endrin","0.469","µg/l",,"0.019","MDL",,"SPIKE","97","12","0.039","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","72-20-8","Endrin [2C]","0.468","µg/l",,"0.019","MDL",,"SPIKE","96","9","0.039","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","72-43-

5","Methoxychlor","0.426","µg/l",,"0.018","MDL",,"SPIKE","88","7","0.039","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","72-43-5","Methoxychlor [2C]","0.407","µg/l",,"0.018","MDL",,"SPIKE","84","5","0.039","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","72-54-8","4,4'-DDD (p,p')","0.419","µg/l",,"0.018","MDL",,"SPIKE","86","11","0.039","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","72-54-8","4,4'-DDD (p,p') [2C]","0.470","µg/l",,"0.017","MDL",,"SPIKE","97","7","0.039","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","72-55-9","4,4'-DDE (p,p')","0.354","µg/l",,"0.017","MDL",,"SPIKE","73","12","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","72-55-9","4,4'-DDE (p,p') [2C]","0.364","µg/l",,"0.017","MDL",,"SPIKE","75","5","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","7421-93-4","Endrin aldehyde","0.466","µg/l",,"0.019","MDL",,"SPIKE","96","4","0.039","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","7421-93-4","Endrin aldehyde [2C]","0.469","µg/l",,"0.017","MDL",,"SPIKE","97","3","0.039","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","76-44-8","Heptachlor","0.319","µg/l",,"0.019","MDL",,"SPIKE","66","7","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","76-44-8","Heptachlor [2C]","0.369","µg/l",,"0.019","MDL",,"SPIKE","76","10","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS)","0.020","µg/ml",,"-99","NA",,"ISTD","96",,"-99","NA","YES","10.0","TF1-GT-136B-091417","1030","10","-99",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","877-09-8","2,4,5,6-TC-M-Xylene (IS) [2C]","0.020","µg/ml",,"-99","NA",,"ISTD","98",,"-99","NA","YES","10.0","TF1-GT-136B-091417","1030","10","-99",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","959-98-8","Endosulfan I","0.372","µg/l",,"0.016","MDL",,"SPIKE","77","12","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8081B","RES","1715920-MSD1","ESAI","959-98-8","Endosulfan I [2C]","0.419","µg/l",,"0.015","MDL",,"SPIKE","86","7","0.019","RDL","YES","0.485","TF1-GT-136B-091417","1030","10","0.019",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","100-41-4","Ethylbenzene","19.2","µg/l",,"-99","NA",,"SPIKE","96","3","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","100-42-5","Styrene","19.8","µg/l",,"-99","NA",,"SPIKE","99","3","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","10061-01-5","cis-1,3-Dichloropropene","20.0","µg/l",,"-99","NA",,"SPIKE","100","1","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","10061-02-6","trans-1,3-Dichloropropene","20.1","µg/l",,"-99","NA",,"SPIKE","100","1","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","106-46-7","1,4-Dichlorobenzene","19.8","µg/l",,"-99","NA",,"SPIKE","99","3","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","106-93-4","1,2-Dibromoethane

(EDB)","21.0","µg/l",,"-99","NA",,"SPIKE","105","2","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","107-06-2","1,2-Dichloroethane","19.3","µg/l",,"-99","NA",,"SPIKE","96","0.7","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","108-10-1","4-Methyl-2-pentanone (MIBK)","21.0","µg/l",,"-99","NA",,"SPIKE","105","5","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","108-87-2","Methylcyclohexane","17.8","µg/l",,"-99","NA",,"SPIKE","89","0.7","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","108-88-3","Toluene","19.1","µg/l",,"-99","NA",,"SPIKE","96","1","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","108-90-7","Chlorobenzene","20.0","µg/l",,"-99","NA",,"SPIKE","100","3","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","110-82-7","Cyclohexane","18.2","µg/l",,"-99","NA",,"SPIKE","91","1","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","120-82-1","1,2,4-Trichlorobenzene","21.6","µg/l",,"-99","NA",,"SPIKE","108","2","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","124-48-1","Dibromochloromethane","19.4","µg/l",,"-99","NA",,"SPIKE","97","0.2","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","127-18-4","Tetrachloroethene","19.4","µg/l",,"-99","NA",,"SPIKE","97","1","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","156-59-2","cis-1,2-Dichloroethene","17.7","µg/l",,"-99","NA",,"SPIKE","89","0.8","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","156-60-5","trans-1,2-Dichloroethene","17.1","µg/l",,"-99","NA",,"SPIKE","86","3","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","1634-04-4","Methyl tert-butyl ether","25.3","µg/l",,"-99","NA",,"SPIKE","103","0.6","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","17060-07-0","1,2-Dichloroethane-d4","47.7","µg/l",,"-99","NA",,"SUR","95",,"-99","NA","YES","50.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","179601-23-1","m,p-Xylene","19.6","µg/l",,"-99","NA",,"SPIKE","98","0.5","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","1868-53-7","Dibromofluoromethane","47.0","µg/l",,"-99","NA",,"SUR","94",,"-99","NA","YES","50.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","2037-26-5","Toluene-d8","49.5","µg/l",,"-99","NA",,"SUR","99",,"-99","NA","YES","50.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","3114-55-4","Chlorobenzene-d5","50.0","µg/l",,"-99","NA",,"ISTD","104",,"-99","NA","YES","50.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","3855-82-1","1,4-Dichlorobenzene-d4","50.0","µg/l",,"-99","NA",,"ISTD","100",,"-99","NA","YES","50.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","460-00-4","4-Bromofluorobenzene","50.5","µg/l",,"-99","NA",,"SUR","101",,"-99","NA","YES","50.0","TF1-GT-136B-091417","5","5","-99",

"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","462-06-6","Fluorobenzene","50.0","µg/l",,"-99","NA",,"ISTD","104",,"-99","NA","YES","50.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","541-73-1","1,3-Dichlorobenzene","19.8","µg/l",,"-99","NA",,"SPIKE","99","3","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","56-23-5","Carbon tetrachloride","19.8","µg/l",,"-99","NA",,"SPIKE","99","3","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","591-78-6","2-Hexanone (MBK)","20.7","µg/l",,"-99","NA",,"SPIKE","104","2","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","67-64-1","Acetone","18.6","µg/l",,"-99","NA",,"SPIKE","93","4","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","67-66-3","Chloroform","17.9","µg/l",,"-99","NA",,"SPIKE","89","2","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","71-43-2","Benzene","20.2","µg/l",,"-99","NA",,"SPIKE","101","0.1","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","71-55-6","1,1,1-Trichloroethane","19.8","µg/l",,"-99","NA",,"SPIKE","99","3","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","74-83-9","Bromomethane","17.6","µg/l",,"-99","NA",,"SPIKE","88","0.7","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","74-87-3","Chloromethane","15.4","µg/l",,"-99","NA",,"SPIKE","77","0.6","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","74-97-5","Bromochloromethane","17.8","µg/l",,"-99","NA",,"SPIKE","89","0.2","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","75-00-3","Chloroethane","16.9","µg/l",,"-99","NA",,"SPIKE","84","4","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","75-01-4","Vinyl chloride","15.3","µg/l",,"-99","NA",,"SPIKE","77","5","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","75-09-2","Methylene chloride","17.0","µg/l",,"-99","NA",,"SPIKE","85","1","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","75-15-0","Carbon disulfide","15.6","µg/l",,"-99","NA",,"SPIKE","78","1","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","75-25-2","Bromoform","19.1","µg/l",,"-99","NA",,"SPIKE","96","5","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","75-27-4","Bromodichloromethane","20.5","µg/l",,"-99","NA",,"SPIKE","102","0.2","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","75-34-3","1,1-Dichloroethane","18.0","µg/l",,"-99","NA",,"SPIKE","90","0.7","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","75-35-4","1,1-Dichloroethene","17.2","µg/l",,"-99","NA",,"SPIKE","86","0.2","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",

"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","75-69-4","Trichlorofluoromethane (Freon 11)","17.0","µg/l",,"-99","NA",,"SPIKE","85","2","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","75-71-8","Dichlorodifluoromethane (Freon12)","15.1","µg/l",,"-99","NA",,"SPIKE","75","0.8","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","76-13-1","1,1,2-Trichlorotrifluoroethane (Freon 113)","17.2","µg/l",,"-99","NA",,"SPIKE","86","0.4","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","78-87-5","1,2-Dichloropropane","19.9","µg/l",,"-99","NA",,"SPIKE","99","0","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","78-93-3","2-Butanone (MEK)","21.4","µg/l",,"-99","NA",,"SPIKE","107","3","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","79-00-5","1,1,2-Trichloroethane","20.2","µg/l",,"-99","NA",,"SPIKE","101","3","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","79-01-6","Trichloroethene","19.7","µg/l",,"-99","NA",,"SPIKE","98","0.8","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","79-20-9","Methyl acetate","17.7","µg/l",,"-99","NA",,"SPIKE","88","0.3","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","79-34-5","1,1,2,2-Tetrachloroethane","20.6","µg/l",,"-99","NA",,"SPIKE","103","4","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","87-61-6","1,2,3-Trichlorobenzene","21.1","µg/l",,"-99","NA",,"SPIKE","105","0.3","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","95-47-6","o-Xylene","19.4","µg/l",,"-99","NA",,"SPIKE","97","2","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","95-50-1","1,2-Dichlorobenzene","21.5","µg/l",,"-99","NA",,"SPIKE","108","0.5","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","96-12-8","1,2-Dibromo-3-chloropropane","20.2","µg/l",,"-99","NA",,"SPIKE","101","4","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8260C","RES","1715994-MSD2","ESAI","98-82-8","Isopropylbenzene","20.3","µg/l",,"-99","NA",,"SPIKE","102","2","-99","NA","YES","20.0","TF1-GT-136B-091417","5","5","-99",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","1146-65-2","Naphthalene-d8","40.0","µg/ml",,"-99","NA",,"ISTD","133",,"-99","NA","YES","40.0","TF1-GT-136B-091417","1000","1","-99",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","120-12-7","Anthracene","27.0","µg/l","QM7","0.608","MDL",,"SPIKE","54","9","5.00","RDL","YES","50.0","TF1-GT-136B-091417","1000","1","1.00",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","129-00-0","Pyrene","28.0","µg/l","QM7","0.610","MDL",,"SPIKE","56","10","5.00","RDL","YES","50.0","TF1-GT-136B-091417","1000","1","1.00",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","15067-26-2","Acenaphthene-d10","40.0","µg/ml",,"-99","NA",,"ISTD","102",,"-99","NA","YES","40.0","TF1-GT-136B-091417","1000","1","-99",

"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","1517-22-2","Phenanthrene-d10","40.0","µg/ml",,"-99","NA",,"ISTD","132",,"-99","NA","YES","40.0","TF1-GT-136B-091417","1000","1","-99",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","1520-96-3","Perylene-d12","40.0","µg/ml",,"-99","NA",,"ISTD","122",,"-99","NA","YES","40.0","TF1-GT-136B-091417","1000","1","-99",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","1718-51-0","Terphenyl-dl4","35.4","µg/l",,"-99","NA",,"SUR","71",,"-99","NA","YES","50.0","TF1-GT-136B-091417","1000","1","-99",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","1719-03-5","Chrysene-d12","40.0","µg/ml",,"-99","NA",,"ISTD","130",,"-99","NA","YES","40.0","TF1-GT-136B-091417","1000","1","-99",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","191-24-2","Benzo (g,h,i) perylene","28.8","µg/l",,"0.530","MDL",,"SPIKE","58","8","5.00","RDL","YES","50.0","TF1-GT-136B-091417","1000","1","1.00",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","193-39-5","Indeno (1,2,3-cd) pyrene","31.6","µg/l",,"0.580","MDL",,"SPIKE","63","7","5.00","RDL","YES","50.0","TF1-GT-136B-091417","1000","1","1.00",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","205-99-2","Benzo (b) fluoranthene","32.4","µg/l",,"0.437","MDL",,"SPIKE","65","2","5.00","RDL","YES","50.0","TF1-GT-136B-091417","1000","1","1.00",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","206-44-0","Fluoranthene","29.2","µg/l",,"0.638","MDL",,"SPIKE","58","10","5.00","RDL","YES","50.0","TF1-GT-136B-091417","1000","1","1.00",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","207-08-9","Benzo (k) fluoranthene","30.4","µg/l",,"0.480","MDL",,"SPIKE","61","5","5.00","RDL","YES","50.0","TF1-GT-136B-091417","1000","1","1.00",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","208-96-8","Acenaphthylene","32.6","µg/l",,"0.683","MDL",,"SPIKE","65","8","5.00","RDL","YES","50.0","TF1-GT-136B-091417","1000","1","1.00",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","218-01-9","Chrysene","28.6","µg/l","QC2","0.532","MDL",,"SPIKE","57","10","5.00","RDL","YES","50.0","TF1-GT-136B-091417","1000","1","1.00",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","321-60-8","2-Fluorobiphenyl","37.0","µg/l",,"-99","NA",,"SUR","74",,"-99","NA","YES","50.0","TF1-GT-136B-091417","1000","1","-99",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","4165-60-0","Nitrobenzene-d5","26.8","µg/l",,"-99","NA",,"SUR","54",,"-99","NA","YES","50.0","TF1-GT-136B-091417","1000","1","-99",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","50-32-8","Benzo (a) pyrene","30.8","µg/l",,"0.562","MDL",,"SPIKE","62","9","5.00","RDL","YES","50.0","TF1-GT-136B-091417","1000","1","1.00",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","53-70-3","Dibenzo (a,h) anthracene","32.0","µg/l",,"0.450","MDL",,"SPIKE","64","8","5.00","RDL","YES","50.0","TF1-GT-136B-091417","1000","1","1.00",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","56-55-3","Benzo (a) anthracene","28.7","µg/l","QM7","0.536","MDL",,"SPIKE","57","11","5.00","RDL","YES","50.0","TF1-GT-136B-091417","1000","1","1.00",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","83-32-9","Acenaphthene","32.3","µg/l",,"0.691","MDL",,"SPIKE","65","9","5.00","RDL","YES","50.0","TF1-GT-136B-091417","1000","1","1.00",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","85-01-8","Phenanthrene","26.1","µg/l","QC2","0.586","MDL",,"SPIKE","52","9","5.00","RDL","YES","50.0","TF1-GT-136B-091417","1000","1","1.00",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","86-73-7","Fluorene","33.2","µg/l",,"0.612","MDL",,"SPIKE","66","8","5.00","RDL","YES","50.0","TF1-GT-136B-091417","1000","1","1.00",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","90-12-0","1-Methylnaphthalene","33.8","µg/l",,"0.733","MDL",,"SPIKE","68","8","5.00","RDL","YES","50.0","TF1-GT-

136B-091417","1000","1","1.00",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","91-20-3","Naphthalene","23.4","µg/l",,"0.685","MDL",,"SPIKE","47","8","5.00","RDL","YES","50.0","TF1-GT-136B-091417","1000","1","1.00",
"TF1-GT-136B-091417MSD","SW846 8270D","RES","1716100-MSD2","ESAI","91-57-6","2-Methylnaphthalene","28.0","µg/l",,"0.574","MDL",,"SPIKE","56","9","5.00","RDL","YES","50.0","TF1-GT-136B-091417","1000","1","1.00",
"TF1-GT-136B-091417PS","EPA 245.1/7470A","RES","1716321-PS1","ESAI","7439-97-6","Mercury","0.00437","mg/l",,"0.00013","MDL",,"SPIKE","87",,"0.00020","RDL","YES","0.00500","TF1-GT-136B-091417","20","20","0.00020",
"TF1-GT-136B-091417PS","SW846 6010C","RES","1716320-PS1","ESAI","7429-90-5","Aluminum","2.63","mg/l",,"0.0206","MDL",,"SPIKE","104",,"0.0500","RDL","YES","2.50","TF1-GT-136B-091417","50","50","0.0500",
"TF1-GT-136B-091417PS","SW846 6010C","RES","1716320-PS1","ESAI","7439-95-4","Magnesium","6.35","mg/l",,"0.0088","MDL",,"SPIKE","102",,"0.0200","RDL","YES","2.50","TF1-GT-136B-091417","50","50","0.0100",
"TF1-GT-136B-091417PS","SW846 6010C","RES","1716320-PS1","ESAI","7440-23-5","Sodium","29.6","mg/l",,"0.0785","MDL",,"SPIKE","99",,"0.500","RDL","YES","12.5","TF1-GT-136B-091417","50","50","0.250",
"TF1-GT-136B-091417PS","SW846 6010C","RES","1716320-PS1","ESAI","7440-70-2","Calcium","38.2","mg/l",,"0.0142","MDL",,"SPIKE","105",,"0.200","RDL","YES","12.5","TF1-GT-136B-091417","50","50","0.0500",
"TF1-GT-136B-091417PS","SW846 6010C","RES","1716544-PS1","ESAI","7439-89-6","Iron","12.5","mg/l",,"0.0089","MDL",,"SPIKE","104",,"0.0300","RDL","YES","2.50","TF1-GT-136B-091417","50","50","0.0300",
"TF1-GT-136B-091417PS","SW846 6010C","RES","1716544-PS1","ESAI","7440-09-7","Potassium","25.8","mg/l",,"0.120","MDL",,"SPIKE","100",,"1.00","RDL","YES","25.0","TF1-GT-136B-091417","50","50","0.250",
"TF1-TB-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","ESAI","17060-07-0","1,2-Dichloroethane-
d4","50.5","µg/l",,"-99","NA",,"SUR","101",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-TB-091417","SW846 8260C","RES","SC39266-04","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-TB-091417","SW846 8260C","RES","SC39266-04","ESAI","1868-53-
7","Dibromofluoromethane","49.0","µg/l",,"-99","NA",,"SUR","98",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-TB-091417","SW846 8260C","RES","SC39266-04","ESAI","2037-26-5","Toluene-
d8","47.9","µg/l",,"-99","NA",,"SUR","96",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-TB-091417","SW846 8260C","RES","SC39266-04","ESAI","3114-55-4","Chlorobenzene-
d5","50.0","µg/l",,"-99","NA",,"ISTD","90",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-TB-091417","SW846 8260C","RES","SC39266-04","ESAI","3855-82-1","1,4-Dichlorobenzene-
d4","50.0","µg/l",,"-99","NA",,"ISTD","79",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-TB-091417","SW846 8260C","RES","SC39266-04","ESAI","460-00-4","4-
Bromofluorobenzene","46.2","µg/l",,"-99","NA",,"SUR","92",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-TB-091417","SW846 8260C","RES","SC39266-04","ESAI","462-06-
6","Fluorobenzene","50.0","µg/l",,"-99","NA",,"ISTD","94",,"-99","NA","YES","50.0",,"5","5","-99",
"TF1-TB-091417","SW846 8260C","RES","SC39266-04","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-TB-091417","SW846 8260C","RES","SC39266-04","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-TB-091417","SW846 8260C","RES","SC39266-04","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-TB-091417","SW846 8260C","RES","SC39266-04","ESAI","67-64-
1","Acetone","2.0","µg/l","U","0.8","MDL",,"TARGET",,,"10.0","RDL","YES","-99",,"5","5","2.0",
"TF1-TB-091417","SW846 8260C","RES","SC39266-04","ESAI","67-66-
3","Chloroform","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-TB-091417","SW846 8260C","RES","SC39266-04","ESAI","71-43-
2","Benzene","0.5","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","0.5",
"TF1-TB-091417","SW846 8260C","RES","SC39266-04","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-TB-091417","SW846 8260C","RES","SC39266-04","ESAI","74-83-
9","Bromomethane","2.0","µg/l","U","0.9","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-TB-091417","SW846 8260C","RES","SC39266-04","ESAI","74-87-
3","Chloromethane","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","1.0",
"TF1-TB-091417","SW846 8260C","RES","SC39266-04","ESAI","74-97-
5","Bromochloromethane","1.0","µg/l","U","0.3","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-TB-091417","SW846 8260C","RES","SC39266-04","ESAI","75-00-
3","Chloroethane","2.0","µg/l","U","0.6","MDL",,"TARGET",,,"2.0","RDL","YES","-99",,"5","5","2.0",
"TF1-TB-091417","SW846 8260C","RES","SC39266-04","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-TB-091417","SW846 8260C","RES","SC39266-04","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-TB-091417","SW846 8260C","RES","SC39266-04","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-TB-091417","SW846 8260C","RES","SC39266-04","ESAI","75-25-
2","Bromoform","1.0","µg/l","U","0.4","MDL",,"TARGET",,,"1.0","RDL","YES","-99",,"5","5","1.0",
"TF1-TB-091417","SW846 8260C","RES","SC39266-04","ESAI","75-27-
4","Bromodichloromethane","0.5","µg/l","U","0.4","MDL",,"TARGET",,,"0.5","RDL","YES","-99",,"5","5","0.5",
"TF1-TB-091417","SW846 8260C","RES","SC39266-04","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-TB-091417","SW846 8260C","RES","SC39266-04","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-TB-091417","SW846 8260C","RES","SC39266-04","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-TB-091417","SW846 8260C","RES","SC39266-04","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-TB-091417","SW846 8260C","RES","SC39266-04","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-TB-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-091417","SW846 8260C","RES","SC39266-04","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-TB-091417","SW846 8260C","RES","SC39266-04","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-TB-091417","SW846 8260C","RES","SC39266-04","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-TB-091417","SW846 8260C","RES","SC39266-04","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-TB-091417","SW846 8260C","RES","SC39266-04","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-TB-091417","SW846 8260C","RES","SC39266-04","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","1715887-BLK1",,"Aqueous","1715887-BLK1","Method Bla",,"-99","EPA 300.0","Gen Prep","RES","09/15/2017 14:21","09/15/2017 16:47","ESAI","COA","NA","T","1","NA",,,"100","1715887","1715887","1715887","1715887","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715887-BS1",,"Aqueous","1715887-BS1","LCS",,"-99","EPA 300.0","Gen Prep","RES","09/15/2017 14:21","09/15/2017 17:03","ESAI","COA","NA","T","1","NA",,,"100","1715887","1715887","1715887","1715887","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715887-SRM1",,"Aqueous","1715887-SRM1","Reference",,"-99","EPA 300.0","Gen Prep","RES","09/15/2017 14:21","09/15/2017 17:19","ESAI","COA","NA","T","1","NA",,,"100","1715887","1715887","1715887","1715887","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715906-BLK1",,"Aqueous","1715906-BLK1","Method Bla",,"-99","SM18-22 5210B","Gen Prep","RES","09/15/2017 13:30","09/27/2017 16:04","ESAI","COA","NA","T","1","NA",,,"100","1715906","1715906","1715906","1715906","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715906-BLK2",,"Aqueous","1715906-BLK2","Method Bla",,"-99","SM18-22 5210B","Gen Prep","RES","09/15/2017 13:30","09/27/2017 16:04","ESAI","COA","NA","T","1","NA",,,"100","1715906","1715906","1715906","1715906","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715906-BS1",,"Aqueous","1715906-BS1","LCS",,"-99","SM18-22 5210B","Gen Prep","RES","09/15/2017 13:30","09/27/2017 16:04","ESAI","COA","NA","T","1","NA",,,"100","1715906","1715906","1715906","1715906","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715906-SRM1",,"Aqueous","1715906-SRM1","Reference",,"-99","SM18-22 5210B","Gen Prep","RES","09/15/2017 13:30","09/27/2017 16:04","ESAI","COA","NA","T","1","NA",,,"100","1715906","1715906","1715906","1715906","SC39266","09/1

5/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715906-SRM2",,"Aqueous","1715906-SRM2","Reference",,"-99","SM18-22 5210B","Gen Prep","RES","09/15/2017 13:30","09/27/2017 16:04","ESAI","COA","NA","T","1","NA",,,"100","1715906","1715906","1715906","1715906","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"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","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"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","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"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","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715994-BLK1",,"Aqueous","1715994-BLK1","Method Bla",,"-99","SW846 8260C","SW846 5030 Water MS","RES","09/18/2017 11:30","09/18/2017 21:36","ESAI","COA","NA","NA","1","NA",,,"100","1715994","1715994","1715994","1715994","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715994-BS1",,"Aqueous","1715994-BS1","LCS",,"-99","SW846 8260C","SW846 5030 Water MS","RES","09/18/2017 11:30","09/18/2017 22:34","ESAI","COA","NA","NA","1","NA",,,"100","1715994","1715994","1715994","1715994","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1715994-BSD1",,"Aqueous","1715994-BSD1","LCS Dup",,"-99","SW846 8260C","SW846 5030 Water MS","RES","09/18/2017 11:30","09/18/2017 23:03","ESAI","COA","NA","NA","1","NA",,,"100","1715994","1715994","1715994","1715994","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716073-BLK1",,"Aqueous","1716073-BLK1","Method Bla",,"-99","Mod EPA 3C/SOP RSK-175","Gen Prep","RES","09/19/2017 06:00","09/19/2017 10:52","ESAI","COA","NA","NA","1","NA",,,"100","1716073","1716073","1716073","1716073","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716073-BS1",,"Aqueous","1716073-BS1","LCS",,"-99","Mod EPA 3C/SOP RSK-175","Gen Prep","RES","09/19/2017 06:00","09/19/2017 10:17","ESAI","COA","NA","NA","1","NA",,,"100","1716073","1716073","1716073","1716073","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716100-BLK1",,"Aqueous","1716100-BLK1","Method Bla",,"-99","SW846 8270D","SW846 3510C","RES","09/20/2017 10:00","09/22/2017 01:41","ESAI","COA","NA","NA","1","NA",,,"100","1716100","1716100","1716100","1716100","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716100-BS1",,"Aqueous","1716100-BS1","LCS",,"-99","SW846 8270D","SW846 3510C","RES","09/20/2017 10:00","09/22/2017 02:13","ESAI","COA","NA","NA","1","NA",,,"100","1716100","1716100","1716100","1716100","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716100-BSD1",,"Aqueous","1716100-BSD1","LCS Dup",,"-99","SW846 8270D","SW846 3510C","RES","09/20/2017 10:00","09/22/2017 02:44","ESAI","COA","NA","NA","1","NA",,,"100","1716100","1716100","1716100","1716100","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716132-BLK1",,"Aqueous","1716132-BLK1","Method Bla",,"-99","Mod EPA 3C/SOP RSK-175","Gen Prep","RES","09/20/2017 06:00","09/20/2017 09:55","ESAI","COA","NA","NA","1","NA",,,"100","1716132","1716132","1716132","1716132","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716132-BS1",,"Aqueous","1716132-BS1","LCS",,"-99","Mod EPA 3C/SOP RSK-175","Gen Prep","RES","09/20/2017 06:00","09/20/2017 09:26","ESAI","COA","NA","NA","1","NA",,,"100","1716132","1716132","1716132","1716132","SC39266","09/15/2017 14:45","10/16/2017 12:55",

"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716298-BLK1",,"Aqueous","1716298-BLK1","Method Bla",,"-99","SM2320B (97, 11)","Gen Prep","RES","09/22/2017 17:45","09/26/2017 14:57","ESAI","COA","NA","T","1","NA",,,"100","1716298","1716298","1716298","1716298","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716298-BLK2",,"Aqueous","1716298-BLK2","Method Bla",,"-99","SM2320B (97, 11)","Gen Prep","RES","09/22/2017 17:45","09/26/2017 15:49","ESAI","COA","NA","T","1","NA",,,"100","1716298","1716298","1716298","1716298","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716298-BLK3",,"Aqueous","1716298-BLK3","Method Bla",,"-99","SM2320B (97, 11)","Gen Prep","RES","09/22/2017 17:45","09/26/2017 17:15","ESAI","COA","NA","T","1","NA",,,"100","1716298","1716298","1716298","1716298","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716298-BLK4",,"Aqueous","1716298-BLK4","Method Bla",,"-99","SM2320B (97, 11)","Gen Prep","RES","09/22/2017 17:45","09/26/2017 17:58","ESAI","COA","NA","T","1","NA",,,"100","1716298","1716298","1716298","1716298","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716298-BS1",,"Aqueous","1716298-BS1","LCS",,"-99","SM2320B (97, 11)","Gen Prep","RES","09/22/2017 17:45","09/26/2017 14:59","ESAI","COA","NA","T","1","NA",,,"100","1716298","1716298","1716298","1716298","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716298-BS2",,"Aqueous","1716298-BS2","LCS",,"-99","SM2320B (97, 11)","Gen Prep","RES","09/22/2017 17:45","09/26/2017 15:50","ESAI","COA","NA","T","1","NA",,,"100","1716298","1716298","1716298","1716298","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716298-BS3",,"Aqueous","1716298-BS3","LCS",,"-99","SM2320B (97, 11)","Gen Prep","RES","09/22/2017 17:45","09/26/2017 17:17","ESAI","COA","NA","T","1","NA",,,"100","1716298","1716298","1716298","1716298","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716298-BS4",,"Aqueous","1716298-BS4","LCS",,"-99","SM2320B (97, 11)","Gen Prep","RES","09/22/2017 17:45","09/26/2017 18:00","ESAI","COA","NA","T","1","NA",,,"100","1716298","1716298","1716298","1716298","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716298-SRM1",,"Aqueous","1716298-SRM1","Reference",,"-99","SM2320B (97, 11)","Gen Prep","RES","09/22/2017 17:45","09/26/2017 15:04","ESAI","COA","NA","T","1","NA",,,"100","1716298","1716298","1716298","1716298","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716320-BLK1",,"Aqueous","1716320-BLK1","Method Bla",,"-99","SW846 6010C","SW846 3005A","RES","09/25/2017 17:30","09/27/2017 00:59","ESAI","COA","NA","T","1","NA",,,"100","1716320","1716320","1716320","1716320","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716320-BS1",,"Aqueous","1716320-BS1","LCS",,"-99","SW846 6010C","SW846 3005A","RES","09/25/2017 17:30","09/27/2017 01:04","ESAI","COA","NA","T","1","NA",,,"100","1716320","1716320","1716320","1716320","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716320-BSD1",,"Aqueous","1716320-BSD1","LCS Dup",,"-99","SW846 6010C","SW846 3005A","RES","09/25/2017 17:30","09/27/2017 01:10","ESAI","COA","NA","T","1","NA",,,"100","1716320","1716320","1716320","1716320","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716321-BLK1",,"Aqueous","1716321-BLK1","Method Bla",,"-99","EPA 245.1/7470A","EPA200/SW7000 Series","RES","09/25/2017 17:30","09/26/2017 17:54","ESAI","COA","NA","T","1","NA",,,"100","1716321","1716321","1716321","1716321","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716321-BS1",,"Aqueous","1716321-BS1","LCS",,"-99","EPA 245.1/7470A","EPA200/SW7000 Series","RES","09/25/2017 17:30","09/26/2017 17:56","ESAI","COA","NA","T","1","NA",,,"100","1716321","1716321","1716321","1716321","SC39266","09/15/2017 14:45","10/16/2017 12:55",

"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716423-BLK1",,"Aqueous","1716423-BLK1","Method Bla",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/26/2017 09:55","09/26/2017 12:20","ESAI","COA","NA","T","1","NA",,,"100","1716423","1716423","1716423","1716423","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716423-BS1",,"Aqueous","1716423-BS1","LCS",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/26/2017 09:55","09/26/2017 12:35","ESAI","COA","NA","T","1","NA",,,"100","1716423","1716423","1716423","1716423","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716423-CCB1",,"Aqueous","1716423-CCB1","Calibratio",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/26/2017 09:55","09/26/2017 12:04","ESAI","COA","NA","T","1","NA",,,"100","1716423","1716423","1716423","1716423","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716423-CCB2",,"Aqueous","1716423-CCB2","Calibratio",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/26/2017 09:55","09/26/2017 15:17","ESAI","COA","NA","T","1","NA",,,"100","1716423","1716423","1716423","1716423","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716423-CCB3",,"Aqueous","1716423-CCB3","Calibratio",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/26/2017 09:55","09/26/2017 18:50","ESAI","COA","NA","T","1","NA",,,"100","1716423","1716423","1716423","1716423","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716423-CCB4",,"Aqueous","1716423-CCB4","Calibratio",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/26/2017 09:55","09/26/2017 21:18","ESAI","COA","NA","T","1","NA",,,"100","1716423","1716423","1716423","1716423","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716423-CCV1",,"Aqueous","1716423-CCV1","Calibratio",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/26/2017 09:55","09/26/2017 11:48","ESAI","COA","NA","T","1","NA",,,"100","1716423","1716423","1716423","1716423","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716423-CCV2",,"Aqueous","1716423-CCV2","Calibratio",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/26/2017 09:55","09/26/2017 15:00","ESAI","COA","NA","T","1","NA",,,"100","1716423","1716423","1716423","1716423","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716423-CCV3",,"Aqueous","1716423-CCV3","Calibratio",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/26/2017 09:55","09/26/2017 18:34","ESAI","COA","NA","T","1","NA",,,"100","1716423","1716423","1716423","1716423","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716423-CCV4",,"Aqueous","1716423-CCV4","Calibratio",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/26/2017 09:55","09/26/2017 21:01","ESAI","COA","NA","T","1","NA",,,"100","1716423","1716423","1716423","1716423","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716423-SRM1",,"Aqueous","1716423-SRM1","Reference",,"-99","SM5310B (00, 11)","Gen Prep","RES","09/26/2017 09:55","09/26/2017 12:53","ESAI","COA","NA","T","1","NA",,,"100","1716423","1716423","1716423","1716423","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716544-BLK1",,"Aqueous","1716544-BLK1","Method Bla",,"-99","SW846 6010C","SW846 3005A","RES","09/25/2017 17:30","09/29/2017 20:28","ESAI","COA","NA","T","1","NA",,,"100","1716544","1716544","1716544","1716544","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716544-BS1",,"Aqueous","1716544-BS1","LCS",,"-99","SW846 6010C","SW846 3005A","RES","09/25/2017 17:30","09/29/2017 20:33","ESAI","COA","NA","T","1","NA",,,"100","1716544","1716544","1716544","1716544","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","1716544-BSD1",,"Aqueous","1716544-BSD1","LCS Dup",,"-99","SW846 6010C","SW846 3005A","RES","09/25/2017 17:30","09/29/2017 20:38","ESAI","COA","NA","T","1","NA",,,"100","1716544","1716544","1716544","1716544","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","Grab-WILLH-091417","09/14/2017

15:10","Aqueous","SC39266-02","NM","SC39266","3.2","EPA 200/6000 methods","Gen Prep","RES","09/18/2017 10:45","09/18/2017 10:45","ESAI","COA","NA","T","1","NA",,,"100","1716005","1716005","1716005","1716005","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","Grab-WILLH-091417","09/14/2017 15:10","Aqueous","SC39266-02","NM","SC39266","3.2","EPA 245.1/7470A","EPA200/SW7000 Series","RES","09/25/2017 17:30","09/26/2017 18:09","ESAI","COA","NA","T","1","NA",,,"100","1716321","1716321","1716321","1716321","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","Grab-WILLH-091417","09/14/2017 15:10","Aqueous","SC39266-02","NM","SC39266","3.2","EPA 300.0","Gen Prep","RES","09/15/2017 14:21","09/16/2017 02:24","ESAI","COA","NA","T","1","NA",,,"100","1715887","1715887","1715887","1715887","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","Grab-WILLH-091417","09/14/2017 15:10","Aqueous","SC39266-02","NM","SC39266","3.2","Mod EPA 3C/SOP RSK-175","Gen Prep","RES","09/19/2017 06:00","09/19/2017 17:17","ESAI","COA","NA","NA","1","NA",,,"100","1716073","1716073","1716073","1716073","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","Grab-WILLH-091417","09/14/2017 15:10","Aqueous","SC39266-02","NM","SC39266","3.2","SM18-22 5210B","Gen Prep","RES","09/15/2017 13:30","09/27/2017 16:04","ESAI","COA","NA","T","1","NA",,,"100","1715906","1715906","1715906","1715906","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","Grab-WILLH-091417","09/14/2017 15:10","Aqueous","SC39266-02","NM","SC39266","3.2","SM2320B (97, 11)","Gen Prep","RES","09/22/2017 17:45","09/26/2017 15:30","ESAI","COA","NA","T","1","NA",,,"100","1716298","1716298","1716298","1716298","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","Grab-WILLH-091417","09/14/2017 15:10","Aqueous","SC39266-02","NM","SC39266","3.2","SM5310B (00, 11)","Gen Prep","RES","09/26/2017 09:55","09/26/2017 14:12","ESAI","COA","NA","T","1","NA",,,"100","1716423","1716423","1716423","1716423","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","Grab-WILLH-091417","09/14/2017 15:10","Aqueous","SC39266-02","NM","SC39266","3.2","SW846 6010C","SW846 3005A","RES","09/25/2017 17:30","09/27/2017 01:45","ESAI","COA","NA","T","1","NA",,,"100","1716320","1716320","1716320","1716320","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","Grab-WILLH-091417","09/14/2017 15:10","Aqueous","SC39266-02","NM","SC39266","3.2","SW846 6010C","SW846 3005A","RES","09/25/2017 17:30","09/29/2017 21:13","ESAI","COA","NA","T","1","NA",,,"100","1716544","1716544","1716544","1716544","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","Grab-WILLH-091417","09/14/2017 15:10","Aqueous","SC39266-02","NM","SC39266","3.2","SW846 8081B","SW846 3510C","RES","09/18/2017 08:00","09/28/2017 05:24","ESAI","COA","NA","NA","1","NA",,,"100","1715920","1715920","1715920","1715920","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","Grab-WILLH-091417","09/14/2017 15:10","Aqueous","SC39266-02","NM","SC39266","3.2","SW846 8260C","SW846 5030 Water MS","RES","09/18/2017 11:30","09/19/2017 04:53","ESAI","COA","NA","NA","1","NA",,,"100","1715994","1715994","1715994","1715994","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","Grab-WILLH-091417","09/14/2017 15:10","Aqueous","SC39266-02","NM","SC39266","3.2","SW846 8270D","SW846 3510C","RES","09/20/2017 10:00","09/27/2017

17:51","ESAI","COA","NA","NA","1","NA",,,"100","1716100","1716100","1716100","1716100","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","Grab-WILLH-091417","09/14/2017 15:10","Aqueous","SC39266-02RE1","NM","SC39266","3.2","Mod EPA 3C/SOP RSK-175","Gen Prep","DL10","09/20/2017 06:00","09/20/2017 13:13","ESAI","COA","NA","NA","10","NA",,,"100","1716132","1716132","1716132","1716132","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","Grab-WILLH-091417","09/14/2017 15:10","H2O","SC39266-02","NM","SC39266","3.2","EPA 537 Modified","METHOD","RES","09/20/2017 15:10","09/26/2017 22:11","ESAI","COA","NA","NA","1","NA",,,"-99","17263007","17263007","17263007","17263007","SC39266","09/15/2017 14:45","10/16/2017 12:55",
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"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","Grab-WILLH-091417","09/14/2017 15:10","H2O","SC39266-02","NM","SC39266","3.2","SW-846 8015B","SW-846 3510C","RES","09/20/2017 22:50","09/21/2017 18:29","ESAI","COA","NA","NA","1","NA",,,"-99","172630007A","172630007A","172630007A","172630007A","SC39266","09/15/2017 14:45","10/16/2017 12:55",
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10:20","Aqueous","SC39266-01","NM","SC39266","3.2","SM18-22 5210B","Gen Prep","RES","09/15/2017
13:30","09/27/2017
16:04","ESAI","COA","NA","T","1","NA",,,"100","1715906","1715906","1715906","1715906","SC39266","09/1
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17:45","09/26/2017
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13:09","ESAI","COA","NA","T","1","NA",,,"100","1716423","1716423","1716423","1716423","SC39266","09/1
5/2017 14:45","10/16/2017 12:55",
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10:20","Aqueous","SC39266-01","NM","SC39266","3.2","SW846 6010C","SW846 3005A","RES","09/25/2017
17:30","09/27/2017
01:20","ESAI","COA","NA","T","1","NA",,,"100","1716320","1716320","1716320","1716320","SC39266","09/1
5/2017 14:45","10/16/2017 12:55",
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10:20","Aqueous","SC39266-01","NM","SC39266","3.2","SW846 6010C","SW846 3005A","RES","09/25/2017
17:30","09/29/2017
20:48","ESAI","COA","NA","T","1","NA",,,"100","1716544","1716544","1716544","1716544","SC39266","09/1
5/2017 14:45","10/16/2017 12:55",
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10:20","Aqueous","SC39266-01","NM","SC39266","3.2","SW846 8081B","SW846 3510C","RES","09/18/2017
08:00","09/28/2017
05:05","ESAI","COA","NA","NA","1","NA",,,"100","1715920","1715920","1715920","1715920","SC39266","09/
15/2017 14:45","10/16/2017 12:55",
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MS","RES","09/18/2017 11:30","09/19/2017
04:24","ESAI","COA","NA","NA","1","NA",,,"100","1715994","1715994","1715994","1715994","SC39266","09/
15/2017 14:45","10/16/2017 12:55",
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10:00","09/27/2017
17:19","ESAI","COA","NA","NA","1","NA",,,"100","1716100","1716100","1716100","1716100","SC39266","09/
15/2017 14:45","10/16/2017 12:55",
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15:10","09/26/2017
07:24","ESAI","COA","NA","NA","1","NA",,,"-99","17263007","17263007","17263007","17263007","SC39266",
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06:47","10/09/2017
17:58","ESAI","COA","NA","NA","1","NA",,,"-99","172771063901","172771063901","172771063901","172771
063901","SC39266","09/15/2017 14:45","10/16/2017 12:55",
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10:20","H2O","SC39266-01","NM","SC39266","3.2","SW-846 8015B","SW-846 3510C","RES","09/20/2017
22:50","09/21/2017
14:54","ESAI","COA","NA","NA","1","NA",,,"-99","172630007A","172630007A","172630007A","172630007A","
SC39266","09/15/2017 14:45","10/16/2017 12:55",
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14:21","09/15/2017
18:55","ESAI","COA","NA","T","1","NA",,,"100","1715887","1715887","1715887","1715887","SC39266","09/1
5/2017 14:45","10/16/2017 12:55",
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14:21","09/16/2017
12:13","ESAI","COA","NA","T","2","NA",,,"100","1715887","1715887","1715887","1715887","SC39266","09/1
5/2017 14:45","10/16/2017 12:55",
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10:20","Aqueous","1716073-DUP2","Duplicate","SC39266","3.2","Mod EPA 3C/SOP RSK-175","Gen
Prep","RES","09/19/2017 06:00","09/19/2017
16:48","ESAI","COA","NA","NA","1","NA",,,"100","1716073","1716073","1716073","1716073","SC39266","09/
15/2017 14:45","10/16/2017 12:55",
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Prep","RES","09/22/2017 17:45","09/26/2017
15:12","ESAI","COA","NA","T","1","NA",,,"100","1716298","1716298","1716298","1716298","SC39266","09/1
5/2017 14:45","10/16/2017 12:55",
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3005A","RES","09/25/2017 17:30","09/27/2017
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5/2017 14:45","10/16/2017 12:55",
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10:20","Aqueous","1716321-DUP1","Duplicate","SC39266","3.2","EPA 245.1/7470A","EPA200/SW7000
Series","RES","09/25/2017 17:30","09/26/2017
18:01","ESAI","COA","NA","T","1","NA",,,"100","1716321","1716321","1716321","1716321","SC39266","09/1
5/2017 14:45","10/16/2017 12:55",
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Prep","RES","09/26/2017 09:55","09/26/2017
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3005A","RES","09/25/2017 17:30","09/29/2017
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14:21","09/16/2017
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13:30","09/27/2017
16:04","ESAI","COA","NA","T","1","NA",,,"100","1715906","1715906","1715906","1715906","SC39266","09/1
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08:00","09/27/2017
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MS","RES","09/18/2017 11:30","09/19/2017
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17:45","09/26/2017
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Series","RES","09/25/2017 17:30","09/26/2017
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17:30","09/29/2017
20:59","ESAI","COA","NA","T","1","NA",,,"100","1716544","1716544","1716544","1716544","SC39266","09/1
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13:48","ESAI","COA","NA","T","1","NA",,,"100","1715887","1715887","1715887","1715887","SC39266","09/1
5/2017 14:45","10/16/2017 12:55",
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13:30","09/27/2017
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5/2017 14:45","10/16/2017 12:55",
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3510C","RES","09/18/2017 08:00","09/27/2017
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15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-GT-136B-091417MSD","09/14/2017
10:20","Aqueous","1715994-MSD2","MSD","SC39266","3.2","SW846 8260C","SW846 5030 Water
MS","RES","09/18/2017 11:30","09/19/2017
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3510C","RES","09/20/2017 10:00","09/27/2017
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"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-GT-136B-091417MSD","09/14/2017 10:20","Aqueous","1716544-MSD1","MSD","SC39266","3.2","SW846 6010C","SW846 3005A","RES","09/25/2017 17:30","09/29/2017 21:04","ESAI","COA","NA","T","1","NA",,,"100","1716544","1716544","1716544","1716544","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-GT-136B-091417PS","09/14/2017 10:20","Aqueous","1716320-PS1","Post Spike","SC39266","3.2","SW846 6010C","SW846 3005A","RES","09/25/2017 17:30","09/27/2017 01:40","ESAI","COA","NA","T","1","NA",,,"100","1716320","1716320","1716320","1716320","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-GT-136B-091417PS","09/14/2017 10:20","Aqueous","1716321-PS1","Post Spike","SC39266","3.2","EPA 245.1/7470A","EPA200/SW7000 Series","RES","09/25/2017 17:30","09/26/2017 18:07","ESAI","COA","NA","T","1","NA",,,"100","1716321","1716321","1716321","1716321","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-GT-136B-091417PS","09/14/2017 10:20","Aqueous","1716544-PS1","Post Spike","SC39266","3.2","SW846 6010C","SW846 3005A","RES","09/25/2017 17:30","09/29/2017 21:08","ESAI","COA","NA","T","1","NA",,,"100","1716544","1716544","1716544","1716544","SC39266","09/15/2017 14:45","10/16/2017 12:55",
"112G08005-WE15","WE15 Tank Farm 1 NAVSTA Newport","TF1-TB-091417","09/14/2017 08:00","Aqueous","SC39266-04","NM","SC39266","3.2","SW846 8260C","SW846 5030 Water MS","RES","09/18/2017 11:30","09/19/2017 05:22","ESAI","COA","NA","NA","1","NA",,,"100","1715994","1715994","1715994","1715994","SC39266","09/15/2017 14:45","10/16/2017 12:55",

TETRA TECH

INTERNAL CORRESPONDENCE

TO: **S. PARKER** **DATE:** **JANUARY 23, 2018**

FROM: **TERRI L. SOLOMON** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC & INORGANIC DATA VALIDATION – VOC/ PAH/ PESTICIDE/ OVG/ TPH/ PFAS/ METALS/ MISCELLANEOUS**
NAVAL STATION (NAVSTA) NEWPORT, PORTSMOUTH, RHODE ISLAND
WE15 TANK FARM 1
SAMPLE DELIVERY GROUP (SDG) SC39266

SAMPLES: 2/Aqueous/
VOC, PAH, Pesticide, OVG, TPH, PFAS, Metals, Miscellaneous
Grab-WILLH-091417 TF1-GT-136B-091417

1/Trip Blank/
VOC
TF1-TB-091417

1/Field Reagent Blank (FRB)
PFAS
TF1-FRB-091417

Overview

The sample set for NAVSTA Newport, SDG SC39266 consisted of two (2) aqueous environmental samples, one (1) trip blank and one (1) FRB sample. Two (2) aqueous environmental samples were analyzed for volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), pesticides, organic volatile gasses (OVG) including ethane and methane, perfluorinated alkyl acids (PFAS), target analyte list (TAL) metals, total petroleum hydrocarbons (TPH) and miscellaneous parameters (alkalinity, chloride, sulfate, nitrate, total organic carbon (TOC) and biological oxygen demand (BOD)) as referenced above. The trip blank was analyzed for VOCs only. The FRB sample was analyzed for PFAS only. No field duplicate sample pairs were included in this SDG.

The samples were collected by Tetra Tech, Inc. on September 14, 2017 and analyzed by Eurofins – Spectrum Analytical. All analyses were conducted in accordance with SW846 methods 8260C, 8270D, 8081B, 8015B, 6010C, 6020A, 7470A, EPA methods RSK-175, 537 version 1.1 Mod., 300.0 and Standard Methods 5310B, 5210B and 2320B 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 and Trip Blank Results
* • ICP Interference Recoveries
• Surrogate Spike Recoveries
• Laboratory Control Sample/Laboratory Control Sample Duplicate Results
• Matrix Spike/Matrix Spike Duplicate Results
* • Laboratory Duplicate Precision
* • ICP Serial Dilution Results
* • Internal Standard Areas

* • Standard Reference Material Recoveries
* • 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

In the PFAS fraction, the percent recoveries (%Rs) for surrogate 13C8-PFOSA were below the quality control limit in all samples. The non-detected results reported for perfluorooctane sulfonamide in the affected samples were qualified as estimated (UJ).

LABORATORY CONTROL SAMPLE / LABORATORY CONTROL SAMPLE DUPLICATE RESULTS

The PAH laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) %Rs were below the quality control limit for chrysene, fluorene, phenanthrene, fluoranthene and pyrene for sample 1716100-BS1 . All samples were affected. The nondetected results reported for the aforementioned compounds in the affected samples were qualified as estimated (UJ).

The original TPH LCS %R was below the quality control limit. The laboratory re-prepared the environmental samples 11 days past the seven (7) day holding time. The original results were used for validation. The detected and nondetected results reported for TPH for samples Grab-WILLH-091417 and TF1-GT-136B-091417 were qualified as biased low (J-) and estimated (UJ), respectively.

MATRIX SPIKE /MATRIX SPIKE DUPLICATE RESULTS

The PAH matrix spike (MS) and/or matrix spike duplicate (MSD) %Rs for anthracene, phenanthrene, benzo(a)anthracene, chrysene and pyrene were below the quality control limits for sample TF1-GT-136B-091417. The nondetected results reported for the aforementioned compounds in the affected sample were qualified as estimated (UJ).

The sulfate MS/MSD %Rs were above the quality control limits. The detected results reported for sulfate were qualified as biased high, (J+).

NOTES

Sample TF1-GT-136B-091417 was analyzed at a dilution for chloride and sulfate. Detection limits of the non-detected results were elevated.

The methane result for sample Grab-WILLH-091417 was above the calibration range for the original result. The laboratory reanalyzed the sample, within hold time, at a 10X dilution. The diluted result was chosen for validation.

The following analytes were detected in the laboratory method blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Reporting Limit (RL) > or <
Sodium	0.142 mg/L	< RL
Calcium	0.0227 mg/L	< RL

No validation actions were warranted as all sample results were greater than the reporting

limit.

No detected results were present the FRB sample.

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: Surrogate recoveries were noncompliant in the PFAS fraction. LCS/LCSD recoveries were noncompliant in the PAH and TPH fractions. MS and/or MSD %Rs were noncompliant in the PAH and sulfate fractions.

Other Factors Affecting Data Quality: 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) and 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). The text of this report has been formulated to address only those areas affecting data quality.

Tetra Tech, Inc.
Terri L. Solomon
Environmental Chemist

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	Grab-WILLH-091417			TF1-GT-136B-091417			TF1-TB-091417		
SDG: SC39266	LAB_ID	SC39266-02			SC39266-01			SC39266-04		
FRACTION: OV	SAMP_DATE	9/14/2017			9/14/2017			9/14/2017		
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
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	0.5	U		0.5	U		0.5	U	
1,1,2-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U		1	U		1	U	
1,2,3-TRICHLOROBENZENE	1	U		1	U		1	U	
1,2,4-TRICHLOROBENZENE	1	U		1	U		1	U	
1,2-DIBROMO-3-CHLOROPROPANE	2	U		2	U		2	U	
1,2-DIBROMOETHANE	0.5	U		0.5	U		0.5	U	
1,2-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U	
1,3-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U	
1,4-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U	
2-BUTANONE	2.1			2	U		2	U	
2-HEXANONE	2	U		2	U		2	U	
4-METHYL-2-PENTANONE	2	U		2	U		2	U	
ACETONE	6.5	J	P	2	U		2	U	
BENZENE	0.5	U		0.5	U		0.5	U	
BROMOCHLOROMETHANE	1	U		1	U		1	U	
BROMODICHLOROMETHANE	0.5	U		0.5	U		0.5	U	
BROMOFORM	1	U		1	U		1	U	
BROMOMETHANE	2	U		2	U		2	U	
CARBON DISULFIDE	1	U		1	U		1	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U	
CHLOROBENZENE	0.5	U		0.5	U		0.5	U	
CHLORODIBROMOMETHANE	0.5	U		0.5	U		0.5	U	
CHLOROETHANE	2	U		2	U		2	U	
CHLOROFORM	1	U		1	U		1	U	
CHLOROMETHANE	1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U	
CIS-1,3-DICHLOROPROPENE	0.5	U		0.5	U		0.5	U	
CYCLOHEXANE	2	U		2	U		2	U	
DICHLORODIFLUOROMETHANE	2	U		2	U		2	U	

PROJ_NO: 08005-WE15	NSAMPLE	Grab-WILLH-091417			TF1-GT-136B-091417			TF1-TB-091417		
SDG: SC39266	LAB_ID	SC39266-02			SC39266-01			SC39266-04		
FRACTION: OV	SAMP_DATE	9/14/2017			9/14/2017			9/14/2017		
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
ETHYLBENZENE	0.5	U		0.5	U		0.5	U	
ISOPROPYLBENZENE	1	U		1	U		1	U	
M+P-XYLENES	1	U		1	U		1	U	
METHYL ACETATE	2	U		2	U		2	U	
METHYL CYCLOHEXANE	2	U		2	U		2	U	
METHYL TERT-BUTYL ETHER	0.5	U		4.8			0.5	U	
METHYLENE CHLORIDE	2	U		2	U		2	U	
O-XYLENE	1	U		1	U		1	U	
STYRENE	1	U		1	U		1	U	
TETRACHLOROETHENE	1	U		1	U		1	U	
TOLUENE	1.2			1	U		1	U	
TRANS-1,2-DICHLOROETHENE	1	U		1	U		1	U	
TRANS-1,3-DICHLOROPROPENE	0.5	U		0.5	U		0.5	U	
TRICHLOROETHENE	1	U		1	U		1	U	
TRICHLOROFLUOROMETHANE	1	U		1	U		1	U	
VINYL CHLORIDE	1	U		1	U		1	U	

PROJ_NO: 08005-WE15	NSAMPLE	Grab-WILLH-091417			TF1-GT-136B-091417		
SDG: SC39266	LAB_ID	SC39266-02			SC39266-01		
FRACTION: OS	SAMP_DATE	9/14/2017			9/14/2017		
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
1-METHYLNAPHTHALENE		1.06	U		1	U	
2-METHYLNAPHTHALENE		1.06	U		1	U	
ACENAPHTHENE		1.06	U		1	U	
ACENAPHTHYLENE		1.06	U		1	U	
ANTHRACENE		1.06	U		1	UJ	D
BENZO(A)ANTHRACENE		1.06	U		1	UJ	D
BENZO(A)PYRENE		1.06	U		1	U	
BENZO(B)FLUORANTHENE		1.06	U		1	U	
BENZO(G,H,I)PERYLENE		1.06	U		1	U	
BENZO(K)FLUORANTHENE		1.06	U		1	U	
CHRYSENE		1.06	UJ	E	1	UJ	DE
DIBENZO(A,H)ANTHRACENE		1.06	U		1	U	
FLUORANTHENE		1.06	UJ	E	1	UJ	E
FLUORENE		1.06	UJ	E	1	UJ	E
INDENO(1,2,3-CD)PYRENE		1.06	U		1	U	
NAPHTHALENE		1.06	U		1	U	
PHENANTHRENE		1.06	UJ	E	1	UJ	DE
PYRENE		1.06	UJ	E	1	UJ	DE

PROJ_NO: 08005-WE15	NSAMPLE	Grab-WILLH-091417			TF1-GT-136B-091417		
SDG: SC39266	LAB_ID	SC39266-02			SC39266-01		
FRACTION: PEST	SAMP_DATE	9/14/2017			9/14/2017		
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		0.028	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		0.068	U		0.061	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		0.526	U		0.472	U	

PROJ_NO: 08005-WE15	NSAMPLE	Grab-WILLH-091417			Grab-WILLH-091417-RE			TF1-GT-136B-091417		
SDG: SC39266	LAB_ID	SC39266-02			SC39266-02RE1			SC39266-01		
FRACTION: OVG	SAMP_DATE	9/14/2017			9/14/2017			9/14/2017		
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					5	U	
METHANE					3330			2.2	U	

PROJ_NO: 08005-WE15	NSAMPLE	Grab-WILLH-091417			TF1-GT-136B-091417		
SDG: SC39266	LAB_ID	SC39266-02			SC39266-01		
FRACTION: PET	SAMP_DATE	9/14/2017			9/14/2017		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
TPH (C08-C44)		0.27	J-	E	0.1	UJ	E

PROJ_NO: 08005-WE15	NSAMPLE	Grab-WILLH-091417			TF1-FRB-091417			TF1-GT-136B-091417		
SDG: SC39266	LAB_ID	SC39266-02			SC39266-03			SC39266-01		
FRACTION: PFAS	SAMP_DATE	9/14/2017			9/14/2017			9/14/2017		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	NG/L			NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PENTADECAFLUOROOCTANOIC ACID		43			2	U		5		
PERFLUOROBUTANESULFONIC ACID		16			3	U		1	J	P
PERFLUOROBUTANOIC ACID		31			10	U		10	U	
PERFLUORODECANE SULFONIC ACID		6	U		6	U		6	U	
PERFLUORODECANOIC ACID		0.8	J	P	2	U		2	U	
PERFLUORODODECANOIC ACID		2	U		2	U		2	U	
PERFLUOROHEPTANESULFONIC ACID		6	U		6	U		6	U	
PERFLUOROHEPTANOIC ACID		27			2	U		1	J	P
PERFLUOROHEXANESULFONIC ACID		44			3	U		5		
PERFLUOROHEXANOIC ACID		97			2	U		2		
PERFLUORONONANOIC ACID		3			2	U		6		
PERFLUOROOCTANE SULFONAMIDE		9	UJ	R	9	UJ	R	9	UJ	R
PERFLUOROOCTANE SULFONIC ACID		12			6	U		5	J	P
PERFLUOROPENTANOIC ACID		94			2	U		2		
PERFLUOROTETRADECANOIC ACID		2	U		2	U		2	U	
PERFLUOROTRIDECANOIC ACID		2	U		2	U		2	U	
PERFLUOROUNDECANOIC ACID		3	U		3	U		3	U	

PROJ_NO: 08005-WE15	NSAMPLE	Grab-WILLH-091417						TF1-GT-136B-091417					
SDG: SC39266	LAB_ID	SC39266-02						SC39266-01					
FRACTION: M	SAMP_DATE	9/14/2017						9/14/2017					
MEDIA: WATER	QC_TYPE	NM						NM					
	UNITS	MG/L						MG/L					
	PCT_SOLIDS	0.0			199.0			0.0			199.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		0.686						0.0265	J	P			
ANTIMONY					0.00045	U					0.00045	U	
ARSENIC					0.0236						0.007		
BARIUM					0.0403						0.0826		
BERYLLIUM					7.1E-05	U					0.071	U	
CADMIUM					0.00015	U					0.00015	U	
CALCIUM		42.2						25.1					
CHROMIUM					0.0015	J	P				0.0024	J	P
COBALT					0.0364						0.0382		
COPPER					0.0021	J	P				0.00054	U	
IRON		101						9.86					
LEAD					0.0033						0.00011	U	
MAGNESIUM		6.06						3.8					
MANGANESE					7.1						2.45		
MERCURY		0.0002	U					0.0002	U				
MOLYBDENUM					0.0036						0.0008	J	P
NICKEL					0.0109						0.0144		
POTASSIUM		4.93						0.933	J	P			
SELENIUM					0.0005	U					0.0005	U	
SILVER					0.00015	U					0.00015	U	
SODIUM		13.8						17.2					
THALLIUM					0.00012	U					0.00012	U	
VANADIUM					0.0014						0.00021	U	
ZINC					0.0079	J	P				0.0105	J	P

PROJ_NO: 08005-WE15	NSAMPLE	Grab-WILLH-091417			TF1-GT-136B-091417		
SDG: SC39266	LAB_ID	SC39266-02			SC39266-01		
FRACTION: MISC	SAMP_DATE	9/14/2017			9/14/2017		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALKALINITY		132			44.4		
BIOCHEMICAL OXYGEN DEMAND		21			2.97	U	
CHLORIDE		29.9			51.8		
NITRATE-N		0.1	U		0.1	U	
SULFATE		9.12	J+	D	4.77	J+	D
TOTAL ORGANIC CARBON		20			1.3		

Appendix B

Results as Reported by the Laboratory

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

TF1-GT-136B-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Ground Water	Laboratory ID:	SC39266-01	File ID:	3926601.D
Sampled:	09/14/17 10:20	Prepared:	09/18/17 11:30	Analyzed:	09/19/17 04:24
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Batch:	1715994	Sequence:	S708283	Calibration:	1709039
Instrument:	HPV7				
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	4.8		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-136B-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Ground Water	Laboratory ID:	SC39266-01	File ID:	3926601.D
Sampled:	09/14/17 10:20	Prepared:	09/18/17 11:30	Analyzed:	09/19/17 04:24
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Batch:	1715994	Sequence:	S708283	Calibration:	1709039
Instrument:	HPV7				
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

Grab-WILLH-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Surface Water	Laboratory ID:	SC39266-02	File ID:	3926602.D
Sampled:	09/14/17 15:10	Prepared:	09/18/17 11:30	Analyzed:	09/19/17 04:53
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Batch:	1715994	Sequence:	S708283	Calibration:	1709039
Instrument:	HPV7				
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	6.5	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	2.1		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	1.2		0.3	1.0	1.0

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8260C

Grab-WILLH-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Surface Water	Laboratory ID:	SC39266-02	File ID:	3926602.D
Sampled:	09/14/17 15:10	Prepared:	09/18/17 11:30	Analyzed:	09/19/17 04:53
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Batch:	1715994	Sequence:	S708283	Calibration:	1709039
Instrument:	HPV7				
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-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	QC	Laboratory ID:	SC39266-04	File ID:	3926604.D
Sampled:	09/14/17 08:00	Prepared:	09/18/17 11:30	Analyzed:	09/19/17 05:22
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Batch:	1715994	Sequence:	S708283	Calibration:	1709039
Instrument:	HPV7				
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-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	QC	Laboratory ID:	SC39266-04	File ID:	3926604.D
Sampled:	09/14/17 08:00	Prepared:	09/18/17 11:30	Analyzed:	09/19/17 05:22
% Solids:		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Batch:	1715994	Sequence:	S708283	Calibration:	1709039
Instrument:	HPV7				
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-136B-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Ground Water	Laboratory ID:	SC39266-01	File ID:	C3926601.D
Sampled:	09/14/17 10:20	Prepared:	09/20/17 10:00	Analyzed:	09/27/17 17:19
% Solids:		Preparation:	SW846 3510C	Initial/Final:	1000 ml / 1 ml
Batch:	1716100	Sequence:	S708647	Calibration:	1709033
Instrument:	HPS5				
Reported to:	LOD				

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
83-32-9	Acenaphthene	1	1.00	U	0.691	1.00	5.00
208-96-8	Acenaphthylene	1	1.00	U	0.683	1.00	5.00
120-12-7	Anthracene	1	1.00	U	0.608	1.00	5.00
56-55-3	Benzo (a) anthracene	1	1.00	U	0.536	1.00	5.00
50-32-8	Benzo (a) pyrene	1	1.00	U	0.562	1.00	5.00
205-99-2	Benzo (b) fluoranthene	1	1.00	U	0.437	1.00	5.00
191-24-2	Benzo (g,h,i) perylene	1	1.00	U	0.530	1.00	5.00
207-08-9	Benzo (k) fluoranthene	1	1.00	U	0.480	1.00	5.00
218-01-9	Chrysene	1	1.00	U	0.532	1.00	5.00
53-70-3	Dibenzo (a,h) anthracene	1	1.00	U	0.450	1.00	5.00
206-44-0	Fluoranthene	1	1.00	U	0.638	1.00	5.00
86-73-7	Fluorene	1	1.00	U	0.612	1.00	5.00
193-39-5	Indeno (1,2,3-cd) pyrene	1	1.00	U	0.580	1.00	5.00
90-12-0	1-Methylnaphthalene	1	1.00	U	0.733	1.00	5.00
91-57-6	2-Methylnaphthalene	1	1.00	U	0.574	1.00	5.00
91-20-3	Naphthalene	1	1.00	U	0.685	1.00	5.00
85-01-8	Phenanthrene	1	1.00	U	0.586	1.00	5.00
129-00-0	Pyrene	1	1.00	U	0.610	1.00	5.00

FORM I - ORGANIC ANALYSIS DATA SHEET

SW846 8270D

Grab-WILLH-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Surface Water	Laboratory ID:	SC39266-02	File ID:	C3926602.D
Sampled:	09/14/17 15:10	Prepared:	09/20/17 10:00	Analyzed:	09/27/17 17:51
% Solids:		Preparation:	SW846 3510C	Initial/Final:	940 ml / 1 ml
Batch:	1716100	Sequence:	S708647	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 - ANALYSIS DATA SHEET

SW846 8081B

TF1-GT-136B-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Ground Water	Laboratory ID:	SC39266-01	File ID:	3926601Z.D
Sampled:	09/14/17 10:20	Prepared:	09/18/17 08:00	Analyzed:	09/28/17 05:05
% Solids:		Preparation:	SW846 3510C	Initial/Final:	1060 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	0.016	0.019	0.019
76-44-8	Heptachlor	1	0.019	U	0.018	0.019	0.019
309-00-2	Aldrin	1	0.019	U	0.015	0.019	0.019
1024-57-3	Heptachlor epoxide	1	0.019	U	0.014	0.019	0.019
959-98-8	Endosulfan I	1	0.019	U	0.015	0.019	0.019
60-57-1	Dieldrin	1	0.019	U	0.016	0.019	0.019
72-55-9	4,4'-DDE (p,p')	1	0.019	U	0.017	0.019	0.019
72-20-8	Endrin	1	0.019	U	0.018	0.019	0.038
33213-65-9	Endosulfan II	1	0.019	U	0.019	0.019	0.038
72-54-8	4,4'-DDD (p,p')	1	0.019	U	0.018	0.019	0.038
1031-07-8	Endosulfan sulfate	1	0.019	U	0.019	0.019	0.038
50-29-3	4,4'-DDT (p,p')	1	0.028	U	0.017	0.028	0.038
72-43-5	Methoxychlor	1	0.019	U	0.017	0.019	0.038
53494-70-5	Endrin ketone	1	0.019	U	0.016	0.019	0.038
7421-93-4	Endrin aldehyde	1	0.019	U	0.018	0.019	0.038
5103-71-9	alpha-Chlordane	1	0.019	U	0.015	0.019	0.019
5103-74-2	Chlordane (gamma)(trans)	1	0.019	U	0.015	0.019	0.019
8001-35-2	Toxaphene	1	0.472	U	0.309	0.472	0.472
57-74-9	Chlordane	1	0.061	U	0.048	0.061	0.061
15972-60-8	Alachlor	1	0.019	U	0.018	0.019	0.019

FORM I - ANALYSIS DATA SHEET

SW846 8081B

Grab-WILLH-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Surface Water	Laboratory ID:	SC39266-02	File ID:	3926602Z.D
Sampled:	09/14/17 15:10	Prepared:	09/18/17 08:00	Analyzed:	09/28/17 05:24
% Solids:		Preparation:	SW846 3510C	Initial/Final:	950 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	0.015	0.021	0.021
319-86-8	delta-BHC	1	0.021	U	0.016	0.021	0.021
58-89-9	gamma-BHC (Lindane)	1	0.021	U	0.018	0.021	0.021
76-44-8	Heptachlor	1	0.021	U	0.021	0.021	0.021
309-00-2	Aldrin	1	0.021	U	0.017	0.021	0.021
1024-57-3	Heptachlor epoxide	1	0.021	U	0.016	0.021	0.021
959-98-8	Endosulfan I	1	0.021	U	0.017	0.021	0.021
60-57-1	Dieldrin	1	0.021	U	0.018	0.021	0.021
72-55-9	4,4'-DDE (p,p')	1	0.021	U	0.019	0.021	0.021
72-20-8	Endrin	1	0.021	U	0.020	0.021	0.042
33213-65-9	Endosulfan II	1	0.021	U	0.021	0.021	0.042
72-54-8	4,4'-DDD (p,p')	1	0.021	U	0.020	0.021	0.042
1031-07-8	Endosulfan sulfate	1	0.021	U	0.021	0.021	0.042
50-29-3	4,4'-DDT (p,p')	1	0.032	U	0.019	0.032	0.042
72-43-5	Methoxychlor	1	0.021	U	0.019	0.021	0.042
53494-70-5	Endrin ketone	1	0.021	U	0.018	0.021	0.042
7421-93-4	Endrin aldehyde	1	0.021	U	0.020	0.021	0.042
5103-71-9	alpha-Chlordane	1	0.021	U	0.016	0.021	0.021
5103-74-2	Chlordane (gamma)(trans)	1	0.021	U	0.017	0.021	0.021
8001-35-2	Toxaphene	1	0.526	U	0.345	0.526	0.526
57-74-9	Chlordane	1	0.068	U	0.054	0.068	0.068
15972-60-8	Alachlor	1	0.021	U	0.020	0.021	0.021

FORM I - ORGANIC ANALYSIS DATA SHEET

Mod EPA 3C/SOP RSK-175

TF1-GT-136B-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Ground Water	Laboratory ID:	SC39266-01	File ID:	091917-chanb-015-0
Sampled:	09/14/17 10:20	Prepared:	09/19/17 06:00	Analyzed:	09/19/17 16:26
% Solids:		Preparation:	General Air Prep	Initial/Final:	10 µg / 10 µg
Batch:	1716073	Sequence:	S708332	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

Grab-WILLH-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Surface Water	Laboratory ID:	SC39266-02	File ID:	091917-chanb-017-0
Sampled:	09/14/17 15:10	Prepared:	09/19/17 06:00	Analyzed:	09/19/17 17:17
% Solids:		Preparation:	General Air Prep	Initial/Final:	10 µg / 10 µg
Batch:	1716073	Sequence:	S708332	Calibration:	1707028
Instrument:	Air5				
Reported to:	LOD				

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
74-82-8	Methane	1	1230	E	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

Grab-WILLH-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Surface Water	Laboratory ID:	SC39266-02RE1	File ID:	092017-chanb-009-0
Sampled:	09/14/17 15:10	Prepared:	09/20/17 06:00	Analyzed:	09/20/17 13:13
% Solids:		Preparation:	General Air Prep	Initial/Final:	10 µg / 10 µg
Batch:	1716132	Sequence:	S708388	Calibration:	1707028
Instrument:	Air5				
Reported to:	LOD				

CAS NO.	COMPOUND	DILUTION	CONC. (µg/l)	Q	MDL	LOD	LOQ
74-82-8	Methane	10	3330	D	21.6	22.0	22.0
74-84-0	Ethane	10	50.0	UD	34.8	50.0	50.0

Sample Description: SC39266-01 Grab Water

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Sample # WW 9215143
ELLE Group # 1851878
Account # 30891

Collected: 09/14/2017 10:20

Submitted: 09/19/2017 09:45
Reported: 10/06/2017 12:28

TF1-GT-136B-091417
Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

O4101 SDG#: THO41-01BKG

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	0.20	1
02740	Total TPH	n.a.	0.10	U	0.051	0.10	0.20	1

The recovery for a target analyte(s) and surrogate(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

Misc. Organics	**EPA 537 Version 1.1 Modified**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10954	Perfluorobutanesulfonate	375-73-5	1	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	1	J	0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	5		1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	2		0.6	2	2	1
10954	Perfluorononanoic acid	375-95-1	6		0.6	2	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	5	J	2	6	6	1
10954	Perfluorooctanoic acid	335-67-1	5		0.6	2	2	1
10954	Perfluoropentanoic Acid	2706-90-3	2		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	172630007A	09/21/2017 14:54	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172630007A	09/20/2017 22:50	Karen L Beyer	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17263007	09/26/2017 07:24	Marissa C Drexinger	1

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

Sample Description: SC39266-01 Grab Water

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Sample # WW 9215143
ELLE Group # 1851878
Account # 30891

Collected: 09/14/2017 10:20

Submitted: 09/19/2017 09:45
Reported: 10/06/2017 12:28

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

O4101 SDG#: THO41-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17263007	09/20/2017 15:10	Danielle D McCully	1

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

Sample Description: SC39266-02 Grab Water

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Sample # WW 9215146
ELLE Group # 1851878
Account # 30891

Grab-WILLH-091417

Collected: 09/14/2017 15:10

Submitted: 09/19/2017 09:45
Reported: 10/06/2017 12:28

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

O4102 SDG#: THO41-02

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.	0.27		0.054	0.11	0.22	1
02740	Total TPH	n.a.	0.27		0.054	0.11	0.22	1
	The recovery for a target analyte(s) and surrogate(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.							
Misc. Organics	**EPA 537 Version 1.1 Modified**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10954	Perfluorobutanesulfonate	375-73-5	16		0.8	3	3	1
10954	Perfluorobutanoic Acid	375-22-4	31		3	10	10	1
10954	Perfluorodecanesulfonate	335-77-3	6	U	2	6	6	1
10954	Perfluorodecanoic acid	335-76-2	0.8	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	27		0.5	2	2	1
10954	Perfluorohexanesulfonate	355-46-4	44		1	3	3	1
10954	Perfluorohexanoic acid	307-24-4	97		0.6	2	2	1
10954	Perfluorononanoic acid	375-95-1	3		0.6	2	2	1
10954	Perfluoro-octanesulfonate	1763-23-1	12		2	6	6	1
10954	Perfluorooctanoic acid	335-67-1	43		0.6	2	2	1
10954	Perfluoropentanoic Acid	2706-90-3	94		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	172630007A	09/21/2017 18:29	Timothy M Emrick	1
11181	Custom TPH w/ Ranges Water Ext	SW-846 3510C	1	172630007A	09/20/2017 22:50	Karen L Beyer	1
10954	PFAS in Water by LC/MS/MS	EPA 537 Version 1.1 Modified	1	17263007	09/26/2017 22:11	Jason W Knight	1

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

Sample Description: SC39266-02 Grab Water

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Sample # WW 9215146
ELLE Group # 1851878
Account # 30891

Collected: 09/14/2017 15:10

Submitted: 09/19/2017 09:45
Reported: 10/06/2017 12:28

Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

O4102 SDG#: THO41-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17263007	09/20/2017 15:10	Danielle D McCully	1

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

Sample Description: SC39266-03 Grab Water

Project Name: WE15 Tank Farm 1 NAVSTA Newport

ELLE Sample # WW 9215147
ELLE Group # 1851878
Account # 30891

Collected: 09/14/2017 15:10

Submitted: 09/19/2017 09:45
Reported: 10/06/2017 12:28

TF1-FRB-091417
Eurofins Spectrum Analytical
11 Almgren Drive
Agawan MA 01001

O4103 SDG#: THO41-03

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	17263007	09/26/2017 08:46	Marissa C Drexinger	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	17263007	09/20/2017 15:10	Danielle D McCully	1

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

FORM I - INORGANIC ANALYSIS DATA SHEET

SW846 6010C

TF1-GT-136B-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Ground Water	Laboratory ID:	SC39266-01	File ID:	20170929-107
Sampled:	09/14/17 10:20	Prepared:	09/25/17 17:30		
% Solids:		Preparation:	SW846 3005A	Initial/Final:	50 ml / 50 ml
Batch:	1716544	Sequence:	S710438	Calibration:	1711058
Instrument:	ICAP5				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	9.86		1	0.0089	0.0300	0.0300
7440-09-7	Potassium	0.933	J	1	0.120	0.250	1.00
7440-23-5	Sodium	17.2		1	0.0785	0.250	0.500
7429-90-5	Aluminum	0.0265	J	1	0.0206	0.0500	0.0500
7440-70-2	Calcium	25.1		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	3.80		1	0.0088	0.0100	0.0200

FORM I - INORGANIC ANALYSIS DATA SHEET

SW846 6010C

Grab-WILLH-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Surface Water	Laboratory ID:	SC39266-02	File ID:	20170929-112
Sampled:	09/14/17 15:10	Prepared:	09/25/17 17:30		
% Solids:		Preparation:	SW846 3005A	Initial/Final:	50 ml / 50 ml
Batch:	1716544	Sequence:	S710438	Calibration:	1711058
Instrument:	ICAP5				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
7439-89-6	Iron	101		1	0.0089	0.0300	0.0300
7440-09-7	Potassium	4.93		1	0.120	0.250	1.00
7440-23-5	Sodium	13.8		1	0.0785	0.250	0.500
7429-90-5	Aluminum	0.686		1	0.0206	0.0500	0.0500
7440-70-2	Calcium	42.2		1	0.0142	0.0500	0.200
7439-95-4	Magnesium	6.06		1	0.0088	0.0100	0.0200

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 245.1/7470A

TF1-GT-136B-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Ground Water	Laboratory ID:	SC39266-01	File ID:	092617A-085
Sampled:	09/14/17 10:20	Prepared:	09/25/17 17:30		
% Solids:		Preparation:	EPA200/SW7000 Series	Initial/Final:	20 ml / 20 ml
Batch:	1716321	Sequence:	S710618	Calibration:	1712017
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

Grab-WILLH-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Surface Water	Laboratory ID:	SC39266-02	File ID:	092617A-090
Sampled:	09/14/17 15:10	Prepared:	09/25/17 17:30		
% Solids:		Preparation:	EPA200/SW7000 Series	Initial/Final:	20 ml / 20 ml
Batch:	1716321	Sequence:	S710618	Calibration:	1712017
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

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QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: SAI20
Matrix: WATER Level (low/med): LOW

TF1-GT-136B-091417

Lab Sample ID: 9240335BKG % Solids: 0.0
Concentration Units: UG/L Date Received: 09/30/2017

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.45	U		MS
7440-38-2	Arsenic	7.0			MS
7440-39-3	Barium	82.6			MS
7440-41-7	Beryllium	0.071	U		MS
7440-43-9	Cadmium	0.15	U		MS
7440-47-3	Chromium	2.4	B		MS
7440-48-4	Cobalt	38.2			MS
7440-50-8	Copper	0.54	U		MS
7439-92-1	Lead	0.11	U		MS
7439-96-5	Manganese	2450			MS
7439-98-7	Molybdenum	0.80	B		MS
7440-02-0	Nickel	14.4			MS
7782-49-2	Selenium	0.50	U		MS
7440-22-4	Silver	0.15	U		MS
7440-28-0	Thallium	0.12	U		MS
7440-62-2	Vanadium	0.21	U		MS
7440-66-6	Zinc	10.5	B		MS

Comments:

_____
_____
_____
_____

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer MS = ICP Mass Spectrometry CV = Cold Vapor AF = Cold Vapor Atomic Fluorescence NR = Not Required	U = Below MDL, B = Below LOQ

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QUALITY ASSURANCE SUMMARY
FORM 1
INORGANIC ANALYSIS DATA SHEET
SDG No.: SAI20
Matrix: WATER Level (low/med): LOW

Lab Sample ID: 9240339 % Solids: 0.0
Concentration Units: UG/L Date Received: 09/30/2017

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.45	U		MS
7440-38-2	Arsenic	23.6			MS
7440-39-3	Barium	40.3			MS
7440-41-7	Beryllium	0.071	U		MS
7440-43-9	Cadmium	0.15	U		MS
7440-47-3	Chromium	1.5	B		MS
7440-48-4	Cobalt	36.4			MS
7440-50-8	Copper	2.1	B		MS
7439-92-1	Lead	3.3			MS
7439-96-5	Manganese	7100			MS
7439-98-7	Molybdenum	3.6			MS
7440-02-0	Nickel	10.9			MS
7782-49-2	Selenium	0.50	U		MS
7440-22-4	Silver	0.15	U		MS
7440-28-0	Thallium	0.12	U		MS
7440-62-2	Vanadium	1.4			MS
7440-66-6	Zinc	7.9	B		MS

Comments:

_____
_____
_____
_____

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer MS = ICP Mass Spectrometry CV = Cold Vapor AF = Cold Vapor Atomic Fluorescence NR = Not Required	U = Below MDL, B = Below LOQ

FORM I - INORGANIC ANALYSIS DATA SHEET

EPA 300.0

TF1-GT-136B-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Ground Water	Laboratory ID:	SC39266-01	File ID:	091517-086
Sampled:	09/14/17 10:20	Prepared:	09/15/17 14:21	Analyzed:	09/16/17 11:57
% Solids:		Preparation:	General Preparation	Initial/Final:	5 ml / 5 ml
Batch:	1715887	Sequence:	S709520	Calibration:	1710011
Instrument:	IC3				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	51.8		2	0.199	0.200	2.00
14808-79-8	Sulfate as SO4	4.77		2	1.60	2.00	2.00
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

Grab-WILLH-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Surface Water	Laboratory ID:	SC39266-02	File ID:	091517-050
Sampled:	09/14/17 15:10	Prepared:	09/15/17 14:21	Analyzed:	09/16/17 02:24
% Solids:		Preparation:	General Preparation	Initial/Final:	5 ml / 5 ml
Batch:	1715887	Sequence:	S709520	Calibration:	1710011
Instrument:	IC3				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
16887-00-6	Chloride	29.9		1	0.0994	0.100	1.00
14808-79-8	Sulfate as SO4	9.12		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-136B-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Ground Water	Laboratory ID:	SC39266-01	File ID:	1716423-006
Sampled:	09/14/17 10:20	Prepared:	09/26/17 09:55	Analyzed:	09/26/17 13:09
% Solids:		Preparation:	General Preparation	Initial/Final:	40 ml / 40 ml
Batch:	1716423	Sequence:	S708583	Calibration:	1706085
Instrument:	TOC4				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	1.30		1	0.238	0.500	1.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM5310B (00, 11)

Grab-WILLH-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Surface Water	Laboratory ID:	SC39266-02	File ID:	1716423-010
Sampled:	09/14/17 15:10	Prepared:	09/26/17 09:55	Analyzed:	09/26/17 14:12
% Solids:		Preparation:	General Preparation	Initial/Final:	40 ml / 40 ml
Batch:	1716423	Sequence:	S708583	Calibration:	1706085
Instrument:	TOC4				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l)	Q	Dilution Factor	MDL	LOD	LOQ
NA	Total Organic Carbon	20.0		1	0.238	0.500	1.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM18-22 5210B

TF1-GT-136B-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Ground Water	Laboratory ID:	SC39266-01	File ID:	
Sampled:	09/14/17 10:20	Prepared:	09/15/17 13:30	Analyzed:	09/27/17 16:04
% Solids:		Preparation:	General Preparation	Initial/Final:	300 ml / 300 ml
Batch:	1715906	Sequence:	S708601	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

Grab-WILLH-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Surface Water	Laboratory ID:	SC39266-02	File ID:	
Sampled:	09/14/17 15:10	Prepared:	09/15/17 13:30	Analyzed:	09/27/17 16:04
% Solids:		Preparation:	General Preparation	Initial/Final:	300 ml / 300 ml
Batch:	1715906	Sequence:	S708601	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)	21.0		1	2.74	2.97	3.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM2320B (97, 11)

TF1-GT-136B-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Ground Water	Laboratory ID:	SC39266-01	File ID:	DTOOL Alk 2017-09-26 1457-00
Sampled:	09/14/17 10:20	Prepared:	09/22/17 17:45	Analyzed:	09/26/17 15:08
% Solids:		Preparation:	General Preparation	Initial/Final:	100 ml / 50 ml
Batch:	1716298	Sequence:		Calibration:	
Instrument:	Titrator				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	44.4		1	0.524	1.50	2.00

FORM I - INORGANIC ANALYSIS DATA SHEET

SM2320B (97, 11)

Grab-WILLH-091417

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Project Number:	112G08005-WE15			Received:	09/15/17 14:45
Matrix:	Surface Water	Laboratory ID:	SC39266-02	File ID:	DTOOL Alk 2017-09-26 1457-008
Sampled:	09/14/17 15:10	Prepared:	09/22/17 17:45	Analyzed:	09/26/17 15:30
% Solids:		Preparation:	General Preparation	Initial/Final:	50 ml / 50 ml
Batch:	1716298	Sequence:		Calibration:	
Instrument:	Titrator				
Reported to:	LOD				

CAS NO.	Analyte	Result (mg/l CaCO3)	Q	Dilution Factor	MDL	LOD	LOQ
	Total Alkalinity	132		1	1.05	3.00	4.00

Appendix C

Support Documentation

SC39266 By J

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CHAIN OF CUSTODY RECORD

Page 1 of 2

Special Handling:
- [x] 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
Suite 2B
Salem NH 03079
Telephone #: 603-328-1469
Project Mgr: Steve Parker

Invoice To: Mike Dreyden
Earth Toxics Inc.
8275 S. Eastern Ave.
Las Vegas NV 89123
P.O No.: _____ Quote #: _____

Project No: 112608005-WE15
Site Name: Tank Farm 1, NAVSTA Newport
Location: Portsmouth State: RI
Sampler(s): D. Whalen, S. Oshier

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=_____

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

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

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: TPH (8015D)	SVOC/PAH (8270D)	TAL Metals (6020A/7470A)	TCL VOCs (8260)	Anions (9056A)	EDB (5210B)/AK(2320)	TOC (5310B)	Dissolved gases (RSK-175)	PFAS (537 Mod.)	Check if chlorinated
SC39266-01	TFI-GT-136B-091417	9-14-17	1020	G	GW	~~21~~ 18			5	✓	✓	✓	✓	✓	✓	✓	✓	✓	☐
02	GRAB-WILLH-091417	↓	1510	G	SW	7	6		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	☐
03	TFI-FRB-091417		1510	G	X1				2									✓	☐
04	TFI-TB-091417		0800	G	X1	1							✓						☐
																			☐
																			☐
																			☐
																			☐
																			☐
																			☐

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:

DO MS/MSD

Relinquished by:	Received by:	Date:	Time:	Temp °C
Donald Whalen		9/15/17	0900	Observed 3.2
		9/15/17	1145	Corrected 3.2
DSC		9/15/17	14:45	IR ID # 02

☒ 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

/ SC39266 · Bq

eurofins | Spectrum Analytical

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: Tetra Tech
5 Industrial Way
Suite 2B
Salem NH 03079
Telephone #: 603-328-1469
Project Mgr: Steve Parker

Invoice To: Mike Dreyden
Earth Toxics Inc
8275 S. Eastern Ave.
Las Vegas, NV 89123
P.O No.: _____ Quote #: _____

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

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)	Analysis	Check if chlorinated	
SC39266-01	TFI-GT-136B-091417	9-14-17	1020	G	GW	~~7~~ 21	18		15	✓		☐	DO MS/MSD
02	GRAB-WELLH-091417		1510	G	SW	7	6		5	✓		☐	
03	TFI-FRB-091417		1510	G	X1				2			☐	
04	TFI-TB-091417		0800	G	X1	1						☐	
												☐	
												☐	
												☐	
												☐	
												☐	
												☐	

Relinquished by:	Received by:	Date:	Time:	Temp °C
Donald Whalen		9/15/17	0900	Observed 3.2
	PSR	9/15/17	1145	Correction Factor 0
DSC		9/15/17	14:45	Corrected 3.2
				IR ID # 02

☒ 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

SDGSC39266

SC39266 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 one Ground Water sample, one Surface Water sample and two QC samples submitted on September 15th, 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 Date: 12/21/2017

Laboratory Director

SW846 8260C

CROSS REFERENCE TABLE

SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
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-136B-091417	SC39266-01
Grab-WILLH-091417	SC39266-02
TF1-TB-091417	SC39266-04

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39266

Client: Tetra Tech, Inc. - Salem, NH

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

SDG #: SC39266

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:

HPV7 details: GC/MS Tekmar Solatek 72 Multi-matrix vial autosampler Tekmar
Stratum sample concentrator Tekmar #9, U-Shape 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 1709039:

Analyte quantified by quadratic type calibration: 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 2-Hexanone (MBK), 4-Methyl-2-pentanone (MIBK), Bromoform, cis-1,3-Dichloropropene, Cyclohexane, Dibromochloromethane, Ethylbenzene, m,p-Xylene, Methylcyclohexane, o-Xylene, Styrene, trans-1,3-Dichloropropene, Vinyl chloride

This affected the following samples:

TF1-TB-091417, TF1-GT-136B-091417, S708366-ICV1, S708283-CCV2, S708283-CCV1, Grab-WILLH-091417, 1715994-MSD2, 1715994-MS2, 1715994-BSD1, 1715994-BS1, 1715994-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):

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1715994 from source sample TF1-GT-136B-091417 (SC39266-01).

All method criteria were met.

E. Duplicates:

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

F. Internal Standards:

Internal standards were within the acceptance criteria.

G. Samples:

All method criteria were met.

FORM II - SURROGATE STANDARD RECOVERY SUMMARY

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA SDG: SC39266

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

Client ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	Total Out
Blank (1715994-BLK1)	102	89	101	97			0
LCS (1715994-BS1)	97	103	95	101			0
LCS Dup (1715994-BSD1)	98	102	93	102			0
Matrix Spike (1715994-MS2)	94	101	95	96			0
Matrix Spike Dup (1715994-MSD2)	95	101	94	99			0
TF1-GT-136B-091417 (SC39266-01)	101	89	99	98			0
Grab-WILLH-091417 (SC39266-02)	103	90	98	98			0
TF1-TB-091417 (SC39266-04)	101	92	98	96			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 IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPV7
Batch:	1715994	Laboratory ID:	1715994-BS1
Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Analyzed:	09/18/17 22:34	Spike ID:	17I0448
		File ID:	LCS0918C.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	16.5	82	70 - 136
Acetone	20.0	18.7	93	39 - 160
Benzene	20.0	19.5	98	79 - 120
Bromochloromethane	20.0	18.2	91	78 - 123
Bromodichloromethane	20.0	19.7	99	79 - 125
Bromoform	20.0	19.4	97	66 - 130
Bromomethane	20.0	17.4	87	53 - 141
2-Butanone (MEK)	20.0	20.4	102	56 - 143
Carbon disulfide	20.0	16.8	84	64 - 133
Carbon tetrachloride	20.0	18.4	92	72 - 136
Chlorobenzene	20.0	18.9	95	82 - 118
Chloroethane	20.0	18.4	92	60 - 138
Chloroform	20.0	17.6	88	79 - 124
Chloromethane	20.0	16.2	81	50 - 139
1,2-Dibromo-3-chloropropane	20.0	19.2	96	62 - 128
Dibromochloromethane	20.0	19.4	97	74 - 126
1,2-Dibromoethane (EDB)	20.0	20.3	101	77 - 121
1,2-Dichlorobenzene	20.0	20.1	100	80 - 119
1,3-Dichlorobenzene	20.0	19.0	95	80 - 119
1,4-Dichlorobenzene	20.0	18.8	94	79 - 118
Dichlorodifluoromethane (Freon12)	20.0	16.7	83	32 - 152
1,1-Dichloroethane	20.0	17.6	88	77 - 125
1,2-Dichloroethane	20.0	19.4	97	73 - 128
1,1-Dichloroethene	20.0	16.9	85	71 - 131
cis-1,2-Dichloroethene	20.0	17.5	87	78 - 123
trans-1,2-Dichloroethene	20.0	16.8	84	75 - 124
1,2-Dichloropropane	20.0	19.6	98	78 - 128
cis-1,3-Dichloropropene	20.0	19.2	96	75 - 124
trans-1,3-Dichloropropene	20.0	19.2	96	73 - 127
Ethylbenzene	20.0	17.9	90	79 - 121

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPV7
Batch:	1715994	Laboratory ID:	1715994-BS1
Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Analyzed:	09/18/17 22:34	Spike ID:	17I0448
		File ID:	LCS0918C.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
2-Hexanone (MBK)	20.0	20.3	101	57 - 139
Isopropylbenzene	20.0	19.0	95	72 - 131
Methyl tert-butyl ether	20.0	20.5	102	71 - 124
4-Methyl-2-pentanone (MIBK)	20.0	20.0	100	67 - 130
Methylene chloride	20.0	17.0	85	74 - 124
Styrene	20.0	17.9	89	78 - 123
1,1,2,2-Tetrachloroethane	20.0	20.9	105	71 - 121
Tetrachloroethene	20.0	18.4	92	74 - 129
Toluene	20.0	18.8	94	80 - 121
1,2,3-Trichlorobenzene	20.0	19.1	95	69 - 129
1,2,4-Trichlorobenzene	20.0	18.4	92	69 - 130
1,1,1-Trichloroethane	20.0	18.5	93	74 - 131
1,1,2-Trichloroethane	20.0	20.5	103	80 - 119
Trichloroethene	20.0	18.6	93	79 - 123
Trichlorofluoromethane (Freon 11)	20.0	17.2	86	64 - 141
Vinyl chloride	20.0	17.7	88	58 - 137
m,p-Xylene	20.0	17.7	88	80 - 121
o-Xylene	20.0	18.4	92	78 - 122
Cyclohexane	20.0	17.3	87	71 - 130
Methyl acetate	20.0	15.6	78	56 - 136
Methylcyclohexane	20.0	16.6	83	72 - 132

File ID: LCS0918D.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	19.3	96	16	25	70 - 136
Acetone	20.0	19.8	99	6	50	39 - 160
Benzene	20.0	22.4	112	14	25	79 - 120
Bromochloromethane	20.0	20.2	101	10	25	78 - 123
Bromodichloromethane	20.0	22.6	113	14	25	79 - 125

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPV7
Batch:	1715994	Laboratory ID:	1715994-BSD1
Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Analyzed:	09/18/17 23:03	Spike ID:	17I0448
		File ID:	LCS0918D.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromoform	20.0	21.1	105	8	25	66 - 130
Bromomethane	20.0	21.2	106	20	50	53 - 141
2-Butanone (MEK)	20.0	23.1	116	13	50	56 - 143
Carbon disulfide	20.0	19.8	99	16	25	64 - 133
Carbon tetrachloride	20.0	21.3	107	15	25	72 - 136
Chlorobenzene	20.0	21.8	109	14	25	82 - 118
Chloroethane	20.0	20.3	102	10	50	60 - 138
Chloroform	20.0	20.0	100	13	25	79 - 124
Chloromethane	20.0	19.1	95	16	25	50 - 139
1,2-Dibromo-3-chloropropane	20.0	20.8	104	8	25	62 - 128
Dibromochloromethane	20.0	21.5	108	10	50	74 - 126
1,2-Dibromoethane (EDB)	20.0	22.5	113	10	25	77 - 121
1,2-Dichlorobenzene	20.0	22.9	114	13	25	80 - 119
1,3-Dichlorobenzene	20.0	21.3	107	12	25	80 - 119
1,4-Dichlorobenzene	20.0	21.5	108	13	25	79 - 118
Dichlorodifluoromethane (Freon12)	20.0	18.6	93	11	50	32 - 152
1,1-Dichloroethane	20.0	20.2	101	14	25	77 - 125
1,2-Dichloroethane	20.0	21.3	106	9	25	73 - 128
1,1-Dichloroethene	20.0	19.9	100	16	25	71 - 131
cis-1,2-Dichloroethene	20.0	20.0	100	13	25	78 - 123
trans-1,2-Dichloroethene	20.0	20.1	100	18	25	75 - 124
1,2-Dichloropropane	20.0	21.8	109	10	25	78 - 128
cis-1,3-Dichloropropene	20.0	21.8	109	12	25	75 - 124
trans-1,3-Dichloropropene	20.0	21.6	108	12	25	73 - 127
Ethylbenzene	20.0	20.9	104	15	25	79 - 121
2-Hexanone (MBK)	20.0	22.4	112	10	25	57 - 139
Isopropylbenzene	20.0	21.9	110	14	25	72 - 131
Methyl tert-butyl ether	20.0	22.5	113	9	25	71 - 124
4-Methyl-2-pentanone (MIBK)	20.0	21.3	107	6	50	67 - 130
Methylene chloride	20.0	19.4	97	13	25	74 - 124

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPV7
Batch:	1715994	Laboratory ID:	1715994-BSD1
Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Analyzed:	09/18/17 23:03	Spike ID:	17I0448
		File ID:	LCS0918D.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Styrene	20.0	20.9	104	16	25	78 - 123
1,1,2,2-Tetrachloroethane	20.0	22.4	112	7	25	71 - 121
Tetrachloroethene	20.0	21.4	107	15	25	74 - 129
Toluene	20.0	21.4	107	13	25	80 - 121
1,2,3-Trichlorobenzene	20.0	21.6	108	13	25	69 - 129
1,2,4-Trichlorobenzene	20.0	21.9	110	17	25	69 - 130
1,1,1-Trichloroethane	20.0	22.0	110	17	25	74 - 131
1,1,2-Trichloroethane	20.0	21.8	109	6	25	80 - 119
Trichloroethene	20.0	21.5	108	15	25	79 - 123
Trichlorofluoromethane (Freon 11)	20.0	20.1	101	15	50	64 - 141
Vinyl chloride	20.0	20.0	100	12	25	58 - 137
m,p-Xylene	20.0	20.8	104	16	25	80 - 121
o-Xylene	20.0	21.4	107	15	25	78 - 122
Cyclohexane	20.0	20.7	104	18	30	71 - 130
Methyl acetate	20.0	16.3	82	5	30	56 - 136
Methylcyclohexane	20.0	20.6	103	22	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

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

TF1-GT-136B-091417

SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPV7
Batch:	1715994	Laboratory ID:	1715994-MS2
Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Source Sample Name:	TF1-GT-136B-091417	% Solids:	
		Spike ID:	17I0435
		File ID:	3926601M.D

COMPOUND	SPIKE ADDED (µg/l)	SAMPLE CONCENTRATION (µg/l)	MS CONCENTRATION (µg/l)	MS % REC. #	QC LIMITS REC.
1,1,2-Trichlorotrifluoroethane (Freon	20.0	BRL	17.1	85	70 - 136
Acetone	20.0	BRL	19.3	97	39 - 160
Benzene	20.0	BRL	20.2	101	79 - 120
Bromochloromethane	20.0	BRL	17.8	89	78 - 123
Bromodichloromethane	20.0	BRL	20.5	103	79 - 125
Bromoform	20.0	BRL	20.1	100	66 - 130
Bromomethane	20.0	BRL	17.8	89	53 - 141
2-Butanone (MEK)	20.0	BRL	20.6	103	56 - 143
Carbon disulfide	20.0	BRL	15.9	79	64 - 133
Carbon tetrachloride	20.0	BRL	19.2	96	72 - 136
Chlorobenzene	20.0	BRL	20.5	103	82 - 118
Chloroethane	20.0	BRL	17.6	88	60 - 138
Chloroform	20.0	BRL	18.2	91	79 - 124
Chloromethane	20.0	BRL	15.3	76	50 - 139
1,2-Dibromo-3-chloropropane	20.0	BRL	19.4	97	62 - 128
Dibromochloromethane	20.0	BRL	19.4	97	74 - 126
1,2-Dibromoethane (EDB)	20.0	BRL	20.7	104	77 - 121
1,2-Dichlorobenzene	20.0	BRL	21.6	108	80 - 119
1,3-Dichlorobenzene	20.0	BRL	20.5	102	80 - 119
1,4-Dichlorobenzene	20.0	BRL	20.4	102	79 - 118
Dichlorodifluoromethane (Freon12)	20.0	BRL	14.9	75	32 - 152
1,1-Dichloroethane	20.0	BRL	17.9	89	77 - 125
1,2-Dichloroethane	20.0	BRL	19.1	96	73 - 128
1,1-Dichloroethene	20.0	BRL	17.3	86	71 - 131
cis-1,2-Dichloroethene	20.0	BRL	17.9	89	78 - 123
trans-1,2-Dichloroethene	20.0	BRL	17.6	88	75 - 124
1,2-Dichloropropane	20.0	BRL	19.9	99	78 - 128
cis-1,3-Dichloropropene	20.0	BRL	19.8	99	75 - 124
trans-1,3-Dichloropropene	20.0	BRL	19.9	99	73 - 127
Ethylbenzene	20.0	BRL	19.7	99	79 - 121

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

TF1-GT-136B-091417

SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPV7
Batch:	1715994	Laboratory ID:	1715994-MS2
Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Source Sample Name:	TF1-GT-136B-091417	% Solids:	
		Spike ID:	17I0435
		File ID:	3926601M.D

COMPOUND	SPIKE ADDED (µg/l)	SAMPLE CONCENTRATION (µg/l)	MS CONCENTRATION (µg/l)	MS % REC. #	QC LIMITS REC.
2-Hexanone (MBK)	20.0	BRL	21.2	106	57 - 139
Isopropylbenzene	20.0	BRL	20.7	104	72 - 131
Methyl tert-butyl ether	20.0	4.8	25.2	102	71 - 124
4-Methyl-2-pentanone (MIBK)	20.0	BRL	20.0	100	67 - 130
Methylene chloride	20.0	BRL	17.2	86	74 - 124
Styrene	20.0	BRL	20.4	102	78 - 123
1,1,2,2-Tetrachloroethane	20.0	BRL	21.4	107	71 - 121
Tetrachloroethene	20.0	BRL	19.6	98	74 - 129
Toluene	20.0	BRL	19.4	97	80 - 121
1,2,3-Trichlorobenzene	20.0	BRL	21.1	106	69 - 129
1,2,4-Trichlorobenzene	20.0	BRL	21.1	105	69 - 130
1,1,1-Trichloroethane	20.0	BRL	20.4	102	74 - 131
1,1,2-Trichloroethane	20.0	BRL	19.7	98	80 - 119
Trichloroethene	20.0	BRL	19.5	98	79 - 123
Trichlorofluoromethane (Freon 11)	20.0	BRL	17.3	86	64 - 141
Vinyl chloride	20.0	BRL	16.0	80	58 - 137
m,p-Xylene	20.0	BRL	19.7	98	80 - 121
o-Xylene	20.0	BRL	19.9	100	78 - 122
Cyclohexane	20.0	BRL	18.0	90	71 - 130
Methyl acetate	20.0	BRL	17.7	89	56 - 136
Methylcyclohexane	20.0	BRL	17.9	90	72 - 132

File ID: 3926601R.D

COMPOUND	SPIKE ADDED (µg/l)	MSD CONCENTRATION (µg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,2-Trichlorotrifluoroethane (Freon	20.0	17.2	86	0.4	20	70 - 136
Acetone	20.0	18.6	93	4	20	39 - 160
Benzene	20.0	20.2	101	0.1	20	79 - 120
Bromochloromethane	20.0	17.8	89	0.2	20	78 - 123
Bromodichloromethane	20.0	20.5	102	0.2	20	79 - 125

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

TF1-GT-136B-091417

SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPV7
Batch:	1715994	Laboratory ID:	1715994-MSD2
Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Source Sample Name:	TF1-GT-136B-091417	% Solids:	
		Spike ID:	17I0435
		File ID:	3926601R.D

COMPOUND	SPIKE ADDED (µg/l)	MSD CONCENTRATION (µg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromoform	20.0	19.1	96	5	20	66 - 130
Bromomethane	20.0	17.6	88	0.7	20	53 - 141
2-Butanone (MEK)	20.0	21.4	107	3	20	56 - 143
Carbon disulfide	20.0	15.6	78	1	20	64 - 133
Carbon tetrachloride	20.0	19.8	99	3	20	72 - 136
Chlorobenzene	20.0	20.0	100	3	20	82 - 118
Chloroethane	20.0	16.9	84	4	20	60 - 138
Chloroform	20.0	17.9	89	2	20	79 - 124
Chloromethane	20.0	15.4	77	0.6	20	50 - 139
1,2-Dibromo-3-chloropropane	20.0	20.2	101	4	20	62 - 128
Dibromochloromethane	20.0	19.4	97	0.2	20	74 - 126
1,2-Dibromoethane (EDB)	20.0	21.0	105	2	20	77 - 121
1,2-Dichlorobenzene	20.0	21.5	108	0.5	20	80 - 119
1,3-Dichlorobenzene	20.0	19.8	99	3	20	80 - 119
1,4-Dichlorobenzene	20.0	19.8	99	3	20	79 - 118
Dichlorodifluoromethane (Freon12)	20.0	15.1	75	0.8	20	32 - 152
1,1-Dichloroethane	20.0	18.0	90	0.7	20	77 - 125
1,2-Dichloroethane	20.0	19.3	96	0.7	20	73 - 128
1,1-Dichloroethene	20.0	17.2	86	0.2	20	71 - 131
cis-1,2-Dichloroethene	20.0	17.7	89	0.8	20	78 - 123
trans-1,2-Dichloroethene	20.0	17.1	86	3	20	75 - 124
1,2-Dichloropropane	20.0	19.9	99	0	20	78 - 128
cis-1,3-Dichloropropene	20.0	20.0	100	1	20	75 - 124
trans-1,3-Dichloropropene	20.0	20.1	100	1	20	73 - 127
Ethylbenzene	20.0	19.2	96	3	20	79 - 121
2-Hexanone (MBK)	20.0	20.7	104	2	20	57 - 139
Isopropylbenzene	20.0	20.3	102	2	20	72 - 131
Methyl tert-butyl ether	20.0	25.3	103	0.6	20	71 - 124
4-Methyl-2-pentanone (MIBK)	20.0	21.0	105	5	20	67 - 130
Methylene chloride	20.0	17.0	85	1	20	74 - 124
Styrene	20.0	19.8	99	3	20	78 - 123

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

TF1-GT-136B-091417

SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPV7
Batch:	1715994	Laboratory ID:	1715994-MSD2
Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Source Sample Name:	TF1-GT-136B-091417	% Solids:	
		Spike ID:	17I0435
		File ID:	3926601R.D

COMPOUND	SPIKE ADDED (µg/l)	MSD CONCENTRATION (µg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,2,2-Tetrachloroethane	20.0	20.6	103	4	20	71 - 121
Tetrachloroethene	20.0	19.4	97	1	20	74 - 129
Toluene	20.0	19.1	96	1	20	80 - 121
1,2,3-Trichlorobenzene	20.0	21.1	105	0.3	20	69 - 129
1,2,4-Trichlorobenzene	20.0	21.6	108	2	20	69 - 130
1,1,1-Trichloroethane	20.0	19.8	99	3	20	74 - 131
1,1,2-Trichloroethane	20.0	20.2	101	3	20	80 - 119
Trichloroethene	20.0	19.7	98	0.8	20	79 - 123
Trichlorofluoromethane (Freon 11)	20.0	17.0	85	2	20	64 - 141
Vinyl chloride	20.0	15.3	77	5	20	58 - 137
m,p-Xylene	20.0	19.6	98	0.5	20	80 - 121
o-Xylene	20.0	19.4	97	2	20	78 - 122
Cyclohexane	20.0	18.2	91	1	20	71 - 130
Methyl acetate	20.0	17.7	88	0.3	20	56 - 136
Methylcyclohexane	20.0	17.8	89	0.7	20	72 - 132

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

* Values outside of QC limits

FORM IV - METHOD BLANK SUMMARY
SW846 8260C

1715994-BLK1

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1715994-BLK1	File ID:	BK70918D.D
		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Analyzed:	09/18/17 21:36	Instrument:	HPV7		
Batch:	1715994	Sequence:	S708283	Calibration:	1709039

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1715994-BS1	LCS0918C.D	09/18/17	22:34
LCS Dup	1715994-BSD1	LCS0918D.D	09/18/17	23:03
Matrix Spike	1715994-MS2	3926601M.D	09/19/17	1:00
Matrix Spike Dup	1715994-MSD2	3926601R.D	09/19/17	1:29
TF1-GT-136B-091417	SC39266-01	3926601.D	09/19/17	4:24
Grab-WILLH-091417	SC39266-02	3926602.D	09/19/17	4:53
TF1-TB-091417	SC39266-04	3926604.D	09/19/17	5:22

FORM I - ORGANIC ANALYSIS DATA SHEET
SW846 8260C

1715994-BLK1

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1715994-BLK1	File ID:	BK70918D.D
		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Analyzed:	09/18/17 21:36	Instrument:	HPV7		
Batch:	1715994	Sequence:	S708283	Calibration:	1709039

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

1715994-BLK1

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1715994-BLK1	File ID:	BK70918D.D
		Preparation:	SW846 5030 Water MS	Initial/Final:	5 ml / 5 ml
Analyzed:	09/18/17 21:36	Instrument:	HPV7		
Batch:	1715994	Sequence:	S708283	Calibration:	1709039

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 VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708283	Instrument:	HPV7
Matrix:	Aqueous	Calibration:	1709039
Analyzed:	09/18/17 22:05	File ID:	CCC0918B.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	638523	10.72	544277	8.38	1264816	4.98						
Upper Limit	1277046	11.22	1088554	8.88	2529632	5.48						
Lower Limit	319262	10.22	272139	7.88	632408	4.48						
Sample ID												
Calibration Check (S708283-CCV2)	688686	10.719	625802	8.382	1486966	4.979						
Blank (1715994-BLK1)	507872	10.719	495342	8.382	1184758	4.979						
LCS (1715994-BS1)	628165	10.719	544631	8.382	1266442	4.979						
LCS Dup (1715994-BSD1)	626659	10.719	550704	8.382	1277243	4.979						
Matrix Spike (1715994-MS2)	647669	10.719	556426	8.381	1320048	4.979						
Matrix Spike Dup (1715994-MSD2)	635465	10.719	564410	8.382	1309946	4.979						
TF1-GT-136B-091417 (SC39266-01)	507346	10.724	511182	8.382	1192009	4.979						
Grab-WILLH-091417 (SC39266-02)	517003	10.718	510019	8.381	1187357	4.979						
TF1-TB-091417 (SC39266-04)	506402	10.719	487087	8.382	1185694	4.979						

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

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

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA **SDG:** SC39266

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

Analyte	MDL	MRL	Units
1,1,2-Trichlorotrifluoroethane (Freon 11	0.5	1.0	µg/l
Acetone	0.8	10.0	µg/l
Benzene	0.3	1.0	µg/l
Bromochloromethane	0.3	1.0	µg/l
Bromodichloromethane	0.4	0.5	µg/l
Bromoform	0.4	1.0	µg/l
Bromomethane	0.9	2.0	µg/l
2-Butanone (MEK)	1.1	2.0	µg/l
Carbon disulfide	0.4	2.0	µg/l
Carbon tetrachloride	0.4	1.0	µg/l
Chlorobenzene	0.2	1.0	µg/l
Chloroethane	0.6	2.0	µg/l
Chloroform	0.3	1.0	µg/l
Chloromethane	0.4	2.0	µg/l
1,2-Dibromo-3-chloropropane	0.9	2.0	µg/l
Dibromochloromethane	0.3	0.5	µg/l
1,2-Dibromoethane (EDB)	0.2	0.5	µg/l
1,2-Dichlorobenzene	0.3	1.0	µg/l
1,3-Dichlorobenzene	0.3	1.0	µg/l
1,4-Dichlorobenzene	0.3	1.0	µg/l
Dichlorodifluoromethane (Freon12)	0.6	2.0	µg/l
1,1-Dichloroethane	0.3	1.0	µg/l
1,2-Dichloroethane	0.3	1.0	µg/l
1,1-Dichloroethene	0.7	1.0	µg/l
cis-1,2-Dichloroethene	0.3	1.0	µg/l
trans-1,2-Dichloroethene	0.4	1.0	µg/l
1,2-Dichloropropane	0.3	1.0	µg/l
cis-1,3-Dichloropropene	0.4	0.5	µg/l
trans-1,3-Dichloropropene	0.3	0.5	µg/l
Ethylbenzene	0.3	1.0	µg/l
2-Hexanone (MBK)	0.5	2.0	µg/l
Isopropylbenzene	0.4	1.0	µg/l
Methyl tert-butyl ether	0.2	1.0	µg/l
4-Methyl-2-pentanone (MIBK)	0.5	2.0	µg/l
Methylene chloride	0.7	2.0	µg/l
Styrene	0.4	1.0	µg/l
1,1,2,2-Tetrachloroethane	0.3	0.5	µg/l
Tetrachloroethene	0.6	1.0	µg/l
Toluene	0.3	1.0	µg/l

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

SW846 8260C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA **SDG:** SC39266

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

Analyte	MDL	MRL	Units
1,2,3-Trichlorobenzene	0.4	1.0	µg/l
1,2,4-Trichlorobenzene	0.4	1.0	µg/l
1,1,1-Trichloroethane	0.5	1.0	µg/l
1,1,2-Trichloroethane	0.3	1.0	µg/l
Trichloroethene	0.5	1.0	µg/l
Trichlorofluoromethane (Freon 11)	0.5	1.0	µg/l
Vinyl chloride	0.5	1.0	µg/l
m,p-Xylene	0.4	2.0	µg/l
o-Xylene	0.3	1.0	µg/l
Cyclohexane	0.8	5.0	µg/l
Methyl acetate	0.6	5.0	µg/l
Methylcyclohexane	0.7	5.0	µg/l

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708283	Instrument:	HPV7
		Calibration:	1709039

Sample Name	Lab Sample ID	Lab File ID	Analyzed
MS Tune	S708283-TUN1	BK70918D.D	09/18/17 21:36
Blank	1715994-BLK1	BK70918D.D	09/18/17 21:36
Calibration Check	S708283-CCV1	CCC0918B.D	09/18/17 22:05
LCS	1715994-BS1	LCS0918C.D	09/18/17 22:34
LCS Dup	1715994-BSD1	LCS0918D.D	09/18/17 23:03
TF1-GT-136B-091417	1715994-MS2	3926601M.D	09/19/17 01:00
TF1-GT-136B-091417	1715994-MSD2	3926601R.D	09/19/17 01:29
TF1-GT-136B-091417	SC39266-01	3926601.D	09/19/17 04:24
Grab-WILLH-091417	SC39266-02	3926602.D	09/19/17 04:53
TF1-TB-091417	SC39266-04	3926604.D	09/19/17 05:22
Calibration Check	S708283-CCV2	CCC0918C.D	09/19/17 08:45

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SW846 8260C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708366	Instrument:	HPV7
		Calibration:	1709039

Sample Name	Lab Sample ID	Lab File ID	Analyzed
MS Tune	S708366-TUN1	VCAL000.D	09/16/17 15:56
Cal Standard	S708366-CAL1	DAPRTMTH-001	09/16/17 15:56
Low Cal Check	S708366-LCV1	VCAL000.D	09/16/17 15:56
Cal Standard	S708366-CAL2	DAPRTMTH-002	09/16/17 16:26
Low Cal Check	S708366-LCV2	VCAL001.D	09/16/17 16:26
Cal Standard	S708366-CAL3	DAPRTMTH-003	09/16/17 16:55
Cal Standard	S708366-CAL4	DAPRTMTH-004	09/16/17 17:24
Cal Standard	S708366-CAL5	DAPRTMTH-005	09/16/17 17:53
Cal Standard	S708366-CAL6	DAPRTMTH-006	09/16/17 18:22
Cal Standard	S708366-CAL7	DAPRTMTH-007	09/16/17 18:52
Cal Standard	S708366-CAL8	DAPRTMTH-008	09/16/17 19:50
Cal Standard	S708366-CAL9	DAPRTMTH-009	09/16/17 20:48
Cal Standard	S708366-CALA	DAPRTMTH-010	09/16/17 21:46
Cal Standard	S708366-CALB	DAPRTMTH-011	09/16/17 22:45
Initial Cal Check	S708366-ICV1	ICV0916A.D	09/16/17 23:43

SW846 8270D

CROSS REFERENCE TABLE

SW846 8270D

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
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-136B-091417	SC39266-01
Grab-WILLH-091417	SC39266-02

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39266

Client: Tetra Tech, Inc. - Salem, NH

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

SDG #: SC39266

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 with the following exceptions:

Chrysene, Fluorene, Phenanthrene in batch 1716100, samples 1716100-BS1, 1716100-BSD1: Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Anthracene, Benzo (a) anthracene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Fluoranthene, Pyrene in batch 1716100, sample 1716100-BSD1: 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.

In batch 1716100 BS/BSD:

Anthracene percent recoveries (57/52) are outside individual acceptance criteria (57-123), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Grab-WILLH-091417, TF1-GT-136B-091417

Benzo (a) anthracene percent recoveries (59/53) are outside individual acceptance criteria (58-125), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Grab-WILLH-091417, TF1-GT-136B-091417

Benzo (b) fluoranthene percent recoveries (60/52) are outside individual acceptance criteria (53-131), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Grab-WILLH-091417, TF1-GT-136B-091417

Benzo (g,h,i) perylene percent recoveries (59/49) are outside individual acceptance criteria (50-134), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Grab-WILLH-091417, TF1-GT-136B-091417

Chrysene percent recoveries (58/53) are outside individual acceptance criteria (59-123), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Grab-WILLH-091417, TF1-GT-136B-091417

Fluoranthene percent recoveries (59/50) are outside individual acceptance criteria (57-128), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Grab-WILLH-091417, TF1-GT-136B-091417

Fluorene percent recoveries (50/50) are outside individual acceptance criteria (52-124), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Grab-WILLH-091417, TF1-GT-136B-091417

Phenanthrene percent recoveries (54/50) are outside individual acceptance criteria (59-120), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Grab-WILLH-091417, TF1-GT-136B-091417

Pyrene percent recoveries (57/47) are outside individual acceptance criteria (57-126), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Grab-WILLH-091417, TF1-GT-136B-091417

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

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1716100 from source sample TF1-GT-136B-091417 (SC39266-01).

All method criteria were met with the following exceptions:

Phenanthrene in batch 1716100, lab sample 1716100-MS2 from source sample TF1-GT-136B-091417 (SC39266-01): Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Anthracene in batch 1716100, lab sample 1716100-MS2 from source sample TF1-GT-136B-091417 (SC39266-01): The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Chrysene, Phenanthrene in batch 1716100, lab sample 1716100-MSD2 from source sample TF1-GT-136B-091417 (SC39266-01): Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Anthracene, Benzo (a) anthracene, Pyrene in batch 1716100, lab sample 1716100-MSD2 from source sample TF1-GT-136B-091417 (SC39266-01): The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

E. Duplicates:

A duplicate was analyzed.

In batch 1716100 from source sample Grab-WILLH-091417 (SC39266-02).

All method criteria were met.

F. Internal Standards:

Internal standards were within the acceptance criteria.

G. Samples:

All method criteria were met.

TF1-GT-136B-091417 (SC39266-01) Preparation Start: 09/20/17 10:00, Preparation End: 09/22/17 08:42
Grab-WILLH-091417 (SC39266-02) Preparation Start: 09/20/17 10:00, Preparation End: 09/22/17 08:42

FORM II - SURROGATE STANDARD RECOVERY SUMMARY

SW846 8270D

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39266
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 (1716100-BLK1)	53	54	69				0
LCS (1716100-BS1)	57	52	68				0
LCS Dup (1716100-BSD1)	52	48	59				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: SC39266
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
Matrix Spike (1716100-MS2)	75	55	74				0
Matrix Spike Dup (1716100-MSD2)	74	54	71				0
TF1-GT-136B-091417 (SC39266-01)	63	47	64				0
Grab-WILLH-091417 (SC39266-02)	54	40	56				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 IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8270D

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPS5
Batch:	1716100	Laboratory ID:	1716100-BS1
Preparation:	SW846 3510C	Initial/Final:	990 ml / 1 ml
Analyzed:	09/22/17 02:13	Spike ID:	17H0927
		File ID:	BS716100.D

COMPOUND	SPIKE ADDED (µg/l)	LCS CONCENTRATION (µg/l)	LCS % REC. #	QC LIMITS REC.
Acenaphthene	50.5	25.8	51	47 - 122
Acenaphthylene	50.5	26.7	53	41 - 130
Anthracene	50.5	28.6	57	57 - 123
Benzo (a) anthracene	50.5	29.6	59	58 - 125
Benzo (a) pyrene	50.5	29.9	59	54 - 128
Benzo (b) fluoranthene	50.5	30.5	60	53 - 131
Benzo (g,h,i) perylene	50.5	29.9	59	50 - 134
Benzo (k) fluoranthene	50.5	32.6	65	57 - 129
Chrysene	50.5	29.2	58 *	59 - 123
Dibenzo (a,h) anthracene	50.5	33.2	66	51 - 134
Fluoranthene	50.5	29.7	59	57 - 128
Fluorene	50.5	25.2	50 *	52 - 124
Indeno (1,2,3-cd) pyrene	50.5	32.1	64	52 - 134
1-Methylnaphthalene	50.5	28.0	55	41 - 119
2-Methylnaphthalene	50.5	30.6	61	40 - 121
Naphthalene	50.5	25.0	49	40 - 121
Phenanthrene	50.5	27.4	54 *	59 - 120
Pyrene	50.5	28.9	57	57 - 126

File ID: BSD16100.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	50.5	24.7	49	5	20	47 - 122
Acenaphthylene	50.5	24.3	48	9	20	41 - 130
Anthracene	50.5	26.5	52 *	8	20	57 - 123
Benzo (a) anthracene	50.5	26.9	53 *	9	20	58 - 125
Benzo (a) pyrene	50.5	27.6	55	8	20	54 - 128
Benzo (b) fluoranthene	50.5	26.1	52 *	16	20	53 - 131
Benzo (g,h,i) perylene	50.5	24.7	49 *	19	20	50 - 134
Benzo (k) fluoranthene	50.5	29.3	58	11	20	57 - 129

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8270D

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPS5
Batch:	1716100	Laboratory ID:	1716100-BSD1
Preparation:	SW846 3510C	Initial/Final:	990 ml / 1 ml
Analyzed:	09/22/17 02:44	Spike ID:	17H0927
		File ID:	BSD16100.D

COMPOUND	SPIKE ADDED (µg/l)	LCSD CONCENTRATION (µg/l)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chrysene	50.5	26.7	53	*	9	20	59 - 123
Dibenzo (a,h) anthracene	50.5	27.7	55		18	20	51 - 134
Fluoranthene	50.5	25.0	50	*	17	20	57 - 128
Fluorene	50.5	25.1	50	*	0.04	20	52 - 124
Indeno (1,2,3-cd) pyrene	50.5	26.9	53		18	20	52 - 134
1-Methylnaphthalene	50.5	26.1	52		7	20	41 - 119
2-Methylnaphthalene	50.5	30.0	59		2	20	40 - 121
Naphthalene	50.5	22.5	45		10	20	40 - 121
Phenanthrene	50.5	25.1	50	*	9	20	59 - 120
Pyrene	50.5	23.7	47	*	20	20	57 - 126

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

* Values outside of QC limits

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

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

TF1-GT-136B-091417

SW846 8270D

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPS5
Batch:	1716100	Laboratory ID:	1716100-MS2
Preparation:	SW846 3510C	Initial/Final:	940 ml / 1 ml
Source Sample Name:	TF1-GT-136B-091417	% Solids:	
		Spike ID:	17H0927
		File ID:	3926602M.D

COMPOUND	SPIKE ADDED (µg/l)	SAMPLE CONCENTRATION (µg/l)	MS CONCENTRATION (µg/l)	MS % REC. #	QC LIMITS REC.
Acenaphthene	53.2	BRL	35.2	66	47 - 122
Acenaphthylene	53.2	BRL	35.2	66	41 - 130
Anthracene	53.2	BRL	29.4	55 *	57 - 123
Benzo (a) anthracene	53.2	BRL	32.0	60	58 - 125
Benzo (a) pyrene	53.2	BRL	33.6	63	54 - 128
Benzo (b) fluoranthene	53.2	BRL	31.6	59	53 - 131
Benzo (g,h,i) perylene	53.2	BRL	31.3	59	50 - 134
Benzo (k) fluoranthene	53.2	BRL	32.0	60	57 - 129
Chrysene	53.2	BRL	31.4	59	59 - 123
Dibenzo (a,h) anthracene	53.2	BRL	34.6	65	51 - 134
Fluoranthene	53.2	BRL	32.2	61	57 - 128
Fluorene	53.2	BRL	36.0	68	52 - 124
Indeno (1,2,3-cd) pyrene	53.2	BRL	33.7	63	52 - 134
1-Methylnaphthalene	53.2	BRL	36.7	69	41 - 119
2-Methylnaphthalene	53.2	BRL	30.5	57	40 - 121
Naphthalene	53.2	BRL	25.4	48	40 - 121
Phenanthrene	53.2	BRL	28.5	54 *	59 - 120
Pyrene	53.2	BRL	30.9	58	57 - 126

File ID: 3926602S.D

COMPOUND	SPIKE ADDED (µg/l)	MSD CONCENTRATION (µg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	50.0	32.3	65	9	20	47 - 122
Acenaphthylene	50.0	32.6	65	8	20	41 - 130
Anthracene	50.0	27.0	54 *	9	20	57 - 123
Benzo (a) anthracene	50.0	28.7	57 *	11	20	58 - 125
Benzo (a) pyrene	50.0	30.8	62	9	20	54 - 128
Benzo (b) fluoranthene	50.0	32.4	65	2	20	53 - 131
Benzo (g,h,i) perylene	50.0	28.8	58	8	20	50 - 134
Benzo (k) fluoranthene	50.0	30.4	61	5	20	57 - 129

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

TF1-GT-136B-091417

SW846 8270D

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPS5
Batch:	1716100	Laboratory ID:	1716100-MSD2
Preparation:	SW846 3510C	Initial/Final:	1000 ml / 1 ml
Source Sample Name:	TF1-GT-136B-091417	% Solids:	
		Spike ID:	17H0927
		File ID:	3926602S.D

COMPOUND	SPIKE ADDED (µg/l)	MSD CONCENTRATION (µg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chrysene	50.0	28.6	57 *	10	20	59 - 123
Dibenzo (a,h) anthracene	50.0	32.0	64	8	20	51 - 134
Fluoranthene	50.0	29.2	58	10	20	57 - 128
Fluorene	50.0	33.2	66	8	20	52 - 124
Indeno (1,2,3-cd) pyrene	50.0	31.6	63	7	20	52 - 134
1-Methylnaphthalene	50.0	33.8	68	8	20	41 - 119
2-Methylnaphthalene	50.0	28.0	56	9	20	40 - 121
Naphthalene	50.0	23.4	47	8	20	40 - 121
Phenanthrene	50.0	26.1	52 *	9	20	59 - 120
Pyrene	50.0	28.0	56 *	10	20	57 - 126

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

* Values outside of QC limits

FORM IV - METHOD BLANK SUMMARY
SW846 8270D

1716100-BLK1

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1716100-BLK1	File ID:	BK716100.D
		Preparation:	SW846 3510C	Initial/Final:	980 ml / 1 ml
Analyzed:	09/22/17 01:41	Instrument:	HPS5		
Batch:	1716100	Sequence:	S708552	Calibration:	1709033

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1716100-BS1	BS716100.D	09/22/17	2:13
LCS Dup	1716100-BSD1	BSD16100.D	09/22/17	2:44
TF1-GT-136B-091417	SC39266-01	C3926601.D	09/27/17	17:19
Grab-WILLH-091417	SC39266-02	C3926602.D	09/27/17	17:51
Matrix Spike	1716100-MS2	3926602M.D	09/27/17	18:56
Matrix Spike Dup	1716100-MSD2	3926602S.D	09/27/17	19:28

FORM I - ORGANIC ANALYSIS DATA SHEET
SW846 8270D

1716100-BLK1

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1716100-BLK1	File ID:	BK716100.D
		Preparation:	SW846 3510C	Initial/Final:	980 ml / 1 ml
Analyzed:	09/22/17 01:41	Instrument:	HPS5		
Batch:	1716100	Sequence:	S708552	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 VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

SW846 8270D

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708552	Instrument:	HPS5
Matrix:	Aqueous	Calibration:	1709033
Analyzed:	09/21/17 21:27	File ID:	SCT50921.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	1741321	7.71	3337684	12.93	3342369	5.52	3577131	15.33	3383679	9.48		
Upper Limit	3482642	8.21	6675368	13.43	6684738	6.02	7154262	15.83	6767358	9.98		
Lower Limit	870661	7.21	1668842	12.43	1671185	5.02	1788566	14.83	1691840	8.98		
Sample ID												
Calibration Check (S708552-CCV2)	2021511	7.711	3906100	12.94	3769878	5.517	4186050	15.34	3841106	9.481		
Blank (1716100-BLK1)	1781173	7.699	3468139	12.922	3549693	5.505	3690626	15.316	3366136	9.47		
LCS (1716100-BS1)	1746065	7.711	3482870	12.928	3348907	5.511	3488324	15.328	3306684	9.481		
LCS Dup (1716100-BSD1)	1835560	7.711	3756218	12.934	3350134	5.511	4060354	15.328	3499628	9.475		

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:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708647	Instrument:	HPS5
Matrix:	Aqueous	Calibration:	1709033
Analyzed:	09/27/17 11:21	File ID:	SCT50927.D

	IS1 Area #	RT #	IS2 Area #	RT #	IS3 Area #	RT #	IS4 Area #	RT #	IS5 Area #	RT #	IS6 Area #	RT #
12-Hour Standard	1307458	7.68	2727727	12.88	2543150	5.48	2876023	15.27	2548554	9.45		
Upper Limit	2614916	8.18	5455454	13.38	5086300	5.98	5752046	15.77	5097108	9.95		
Lower Limit	653729	7.18	1363864	12.38	1271575	4.98	1438012	14.77	1274277	8.95		
Sample ID												
Calibration Check (S708647-CCV2)	1497431	7.677	2993174	12.894	2889810	5.488	3089639	15.282	2867168	9.447		
Matrix Spike (1716100-MS2)	1314966	7.677	3441509	12.888	3336768	5.483	3616153	15.276	3275877	9.447		
Matrix Spike Dup (1716100-MSD2)	1328395	7.677	3538772	12.894	3374422	5.483	3517492	15.276	3357197	9.447		
TF1-GT-136B-091417 (SC39266-01)	1561497	7.671	3998802	12.882	3969556	5.477	4277655	15.276	3915387	9.441		
Grab-WILLH-091417 (SC39266-02)	1429419	7.671	3689795	12.882	3678800	5.477	3798560	15.276	3584613	9.441		

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

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

SW846 8270D

Laboratory: Eurofins Spectrum Analytical, Inc. - MA **SDG:** SC39266

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

Analyte	MDL	MRL	Units
Acenaphthene	0.691	5.00	µg/l
Acenaphthylene	0.683	5.00	µg/l
Anthracene	0.608	5.00	µg/l
Benzo (a) anthracene	0.536	5.00	µg/l
Benzo (a) pyrene	0.562	5.00	µg/l
Benzo (b) fluoranthene	0.437	5.00	µg/l
Benzo (g,h,i) perylene	0.530	5.00	µg/l
Benzo (k) fluoranthene	0.480	5.00	µg/l
Chrysene	0.532	5.00	µg/l
Dibenzo (a,h) anthracene	0.450	5.00	µg/l
Fluoranthene	0.638	5.00	µg/l
Fluorene	0.612	5.00	µg/l
Indeno (1,2,3-cd) pyrene	0.580	5.00	µg/l
1-Methylnaphthalene	0.733	5.00	µg/l
2-Methylnaphthalene	0.574	5.00	µg/l
Naphthalene	0.685	5.00	µg/l
Phenanthrene	0.586	5.00	µg/l
Pyrene	0.610	5.00	µg/l

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SW846 8270D

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708282	Instrument:	HPS5
		Calibration:	1709033

Sample Name	Lab Sample ID	Lab File ID	Analyzed
MS Tune	S708282-TUN1	DFT50914.D	09/14/17 10:06
Cal Standard	S708282-CAL1	5914CAL1.D	09/14/17 10:37
Low Cal Check	S708282-LCV2	5914CAL1.D	09/14/17 10:37
Cal Standard	S708282-CAL2	5914CAL2.D	09/14/17 11:08
Cal Standard	S708282-CAL3	5914CAL3.D	09/14/17 11:39
Low Cal Check	S708282-LCV1	5914CAL3.D	09/14/17 11:39
Cal Standard	S708282-CAL4	5914CAL4.D	09/14/17 12:10
Cal Standard	S708282-CAL5	5914CAL5.D	09/14/17 12:41
Cal Standard	S708282-CAL6	5914CAL6.D	09/14/17 13:12
Cal Standard	S708282-CAL7	5914CAL7.D	09/14/17 13:44
Cal Standard	S708282-CAL8	5914CAL8.D	09/14/17 14:15
Cal Standard	S708282-CAL9	5914CAL9.D	09/14/17 14:46
Cal Standard	S708282-CALA	5914CAL0.D	09/14/17 15:17
Initial Cal Check	S708282-ICV1	5914ICV.D	09/14/17 16:51

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SW846 8270D

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708552	Instrument:	HPS5
		Calibration:	1709033

Sample Name	Lab Sample ID	Lab File ID	Analyzed
MS Tune	S708552-TUN1	DFT50921.D	09/21/17 20:56
Calibration Check	S708552-CCV1	SCT50921.D	09/21/17 21:27
Blank	1716100-BLK1	BK716100.D	09/22/17 01:41
LCS	1716100-BS1	BS716100.D	09/22/17 02:13
LCS Dup	1716100-BSD1	BSD16100.D	09/22/17 02:44
Calibration Check	S708552-CCV2	SCE50921.D	09/22/17 06:59

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SW846 8270D

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708647	Instrument:	HPS5
		Calibration:	1709033

Sample Name	Lab Sample ID	Lab File ID	Analyzed
MS Tune	S708647-TUN1	DFT50927.D	09/27/17 09:30
Calibration Check	S708647-CCV1	SCT50927.D	09/27/17 11:21
TF1-GT-136B-091417	SC39266-01	C3926601.D	09/27/17 17:19
Grab-WILLH-091417	SC39266-02	C3926602.D	09/27/17 17:51
TF1-GT-136B-091417	1716100-MS2	3926602M.D	09/27/17 18:56
TF1-GT-136B-091417	1716100-MSD2	3926602S.D	09/27/17 19:28
Calibration Check	S708647-CCV2	SCE50927.D	09/27/17 22:09

SW846 8081B

CROSS REFERENCE TABLE

SW846 8081B

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
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-136B-091417	SC39266-01
Grab-WILLH-091417	SC39266-02

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39266

Client: Tetra Tech, Inc. - Salem, NH

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

SDG #: SC39266

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):

A matrix spike and a matrix spike duplicate were analyzed:

In batch 1715920 from source sample TF1-GT-136B-091417 (SC39266-01).

All method criteria were met.

E. Duplicates:

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

F. Internal Standards:

Internal standards were within the acceptance criteria.

G. Samples:

All method criteria were met.

FORM II - SURROGATE STANDARD RECOVERY SUMMARY

SW846 8081B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39266
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
Matrix Spike (1715920-MS1)	116	122	85	71			0
Matrix Spike Dup (1715920-MSD1)	113	119	75	76			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-136B-091417 (SC39266-01)	101	107	85	71			0
Grab-WILLH-091417 (SC39266-02)	79	120	96	87			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 IIIa - LCS / LCS DUPLICATE RECOVERY

SW846 8081B

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
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:	SC39266
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:	SC39266
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

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

TF1-GT-136B-091417

SW846 8081B

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPS17
Batch:	1715920	Laboratory ID:	1715920-MS1
Preparation:	SW846 3510C	Initial/Final:	990 ml / 10 ml
Source Sample Name:	TF1-GT-136B-091417	% Solids:	
		Spike ID:	17I0075
		File ID:	M1170927.D

COMPOUND	SPIKE ADDED (µg/l)	SAMPLE CONCENTRATION (µg/l)	MS CONCENTRATION (µg/l)	MS % REC. #	QC LIMITS REC.
alpha-BHC	0.505	BRL	0.361	71	54 - 138
alpha-BHC [2C]	0.505	BRL	0.379	75	54 - 138
beta-BHC	0.505	BRL	0.422	84	56 - 136
beta-BHC [2C]	0.505	BRL	0.478	95	56 - 136
delta-BHC	0.505	BRL	0.406	80	52 - 142
delta-BHC [2C]	0.505	BRL	0.455	90	52 - 142
gamma-BHC (Lindane)	0.505	BRL	0.372	74	59 - 134
gamma-BHC (Lindane) [2C]	0.505	BRL	0.401	79	59 - 134
Heptachlor	0.505	BRL	0.343	68	54 - 130
Heptachlor [2C]	0.505	BRL	0.406	80	54 - 130
Aldrin	0.505	BRL	0.331	65	45 - 134
Aldrin [2C]	0.505	BRL	0.324	64	45 - 134
Heptachlor epoxide	0.505	BRL	0.402	80	61 - 133
Heptachlor epoxide [2C]	0.505	BRL	0.407	81	61 - 133
Endosulfan I	0.505	BRL	0.421	83	62 - 126
Endosulfan I [2C]	0.505	BRL	0.450	89	62 - 126
Dieldrin	0.505	BRL	0.427	84	60 - 136
Dieldrin [2C]	0.505	BRL	0.404	80	60 - 136
4,4'-DDE (p,p')	0.505	BRL	0.401	79	57 - 135
4,4'-DDE (p,p') [2C]	0.505	BRL	0.383	76	57 - 135
Endrin	0.505	BRL	0.528	104	60 - 138
Endrin [2C]	0.505	BRL	0.512	101	60 - 138
Endosulfan II	0.505	BRL	0.439	87	52 - 135
Endosulfan II [2C]	0.505	BRL	0.502	99	52 - 135
4,4'-DDD (p,p')	0.505	BRL	0.467	92	56 - 143
4,4'-DDD (p,p') [2C]	0.505	BRL	0.504	100	56 - 143
Endosulfan sulfate	0.505	BRL	0.441	87	62 - 133
Endosulfan sulfate [2C]	0.505	BRL	0.525	104	62 - 133
4,4'-DDT (p,p')	0.505	BRL	0.369	73	51 - 143
4,4'-DDT (p,p') [2C]	0.505	BRL	0.418	83	51 - 143

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

TF1-GT-136B-091417

SW846 8081B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
Client: Tetra Tech, Inc. - Salem, NH
Matrix: Aqueous
Batch: 1715920
Preparation: SW846 3510C
Source Sample Name: TF1-GT-136B-091417

SDG: SC39266
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument: HPS17
Laboratory ID: 1715920-MS1
Initial/Final: 990 ml / 10 ml
% Solids:
Spike ID: 17I0075
File ID: M1170927.D

COMPOUND	SPIKE ADDED (µg/l)	SAMPLE CONCENTRATION (µg/l)	MS CONCENTRATION (µg/l)	MS % REC. #	QC LIMITS REC.
Methoxychlor	0.505	BRL	0.455	90	54 - 145
Methoxychlor [2C]	0.505	BRL	0.427	85	54 - 145
Endrin ketone	0.505	BRL	0.390	77	58 - 134
Endrin ketone [2C]	0.505	BRL	0.455	90	58 - 134
Endrin aldehyde	0.505	BRL	0.486	96	51 - 132
Endrin aldehyde [2C]	0.505	BRL	0.481	95	51 - 132
alpha-Chlordane	0.505	BRL	0.416	82	60 - 129
alpha-Chlordane [2C]	0.505	BRL	0.426	84	60 - 129
Chlordane (gamma)(trans)	0.505	BRL	0.431	85	56 - 136
Chlordane (gamma)(trans) [2C]	0.505	BRL	0.424	84	56 - 136
Alachlor	0.505	BRL	0.476	94	30 - 150
Alachlor [2C]	0.505	BRL	0.491	97	30 - 150

File ID: M3170927.D

COMPOUND	SPIKE ADDED (µg/l)	MSD CONCENTRATION (µg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	0.485	0.334	69	8	20	54 - 138
alpha-BHC [2C]	0.485	0.348	72	9	20	54 - 138
beta-BHC	0.485	0.412	85	2	20	56 - 136
beta-BHC [2C]	0.485	0.439	91	8	20	56 - 136
delta-BHC	0.485	0.374	77	8	20	52 - 142
delta-BHC [2C]	0.485	0.416	86	9	20	52 - 142
gamma-BHC (Lindane)	0.485	0.344	71	8	20	59 - 134
gamma-BHC (Lindane) [2C]	0.485	0.367	76	9	20	59 - 134
Heptachlor	0.485	0.319	66	7	20	54 - 130
Heptachlor [2C]	0.485	0.369	76	10	20	54 - 130
Aldrin	0.485	0.307	63	7	20	45 - 134
Aldrin [2C]	0.485	0.301	62	7	20	45 - 134
Heptachlor epoxide	0.485	0.357	74	12	20	61 - 133
Heptachlor epoxide [2C]	0.485	0.377	78	8	20	61 - 133

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

TF1-GT-136B-091417

SW846 8081B

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	HPS17
Batch:	1715920	Laboratory ID:	1715920-MSD1
Preparation:	SW846 3510C	Initial/Final:	1030 ml / 10 ml
Source Sample Name:	TF1-GT-136B-091417	% Solids:	
		Spike ID:	17I0075
		File ID:	M3170927.D

COMPOUND	SPIKE ADDED (µg/l)	MSD CONCENTRATION (µg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Endosulfan I	0.485	0.372	77	12	20	62 - 126
Endosulfan I [2C]	0.485	0.419	86	7	20	62 - 126
Dieldrin	0.485	0.365	75	15	20	60 - 136
Dieldrin [2C]	0.485	0.378	78	7	20	60 - 136
4,4'-DDE (p,p')	0.485	0.354	73	12	20	57 - 135
4,4'-DDE (p,p') [2C]	0.485	0.364	75	5	20	57 - 135
Endrin	0.485	0.469	97	12	20	60 - 138
Endrin [2C]	0.485	0.468	96	9	20	60 - 138
Endosulfan II	0.485	0.420	87	4	20	52 - 135
Endosulfan II [2C]	0.485	0.467	96	7	20	52 - 135
4,4'-DDD (p,p')	0.485	0.419	86	11	20	56 - 143
4,4'-DDD (p,p') [2C]	0.485	0.470	97	7	20	56 - 143
Endosulfan sulfate	0.485	0.421	87	5	20	62 - 133
Endosulfan sulfate [2C]	0.485	0.508	105	3	20	62 - 133
4,4'-DDT (p,p')	0.485	0.348	72	6	20	51 - 143
4,4'-DDT (p,p') [2C]	0.485	0.379	78	10	20	51 - 143
Methoxychlor	0.485	0.426	88	7	20	54 - 145
Methoxychlor [2C]	0.485	0.407	84	5	20	54 - 145
Endrin ketone	0.485	0.342	71	13	20	58 - 134
Endrin ketone [2C]	0.485	0.432	89	5	20	58 - 134
Endrin aldehyde	0.485	0.466	96	4	20	51 - 132
Endrin aldehyde [2C]	0.485	0.469	97	3	20	51 - 132
alpha-Chlordane	0.485	0.370	76	12	20	60 - 129
alpha-Chlordane [2C]	0.485	0.401	83	6	20	60 - 129
Chlordane (gamma)(trans)	0.485	0.387	80	11	20	56 - 136
Chlordane (gamma)(trans) [2C]	0.485	0.393	81	7	20	56 - 136
Alachlor	0.485	0.444	91	7	20	30 - 150
Alachlor [2C]	0.485	0.456	94	7	20	30 - 150

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

* Values outside of QC limits

FORM IV - METHOD BLANK SUMMARY
SW846 8081B

1715920-BLK1

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
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
Matrix Spike	1715920-MS1	M1170927.D	09/27/17	20:44
Matrix Spike Dup	1715920-MSD1	M3170927.D	09/27/17	21:21
TF1-GT-136B-091417	SC39266-01	3926601Z.D	09/28/17	5:05
Grab-WILLH-091417	SC39266-02	3926602Z.D	09/28/17	5:24

FORM I - ANALYSIS DATA SHEET
SW846 8081B

1715920-BLK1

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
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:	SC39266
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 VIIIa - INTERNAL STANDARD AREA AND RT SUMMARY

SW846 8081B

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
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								
Matrix Spike (1715920-MS1)	14094280	3.15	23381480	2.86								
Matrix Spike Dup (1715920-MSD1)	15621320	3.15	26081870	2.85								
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-136B-091417 (SC39266-01)	14480520	3.15	26391070	2.86								
Grab-WILLH-091417 (SC39266-02)	21826100	3.15	28436220	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

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

SW846 8081B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA **SDG:** SC39266

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

Analyte	MDL	MRL	Units
alpha-BHC	0.012	0.020	µg/l
alpha-BHC [2C]	0.018	0.020	µg/l
beta-BHC	0.015	0.020	µg/l
beta-BHC [2C]	0.019	0.020	µg/l
delta-BHC	0.015	0.020	µg/l
delta-BHC [2C]	0.019	0.020	µg/l
gamma-BHC (Lindane)	0.017	0.020	µg/l
gamma-BHC (Lindane) [2C]	0.018	0.020	µg/l
Heptachlor	0.020	0.020	µg/l
Heptachlor [2C]	0.020	0.020	µg/l
Aldrin	0.016	0.020	µg/l
Aldrin [2C]	0.019	0.020	µg/l
Heptachlor epoxide	0.015	0.020	µg/l
Heptachlor epoxide [2C]	0.015	0.020	µg/l
Endosulfan I	0.016	0.020	µg/l
Endosulfan I [2C]	0.016	0.020	µg/l
Dieldrin	0.017	0.020	µg/l
Dieldrin [2C]	0.019	0.020	µg/l
4,4'-DDE (p,p')	0.018	0.020	µg/l
4,4'-DDE (p,p') [2C]	0.018	0.020	µg/l
Endrin	0.019	0.040	µg/l
Endrin [2C]	0.019	0.040	µg/l
Endosulfan II	0.020	0.040	µg/l
Endosulfan II [2C]	0.016	0.040	µg/l
4,4'-DDD (p,p')	0.019	0.040	µg/l
4,4'-DDD (p,p') [2C]	0.017	0.040	µg/l
Endosulfan sulfate	0.020	0.040	µg/l
Endosulfan sulfate [2C]	0.017	0.040	µg/l
4,4'-DDT (p,p')	0.018	0.040	µg/l
4,4'-DDT (p,p') [2C]	0.022	0.040	µg/l
Methoxychlor	0.018	0.040	µg/l
Methoxychlor [2C]	0.018	0.040	µg/l
Endrin ketone	0.017	0.040	µg/l
Endrin ketone [2C]	0.018	0.040	µg/l
Endrin aldehyde	0.019	0.040	µg/l
Endrin aldehyde [2C]	0.018	0.040	µg/l
alpha-Chlordane	0.015	0.020	µg/l
alpha-Chlordane [2C]	0.017	0.020	µg/l
Chlordane (gamma)(trans)	0.016	0.020	µg/l

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

SW846 8081B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA **SDG:** SC39266

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

Analyte	MDL	MRL	Units
Chlordane (gamma)(trans) [2C]	0.014	0.020	µg/l
Toxaphene	0.328	0.500	µg/l
Toxaphene [2C]	0.287	0.500	µg/l
Toxaphene (1)	0.328	0.500	µg/l
Toxaphene (1) [2C]	0.287	0.500	µg/l
Toxaphene (2)	0.328	0.500	µg/l
Toxaphene (2) [2C]	0.287	0.500	µg/l
Toxaphene (3)	0.328	0.500	µg/l
Toxaphene (3) [2C]	0.287	0.500	µg/l
Toxaphene (4)	0.328	0.500	µg/l
Toxaphene (4) [2C]	0.287	0.500	µg/l
Toxaphene (5)	0.328	0.500	µg/l
Toxaphene (5) [2C]	0.287	0.500	µg/l
Chlordane	0.051	0.065	µg/l
Chlordane [2C]	0.061	0.065	µg/l
Chlordane (1)	0.051	0.065	µg/l
Chlordane (1) [2C]	0.061	0.065	µg/l
Chlordane (2)	0.051	0.065	µg/l
Chlordane (2) [2C]	0.061	0.065	µg/l
Chlordane (3)	0.051	0.065	µg/l
Chlordane (3) [2C]	0.061	0.065	µg/l
Chlordane (4)	0.051	0.065	µg/l
Chlordane (4) [2C]	0.061	0.065	µg/l
Chlordane (5)	0.051	0.065	µg/l
Chlordane (5) [2C]	0.061	0.065	µg/l
Alachlor	0.019	0.020	µg/l
Alachlor [2C]	0.018	0.020	µg/l

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SW846 8081B

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708093	Instrument:	HPS17
		Calibration:	1709047

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Cal Standard	S708093-CAL1	AA170924.D	09/24/17 12:10
Cal Standard	S708093-CAL2	AB170924.D	09/24/17 12:29
Cal Standard	S708093-CAL3	AC170924.D	09/24/17 12:48
Cal Standard	S708093-CAL4	AD170924.D	09/24/17 13:06
Cal Standard	S708093-CAL5	AE170924.D	09/24/17 13:25
Initial Cal Check	S708093-ICV1	AF170924.D	09/24/17 13:43
Low Cal Check	S708093-LCV1	AG170924.D	09/24/17 14:02
Cal Standard	S708093-CAL6	AH170924.D	09/24/17 14:20
Cal Standard	S708093-CAL7	AI170924.D	09/24/17 14:39
Cal Standard	S708093-CAL8	AJ170924.D	09/24/17 14:57
Cal Standard	S708093-CAL9	AK170924.D	09/24/17 15:16
Cal Standard	S708093-CALA	AL170924.D	09/24/17 15:34
Initial Cal Check	S708093-ICV2	AM170924.D	09/24/17 15:53
Low Cal Check	S708093-LCV2	AN170924.D	09/24/17 16:11
Cal Standard	S708093-CALB	AP170924.D	09/24/17 16:30
Cal Standard	S708093-CALC	AQ170924.D	09/24/17 16:48
Cal Standard	S708093-CALD	AR170924.D	09/24/17 17:07
Cal Standard	S708093-CALE	AS170924.D	09/24/17 17:26
Cal Standard	S708093-CALF	AT170924.D	09/24/17 17:44
Initial Cal Check	S708093-ICV3	AU170924.D	09/24/17 18:03
Low Cal Check	S708093-LCV3	AV170924.D	09/24/17 18:21

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
SW846 8081B

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708605	Instrument:	HPS17
		Calibration:	1709047

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Performance Mix	S708605-PEM1	G1170927.D	09/27/17 17:57
Calibration Check	S708605-CCV1	C1170927.D	09/27/17 18:15
Calibration Check	S708605-CCV2	Y1170927.D	09/27/17 18:34
Calibration Check	S708605-CCV3	T1170927.D	09/27/17 18:52
Instrument Blank	S708605-IBL1	I1170927.D	09/27/17 19:11
Blank	1715920-BLK1	B1170927.D	09/27/17 19:29
LCS	1715920-BS1	L1170927.D	09/27/17 19:48
LCS Dup	1715920-BSD1	L2170927.D	09/27/17 20:07
TF1-GT-136B-091417	1715920-MS1	M1170927.D	09/27/17 20:44
TF1-GT-136B-091417	1715920-MSD1	M3170927.D	09/27/17 21:21
Performance Mix	S708605-PEM2	G2170927.D	09/27/17 22:35
Calibration Check	S708605-CCV4	C2170927.D	09/27/17 22:53
Instrument Blank	S708605-IBL2	I2170926.D	09/27/17 23:12
Performance Mix	S708605-PEM3	G3170927.D	09/28/17 02:36
Calibration Check	S708605-CCV7	C3170927.D	09/28/17 02:55
Calibration Check	S708605-CCV5	Y3170927.D	09/28/17 03:14
Calibration Check	S708605-CCV6	T3170927.D	09/28/17 03:32
Instrument Blank	S708605-IBL3	I3170927.D	09/28/17 03:51
TF1-GT-136B-091417	SC39266-01	3926601Z.D	09/28/17 05:05
Grab-WILLH-091417	SC39266-02	3926602Z.D	09/28/17 05:24
Performance Mix	S708605-PEM4	G4170927.D	09/28/17 05:42
Calibration Check	S708605-CCV8	C4170927.D	09/28/17 06:01
Instrument Blank	S708605-IBL4	I4170927.D	09/28/17 06:57

Mod EPA 3C/SOP RSK-175

CROSS REFERENCE TABLE

Mod EPA 3C/SOP RSK-175

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
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-136B-091417	SC39266-01
Grab-WILLH-091417	SC39266-02
Grab-WILLH-091417	SC39266-02RE1

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39266

Client: Tetra Tech, Inc. - Salem, NH

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

SDG #: SC39266

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 1716073 from source sample TF1-GT-136B-091417 (SC39266-01).

All method criteria were met.

E. Samples:

All method criteria were met with the following exceptions:

Methane in batch 1716073, sample Grab-WILLH-091417 (SC39266-02): This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.

In batch 1716132, sample Grab-WILLH-091417 (SC39266-02RE1): Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

F. Dilutions:

The following samples within this SDG were diluted:

Grab-WILLH-091417 (SC39266-02RE1): DF = 10

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

Mod EPA 3C/SOP RSK-175

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	Air5
Batch:	1716073	Laboratory ID:	1716073-BS1
Preparation:	General Air Prep	Initial/Final:	10 µg / 10 µg
Analyzed:	09/19/17 10:17	Spike ID:	17F0404
		File ID:	091917-chanb-003-0

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Methane	500	445	89	73 - 125
Ethane	500	491	98	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 IIIa - LCS / LCS DUPLICATE RECOVERY

Mod EPA 3C/SOP RSK-175

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	Air5
Batch:	1716132	Laboratory ID:	1716132-BS1
Preparation:	General Air Prep	Initial/Final:	10 µg / 10 µg
Analyzed:	09/20/17 09:26	Spike ID:	17F0404
		File ID:	092017-chanb-002-0

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Methane	500	495	99	73 - 125
Ethane	500	508	102	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-136B-091417

Mod EPA 3C/SOP RSK-175

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
Client: Tetra Tech, Inc. - Salem, NH
Matrix: Aqueous
Batch: 1716073
Preparation: General Air Prep
Source Sample Name: TF1-GT-136B-091417

SDG: SC39266
Project: WE15 Tank Farm 1 NAVSTA Newport
Laboratory ID: 1716073-DUP2
Lab Source ID: SC39266-01
Initial/Final: 10 µg / 10 µg
% Solids:
File ID: 091917-chanb-016-0

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (µg/l)	C	DUPLICATE CONCENTRATION (µg/l)	C	RPD %	Q	METHOD
Methane	30	BRL		BDL				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

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

1716073-BLK1

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1716073-BLK1	File ID:	091917-chanb-004-0
		Preparation:	General Air Prep	Initial/Final:	10 µg / 10 µg
Analyzed:	09/19/17 10:52	Instrument:	Air5		
Batch:	1716073	Sequence:	S708332	Calibration:	1707028

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1716073-BS1	091917-chanb-003-0	09/19/17	10:17
TF1-GT-136B-091417	SC39266-01	091917-chanb-015-0	09/19/17	16:26
Duplicate	1716073-DUP2	091917-chanb-016-0	09/19/17	16:48
Grab-WILLH-091417	SC39266-02	091917-chanb-017-0	09/19/17	17:17

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

1716073-BLK1

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1716073-BLK1	File ID:	091917-chanb-004-0
		Preparation:	General Air Prep	Initial/Final:	10 µg / 10 µg
Analyzed:	09/19/17 10:52	Instrument:	Air5		
Batch:	1716073	Sequence:	S708332	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 IV - METHOD BLANK SUMMARY

Mod EPA 3C/SOP RSK-175

1716132-BLK1

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1716132-BLK1	File ID:	092017-chanb-003-0
		Preparation:	General Air Prep	Initial/Final:	10 µg / 10 µg
Analyzed:	09/20/17 09:55	Instrument:	Air5		
Batch:	1716132	Sequence:	S708388	Calibration:	1707028

This method blank applies to the following sample analyses:

SAMPLE NO.	LAB SAMPLE ID	FILE ID	DATE ANALYZED	TIME ANALYZED
LCS	1716132-BS1	092017-chanb-002-0	09/20/17	9:26
Grab-WILLH-091417	SC39266-02RE1	092017-chanb-009-0	09/20/17	13:13

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

1716132-BLK1

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA			SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH			Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Laboratory ID:	1716132-BLK1	File ID:	092017-chanb-003-0
		Preparation:	General Air Prep	Initial/Final:	10 µg / 10 µg
Analyzed:	09/20/17 09:55	Instrument:	Air5		
Batch:	1716132	Sequence:	S708388	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

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

Mod EPA 3C/SOP RSK-175

Laboratory: Eurofins Spectrum Analytical, Inc. - MA **SDG:** SC39266

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

Analyte	MDL	MRL	Units
Methane	2.16	2.20	µg/l
Ethane	3.48	5.00	µg/l

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
Mod EPA 3C/SOP RSK-175

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S706268	Instrument:	Air5
		Calibration:	1707028

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

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
Mod EPA 3C/SOP RSK-175

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708332	Instrument:	Air5
		Calibration:	1707028

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	S708332-CCV1	091917-chanb-002-0	09/19/17 09:24
LCS	1716073-BS1	091917-chanb-003-0	09/19/17 10:17
Blank	1716073-BLK1	091917-chanb-004-0	09/19/17 10:52
TF1-GT-136B-091417	SC39266-01	091917-chanb-015-0	09/19/17 16:26
TF1-GT-136B-091417	1716073-DUP2	091917-chanb-016-0	09/19/17 16:48
Grab-WILLH-091417	SC39266-02	091917-chanb-017-0	09/19/17 17:17
Calibration Check	S708332-CCV2	091917-chanb-019-0	09/19/17 18:01

FORM VIII(Organics)/FORM XIII(Inorganics)
ANALYSIS BATCH (SEQUENCE) SUMMARY
Mod EPA 3C/SOP RSK-175

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708388	Instrument:	Air5
		Calibration:	1707028

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	S708388-CCV1	092017-chanb-001-0	09/20/17 08:51
LCS	1716132-BS1	092017-chanb-002-0	09/20/17 09:26
Blank	1716132-BLK1	092017-chanb-003-0	09/20/17 09:55
Grab-WILLH-091417	SC39266-02RE1	092017-chanb-009-0	09/20/17 13:13
Calibration Check	S708388-CCV2	092017-chanb-015-0	09/20/17 16:54

Custom TPH by GC with Ranges Data

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Case Narrative/Conformance Summary

CLIENT: Eurofins Spectrum Analytical
SDG: THO41

EPH/Miscellaneous GC

Fraction: Custom TPH by GC with Ranges

Sample #	Client ID	Matrix Liquid	Matrix Solid	DF	Comments
9215143	SC39266-01	X		1	Unspiked
9215144	SC39266-01MS	X		1	Matrix Spike
9215145	SC39266-01MSD	X		1	Matrix Spike Duplicate
9215146	SC39266-02	X		1	

All analyses have been performed in accordance with DOD QSM Version 5.0 unless otherwise noted below.
See QC Reference List for Associated Batch QC Samples

SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

HOLDING TIME:

All holding times were met.

PREPARATION/EXTRACTION/DIGESTION:

No problems were encountered.

CALIBRATION/STANDARDIZATION:

All criteria were met.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

LCS/LCSD

Batch#: 172630007A (Sample number(s): 9215143-9215146, UNSPK: 9215143)
The recovery(ies) for the following analyte(s) in the LCS were below the acceptance window: Total TPH

(Sample number(s): 9215143-9215146: Analysis: 02740)
The recovery for a target analyte(s) and surrogate(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the

Case Narrative/Conformance Summary

CLIENT: Eurofins Spectrum Analytical
SDG: THO41

EPH/Miscellaneous GC

Fraction: Custom TPH by GC with Ranges

first trial. Similar results were obtained in both trials.

Surrogate

Surrogate recoveries that are noncompliant are confirmed unless attributed to a dilution or otherwise noted. 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.

Batch#: 172630007A (Sample number(s): 9215143-9215146, UNSPK: 9215143)
The recovery(ies) for the following surrogate(s) were below the acceptance window:
Chlorobenzene (LCS07263), Orthoterphenyl (LCS07263)

SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.

Abbreviation Key

UNSPK = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
+MS = Matrix Spike	MDL = Method Detection Limit
MSD = Matrix Spike Duplicate	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value
D = Duplicate (DUP)	E= out of calibration range
LCS = Lab Control Sample	RE = Repreparation/Reanalysis
LCSD = Lab Control Sample Duplicate	* = Out of Specification

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Quality Control Reference List
EPH/Miscellaneous GC

CLIENT: Eurofins Spectrum Analytical
SDG: THO41

Fraction: Custom TPH by GC with Ranges

Analysis	Batch Number	Sample Number	Analysis Date
Custom TPH with Ranges (Water)	172630007A	PBLK07263	09/21/2017 14:11:00
		LCS07263	09/21/2017 14:33:00
		9215143 UNSPK	09/21/2017 14:54:00
		9215144 MS	09/21/2017 15:16:00
		9215145 MSD	09/21/2017 15:37:00
		9215146	09/21/2017 18:29:00
Custom TPH with Ranges (Water)	172720025A	PBLK25272	10/02/2017 15:06:00
		LCS25272	10/02/2017 15:27:00
		9215143RE UNSPK	10/02/2017 15:49:00
		9215144RE MS	10/02/2017 16:10:00
		9215145RE MSD	10/02/2017 16:32:00
		9215146RE	10/02/2017 16:53:00

Quality Control Summary
Method Blank
EPH/Miscellaneous GC
SDG: THO41
Matrix: LIQUID

Fraction: Custom TPH by GC with Ranges

172630007A / PBLK07263 Analyte	Analysis Date	Blank Results	Units	DL	LOD	LOQ
Total TPH	09/21/17	N.D.	mg/l	0.050	0.10	0.20
C8-C44	09/21/17	N.D.	mg/l	0.050	0.10	0.20

172720025A / PBLK25272 Analyte	Analysis Date	Blank Results	Units	DL	LOD	LOQ
Total TPH	10/02/17	N.D.	mg/l	0.050	0.10	0.20
C8-C44	10/02/17	N.D.	mg/l	0.050	0.10	0.20

Quality Control Summary
Surrogates
EPH/Miscellaneous GC
SDG: THO41
Matrix: LIQUID

Fraction: Custom TPH by GC with Ranges

172630007A	Chlorobenzene		Orthoterphenyl	
	Spike Added	0.0121 mg/l	Spike Added	0.0121 mg/l
Sample	% Recovery	Limits	% Recovery	Limits
PBLK07263	83	35 - 135	95	56 - 125
LCS07263	25 *	35 - 135	34 *	56 - 125
9215143 UNSPK	89	35 - 135	100	56 - 125
9215144 MS	82	35 - 135	97	56 - 125
9215145 MSD	92	35 - 135	109	56 - 125
9215146	68	35 - 135	92	56 - 125

172720025A	Chlorobenzene		Orthoterphenyl	
	Spike Added	0.0121 mg/l	Spike Added	0.0121 mg/l
Sample	% Recovery	Limits	% Recovery	Limits
PBLK25272	51	35 - 135	86	48 - 122
LCS25272	65	35 - 135	94	48 - 122
9215143RE UNSPK	67	35 - 135	91	48 - 122
9215144RE MS	70	35 - 135	90	48 - 122
9215145RE MSD	74	35 - 135	96	48 - 122

Surrogate recoveries that are noncompliant are confirmed unless attributed to a dilution or otherwise noted. 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.

EPH/Miscellaneous GC

Fraction: Custom TPH by GC with Ranges

UNSPK: 9215143 MS: 9215144 MSD: 9215145 **Analyte**	Batch: **172630007A** (Sample number(s): 9215143-9215146)								
	Spike Added mg/l MS/MSD	**Unspiked Conc mg/l**	**MS Conc mg/l**	**MSD Conc mg/l**	**MS %Rec**	**MSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Total TPH	0.838 / 0.813	N.D.	0.748	0.809	89	99	36-132	8	30

UNSPK: 9215143RE MS: 9215144RE MSD: 9215145RE **Analyte**	Batch: **172720025A** (Sample number(s): 9215143-9215146)								
	Spike Added mg/l MS/MSD	**Unspiked Conc mg/l**	**MS Conc mg/l**	**MSD Conc mg/l**	**MS %Rec**	**MSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Total TPH	0.849 / 0.805	N.D.	0.705	0.712	83	88	44-115	1	20

Comments:
(2) The unspiked sample result is greater than four times the spike added.
* = Out of Specification

Results are being reported on an as received basis.

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: THO41
Matrix: LIQUID

EPH/Miscellaneous GC

Fraction: Custom TPH by GC with Ranges

LCS: LCS07263	Batch: **172630007A** (Sample number(s): 9215143-9215146)							
Analyte	**Spike Added mg/l**	**LCS Conc mg/l**	**LCSD Conc mg/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Total TPH	0.800	0.203	NA	25 *	NA	36-132	NA	NA

LCS: LCS25272	Batch: **172720025A** (Sample number(s): 9215143-9215146)							
Analyte	**Spike Added mg/l**	**LCS Conc mg/l**	**LCSD Conc mg/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Total TPH	0.800	0.650	NA	81	NA	44-115	NA	NA

Organic Extraction Batchlog Assigned to: 701 Karen Beyer

Reviewed by: JE11173 Start Date: 9/20/17 Start time: 22:50

172630007A

Tech 1: MR1CB701 Tech 2: _____

Dept: 32 Prep Analysis: 11181 Custom TPH w/ Ranges Water Ext — Custom TPH with Ranges (Water)

QC	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
9215144MS	O4101	956	SS1724332D	1.0	MS1725532A	1.0	1.0	—	—	23B	yellow
9215145MSD	O4101	985	SS1724332D	1.0	MS1725532A	1.0	1.0	—	—	29B	yellow
BLANKA	PBLK07263	1017	SS1724332D	1.0			1.0	—	—	NA	
LCSA	LCS07263	1011	SS1724332D	1.0	MS1725532A	1.0	1.0	—	—	NA	

Solvent Used	Lot No.
1:1 HCl	G110-11
Methylene Chloride	175716
Sodium Sulfate	172584

MR1CB701 9/20/17

Spike Solutions: Witness: NA

MS1725532A DRO WATER SPIKE

SS1724332D DRO WATER SURROGATE

Sample #	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	List	Due Date	Prio
1 9214888	TOR29	999	SS1724332D	1.0	1.0	—	—	43B	yellow	02740	23211	09/29/2017	N
2 9214889	TORRD	1021	SS1724332D	1.0	1.0	—	—	43A	yellow	02740	23211	09/29/2017	N
3 9214890	TORRE	1044	SS1724332D	1.0	1.0	—	—	43A	Clear	02740	23211	09/29/2017	N
4 9215143BKG	O4101	980	SS1724332D	1.0	1.0	—	—	29B	yellow	02740	24604	09/29/2017	N
5 9215146	O4102	925	SS1724332D	1.0	1.0	—	—	29B	orange	02740	24604	09/29/2017	N
6 9216462	WLS49	1028	SS1724332D	1.0	1.0	—	—	43B	yellow	02740	14489	09/26/2017	N
7 9216463	WLS50	943	SS1724332D	1.0	1.0	—	—	43B	yellow	02740	14489	09/26/2017	N
8 9216464	WLSFD	1034	SS1724332D	1.0	1.0	—	—	43B	yellow	02740	14489	09/26/2017	N

THO41 Page 269 of 805

MR1CB701 9/20/17

Bench#	Bench#	Bench#		
Rack ID:		Work Station	Bench 1	Micro Temp 100?
Internal Standard		Balance #	25996	

R-VAP ID	C	R-VAP ID	C	R-VAP ID	C			
S-bath ID	90.0 C	S-bath ID	— C	N-Evap	— C	M-vap	— C	172630007A

DF = Dilution Factor FV = Final Volume

Documented temps are NIST corrected.

Organic Extraction Batchlog Assigned to: 1785 Sherry Morrow Reviewed by: JE11173 Start Date: 10/2/17 Start time: 2:00 Am

172720025A

Tech 1: SLm 1785 Tech 2:

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
9215144MS	O4101	943	SS1724332D	1.0	MS1725532A	1.0	1	2	Z	29A	CLEAR
9215145MSD	O4101	994	SS1724332D	↓	MS1725532A	1.0	1	2		29A	↓
BLANKA	PBLK25272	1000	SS1724332D				1	2		N/A	DI H2O
LCSA	LCS25272	1000	SS1724332D	↓	MS1725532A	1.0	1	2		N/A	↓

Solvent Used	Lot No.
1:1 HCl	G180-05
Methylene Chloride	176199
Sodium Sulfate	172708

Spike Solutions: Witness: N/A
MS1725532A DRO WATER SPIKE
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 9215143BKGR	O4101	940	SS1724332D	1.0	1	2	Z	29A	CLEAR	02740	24604	09/29/2017	N
2 9215146 R	O4102	926	SS1724332D	↓	1	2		29A	CLOUDY ORANGE	02740	24604	09/29/2017	N

THD41 Page 270 of 805

N/A SLm 1785 10/2/17

Bench#	Bench#	Bench#		
Rack ID:		Work Station	H203	Micro Temp 100?
Internal Standard		Balance #	25996	

R-VAP ID	C	R-VAP ID	C	R-VAP ID	C			
S-bath ID 6983	88 C	S-bath ID	C	N-Evap	C	M-vap	C	172720025A

DF = Dilution Factor FV = Final Volume Page 1 of 1 Documented temps are NIST corrected.

PFAS by LC/MS/MS Data

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Case Narrative/Conformance Summary

CLIENT: Eurofins Spectrum Analytical
SDG: THO41

PFAS Group

Fraction: PFAS by LC/MS/MS

Sample #	Client ID	Matrix Liquid	Matrix Solid	DF	Comments
9215143	SC39266-01	X		1	Unspiked
9215144	SC39266-01MS	X		1	Matrix Spike
9215145	SC39266-01MSD	X		1	Matrix Spike Duplicate
9215146	SC39266-02	X		1	
9215147	SC39266-03	X		1	

All analyses have been performed in accordance with DOD QSM Version 5.0 unless otherwise noted below.
See QC Reference List for Associated Batch QC Samples

SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

HOLDING TIME:

All holding times were met.

PREPARATION/EXTRACTION/DIGESTION:

No problems were encountered.

CALIBRATION/STANDARDIZATION:

All criteria were met.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

Surrogate

Surrogate recoveries that are noncompliant are confirmed unless attributed to a dilution or otherwise noted.

(Sample number(s): 9215143-9215147: Analysis: 10954)
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.

Case Narrative/Conformance Summary

CLIENT: Eurofins Spectrum Analytical
SDG: THO41

PFAS Group

Fraction: PFAS by LC/MS/MS

Abbreviation Key

UNSPK = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
+MS = Matrix Spike	MDL = Method Detection Limit
MSD = Matrix Spike Duplicate	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value
D = Duplicate (DUP)	E= out of calibration range
LCS = Lab Control Sample	RE = Repreparation/Reanalysis
LCSD = Lab Control Sample Duplicate	* = Out of Specification

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Quality Control Reference List
PFAS Group

CLIENT: Eurofins Spectrum Analytical
SDG: THO41

Fraction: PFAS by LC/MS/MS

Analysis	Batch Number	Sample Number	Analysis Date
PFAS in Water by LC/MS/MS	17263007	BLK263007B	09/26/2017 07:04:00
		LCS263007Q	09/26/2017 05:41:00
		9215143 UNSPK	09/26/2017 07:24:00
		9215144 MS	09/26/2017 06:02:00
		9215145 MSD	09/26/2017 06:22:00
		9215146	09/26/2017 22:11:00
		9215147	09/26/2017 08:46:00

Quality Control Summary
Method Blank
PFAS Group
SDG: THO41
Matrix: LIQUID

Fraction: PFAS by LC/MS/MS

17263007 / BLK263007B Analyte	Analysis Date	Blank Results	Units	DL	LOD	LOQ
Perfluorooctanoic acid	09/26/17	N.D.	ng/l	0.6	2	2
Perfluorononanoic acid	09/26/17	N.D.	ng/l	0.6	2	2
Perfluorodecanoic acid	09/26/17	N.D.	ng/l	0.5	2	2
Perfluoroundecanoic acid	09/26/17	N.D.	ng/l	1	3	3
Perfluorododecanoic acid	09/26/17	N.D.	ng/l	0.5	2	2
Perfluorotridecanoic acid	09/26/17	N.D.	ng/l	0.5	2	2
Perfluorotetradecanoic acid	09/26/17	N.D.	ng/l	0.5	2	2
Perfluorohexanoic acid	09/26/17	N.D.	ng/l	0.6	2	2
Perfluoroheptanoic acid	09/26/17	N.D.	ng/l	0.5	2	2
Perfluorobutanesulfonate	09/26/17	N.D.	ng/l	0.8	3	3
Perfluorohexanesulfonate	09/26/17	N.D.	ng/l	1	3	3
Perfluoro-octanesulfonate	09/26/17	N.D.	ng/l	2	6	6
Perfluorobutanoic Acid	09/26/17	N.D.	ng/l	3	10	10
Perfluoropentanoic Acid	09/26/17	N.D.	ng/l	0.5	2	2
Perfluoroheptanesulfonate	09/26/17	N.D.	ng/l	2	6	6
Perfluorodecanesulfonate	09/26/17	N.D.	ng/l	2	6	6
PFOSA	09/26/17	N.D.	ng/l	3	9	9

SDG No.: THO41
Matrix: WATER

17263007		13C2-PFDODA	13C2-PFTEDA	13C3-PFBS	13C3-PFHXS	13C4-PFBA
	Limits	28-127	26-119	26-148	34-126	33-123
LAB SAMPLE ID	**DATE/TIME**	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
LCS263007	09/26/17 05:41	71	68	70	78	77
9215144MS	09/26/17 06:02	62	62	77	70	70
9215145MSD	09/26/17 06:22	76	72	85	67	73
BLK263007	09/26/17 07:04	71	79	71	79	75
9215143	09/26/17 07:24	64	63	75	75	71
9215147	09/26/17 08:46	63	67	84	78	83
9215146	09/26/17 22:11	67	59	129	71	79

* Outside QC Limits

SDG No.: THO41
Matrix: WATER

17263007		13C4-PFHPA	13C5-PFHXA	13C5-PFPEA	13C6-PFDA	13C7-PFUNDA
	Limits	35-126	31-128	39-135	40-115	30-128
LAB SAMPLE ID	**DATE/TIME**	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
LCS263007	09/26/17 05:41	83	76	74	68	67
9215144MS	09/26/17 06:02	74	81	83	64	67
9215145MSD	09/26/17 06:22	72	67	81	70	80
BLK263007	09/26/17 07:04	69	81	75	72	79
9215143	09/26/17 07:24	72	70	80	70	65
9215147	09/26/17 08:46	70	75	82	70	68
9215146	09/26/17 22:11	75	62	106	69	66

* Outside QC Limits

FORM 02A
SURROGATES
LC/MS/MS

SDG No.: THO41
Matrix: WATER

17263007		13C8-PFOA	13C8-PFOS	13C8-PFOSA	13C9-PFNA
	Limits	43-112	43-115	70-130	32-134
LAB SAMPLE ID	**DATE/TIME**	% Recovery	% Recovery	% Recovery	% Recovery
LCS263007	09/26/17 05:41	76	71	59 *	81
9215144MS	09/26/17 06:02	69	66	56 *	67
9215145MSD	09/26/17 06:22	73	70	37 *	79
BLK263007	09/26/17 07:04	78	67	73	65
9215143	09/26/17 07:24	70	62	45 *	81
9215147	09/26/17 08:46	79	65	57 *	72
9215146	09/26/17 22:11	72	74	48 *	86

* Outside QC Limits

PFAS Group

Fraction: PFAS by LC/MS/MS

UNSPK: 9215143 MS: 9215144 MSD: 9215145 **Analyte**	Batch: **17263007** (Sample number(s): 9215143-9215147)								
	Spike Added ng/l MS/MSD	**Unspiked Conc ng/l**	**MS Conc ng/l**	**MSD Conc ng/l**	**MS %Rec**	**MSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Perfluorooctanoic acid	13.54 / 13.54	5.26	21.84	18.57	122	98	70-130	16	30
Perfluorononanoic acid	13.54 / 13.54	5.81	22.48	21.47	123	116	70-130	5	30
Perfluorodecanoic acid	13.54 / 13.54	N.D.	16.44	16.99	121	126	70-130	3	30
Perfluoroundecanoic acid	13.54 / 13.54	N.D.	17.4	15.96	128	118	70-130	9	30
Perfluorododecanoic acid	13.54 / 13.54	N.D.	17.29	16.35	128	121	70-130	6	30
Perfluorotridecanoic acid	13.54 / 13.54	N.D.	14.15	13.27	104	98	70-130	6	30
Perfluorotetradecanoic acid	13.54 / 13.54	N.D.	16.	16.36	118	121	70-130	2	30
Perfluorohexanoic acid	13.54 / 13.54	2.28	17.18	17.36	110	111	70-130	1	30
Perfluoroheptanoic acid	13.54 / 13.54	1.39	15.19	15.12	102	101	70-130	0	30
Perfluorobutanesulfonate	11.98 / 11.97	1.33	15.02	13.57	114	102	70-130	10	30
Perfluorohexanesulfonate	12.81 / 12.8	5.40	19.27	20.39	108	117	70-130	6	30
Perfluoro-octanesulfonate	12.95 / 12.94	5.26	17.33	18.78	93	104	70-130	8	30
Perfluorobutanoic Acid	13.54 / 13.54	N.D.	16.17	16.47	119	122	70-130	2	30
Perfluoropentanoic Acid	13.54 / 13.54	2.20	17.09	17.13	110	110	70-130	0	30
Perfluoroheptanesulfonate	12.89 / 12.88	N.D.	14.72	15.39	114	120	70-130	4	30
Perfluorodecanesulfonate	13.04 / 13.04	N.D.	11.73	13.63	90	105	70-130	15	30
PFOSA	13.54 / 13.54	N.D.	14.32	14.21	106	105	70-130	1	30

Comments:
(2) The unspiked sample result is greater than four times the spike added.
* = Out of Specification

Results are being reported on an as received basis.

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: THO41
Matrix: LIQUID

PFAS Group
Fraction: PFAS by LC/MS/MS

LCS: LCS263007Q	Batch: **17263007** (Sample number(s): 9215143-9215147)							
Analyte	**Spike Added ng/l**	**LCS Conc ng/l**	**LCSD Conc ng/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Perfluorooctanoic acid	13.6	15.69	NA	115	NA	70-130	NA	NA
Perfluorononanoic acid	13.6	16.15	NA	119	NA	70-130	NA	NA
Perfluorodecanoic acid	13.6	17.02	NA	125	NA	70-130	NA	NA
Perfluoroundecanoic acid	13.6	16.56	NA	122	NA	70-130	NA	NA
Perfluorododecanoic acid	13.6	16.37	NA	120	NA	70-130	NA	NA
Perfluorotridecanoic acid	13.6	12.76	NA	94	NA	70-130	NA	NA
Perfluorotetradecanoic acid	13.6	15.77	NA	116	NA	70-130	NA	NA
Perfluorohexanoic acid	13.6	16.1	NA	118	NA	70-130	NA	NA
Perfluoroheptanoic acid	13.6	14.51	NA	107	NA	70-130	NA	NA
Perfluorobutanesulfonate	12.03	13.01	NA	108	NA	70-130	NA	NA
Perfluorohexanesulfonate	12.86	12.43	NA	97	NA	70-130	NA	NA
Perfluoro-octanesulfonate	13	13.38	NA	103	NA	70-130	NA	NA
Perfluorobutanoic Acid	13.6	14.82	NA	109	NA	70-130	NA	NA
Perfluoropentanoic Acid	13.6	15	NA	110	NA	70-130	NA	NA
Perfluoroheptanesulfonate	12.94	12.46	NA	96	NA	70-130	NA	NA
Perfluorodecanesulfonate	13.1	12.79	NA	98	NA	70-130	NA	NA
PFOSA	13.6	14.29	NA	105	NA	70-130	NA	NA

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FORM 08A
INTERNAL STANDARDS
LC/MS/MS

SDG No.: THO41
Matrix: WATER

17263007		13C2-PFDA	13C2-PFOA	13C3-PFBA	13C4-PFOS
		Area	Area	Area	Area
Average ICAL Response		1367226	1347172	1376081	509623
UPPER LIMIT		2050839	2020758	2064122	764435
LOWER LIMIT		683613	673586	688041	254812
LAB SAMPLE ID	**DATE ANALYZED**				
LCS263007	09/26/17 05:41	1957661	1705939	1841799	645466
9215144MS	09/26/17 06:02	1867896	1714323	1594770	682352
9215145MSD	09/26/17 06:22	1678155	1827818	1510048	615299
BLK263007	09/26/17 07:04	1641715	1690618	1743096	671000
9215143	09/26/17 07:24	1937851	1715734	1624378	667600
9215147	09/26/17 08:46	1807344	1740456	1616689	677096
9215146	09/26/17 22:11	1942526	1843650	934093	648823

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: 25478 Danielle McCully Reviewed by: MCD 7824 Start Date: 9/20/17 Start time: 15:10

17263007 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
4	9215144MS	O4101	100.42	SSMODX1733AI	.025	MSMODX1733X	.04	1mL	P-46 20	201a	
5	9215145MSD	O4101	100.48	SSMODX1733AI	.025	MSMODX1733X	.04	↓	↓	201a	
1	BLANKA	BLK263007	100	SSMODX1733AI	.025	—	—	↓	↓	Z	
2	LCSA	LCS263007	100	SSMODX1733AI	.025	MSMODX1733X	.04	↓	↓	Z	

* (3) MCD 7824 9/26/17

Spike Solutions: Witness: 09M26157

MSMODX1733X PFAS 537 Native Spike

SSMODX1733AI PFAS 537 Modified Extraction/Surrogate Spik

Instrument: LN2743

Sequence: 17SEP20MCD | 17SEP25 | 17SEP26

Port#	Sample #	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV (uL)	IS Amt (uL)	BC	Comments	Analyses	Due Date	Prio
1	9215143	BKG O410	99.87	SSMODX1733AI	.025	1mL	P-46 20	201a		10954	09/29/2017	N
2	9215146	O410	100.48	SSMODX1733AI	.025	↓	↓	201a	Brown, centrifuged	10954	09/29/2017	N
3	9215147	O410	99.84	SSMODX1733AI	.025	↓	↓	201a		10954	09/29/2017	N

Page 804 of 805

9/21/17 BJR9213

Balance #	B629764122	SPE Manifold	4	N-evap	C

17263007

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	27079 48
Acetonitrile	———
Auto-pipette (dilutions)	———
Auto-pipette (extract vialin	P1000-1
Internal Standard	IS1726733A
Methanol	DS096-US
Milli-Q H2O	~~Milli-Q House A223~~ (3) House A223 DDM25478 9/20/17
NH4OH:H2O	25478091717334
NH4OH:MeOH	~~25478092017332~~
SPE Cartridge #1	163702 31-05
SPE Cartridge #2	———
Sodium Thiosulfate	———
Syringe (IS)	IS1
Syringe (MS)	PFAS 10
Syringe (SS)	PFAS 9
Thzma	SLBTL1699

TEC-01 Page 805 of 805

SW846 6010C

CROSS REFERENCE TABLE

SW846 6010C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
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-136B-091417	SC39266-01
TF1-GT-136B-091417	SC39266-01RE1
Grab-WILLH-091417	SC39266-02

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39266

Client: Tetra Tech, Inc. - Salem, NH

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

SDG #: SC39266

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 1716320 from source sample TF1-GT-136B-091417 (SC39266-01).

In batch 1716544 from source sample TF1-GT-136B-091417 (SC39266-01).

All method criteria were met.

3. Post Spike Samples (PS):

A post spike was analyzed.

In batch 1716320 from source sample TF1-GT-136B-091417 (SC39266-01).

In batch 1716544 from source sample TF1-GT-136B-091417 (SC39266-01).

All method criteria were met.

D. Duplicates:

A duplicate was analyzed.

In batch 1716320 from source sample TF1-GT-136B-091417 (SC39266-01).

In batch 1716544 from source sample TF1-GT-136B-091417 (SC39266-01).

All method criteria were met.

E. Serial Dilutions:

All quality control criteria were met.

F. Samples:

All method criteria were met.

FORM III - BLANKS

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39266
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: SC39266
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
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
	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

FORM III - BLANKS

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39266
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-CCB8	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
1716320-BLK1	Sodium	0.142	0.500	mg/l	J	SW846 6010C
	Aluminum	BRL	0.0500	mg/l	U	SW846 6010C
	Calcium	0.0227	0.200	mg/l	J	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

FORM III - BLANKS

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39266
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 III - BLANKS

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39266
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: ICAP5
Calibration: 1711058
Sequence: S710438

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S710438-CCB1	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
S710438-CCB2	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
S710438-CCB3	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
S710438-CCB4	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
S710438-CCB5	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
S710438-CCB6	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
S710438-CCB7	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
1716544-BLK1	Iron	BRL	0.0300	mg/l	U	SW846 6010C
	Potassium	BRL	1.00	mg/l	U	SW846 6010C
S710438-CCB8	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: SC39266
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: SC39266
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-IFB2	Sodium		0.04180	
	Aluminum	250	239.50000	96
	Aluminum	250	239.50000	96
	Calcium	250	248.30000	99
	Calcium	250	248.30000	99
	Magnesium	250	231.90000	93
S708828-IFA3	Iron	100	99.17000	99
	Magnesium	250	225.40000	90
	Iron	100	99.17000	99
	Sodium		0.01980	
	Aluminum	250	230.00000	92
	Aluminum	250	230.00000	92
	Calcium	250	249.50000	100
	Calcium	250	249.50000	100
	Magnesium	250	225.40000	90
S708828-IFB3	Iron	100	99.13000	99
	Magnesium	250	224.90000	90
	Iron	100	99.13000	99
	Sodium		0.02490	
	Aluminum	250	229.00000	92
	Aluminum	250	229.00000	92
	Calcium	250	247.80000	99
	Calcium	250	247.80000	99
	Magnesium	250	224.90000	90
S708828-IFA4	Iron	100	98.91000	99
	Magnesium	250	226.30000	91
	Sodium		0.05010	
	Aluminum	250	234.20000	94
	Aluminum	250	234.20000	94
	Calcium	250	252.00000	101

FORM IV - ICP INTERFERENCE CHECK SAMPLE

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39266
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: SC39266
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: SC39266
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: SC39266
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 Vb - POST DIGEST SPIKE SAMPLE RECOVERY

SW846 6010C

TF1-GT-136B-091417

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

Client: Tetra Tech, Inc. - Salem, NH

Matrix: Aqueous

Batch: 1716320

Preparation: SW846 3005A

SDG: SC39266

Project: WE15 Tank Farm 1 NAVSTA Newport

Laboratory ID: 1716320-PS1

Lab Source ID: SC39266-01

Initial/Final: 50 ml / 50 ml

Source Sample Name: TF1-GT-136B-091417

% Solids:

Analyte	Control Limit %R	Spike Sample Result (SSR) (mg/l)	Sample Result (SR) (mg/l)	Spike Added (SA) (mg/l)	%R	Method
Sodium	80 - 120	29.6	17.2	12.5	99	SW846 6010C
Aluminum	80 - 120	2.63	0.0265	2.50	104	SW846 6010C
Calcium	80 - 120	38.2	25.1	12.5	105	SW846 6010C
Magnesium	80 - 120	6.35	3.80	2.50	102	SW846 6010C

* Values outside of QC limits

FORM Vb - POST DIGEST SPIKE SAMPLE RECOVERY

SW846 6010C

TF1-GT-136B-091417

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

Client: Tetra Tech, Inc. - Salem, NH

Matrix: Aqueous

Batch: 1716544

Preparation: SW846 3005A

SDG: SC39266

Project: WE15 Tank Farm 1 NAVSTA Newport

Laboratory ID: 1716544-PS1

Lab Source ID: SC39266-01

Initial/Final: 50 ml / 50 ml

Source Sample Name: TF1-GT-136B-091417

% 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	12.5	9.86	2.50	104	SW846 6010C
Potassium	80 - 120	25.8	0.933	25.0	100	SW846 6010C

* Values outside of QC limits

FORM IIIc - DUPLICATES

TF1-GT-136B-091417

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
Client: Tetra Tech, Inc. - Salem, NH
Matrix: Aqueous
Batch: 1716320
Preparation: SW846 3005A
Source Sample Name: TF1-GT-136B-091417

SDG: SC39266
Project: WE15 Tank Farm 1 NAVSTA Newport
Laboratory ID: 1716320-DUP1
Lab Source ID: SC39266-01
Initial/Final: 50 ml / 50 ml
% Solids:
File ID: 20170926-150

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l)	C	DUPLICATE CONCENTRATION (mg/l)	C	RPD %	Q	METHOD
Sodium	20	17.2		17.6		2		SW846 6010C
Aluminum	20	0.0265		0.0272		3		SW846 6010C
Calcium	20	25.1		25.4		1		SW846 6010C
Magnesium	20	3.80		3.91		3		SW846 6010C

* Values outside of QC limits

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

FORM IIIc - DUPLICATES

TF1-GT-136B-091417

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
Client: Tetra Tech, Inc. - Salem, NH
Matrix: Aqueous
Batch: 1716544
Preparation: SW846 3005A
Source Sample Name: TF1-GT-136B-091417

SDG: SC39266
Project: WE15 Tank Farm 1 NAVSTA Newport
Laboratory ID: 1716544-DUP1
Lab Source ID: SC39266-01
Initial/Final: 50 ml / 50 ml
% Solids:
File ID: 20170929-108

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l)	C	DUPLICATE CONCENTRATION (mg/l)	C	RPD %	Q	METHOD
Iron	20	9.86		10.0		2		SW846 6010C
Potassium	20	0.933		0.945		1		SW846 6010C

* 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:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	ICAP5
Batch:	1716320	Laboratory ID:	1716320-BS1
Preparation:	SW846 3005A	Initial/Final:	50 ml / 50 ml
Analyzed:	09/27/17 01:04	Spike ID:	17I0705
		File ID:	20170926-146

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Sodium	12.5	11.8	95	87 - 115
Aluminum	2.50	2.65	106	86 - 115
Calcium	12.5	13.1	105	87 - 113
Magnesium	2.50	2.46	99	85 - 113

File ID: 20170926-147

COMPOUND	SPIKE ADDED (mg/l)	LCSD CONCENTRATION (mg/l)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sodium	12.5	11.9	95	0.7	20	87 - 115
Aluminum	2.50	2.59	104	2	20	86 - 115
Calcium	12.5	13.2	106	0.8	20	87 - 113
Magnesium	2.50	2.54	102	3	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:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	ICAP5
Batch:	1716544	Laboratory ID:	1716544-BS1
Preparation:	SW846 3005A	Initial/Final:	50 ml / 50 ml
Analyzed:	09/29/17 20:33	Spike ID:	17H1034
		File ID:	20170929-104

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Iron	2.50	2.65	106	87 - 115
Potassium	25.0	23.8	95	86 - 114

File ID: 20170929-105

COMPOUND	SPIKE ADDED (mg/l)	LCSD CONCENTRATION (mg/l)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Iron	2.50	2.68	107	1	20	87 - 115
Potassium	25.0	24.1	97	1	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-GT-136B-091417

SW846 6010C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	ICAP5
Batch:	1716320	Laboratory ID:	1716320-MS1
Preparation:	SW846 3005A	Initial/Final:	50 ml / 50 ml
Source Sample Name:	TF1-GT-136B-091417	% Solids:	
		Spike ID:	17I0705
		File ID:	20170926-151

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Sodium	12.5	17.2	29.1	95	87 - 115
Aluminum	2.50	0.0265	2.65	105	86 - 115
Calcium	12.5	25.1	38.0	103	87 - 113
Magnesium	2.50	3.80	6.16	94	85 - 113

File ID: 20170926-152

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sodium	12.5	29.3	97	0.7	20	87 - 115
Aluminum	2.50	2.69	107	1	20	86 - 115
Calcium	12.5	38.2	105	0.7	20	87 - 113
Magnesium	2.50	6.21	96	0.8	20	85 - 113

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

* Values outside of QC limits

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

TF1-GT-136B-091417

SW846 6010C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	ICAP5
Batch:	1716544	Laboratory ID:	1716544-MS1
Preparation:	SW846 3005A	Initial/Final:	50 ml / 50 ml
Source Sample Name:	TF1-GT-136B-091417	% Solids:	
		Spike ID:	17H1034
		File ID:	20170929-109

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Iron	2.50	9.86	12.4	101	87 - 115
Potassium	25.0	0.933	25.7	99	86 - 114

File ID: 20170929-110

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Iron	2.50	12.4	104	0.6	20	87 - 115
Potassium	25.0	26.6	102	3	20	86 - 114

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

* Values outside of QC limits

FORM VIII - SERIAL DILUTION

SW846 6010C

TF1-GT-136B-091417

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

Client: Tetra Tech, Inc. - Salem, NH

Sequence: S708828

Preparation: 1716317

Source Sample Name: TF1-GT-136B-091417

SDG: SC39266

Project: WE15 Tank Farm 1 NAVSTA Newport

Laboratory ID: S708828-SRD7

Lab Source ID: SC39266-01

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
Sodium	17.2		17.9		4		SW846 6010C	10
Aluminum	BRL		BRL				SW846 6010C	10
Calcium	25.1		27.1		8		SW846 6010C	10
Magnesium	3.80		4.07		7		SW846 6010C	10

* Values outside of QC limits

FORM VIII - SERIAL DILUTION

SW846 6010C

TF1-GT-136B-091417

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

Client: Tetra Tech, Inc. - Salem, NH

Sequence: S710438

Preparation: 1716544

Source Sample Name: TF1-GT-136B-091417

SDG: SC39266

Project: WE15 Tank Farm 1 NAVSTA Newport

Laboratory ID: S710438-SRD4

Lab Source ID: SC39266-01

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	9.86		10.3		4		SW846 6010C	10
Potassium	0.933		0.844				SW846 6010C	10

* Values outside of QC limits

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

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA **SDG:** SC39266

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

Analyte	MDL	MRL	Units
Iron	0.0089	0.0300	mg/l
	0.0089	0.0300	mg/l
Magnesium	0.0088	0.0200	mg/l
Potassium	0.120	1.00	mg/l
Sodium	10.8	25.0	mg/kg
	0.0785	0.500	mg/l
Aluminum	1.14	5.00	mg/kg
	0.0206	0.0500	mg/l
	0.0206	0.0500	mg/l
Calcium	5.12	25.0	mg/kg
	0.0142	0.200	mg/l
	0.0142	0.200	mg/l
Iron	2.06	4.00	mg/kg
Magnesium	1.44	5.00	mg/kg
	0.0088	0.0200	mg/l

METALS ANALYSIS RUN LOG

SW846 6010C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
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													

METALS ANALYSIS RUN LOG

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39266
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				
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				
Instrument RL Check	S708828-CRL5	1	09/26/17 18:24	X						X				X		X							X				
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				

METALS ANALYSIS RUN LOG

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39266
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-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				
Blank	1716320-BLK1	1	09/27/17 00:59	X						X						X							X				
LCS	1716320-BS1	1	09/27/17 01:04	X						X						X							X				
LCS Dup	1716320-BSD1	1	09/27/17 01:10	X						X						X							X				
TF1-GT-136B-09141	S708828-SRD7	5	09/27/17 01:15	X						X						X							X				
TF1-GT-136B-09141	SC39266-01	1	09/27/17 01:20	X						X						X							X				
TF1-GT-136B-09141	1716320-DUP1	1	09/27/17 01:25	X						X						X							X				
TF1-GT-136B-09141	1716320-MS1	1	09/27/17 01:30	X						X						X							X				
TF1-GT-136B-09141	1716320-MSD1	1	09/27/17 01:35	X						X						X							X				
TF1-GT-136B-09141	1716320-PS1	1	09/27/17 01:40	X						X						X							X				
Grab-WILLH-091417	SC39266-02	1	09/27/17 01:45	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				
Interference Check B	S708828-IFB7	1	09/27/17 02:16	X						X				X		X							X				

METALS ANALYSIS RUN LOG

SW846 6010C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
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																

METALS ANALYSIS RUN LOG

SW846 6010C

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39266
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							
Calibration Check	S710438-CCV4	1	09/29/17 17:36											X						X							
Calibration Blank	S710438-CCB4	1	09/29/17 17:41											X						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							
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							
Blank	1716544-BLK1	1	09/29/17 20:28											X						X							
LCS	1716544-BS1	1	09/29/17 20:33											X						X							
LCS Dup	1716544-BSD1	1	09/29/17 20:38											X						X							
TF1-GT-136B-09141	S710438-SRD4	5	09/29/17 20:43											X						X							
TF1-GT-136B-09141	SC39266-01	1	09/29/17 20:48											X						X							
TF1-GT-136B-09141	1716544-DUP1	1	09/29/17 20:54											X						X							
TF1-GT-136B-09141	1716544-MS1	1	09/29/17 20:59											X						X							
TF1-GT-136B-09141	1716544-MSD1	1	09/29/17 21:04											X						X							
TF1-GT-136B-09141	1716544-PS1	1	09/29/17 21:08											X						X							
Grab-WILLH-091417	SC39266-02	1	09/29/17 21:13											X						X							

METALS ANALYSIS RUN LOG

SW846 6010C

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
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-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							

EPA 245.1/7470A

CROSS REFERENCE TABLE

EPA 245.1/7470A

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
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-136B-091417	SC39266-01
Grab-WILLH-091417	SC39266-02

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39266

Client: Tetra Tech, Inc. - Salem, NH

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

SDG #: SC39266

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 1716321 from source sample TF1-GT-136B-091417 (SC39266-01).

All method criteria were met.

3. Post Spike Samples (PS):

A post spike was analyzed.

In batch 1716321 from source sample TF1-GT-136B-091417 (SC39266-01).

All method criteria were met.

D. Duplicates:

A duplicate was analyzed.

In batch 1716321 from source sample TF1-GT-136B-091417 (SC39266-01).

All method criteria were met.

E. Samples:

All method criteria were met.

FORM III - BLANKS

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39266
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: Mercury4
Calibration: 1712017
Sequence: S710616

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S710616-ICB1	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710616-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: SC39266
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: Mercury4
Calibration: 1712017
Sequence: S710618

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S710618-CCB1	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710618-CCB2	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
S710618-CCB3	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A
1716321-BLK1	Mercury	BRL	0.00020	mg/l	U	EPA 245.1/7470A
S710618-CCB4	Mercury	BRL	0.200	µg/l	U	EPA 245.1/7470A

FORM Vb - POST DIGEST SPIKE SAMPLE RECOVERY

EPA 245.1/7470A

TF1-GT-136B-091417

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39266
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous
Laboratory ID: 1716321-PS1
Batch: 1716321
Lab Source ID: SC39266-01
Preparation: EPA200/SW7000 Series
Initial/Final: 20 ml / 20 ml
Source Sample Name: TF1-GT-136B-091417
% 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	0.00437	BRL	0.00500	87	EPA 245.1/7470A

* Values outside of QC limits

FORM IIIc - DUPLICATES

TF1-GT-136B-091417

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
Client: Tetra Tech, Inc. - Salem, NH
Matrix: Aqueous
Batch: 1716321
Preparation: EPA200/SW7000 Series
Source Sample Name: TF1-GT-136B-091417

SDG: SC39266
Project: WE15 Tank Farm 1 NAVSTA Newport
Laboratory ID: 1716321-DUP1
Lab Source ID: SC39266-01
Initial/Final: 20 ml / 20 ml
% Solids:
File ID: 092617A-086

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

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

EPA 245.1/7470A

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	Mercury4
Batch:	1716321	Laboratory ID:	1716321-BS1
Preparation:	EPA200/SW7000 Series	Initial/Final:	20 ml / 20 ml
Analyzed:	09/26/17 17:56	Spike ID:	17I0724
		File ID:	092617A-084

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Mercury	0.00500	0.00439	88	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-GT-136B-091417

EPA 245.1/7470A

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	Mercury4
Batch:	1716321	Laboratory ID:	1716321-MS1
Preparation:	EPA200/SW7000 Series	Initial/Final:	20 ml / 20 ml
Source Sample Name:	TF1-GT-136B-091417	% Solids:	
		Spike ID:	17I0724
		File ID:	092617A-087

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Mercury	0.00500	BRL	0.00457	91	82 - 119

File ID: 092617A-088

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Mercury	0.00500	0.00452	90	1	20	82 - 119

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

* Values outside of QC limits

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

EPA 245.1/7470A

Laboratory: Eurofins Spectrum Analytical, Inc. - MA **SDG:** SC39266

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

Analyte	MDL	MRL	Units
Mercury	0.00013	0.00020	mg/l

METALS ANALYSIS RUN LOG

EPA 245.1/7470A

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S710616	Instrument:	Mercury4
		Calibration:	1712017

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	S710616-CAL2	1	09/26/17 13:41															X									
Cal Standard	S710616-CAL3	1	09/26/17 13:43															X									
Cal Standard	S710616-CAL4	1	09/26/17 13:45															X									
Cal Standard	S710616-CAL5	1	09/26/17 13:47															X									
Cal Standard	S710616-CAL6	1	09/26/17 13:49															X									
Cal Standard	S710616-CAL7	1	09/26/17 13:51															X									
Cal Standard	S710616-CAL8	1	09/26/17 13:54															X									
Cal Standard	S710616-CAL1	1	09/26/17 14:20															X									
Initial Cal Check	S710616-ICV1	1	09/26/17 14:29															X									
Initial Cal Blank	S710616-ICB1	1	09/26/17 14:31															X									
Instrument RL Check	S710616-CRL1	1	09/26/17 14:33															X									
Calibration Check	S710616-CCV1	1	09/26/17 14:36															X									
Calibration Blank	S710616-CCB1	1	09/26/17 14:38															X									

METALS ANALYSIS RUN LOG

EPA 245.1/7470A

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S710618	Instrument:	Mercury4
		Calibration:	1712017

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	S710618-CCV1	1	09/26/17 15:01															X									
Calibration Blank	S710618-CCB1	1	09/26/17 15:03															X									
Instrument RL Check	S710618-CRL1	1	09/26/17 15:09															X									
Calibration Check	S710618-CCV2	1	09/26/17 15:11															X									
Calibration Blank	S710618-CCB2	1	09/26/17 15:14															X									
Calibration Check	S710618-CCV3	1	09/26/17 17:48															X									
Calibration Blank	S710618-CCB3	1	09/26/17 17:50															X									
Instrument RL Check	S710618-CRL2	1	09/26/17 17:52															X									
Blank	1716321-BLK1	1	09/26/17 17:54															X									
LCS	1716321-BS1	1	09/26/17 17:56															X									
TF1-GT-136B-09141	SC39266-01	1	09/26/17 17:58															X									
TF1-GT-136B-09141	1716321-DUP1	1	09/26/17 18:01															X									
TF1-GT-136B-09141	1716321-MS1	1	09/26/17 18:03															X									
TF1-GT-136B-09141	1716321-MSD1	1	09/26/17 18:05															X									
TF1-GT-136B-09141	1716321-PS1	1	09/26/17 18:07															X									
Grab-WILLH-091417	SC39266-02	1	09/26/17 18:09															X									
Instrument RL Check	S710618-CRL3	1	09/26/17 18:11															X									
Calibration Check	S710618-CCV4	1	09/26/17 18:13															X									
Calibration Blank	S710618-CCB4	1	09/26/17 18:15															X									

Metals in Liquid Data

eurofins | Lancaster Laboratories Environmental

Case Narrative/Conformance Summary

CLIENT: Eurofins Spectrum Analytical
SDG: SAI20

ICP Metals

Fraction: Metals in Liquid

Sample #	Client ID	Matrix Liquid	Matrix Solid	Comments
9240335	SC39266-01	X		Background/Unspiked
9240336	SC39266-01MS	X		Matrix Spike
9240337	SC39266-01MSD	X		Matrix Spike Duplicate
9240338	SC39266-01DUP	X		Duplicate
9240339	SC39266-02	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

Method defined actions are taken for any failed matrix QC.

Batch#: 172771063901A (Sample number(s): 9240335-9240339, UNSPK: 9240335, BKG: 9240335)
The recovery(ies) for the following analyte(s) in the MSD exceeded the acceptance window indicating a positive bias:Antimony
The recovery(ies) for the following analyte(s) in the MS and MSD were below the acceptance window: Manganese

Case Narrative/Conformance Summary

CLIENT: Eurofins Spectrum Analytical
SDG: SAI20

ICP Metals

Fraction: Metals in Liquid

Sample Duplicate

Batch#: 172771063901A (Sample number(s): 9240335-9240339, UNSPK: 9240335, BKG: 9240335)
The duplicate RPD for the following analyte(s) is outside the acceptance window:
Chromium

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

QUALITY CONTROL REFERENCE LIST

SDG No.: SAI20
Matrix: WATER

Analyte	Batch Number	Lab Sample ID
Antimony	172771063901	9240335BKG
Arsenic		9240336MS
Barium		9240337MSD
Beryllium		9240338DUP
Cadmium		9240339
Chromium		P27763AB
Cobalt		P27763AQ
Copper		
Lead		
Manganese		
Molybdenum		
Nickel		
Selenium		
Silver		
Thallium		
Vanadium		
Zinc		

LEGEND:

BKG = Background	B = Blank
DUP = Duplicate	Q = Laboratory Control Sample
MS = Matrix Spike	Y = Laboratory Control Sample Duplicate
MSD = Matrix Spike Duplicate	

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QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: SAI20

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			121	0.450	U	172771063901A
Arsenic	75	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			9	0.071	U	172771063901A
Cadmium	111	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			52	0.870	U	172771063901A
Cobalt	59	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			63	0.540	U	172771063901A
Lead	208	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			55	0.900	U	172771063901A
Molybdenum	98	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			60	1.000	U	172771063901A
Selenium	78	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			107	0.150	U	172771063901A
Thallium	203	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			51	0.210	U	172771063901A
Zinc	66	2.6	U	2.6	U	2.6	U			66	3.900	U	172771063901A

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below IDL/MDL
B= Below LOQ

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QUALITY ASSURANCE SUMMARY
FORM 3
BLANKS
SDG No.: SAI20

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													
Beryllium													
Cadmium	111	0.15	U	0.15	U	0.15	U						
Chromium													
Cobalt													
Copper													
Lead													
Manganese	55	0.90	U	0.90	U	0.90	U						
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	

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

Analyte	Mass	True		Found			
		Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	27	100000	100000	105749	105.7	108600.4	108.6
Antimony	121	0	0	1		1.1	
Arsenic	75	0	100	0		109.1	109.1
Barium	137	0	0	2		2.0	
Beryllium	9	0	0	0		0.0	
Cadmium	111	0	100	0		101.1	101.1
Calcium	44	300000	300000	302497	100.8	309883.4	103.3
Carbon	13	20000	20000	NA		NA	
Chloride	37	100000	100000	NA		NA	
Chromium	52	0	200	2		216.2	108.1
Cobalt	59	0	205	1		207.8	101.4
Copper	63	0	200	1		206.6	103.3
Iron	57	250000	250000	236237	94.5	239360.5	95.7
Lead	208	0	0	0		0.2	
Magnesium	24	100000	100000	99270	99.3	100733.1	100.7
Manganese	55	0	200	4		222.8	111.4
Molybdenum	98	2000	2000	2062	103.1	2170.3	108.5
Nickel	60	0	200	1		211.5	105.8
Phosphorus	31	10000	10000	NA		NA	
Potassium	39	100000	100000	106561	106.6	105612.4	105.6
Selenium	78	0	100	0		97.4	97.4
Silver	107	0	50	0		53.6	107.2
Sodium	23	250000	250000	251678	100.7	256452.7	102.6
Sulfur	34	10000	10000	NA		NA	
Thallium	203	0	0	0		0.1	
Titanium	47	2000	2000	2105	105.3	2137.7	106.9
Vanadium	51	0	200	0		224.6	112.3
Zinc	66	0	100	2		102.4	102.4

Control Limits: All Metals 80%-120%

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

Analyte	Mass	True		Found			
		Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R
Aluminum	27	100000	100000	102246	102.2	101869.2	101.9
Antimony							
Arsenic							
Barium							
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%

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QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: SAI20
Matrix: WATER Level (low/med): LOW

Background Lab Sample ID: 9240335BKG Matrix Spike Lab Sample ID: 9240336MS Matrix Spike Duplicate Lab Sample ID: 9240337MSD
Batch Number(s): 172771063901

		BKG Sample		MS Sample		MSD Sample		MS Spike	MSD Spike		MS		MSD				Control Limit		
Analyte	Mass	Result	C	Result	C	Result	C	Added	Added	Units	%R	Q	%R	Q	RPD	Q	%R	RPD	M
Antimony	121	0.4510	U	6.3790		7.2430		6.0000	6.0000	UG/L	106		121	N	13		85 - 117	20	MS
Arsenic	75	6.9600		18.4660		17.2440		10.0000	10.0000	UG/L	115		103		7		84 - 116	20	MS
Barium	137	82.6290		127.7810		136.5810		50.0000	50.0000	UG/L	90		108		7		86 - 114	20	MS
Beryllium	9	0.0713	U	4.1880		4.2150		4.0000	4.0000	UG/L	105		105		1		83 - 121	20	MS
Cadmium	111	0.1520	U	4.8190		4.9150		5.0000	5.0000	UG/L	96		98		2		87 - 115	20	MS
Chromium	52	2.4170	B	52.7570		54.1400		50.0000	50.0000	UG/L	101		103		3		85 - 116	20	MS
Cobalt	59	38.1710		300.7400		295.7150		250.0000	250.0000	UG/L	105		103		2		86 - 115	20	MS
Copper	63	0.5360	U	54.1080		54.0640		50.0000	50.0000	UG/L	108		108		0		85 - 118	20	MS
Lead	208	0.1110	U	15.7610		15.8830		15.0000	15.0000	UG/L	105		106		1		88 - 115	20	MS
Manganese	55	2449.3220		2433.2440		2390.9710		50.0000	50.0000	UG/L	-32		-117		2			20	MS
Molybdenum	98	0.7960	B	53.8000		54.4460		50.0000	50.0000	UG/L	106		107		1		83 - 115	20	MS
Nickel	60	14.3850		69.3040		66.5070		50.0000	50.0000	UG/L	110		104		4		85 - 117	20	MS
Selenium	78	0.5000	U	10.4060		10.6720		10.0000	10.0000	UG/L	104		107		3		80 - 120	20	MS
Silver	107	0.1460	U	53.6570		53.3890		50.0000	50.0000	UG/L	107		107		1		85 - 116	20	MS
Thallium	203	0.1170	U	2.0510		1.9750		2.0000	2.0000	UG/L	103		99		4		82 - 116	20	MS
Vanadium	51	0.2130	U	53.8450		54.4820		50.0000	50.0000	UG/L	108		109		1		86 - 115	20	MS
Zinc	66	10.4820	B	551.7990		530.0250		500.0000	500.0000	UG/L	108		104		4		83 - 119	20	MS

Note: Results shown are reported on an as-received basis.

METHODS:
P = ICP Atomic Emission Spectrometer CV = Cold Vapor
MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL, B= Below LOQ
FLAGS:
N = Matrix Spike OOS, * = Duplicate OOS

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QUALITY ASSURANCE SUMMARY
FORM 5B
POST DIGEST SPIKE SAMPLE RECOVERY
SDG No.: SAI20
Matrix: WATER Level (low/med): LOW

Background Lab Sample ID: 9240335BKG

Analyte	Mass	Sample Result(SR)	C	Spike Added(SA)	Spiked Sample Result(SSR)	C	SRR %R	Spiked Sample Duplicate(SSD)	C	SSD %R	M
Antimony	121	0.4510	U	2.0000	2.0890		104	NA	U	NA	MS

Comments:

Note: Results shown are reported on an as-received basis.

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

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QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: SAI20
Matrix: WATER Level (low/med): LOW

Background Lab Sample ID: 9240335BKG Duplicate Lab Sample ID: 9240338DUP
Batch Number(s): 172771063901
Concentration Units: UG/L

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Antimony	121		0.4510	U	0.4510	U			MS
Arsenic	75	4.0	6.9600		7.7520		11		MS
Barium	137		82.6290		75.8520		9		MS
Beryllium	9		0.0713	U	0.0713	U			MS
Cadmium	111		0.1520	U	0.1520	U			MS
Chromium	52		2.4170	B	0.8950	B	92		MS
Cobalt	59		38.1710		36.8650		3		MS
Copper	63		0.5360	U	0.5360	U			MS
Lead	208		0.1110	U	0.1110	U			MS
Manganese	55		2449.3220		2326.9710		5		MS
Molybdenum	98		0.7960	B	0.7250	B	9		MS
Nickel	60	4.0	14.3850		14.4460		0		MS
Selenium	78		0.5000	U	0.5000	U			MS
Silver	107		0.1460	U	0.1460	U			MS
Thallium	203		0.1170	U	0.1170	U			MS
Vanadium	51		0.2130	U	0.2130	U			MS
Zinc	66		10.4820	B	10.7600	B	3		MS

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

Note: Results shown are reported on an as-received basis.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ

FLAGS:
* = Duplicate Out of Spec

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QUALITY ASSURANCE SUMMARY
FORM 7
LABORATORY CONTROL SAMPLE
SDG No.: SAI20
Matrix: WATER

Analyte	Mass	Batch Number	Units	True	Found	C	Control Limits (%)	%R	M	In Spec
Antimony	121	172771063901	UG/L	6.000	6.104		85 - 117	102	MS	Yes
Arsenic	75	172771063901	UG/L	10.000	9.387		84 - 116	94	MS	Yes
Barium	137	172771063901	UG/L	50.000	52.047		86 - 114	104	MS	Yes
Beryllium	9	172771063901	UG/L	4.000	4.191		83 - 121	105	MS	Yes
Cadmium	111	172771063901	UG/L	5.000	5.028		87 - 115	101	MS	Yes
Chromium	52	172771063901	UG/L	50.000	49.752		85 - 116	100	MS	Yes
Cobalt	59	172771063901	UG/L	250.000	257.194		86 - 115	103	MS	Yes
Copper	63	172771063901	UG/L	50.000	51.505		85 - 118	103	MS	Yes
Lead	208	172771063901	UG/L	15.000	15.836		88 - 115	106	MS	Yes
Manganese	55	172771063901	UG/L	50.000	51.457		87 - 115	103	MS	Yes
Molybdenum	98	172771063901	UG/L	50.000	51.309		83 - 115	103	MS	Yes
Nickel	60	172771063901	UG/L	50.000	52.996		85 - 117	106	MS	Yes
Selenium	78	172771063901	UG/L	10.000	10.415		80 - 120	104	MS	Yes
Silver	107	172771063901	UG/L	50.000	52.686		85 - 116	105	MS	Yes
Thallium	203	172771063901	UG/L	2.000	2.150		82 - 116	108	MS	Yes
Vanadium	51	172771063901	UG/L	50.000	51.042		86 - 115	102	MS	Yes
Zinc	66	172771063901	UG/L	500.000	530.839		83 - 119	106	MS	Yes

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ

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QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: SAI20
Matrix: WATER Level (low/med): LOW

Background Lab Sample ID: 9240335BKG Serial Dilution Lab Sample ID: 9240335L
Batch Number(s): 172771063901
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Antimony	121	0.4510	U	2.2550	U			MS
Arsenic	75	6.9600		6.6200	B	5		MS
Barium	137	82.6290		75.5600		9		MS
Beryllium	9	0.0713	U	0.3565	U			MS
Cadmium	111	0.1520	U	0.7600	U			MS
Chromium	52	2.4170	B	4.3500	U	100		MS
Cobalt	59	38.1710		38.0550		0		MS
Copper	63	0.5360	U	2.6800	U			MS
Lead	208	0.1110	U	0.5550	U			MS
Manganese	55	2449.3220		2457.7800		0		MS
Molybdenum	98	0.7960	B	1.2500	U	100		MS
Nickel	60	14.3850		14.5900	B	1		MS
Selenium	78	0.5000	U	2.5000	U			MS
Silver	107	0.1460	U	0.7300	U			MS
Thallium	203	0.1170	U	0.5850	U			MS
Vanadium	51	0.2130	U	1.0650	U			MS
Zinc	66	10.4820	B	19.6000	U	100		MS

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

QUALITY ASSURANCE SUMMARY
FORM 10
INSTRUMENT DETECTION LIMITS (QUARTERLY)
SDG No.: SAI20

Method: MS
Instrument ID: 19204
Date: 07/2017

Analyte	MASS (amu)	Background	IDL (UG/L)
Antimony	121		0.35
Arsenic	75		0.60
Barium	137		0.43
Beryllium	9		0.054
Cadmium	111		0.15
Chromium	52		0.50
Cobalt	59		0.17
Copper	63		0.40
Lead	208		0.088
Manganese	55		0.90
Molybdenum	98		0.25
Nickel	60		0.61
Selenium	78		0.50
Silver	107		0.12
Thallium	203		0.12
Vanadium	51		0.17
Zinc	66		2.6

Comments:
_____
_____
_____
_____

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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QUALITY ASSURANCE SUMMARY
FORM 10 MDL
METHOD DETECTION LIMITS (ANNUALLY)
SDG No.: SAI20
Matrix: WATER

Method: MS
Date: 06/2017

Analyte	Mass	Background	LOQ (UG/L)	MDL (UG/L)
Antimony	121		2.0	0.45
Arsenic	75		4.0	0.72
Barium	137		4.0	0.72
Beryllium	9		1.0	0.071
Cadmium	111		1.0	0.15
Chromium	52		4.0	0.87
Cobalt	59		1.0	0.16
Copper	63		4.0	0.54
Lead	208		2.0	0.11
Manganese	55		4.0	0.90
Molybdenum	98		1.0	0.25
Nickel	60		4.0	1.0
Selenium	78		4.0	0.50
Silver	107		1.0	0.15
Thallium	203		1.0	0.12
Vanadium	51		1.0	0.21
Zinc	66		30.0	3.9

The LOQ/MDL must be adjusted for % Solids and Sample Weight for samples reporting in mg/kg and ug/L.

Comments:
_____
_____
_____
_____

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

Method: MS
Batch Number: 172771063901

Lab Sample ID	Date	Initial Volume(ml)	Final Volume(ml)
9240339	10/05/2017	50.00	50
9240335BKG	10/05/2017	50.00	50
9240338DUP	10/05/2017	50.00	50
9240337MSD	10/05/2017	50.00	50
9240336MS	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 14
ANALYSIS RUN LOG
SDG No.: SAI20

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																			
9240335BKG	1.00	17:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																			
9240335A	1.00	18:01	X																																			
9240338DUP	1.00	18:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																			
9240336MS	1.00	18:07	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X																			
9240337MSD	1.00	18:10	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X																			
9240335L	5.00	18:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																			
9240339	1.00	18:17	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X																			
ZZZZZZ	1.00	18:20																																				
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																			

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.: SAI20

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																										
S	1.00	05:55					X					X																										
CCS	1.00	05:57					X					X																										
CCS	1.00	05:59					X					X																										
ICV	1.00	06:00					X					X																										
ICB	1.00	06:02					X					X																										
LLC	1.00	06:04					X					X																										
ICSA	1.00	06:06					X					X																										
ICSAB	1.00	06:08					X					X																										
ZZZZZZ	1.00	06:10																																			
CCV	1.00	06:11					X					X																										
CCB	1.00	06:13					X					X																										
P27763AQ	1.00	06:15					X					X																										
9240335A	1.00	06:17																																			
9240336MS	1.00	06:19					X																														
9240337MSD	1.00	06:21					X																														
9240339	5.00	06:22										X																										
ZZZZZZ	1.00	06:24																																			
ZZZZZZ	5.00	06:26																																			
ZZZZZZ	1.00	06:28																																			
ZZZZZZ	1.00	06:30																																			
ZZZZZZ	1.00	06:32																																			
CCV	1.00	06:34					X					X																										
CCB	1.00	06:35					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.: SAI20

Instrument ID: 19204
Run Name: 1728207E05

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

Standard	Elements Applies to	Standard	Elements Applies to
BI-2-209	PB,TL	IN-1-115	SE
IN-2-115	AG,AS,BA,CD,CO,CU,MO,NI,SB,ZN	SC-2-45	CR,MN,V
SC-3-45	BE		

Lab Sample ID	Time	Internal Standards %RI For: Element SC-2-45	Q	Element SC-3-45	Q	Element IN-1-115	Q	Element IN-2-115	Q	Element BI-2-209	Q	Element	Q	Element	Q
S0	17:15	100		100		100		100		100					
S	17:18	103		99		99		101		101					
CCS	17:21	98		98		97		97		99					
CCS	17:24	103		96		99		98		100					
ICV	17:27	101		99		98		102		99					
ICB	17:30	97		98		98		98		99					
LLC	17:33	103		98		100		100		101					
ICSA	17:36	90		88		90		91		87					
ICSAB	17:40	88		88		90		87		86					
ZZZZZZ	17:43														
CCV	17:46	97		97		98		96		97					
CCB	17:49	95		97		98		96		98					
P27763AB	17:52	98		99		101		97		101					
P27763AQ	17:55	105		99		101		101		99					
9240335BKG	17:58	101		99		99		99		101					
9240335A	18:01	101		102		102		100		103					
9240338DUP	18:04	104		101		101		101		102					
9240336MS	18:07	101		101		99		98		100					
9240337MSD	18:10	102		100		101		100		100					
9240335L	18:14	102		103		101		102		103					
9240339	18:17	101		100		99		98		99					
ZZZZZZ	18:20														
CCV	18:23	98		98		102		101		101					
CCB	18:26	94		97		98		98		99					

LEGEND:
BKG = Background
DUP = Duplicate
L = Serial Dilution
B = Blank
Q = Laboratory Control Sample
Y = Laboratory Control Sample Duplicate
MS = Matrix Spike
MSD = Matrix Spike Duplicate
A = Post Digest Spike

FLAG:
R = Internal Standard Relative Intensity OOS

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

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QUALITY ASSURANCE SUMMARY
FORM 16
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
SDG No.: SAI20

Instrument ID: 19204
Run Name: 1728504E05

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

Standard	Elements Applies to	Standard	Elements Applies to
IN-1-115	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											
9240335A	06:17			98											
9240336MS	06:19			99											
9240337MSD	06:21			100											
9240339	06:22	103													
ZZZZZZ	06:24														
ZZZZZZ	06:26														
ZZZZZZ	06:28														
ZZZZZZ	06:30														
ZZZZZZ	06:32														
CCV	06:34	102		103											
CCB	06:35	101		102											

LEGEND:
BKG = Background
DUP = Duplicate
L = Serial Dilution
B = Blank
Q = Laboratory Control Sample
Y = Laboratory Control Sample Duplicate
MS = Matrix Spike
MSD = Matrix Spike Duplicate
A = Post Digest Spike

FLAG:
R = Internal Standard Relative Intensity OOS

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

EPA 300.0

CROSS REFERENCE TABLE

EPA 300.0

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
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-136B-091417	SC39266-01
Grab-WILLH-091417	SC39266-02

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39266

Client: Tetra Tech, Inc. - Salem, NH

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

SDG #: SC39266

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 1715887 from source sample TF1-GT-136B-091417 (SC39266-01).

All method criteria were met with the following exceptions:

Sulfate as SO4 in batch 1715887, lab sample 1715887-MS2 from source sample TF1-GT-136B-091417 (SC39266-01): The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Sulfate as SO4 in batch 1715887, lab sample 1715887-MSD2 from source sample TF1-GT-136B-091417 (SC39266-01): The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

3. Reference:

All method criteria were met.

D. Duplicates:

A duplicate was analyzed.

In batch 1715887 from source sample TF1-GT-136B-091417 (SC39266-01).

All method criteria were met.

E. Samples:

All method criteria were met with the following exceptions:

Chloride in batch 1715887, sample TF1-GT-136B-091417 (SC39266-01): Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sulfate as SO4 in batch 1715887, sample TF1-GT-136B-091417 (SC39266-01): The Reporting Limit has been raised to account for matrix interference.

FORM III - BLANKS

EPA 300.0

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39266
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: SC39266
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: IC3
Calibration: 1710011
Sequence: S709520
Matrix: Aqueous

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
1715887-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
1715887-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
1715887-CCB2	Chloride	0.151	1.00	mg/l	J	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	0.008	0.100	mg/l	J	EPA 300.0
1715887-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
1715887-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
1715887-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
1715887-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
1715887-CCB7	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1715887-CCB8	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0
1715887-CCB9	Chloride	BRL	1.00	mg/l	U	EPA 300.0
	Sulfate as SO4	BRL	1.00	mg/l	U	EPA 300.0
	Nitrate as N	BRL	0.100	mg/l	U	EPA 300.0

FORM IIIc - DUPLICATES

TF1-GT-136B-091417

EPA 300.0

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
Client: Tetra Tech, Inc. - Salem, NH
Matrix: Aqueous
Batch: 1715887
Preparation: General Preparation
Source Sample Name: TF1-GT-136B-091417

SDG: SC39266
Project: WE15 Tank Farm 1 NAVSTA Newport
Laboratory ID: 1715887-DUP2
Lab Source ID: SC39266-01
Initial/Final: 5 ml / 5 ml
% Solids:
File ID: 091517-087

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l)	C	DUPLICATE CONCENTRATION (mg/l)	C	RPD %	Q	METHOD
Chloride	20	51.8		52.4		1		EPA 300.0
Sulfate as SO4	20	4.77		4.82		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 IIIa - LCS / LCS DUPLICATE RECOVERY

EPA 300.0

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	IC3
Batch:	1715887	Laboratory ID:	1715887-BS1
Preparation:	General Preparation	Initial/Final:	5 ml / 5 ml
Analyzed:	09/15/17 17:03	Spike ID:	17I0371
		File ID:	091517-015

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Chloride	20.0	20.0	100	90 - 110
Sulfate as SO4	20.0	20.1	100	90 - 110
Nitrate as N	2.00	1.97	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 IIIb (Organic) / FORM V (Inorganic)
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

TF1-GT-136B-091417

EPA 300.0

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	IC3
Batch:	1715887	Laboratory ID:	1715887-MS2
Preparation:	General Preparation	Initial/Final:	2.5 ml / 5 ml
Source Sample Name:	TF1-GT-136B-091417	% Solids:	
		Spike ID:	17I0115
		File ID:	091517-092

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Chloride	16.0	51.8	66.6	92	90 - 110
Sulfate as SO4	16.0	4.77	28.4	148 *	90 - 110
Nitrate as N	1.60	BRL	1.50	94	90 - 110

File ID: 091517-093

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloride	16.0	66.6	92	0.08	20	90 - 110
Sulfate as SO4	16.0	28.4	148 *	0.04	20	90 - 110
Nitrate as N	1.60	1.50	94	0.3	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: SC39266
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous
Spike ID: 17I0370
Batch: 1715887
Laboratory ID: 1715887-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	24.4	97	90 - 110
Sulfate as SO4	25.0	24.8	99	90 - 110
Nitrate as N	2.50	2.31	92	90 - 110

* Values outside of QC limits

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

EPA 300.0

Laboratory: Eurofins Spectrum Analytical, Inc. - MA **SDG:** SC39266

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

Analyte	MDL	MRL	Units
Chloride	0.0994	1.00	mg/l
	0.0994	1.00	mg/l
Nitrate as N	0.007	0.010	mg/l
Sulfate as SO4	0.798	1.00	mg/l
	0.798	1.00	mg/l
Nitrate as N	0.007	0.100	mg/l

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

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
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:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S709520	Instrument:	IC3
		Calibration:	1710011

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	1715887-CCV1	091517-012	09/15/17 16:15
Calibration Blank	1715887-CCB1	091517-013	09/15/17 16:31
Blank	1715887-BLK1	091517-014	09/15/17 16:47
LCS	1715887-BS1	091517-015	09/15/17 17:03
Reference	1715887-SRM1	091517-016	09/15/17 17:19
Calibration Check	1715887-CCV2	091517-017	09/15/17 17:35
Calibration Blank	1715887-CCB2	091517-018	09/15/17 17:51
TF1-GT-136B-091417	SC39266-01	091517-021	09/15/17 18:39
TF1-GT-136B-091417	1715887-DUP2	091517-022	09/15/17 18:55
Calibration Check	1715887-CCV3	091517-029	09/15/17 20:47
Calibration Blank	1715887-CCB3	091517-030	09/15/17 21:03
Calibration Check	1715887-CCV4	091517-041	09/15/17 23:59
Calibration Blank	1715887-CCB4	091517-042	09/16/17 00:15
Grab-WILLH-091417	SC39266-02	091517-050	09/16/17 02:24
Calibration Check	1715887-CCV5	091517-053	09/16/17 03:12
Calibration Blank	1715887-CCB5	091517-054	09/16/17 03:28
Calibration Check	1715887-CCV6	091517-065	09/16/17 06:23
Calibration Blank	1715887-CCB6	091517-066	09/16/17 06:39
Calibration Check	1715887-CCV7	091517-077	09/16/17 09:35
Calibration Blank	1715887-CCB7	091517-078	09/16/17 09:51
TF1-GT-136B-091417	SC39266-01	091517-086	09/16/17 11:57
TF1-GT-136B-091417	1715887-DUP2	091517-087	09/16/17 12:13
Calibration Check	1715887-CCV8	091517-089	09/16/17 12:44
Calibration Blank	1715887-CCB8	091517-090	09/16/17 13:00
TF1-GT-136B-091417	1715887-MS2	091517-092	09/16/17 13:32
TF1-GT-136B-091417	1715887-MSD2	091517-093	09/16/17 13:48
Calibration Check	1715887-CCV9	091517-094	09/16/17 14:04
Calibration Blank	1715887-CCB9	091517-095	09/16/17 14:20

SM5310B (00, 11)

CROSS REFERENCE TABLE

SM5310B (00, 11)

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
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-136B-091417	SC39266-01
Grab-WILLH-091417	SC39266-02

CASE NARRATIVE

Spectrum Analytical, Inc. Lab Reference No. SC39266

Client: Tetra Tech, Inc. - Salem, NH

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

SDG #: SC39266

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 1716423 from source sample TF1-GT-136B-091417 (SC39266-01).

All method criteria were met.

3. Reference:

All method criteria were met.

D. Duplicates:

A duplicate was analyzed.

In batch 1716423 from source sample TF1-GT-136B-091417 (SC39266-01).

All method criteria were met with the following exceptions:

Total Organic Carbon in batch 1716423, sample 1716423-DUP1 from source sample TF1-GT-136B-091417 (SC39266-01): The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.

E. Samples:

All method criteria were met.

FORM III - BLANKS

SM5310B (00, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39266
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: TOC4
Calibration: 1706085
Sequence: S705799
Matrix: Aqueous

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S705799-ICB1	Total Organic Carbon	0.3281	1.00	mg/l	J	SM5310B (00, 11)

FORM III - BLANKS

SM5310B (00, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39266
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: TOC4
Calibration: 1706085
Sequence: S708583
Matrix: Aqueous

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
1716423-CCB1	Total Organic Carbon	BRL	1.00	mg/l	U	SM5310B (00, 11)
1716423-BLK1	Total Organic Carbon	BRL	1.00	mg/l	U	SM5310B (00, 11)
1716423-CCB2	Total Organic Carbon	BRL	1.00	mg/l	U	SM5310B (00, 11)
1716423-CCB3	Total Organic Carbon	0.2925	1.00	mg/l	J	SM5310B (00, 11)
1716423-CCB4	Total Organic Carbon	BRL	1.00	mg/l	U	SM5310B (00, 11)

FORM IIIc - DUPLICATES

TF1-GT-136B-091417

SM5310B (00, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
Client: Tetra Tech, Inc. - Salem, NH
Matrix: Aqueous
Batch: 1716423
Preparation: General Preparation
Source Sample Name: TF1-GT-136B-091417

SDG: SC39266
Project: WE15 Tank Farm 1 NAVSTA Newport
Laboratory ID: 1716423-DUP1
Lab Source ID: SC39266-01
Initial/Final: 40 ml / 40 ml
% Solids:
File ID: 1716423-007

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l)	C	DUPLICATE CONCENTRATION (mg/l)	C	RPD %	Q	METHOD
Total Organic Carbon	20	1.30		1.03		24	*	SM5310B (00, 11)

* Values outside of QC limits

RPD within limits. RL 1.00

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

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SM5310B (00, 11)

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	TOC4
Batch:	1716423	Laboratory ID:	1716423-BS1
Preparation:	General Preparation	Initial/Final:	40 ml / 40 ml
Analyzed:	09/26/17 12:35	Spike ID:	17I0653
		File ID:	1716423-004

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	15.0	13.8	92	85 - 115

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

* Values outside of QC limits

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

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

TF1-GT-136B-091417

SM5310B (00, 11)

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	TOC4
Batch:	1716423	Laboratory ID:	1716423-MS1
Preparation:	General Preparation	Initial/Final:	40 ml / 40 ml
Source Sample Name:	TF1-GT-136B-091417	% Solids:	
		Spike ID:	16E0251
		File ID:	1716423-008

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Total Organic Carbon	5.00	1.30	5.68	87	70 - 130

File ID: 1716423-009

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Total Organic Carbon	5.00	5.68	88	0.1	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: SC39266
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous
Spike ID: 17H0608
Batch: 1716423
Laboratory ID: 1716423-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	14.4	99	88 - 112

* Values outside of QC limits

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

SM5310B (00, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39266

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
Total Organic Carbon	0.238	1.00	mg/l

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

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
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:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708583	Instrument:	TOC4
		Calibration:	1706085

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Calibration Check	1716423-CCV1	1716423-001	09/26/17 11:48
Calibration Blank	1716423-CCB1	1716423-002	09/26/17 12:04
Blank	1716423-BLK1	1716423-003	09/26/17 12:20
LCS	1716423-BS1	1716423-004	09/26/17 12:35
Reference	1716423-SRM1	1716423-005	09/26/17 12:53
TF1-GT-136B-091417	SC39266-01	1716423-006	09/26/17 13:09
TF1-GT-136B-091417	1716423-DUP1	1716423-007	09/26/17 13:26
TF1-GT-136B-091417	1716423-MS1	1716423-008	09/26/17 13:42
TF1-GT-136B-091417	1716423-MSD1	1716423-009	09/26/17 13:58
Grab-WILLH-091417	SC39266-02	1716423-010	09/26/17 14:12
Calibration Check	1716423-CCV2	1716423-013	09/26/17 15:00
Calibration Blank	1716423-CCB2	1716423-014	09/26/17 15:17
Calibration Check	1716423-CCV3	1716423-025	09/26/17 18:34
Calibration Blank	1716423-CCB3	1716423-026	09/26/17 18:50
Calibration Check	1716423-CCV4	1716423-034	09/26/17 21:01
Calibration Blank	1716423-CCB4	1716423-035	09/26/17 21:18

SM18-22 5210B

CROSS REFERENCE TABLE

SM18-22 5210B

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
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-136B-091417	SC39266-01
Grab-WILLH-091417	SC39266-02

FORM III - BLANKS

SM18-22 5210B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39266
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Instrument ID: DO Meter
Calibration: UNASSIGNED
Sequence: S708601
Matrix: Aqueous

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
1715906-BLK1	Biochemical Oxygen Demand (5-day	BRL	3.00	mg/l	U	SM18-22 5210B
1715906-BLK2	Biochemical Oxygen Demand (5-day	BRL	3.00	mg/l	U	SM18-22 5210B

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

TF1-GT-136B-091417

SM18-22 5210B

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	DO Meter
Batch:	1715906	Laboratory ID:	1715906-MS1
Preparation:	General Preparation	Initial/Final:	300 ml / 300 ml
Source Sample Name:	TF1-GT-136B-091417	% Solids:	
		Spike ID:	17H0348
		File ID:	

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Biochemical Oxygen Demand (5-day	59.4	BRL	59.0	99	75 - 125

File ID:

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Biochemical Oxygen Demand (5-day	59.4	61.0	103	3	20	75 - 125

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

* Values outside of QC limits

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SM18-22 5210B

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	DO Meter
Batch:	1715906	Laboratory ID:	1715906-BS1
Preparation:	General Preparation	Initial/Final:	300 ml / 300 ml
Analyzed:	09/27/17 16:04	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	171	86	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: SC39266
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous
Spike ID: 17I0355
Batch: 1715906
Laboratory ID: 1715906-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	40.0	88	67 - 133

* Values outside of QC limits

FORM VIIb(Inorganics) - STANDARD REFERENCE MATERIAL RECOVERY

SM18-22 5210B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39266
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous
Spike ID: 17I0355
Batch: 1715906
Laboratory ID: 1715906-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	35.0	77	67 - 133

* Values outside of QC limits

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

SM18-22 5210B

Laboratory: Eurofins Spectrum Analytical, Inc. - MA **SDG:** SC39266

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

Analyte	MDL	MRL	Units
Biochemical Oxygen Demand (5-day)	2.74	3.00	mg/l

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

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Sequence:	S708601	Instrument:	DO Meter
		Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analyzed
Blank	1715906-BLK1		09/27/17 16:04
LCS	1715906-BS1		09/27/17 16:04
Reference	1715906-SRM1		09/27/17 16:04
TF1-GT-136B-091417	SC39266-01		09/27/17 16:04
TF1-GT-136B-091417	1715906-MS1		09/27/17 16:04
TF1-GT-136B-091417	1715906-MSD1		09/27/17 16:04
Grab-WILLH-091417	SC39266-02		09/27/17 16:04
Reference	1715906-SRM2		09/27/17 16:04
Blank	1715906-BLK2		09/27/17 16:04

SM2320B (97, 11)

CROSS REFERENCE TABLE

SM2320B (97, 11)

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
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-136B-091417	SC39266-01
Grab-WILLH-091417	SC39266-02

FORM III - BLANKS

SM2320B (97, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39266
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
1716298-BLK1	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)
1716298-BLK2	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)
1716298-BLK3	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)
1716298-BLK4	Total Alkalinity	BRL	4.00	mg/l CaCO3	U	SM2320B (97, 11)

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

TF1-GT-136B-091417

SM2320B (97, 11)

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	Titrator
Batch:	1716298	Laboratory ID:	1716298-MS1
Preparation:	General Preparation	Initial/Final:	100 ml / 50 ml
Source Sample Name:	TF1-GT-136B-091417	% Solids:	
		Spike ID:	17H0352
		File ID:	DTOOL Alk 2017-09-26 1457-006

COMPOUND	SPIKE ADDED (mg/l	SAMPLE CONCENTRATION (mg/l CaCO3)	MS CONCENTRATION (mg/l CaCO3)	MS % REC. #	QC LIMITS REC.
Total Alkalinity	25.0	44.4	72.9	114	80 - 120

File ID: DTOOL Alk 2017-09-26 1457-007

COMPOUND	SPIKE ADDED (mg/l	MSD CONCENTRATION (mg/l CaCO3)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Total Alkalinity	25.0	72.1	111	1	20	80 - 120

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

* Values outside of QC limits

FORM IIIc - DUPLICATES

TF1-GT-136B-091417

SM2320B (97, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
Client: Tetra Tech, Inc. - Salem, NH
Matrix: Aqueous
Batch: 1716298
Preparation: General Preparation
Source Sample Name: TF1-GT-136B-091417

SDG: SC39266
Project: WE15 Tank Farm 1 NAVSTA Newport
Laboratory ID: 1716298-DUP1
Lab Source ID: SC39266-01
Initial/Final: 100 ml / 50 ml
% Solids:
File ID: DTOOL Alk 2017-09-26 1457-005

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/l CaCO3)	C	DUPLICATE CONCENTRATION (mg/l CaCO3)	C	RPD %	Q	METHOD
Total Alkalinity	20	44.4		45.5		2		SM2320B (97, 11)

* Values outside of QC limits

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

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SM2320B (97, 11)

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	Titrator
Batch:	1716298	Laboratory ID:	1716298-BS1
Preparation:	General Preparation	Initial/Final:	50 ml / 50 ml
Analyzed:	09/26/17 14:59	Spike ID:	17H0352
		File ID:	DTOOL Alk 2017-09-26 1457-002

COMPOUND	SPIKE ADDED (mg/l CaCO3)	LCS CONCENTRATION (mg/l CaCO3)	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	53.7	107	90 - 110

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

* Values outside of QC limits

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

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SM2320B (97, 11)

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	Titrator
Batch:	1716298	Laboratory ID:	1716298-BS2
Preparation:	General Preparation	Initial/Final:	50 ml / 50 ml
Analyzed:	09/26/17 15:50	Spike ID:	17H0352
		File ID:	DTOOL Alk 2017-09-26 1457-012

COMPOUND	SPIKE ADDED (mg/l CaCO3)	LCS CONCENTRATION (mg/l CaCO3)	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	50.9	102	90 - 110

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

* Values outside of QC limits

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

FORM IIIa - LCS / LCS DUPLICATE RECOVERY

SM2320B (97, 11)

Laboratory:	Eurofins Spectrum Analytical, Inc. - MA	SDG:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	Titrator
Batch:	1716298	Laboratory ID:	1716298-BS3
Preparation:	General Preparation	Initial/Final:	50 ml / 50 ml
Analyzed:	09/26/17 17:17	Spike ID:	17H0352
		File ID:	DTOOL Alk 2017-09-26 1457-024

COMPOUND	SPIKE ADDED (mg/l CaCO3)	LCS CONCENTRATION (mg/l CaCO3)	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	51.5	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:	SC39266
Client:	Tetra Tech, Inc. - Salem, NH	Project:	WE15 Tank Farm 1 NAVSTA Newport
Matrix:	Aqueous	Instrument:	Titrator
Batch:	1716298	Laboratory ID:	1716298-BS4
Preparation:	General Preparation	Initial/Final:	50 ml / 50 ml
Analyzed:	09/26/17 18:00	Spike ID:	17H0352
		File ID:	DTOOL Alk 2017-09-26 1457-032

COMPOUND	SPIKE ADDED (mg/l CaCO3)	LCS CONCENTRATION (mg/l CaCO3)	LCS % REC. #	QC LIMITS REC.
Total Alkalinity	50.0	50.3	101	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: SC39266
Client: Tetra Tech, Inc. - Salem, NH
Project: WE15 Tank Farm 1 NAVSTA Newport
Matrix: Aqueous
Spike ID: 17H0359
Batch: 1716298
Laboratory ID: 1716298-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

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

SM2320B (97, 11)

Laboratory: Eurofins Spectrum Analytical, Inc. - MA

SDG: SC39266

Client: Tetra Tech, Inc. - Salem, NH

Project: WE15 Tank Farm 1 NAVSTA Newport

Analyte	MDL	MRL	Units
Total Alkalinity	1.05	4.00	mg/l CaCO3

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

Laboratory: Eurofins Spectrum Analytical, Inc. - MA
SDG: SC39266
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	1716298-BLK1	TOOL Alk 2017-09-26 1457-00	09/26/17 14:57
LCS	1716298-BS1	TOOL Alk 2017-09-26 1457-00	09/26/17 14:59
Reference	1716298-SRM1	TOOL Alk 2017-09-26 1457-00	09/26/17 15:04
TF1-GT-136B-091417	1716298-DUP1	TOOL Alk 2017-09-26 1457-00	09/26/17 15:12
TF1-GT-136B-091417	1716298-MS1	TOOL Alk 2017-09-26 1457-00	09/26/17 15:17
TF1-GT-136B-091417	1716298-MSD1	TOOL Alk 2017-09-26 1457-00	09/26/17 15:23
Blank	1716298-BLK2	TOOL Alk 2017-09-26 1457-0	09/26/17 15:49
LCS	1716298-BS2	TOOL Alk 2017-09-26 1457-0	09/26/17 15:50
Blank	1716298-BLK3	TOOL Alk 2017-09-26 1457-02	09/26/17 17:15
LCS	1716298-BS3	TOOL Alk 2017-09-26 1457-02	09/26/17 17:17
Blank	1716298-BLK4	TOOL Alk 2017-09-26 1457-03	09/26/17 17:58
LCS	1716298-BS4	TOOL Alk 2017-09-26 1457-03	09/26/17 18:00

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	SC39266							N6247016D9008	WE15	TETRA TECH, INC.	TF1-FRB-091417	Water for QC samples	Field Reagent Blank	14-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC39266	SITE 00007	SITE 00007	TF1-EBP-SW-WILLH	Surface water body - nonspecific	387764.06	184423.25	N6247016D9008	WE15	TETRA TECH, INC.	Grab-WILLH-091417	Surface water	Normal (Regular)	14-Sep-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	SC39266	SITE 00007	SITE 00007	TF1-GT-136B	Monitoring well	388259.23	185239.85	N6247016D9008	WE15	TETRA TECH, INC.	TF1-GT-136B-091417	Ground water	Normal (Regular)	14-Sep-17	537	Perfluoroalkyl Compounds