



**Groundwater Sample Results,
Electronic Data Deliverable, Data Validation Report,
and the Sample Location Report, SDG TK1925**

*Naval Station Newport
Newport, Rhode Island*

August 2019

"LCSWKL20IMW1","6020A","RES","LCSWKL20IMW1","KAS","7440-38-2","ARSENIC","99.4","ug/L","",,"2.3","MDL","","SPK","99.4","","5.0","PQL","YES","100","LCSWKL20IMW1","",,"4.0",""

"LCSWKL20IMW1","6020A","RES","LCSWKL20IMW1","KAS","7440-43-9","CADMIUM","248","ug/L","",,"0.030","MDL","","SPK","99.2","","1.0","PQL","YES","250","LCSWKL20IMW1","",,"0.20",""

"LCSWKL20IMW1","6020A","RES","LCSWKL20IMW1","KAS","7439-92-1","LEAD","98.6","ug/L","",,"0.074","MDL","","SPK","98.6","","1.0","PQL","YES","100","LCSWKL20IMW1","",,"0.50",""

"LCSWKL20IMW1","6020A","RES","LCSWKL20IMW1","KAS","7439-96-5","MANGANESE","500","ug/L","",,"0.35","MDL","","SPK","100.0","","2.0","PQL","YES","500","LCSWKL20IMW1","",,"1.0",""

"PBWKL20IMW1","6020A","RES","PBWKL20IMW1","KAS","7440-38-2","ARSENIC","4.0","ug/L","U","2.3","MDL","","TRG","",,"5.0","PQL","YES","0","PBWKL20IMW1","",,"4.0",""

"PBWKL20IMW1","6020A","RES","PBWKL20IMW1","KAS","7440-43-9","CADMIUM","0.20","ug/L","U","0.030","MDL","","TRG","",,"1.0","PQL","YES","0","PBWKL20IMW1","",,"0.20",""

"PBWKL20IMW1","6020A","RES","PBWKL20IMW1","KAS","7439-92-1","LEAD","0.50","ug/L","U","0.074","MDL","","TRG","",,"1.0","PQL","YES","0","PBWKL20IMW1","",,"0.50",""

"PBWKL20IMW1","6020A","RES","PBWKL20IMW1","KAS","7439-96-5","MANGANESE","1.0","ug/L","U","0.35","MDL","","TRG","",,"2.0","PQL","YES","0","PBWKL20IMW1","",,"1.0",""

"G32-MW306BR-121817","6020A","RES","TK1925-001","KAS","7440-38-2","ARSENIC","4.0","ug/L","U","2.3","MDL","","TRG","",,"5.0","PQL","YES","0","G32-MW306BR-121817","",,"4.0",""

"G32-MW306BR-121817","6020A","RES","TK1925-001","KAS","7440-43-9","CADMIUM","0.20","ug/L","U","0.029","MDL","","TRG","",,"1.0","PQL","YES","0","G32-MW306BR-121817","",,"0.20",""

"G32-MW306BR-121817","6020A","RES","TK1925-001","KAS","7439-92-1","LEAD","0.61","ug/L","J","0.075","MDL","","TRG","",,"1.0","PQL","YES","0","G32-MW306BR-121817","",,"0.50",""

"G32-MW306BR-121817","6020A","RES","TK1925-001","KAS","7439-96-5","MANGANESE","140","ug/L","",,"0.35","MDL","","TRG","",,"2.0","PQL","YES","0","G32-MW306BR-121817","",,"1.0",""

"G32-MW306BR-121817","6020A","RES","TK1925-002","KAS","7440-38-2","ARSENIC","4.0","ug/L","U","2.3","MDL","","TRG","",,"5.0","PQL","YES","0","G32-MW306BR-121817","",,"4.0",""

"G32-MW306BR-121817","6020A","RES","TK1925-002","KAS","7440-43-9","CADMIUM","0.20","ug/L","U","0.029","MDL","","TRG","",,"1.0","PQL","YES","0","G32-MW306BR-121817","",,"0.20",""

"G32-MW306BR-121817","6020A","RES","TK1925-002","KAS","7439-92-1","LEAD","0.12","ug/L","J","0.075","MDL","","TRG","",,"1.0","PQL","YES","0","G32-MW306BR-121817","",,"0.50",""

"G32-MW306BR-121817","6020A","RES","TK1925-002","KAS","7439-96-5","MANGANESE","37.8","ug/L","",,"0.35","MDL","","TRG","",,"2.0","PQL","YES","0","G32-MW306BR-121817","",,"1.0",""

"DUP-121817","6020A","RES","TK1925-003","KAS","7440-38-2","ARSENIC","4.0","ug/L","U","2.3","MDL","","TRG","",,"5.0","PQL","YES","0","DUP-121817","",,"4.0",""

"DUP-121817","6020A","RES","TK1925-003","KAS","7440-43-9","CADMIUM","0.20","ug/L","U","0.029","MDL","","TRG","",,"1.0","PQL","YES","0","DUP-121817","",,"0.20",""

"DUP-121817","6020A","RES","TK1925-003","KAS","7439-92-1","LEAD","0.50","ug/L","U","0.075","MDL","","TRG","","","1.0","PQL","YES","0","DUP-121817","","","0.50",""
"DUP-121817","6020A","RES","TK1925-003","KAS","7439-96-5","MANGANESE","235","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","DUP-121817","","","1.0",""
"DUP-121817","6020A","RES","TK1925-004","KAS","7440-38-2","ARSENIC","4.0","ug/L","U","2.3","MDL","","TRG","","","5.0","PQL","YES","0","DUP-121817","","","4.0",""
"DUP-121817","6020A","RES","TK1925-004","KAS","7440-43-9","CADMIUM","0.20","ug/L","U","0.029","MDL","","TRG","","","1.0","PQL","YES","0","DUP-121817","","","0.20",""
"DUP-121817","6020A","RES","TK1925-004","KAS","7439-92-1","LEAD","0.50","ug/L","U","0.075","MDL","","TRG","","","1.0","PQL","YES","0","DUP-121817","","","0.50",""
"DUP-121817","6020A","RES","TK1925-004","KAS","7439-96-5","MANGANESE","235","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","DUP-121817","","","1.0",""
"GI-MW400-121817","6020A","RES","TK1925-006","KAS","7440-38-2","ARSENIC","4.0","ug/L","U","2.3","MDL","","TRG","","","5.0","PQL","YES","0","GI-MW400-121817","","","4.0",""
"GI-MW400-121817","6020A","RES","TK1925-006","KAS","7440-43-9","CADMIUM","0.20","ug/L","U","0.029","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW400-121817","","","0.20",""
"GI-MW400-121817","6020A","RES","TK1925-006","KAS","7439-92-1","LEAD","0.089","ug/L","J","0.075","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW400-121817","","","0.50",""
"GI-MW400-121817","6020A","RES","TK1925-006","KAS","7439-96-5","MANGANESE","229","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","GI-MW400-121817","","","1.0",""
"GI-MW400-121817","6020A","RES","TK1925-007","KAS","7440-38-2","ARSENIC","4.0","ug/L","U","2.3","MDL","","TRG","","","5.0","PQL","YES","0","GI-MW400-121817","","","4.0",""
"GI-MW400-121817","6020A","RES","TK1925-007","KAS","7440-43-9","CADMIUM","0.031","ug/L","J","0.029","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW400-121817","","","0.20",""
"GI-MW400-121817","6020A","RES","TK1925-007","KAS","7439-92-1","LEAD","0.50","ug/L","U","0.075","MDL","","TRG","","","1.0","PQL","YES","0","GI-MW400-121817","","","0.50",""
"GI-MW400-121817","6020A","RES","TK1925-007","KAS","7439-96-5","MANGANESE","235","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","GI-MW400-121817","","","1.0",""
"G44S-MW202RR-121817","6020A","RES","TK1925-008","KAS","7440-38-2","ARSENIC","4.9","ug/L","J","2.3","MDL","","TRG","","","5.0","PQL","YES","0","G44S-MW202RR-121817","","","4.0",""
"G44S-MW202RR-121817","6020A","RES","TK1925-008","KAS","7440-43-9","CADMIUM","0.20","ug/L","U","0.029","MDL","","TRG","","","1.0","PQL","YES","0","G44S-MW202RR-121817","","","0.20",""
"G44S-MW202RR-121817","6020A","RES","TK1925-008","KAS","7439-92-1","LEAD","1.53","ug/L","","0.075","MDL","","TRG","","","1.0","PQL","YES","0","G44S-MW202RR-121817","","","0.50",""
"G44S-MW202RR-121817","6020A","RES","TK1925-008","KAS","7439-96-5","MANGANESE","2910","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","G44S-MW202RR-121817","","","1.0",""
"G44S-MW202RR-121817","6020A","RES","TK1925-009","KAS","7440-38-2","ARSENIC","6.6","ug/L","","2.3","MDL","","TRG","","","5.0","PQL","YES","0","G44S-MW202RR-121817","","","4.0",""

"G44S-MW202RR-121817","6020A","RES","TK1925-009","KAS","7440-43-9","CADMIUM","0.20","ug/L","U","0.029","MDL","","TRG","","","1.0","PQL","YES","0","G44S-MW202RR-121817","","","0.20", ""

"G44S-MW202RR-121817","6020A","RES","TK1925-009","KAS","7439-92-1","LEAD","0.50","ug/L","U","0.075","MDL","","TRG","","","1.0","PQL","YES","0","G44S-MW202RR-121817","","","0.50", ""

"G44S-MW202RR-121817","6020A","RES","TK1925-009","KAS","7439-96-5","MANGANESE","2960","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","G44S-MW202RR-121817","","","1.0", ""

"G32-MW304SR-121817","6020A","RES","TK1925-010","KAS","7440-38-2","ARSENIC","4.0","ug/L","U","2.3","MDL","","TRG","","","5.0","PQL","YES","0","G32-MW304SR-121817","","","4.0", ""

"G32-MW304SR-121817","6020A","RES","TK1925-010","KAS","7440-43-9","CADMIUM","0.079","ug/L","J","0.029","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW304SR-121817","","","0.20", ""

"G32-MW304SR-121817","6020A","RES","TK1925-010","KAS","7439-92-1","LEAD","0.084","ug/L","J","0.075","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW304SR-121817","","","0.50", ""

"G32-MW304SR-121817","6020A","RES","TK1925-010","KAS","7439-96-5","MANGANESE","1950","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","G32-MW304SR-121817","","","1.0", ""

"G32-MW304SR-121817","6020A","RES","TK1925-011","KAS","7440-38-2","ARSENIC","4.0","ug/L","U","2.3","MDL","","TRG","","","5.0","PQL","YES","0","G32-MW304SR-121817","","","4.0", ""

"G32-MW304SR-121817","6020A","RES","TK1925-011","KAS","7440-43-9","CADMIUM","0.053","ug/L","J","0.029","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW304SR-121817","","","0.20", ""

"G32-MW304SR-121817","6020A","RES","TK1925-011","KAS","7439-92-1","LEAD","0.28","ug/L","J","0.075","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW304SR-121817","","","0.50", ""

"G32-MW304SR-121817","6020A","RES","TK1925-011","KAS","7439-96-5","MANGANESE","1720","ug/L","","0.35","MDL","","TRG","","","2.0","PQL","YES","0","G32-MW304SR-121817","","","1.0", ""

"G32-MW306BR-121817","2320B","RES","TK1925-1","KAS","11-43-8","ALKALINITY AS CaCO3","75","mg/L","","0.23","MDL","","TRG","","","5.0","PQL","YES","0","G32-MW306BR-121817","","","4.0", ""

"G32-MW306BR-121817","300.0","RES","TK1925-1","KAS","14797-55-8","NITRATE AS N","0.042","mg/L","J",".0174","MDL","","TRG","","","0.050","PQL","YES","0.845","G32-MW306BR-121817","","","0.025", ""

"G32-MW306BR-121817","300.0","RES","TK1925-1","KAS","14808-79-8","SULFATE","16","mg/L","","0.064","MDL","","TRG","","","1.0","PQL","YES","3.75","G32-MW306BR-121817","","","0.50", ""

"G32-MW306BR-121817","8082A","RES","TK1925-1","KAS","877-09-8","2,4,5,6-Tetrachloro-meta-xylene","97.2","%","","0","MDL","","SURR","97.2","","0","PQL","YES","0.943","G32-MW306BR-121817","","","0", ""

"G32-MW306BR-121817","8082A","RES","TK1925-1","KAS","12674-11-2","AROCLOR 1016","0.24","ug/L","U","0.15","MDL","","TRG","","","0.47","PQL","YES","0","G32-MW306BR-121817","","","0.24", ""

"G32-MW306BR-121817","8082A","RES","TK1925-1","KAS","11104-28-2","AROCLOR 1221","0.24","ug/L","U","0.2","MDL","","TRG","","","0.47","PQL","YES","0","G32-MW306BR-121817","","","0.24", ""

"G32-MW306BR-121817","8082A","RES","TK1925-1","KAS","11141-16-5","AROCLOR 1232","0.24","ug/L","U","0.089","MDL","","TRG","","","0.47","PQL","YES","0","G32-MW306BR-121817","","","0.24", ""

"G32-MW306BR-121817","8082A","RES","TK1925-1","KAS","53469-21-9","AROCLOR
1242","0.24","ug/L","U","0.18","MDL","","TRG","","","0.47","PQL","YES","0","G32-MW306BR-
121817","","","0.24",""
"G32-MW306BR-121817","8082A","RES","TK1925-1","KAS","12672-29-6","AROCLOR
1248","0.24","ug/L","U","0.2","MDL","","TRG","","","0.47","PQL","YES","0","G32-MW306BR-
121817","","","0.24",""
"G32-MW306BR-121817","8082A","RES","TK1925-1","KAS","11097-69-1","AROCLOR
1254","0.24","ug/L","U","0.082","MDL","","TRG","","","0.47","PQL","YES","0","G32-MW306BR-
121817","","","0.24",""
"G32-MW306BR-121817","8082A","RES","TK1925-1","KAS","11096-82-5","AROCLOR
1260","0.24","ug/L","U","0.17","MDL","","TRG","","","0.47","PQL","YES","0","G32-MW306BR-
121817","","","0.24",""
"G32-MW306BR-121817","8082A","RES","TK1925-1","KAS","37324-23-5","Aroclor-1262
","0.24","ug/L","U","0.066","MDL","","TRG","","","0.47","PQL","YES","0","G32-MW306BR-121817","","","0.24",""
"G32-MW306BR-121817","8082A","RES","TK1925-1","KAS","11100-14-4","Aroclor-1268
","0.24","ug/L","U","0.072","MDL","","TRG","","","0.47","PQL","YES","0","G32-MW306BR-121817","","","0.24",""
"G32-MW306BR-121817","8082A","RES","TK1925-1","KAS","2051-24-
3","DECACHLOROBIPHENYL","74.5","%","","0","MDL","","SURR","74.5","","0","PQL","YES","0.943","G32-
MW306BR-121817","","","0",""
"G32-MW306BR-121817","8082A","RES","TK1925-1","KAS","1336-36-3","TOTAL
PCB","2.1","ug/L","U","0.062","MDL","","TRG","","","4.2","PQL","YES","0","G32-MW306BR-
121817","","","2.1",""
"G32-MW306BR-121817","8260C","RES","TK1925-1","KAS","17060-07-0","1,2-DICHLOROETHANE-
D4","108.","%","","0","MDL","","SURR","108.","%","0","PQL","YES","50.0","G32-MW306BR-121817","","","0",""
"G32-MW306BR-121817","8260C","RES","TK1925-1","KAS","540-59-0","1,2-
DICHLOROETHYLENE","2.0","ug/L","U","0.21","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW306BR-
121817","","","2.0",""
"G32-MW306BR-121817","8260C","RES","TK1925-1","KAS","460-00-4","4-
BROMOFLUOROBENZENE","99.9","%","","0","MDL","","SURR","99.9","","0","PQL","YES","50.0","G32-
MW306BR-121817","","","0",""
"G32-MW306BR-121817","8260C","RES","TK1925-1","KAS","71-43-
2","BENZENE","0.50","ug/L","U","0.26","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW306BR-
121817","","","0.50",""
"G32-MW306BR-121817","8260C","RES","TK1925-1","KAS","156-59-2","CIS-1,2-
DICHLOROETHENE","1.0","ug/L","U","0.21","MDL","","TRG","","","0.50","PQL","YES","0","G32-MW306BR-
121817","","","1.0",""
"G32-MW306BR-121817","8260C","RES","TK1925-1","KAS","1868-53-
7","DIBROMOFLUOROMETHANE","102.","%","","0","MDL","","SURR","102.","%","0","PQL","YES","50.0","G32-
MW306BR-121817","","","0",""
"G32-MW306BR-121817","8260C","RES","TK1925-1","KAS","127-18-
4","TETRACHLOROETHENE","0.50","ug/L","U","0.40","MDL","","TRG","","","1.0","PQL","YES","0","G32-
MW306BR-121817","","","0.50",""
"G32-MW306BR-121817","8260C","RES","TK1925-1","KAS","2037-26-5","TOLUENE-
D8","101.","%","","0","MDL","","SURR","101.","%","0","PQL","YES","50.0","G32-MW306BR-121817","","","0",""
"G32-MW306BR-121817","8260C","RES","TK1925-1","KAS","156-60-5","TRANS-1,2-
DICHLOROETHENE","1.0","ug/L","U","0.25","MDL","","TRG","","","0.50","PQL","YES","0","G32-MW306BR-
121817","","","1.0",""
"G32-MW306BR-121817","8260C","RES","TK1925-1","KAS","79-01-
6","TRICHLOROETHENE","0.50","ug/L","U","0.28","MDL","","TRG","","","1.0","PQL","YES","0","G32-
MW306BR-121817","","","0.50",""
"G32-MW306BR-121817","8260C","RES","TK1925-1","KAS","75-01-4","VINYL
CHLORIDE","2.0","ug/L","U","0.25","MDL","","TRG","","","1.0","PQL","YES","0","G32-MW306BR-
121817","","","2.0",""
"G32-MW306BR-121817","8270D-SIM","RES","TK1925-1","KAS","615-58-7","2,4-Dibromophenol

","26.5","%","","0","MDL","","SURR","26.5","","0","PQL","YES","4.00","G32-MW306BR-121817","","","0",""
"G32-MW306BR-121817","8270D-SIM","RES","TK1925-1","KAS","91-57-6","2-
METHYLNAPHTHALENE","0.094","ug/L","U","0.073","MDL","","TRG","","","0.19","PQL","YES","0","G32-
MW306BR-121817","","","0.094",""
"G32-MW306BR-121817","8270D-SIM","RES","TK1925-1","KAS","7297-45-2","2-Methylnaphthalene-
d10","77.2","%","","0","MDL","","SURR","77.2","","0","PQL","YES","2.00","G32-MW306BR-121817","","","0",""
"G32-MW306BR-121817","8270D-SIM","RES","TK1925-1","KAS","56-55-
3","BENZO(A)ANTHRACENE","0.12","ug/L","J","0.043","MDL","","TRG","","","0.19","PQL","YES","0","G32-
MW306BR-121817","","","0.094",""
"G32-MW306BR-121817","8270D-SIM","RES","TK1925-1","KAS","50-32-
8","BENZO(A)PYRENE","0.084","ug/L","J","0.062","MDL","","TRG","","","0.19","PQL","YES","0","G32-
MW306BR-121817","","","0.094",""
"G32-MW306BR-121817","8270D-SIM","RES","TK1925-1","KAS","205-99-
2","BENZO(B)FLUORANTHENE","0.11","ug/L","J","0.084","MDL","","TRG","","","0.19","PQL","YES","0","G32-
MW306BR-121817","","","0.094",""
"G32-MW306BR-121817","8270D-SIM","RES","TK1925-1","KAS","191-24-
2","BENZO(G,H,I)PERYLENE","0.094","ug/L","U","0.061","MDL","","TRG","","","0.19","PQL","YES","0","G32-
MW306BR-121817","","","0.094",""
"G32-MW306BR-121817","8270D-SIM","RES","TK1925-1","KAS","207-08-
9","BENZO(K)FLUORANTHENE","0.094","ug/L","U","0.046","MDL","","TRG","","","0.19","PQL","YES","0","G32-
-MW306BR-121817","","","0.094",""
"G32-MW306BR-121817","8270D-SIM","RES","TK1925-1","KAS","218-01-
9","CHRYSENE","0.094","ug/L","U","0.034","MDL","","TRG","","","0.19","PQL","YES","0","G32-MW306BR-
121817","","","0.094",""
"G32-MW306BR-121817","8270D-SIM","RES","TK1925-1","KAS","53-70-
3","DIBENZO(A,H)ANTHRACENE","0.094","ug/L","U","0.066","MDL","","TRG","","","0.19","PQL","YES","0","G
32-MW306BR-121817","","","0.094",""
"G32-MW306BR-121817","8270D-SIM","RES","TK1925-1","KAS","206-44-
0","FLUORANTHENE","0.094","ug/L","U","0.069","MDL","","TRG","","","0.19","PQL","YES","0","G32-
MW306BR-121817","","","0.094",""
"G32-MW306BR-121817","8270D-SIM","RES","TK1925-1","KAS","81103-79-9","Fluorene-
d10","82.2","%","","0","MDL","","SURR","82.2","","0","PQL","YES","2.00","G32-MW306BR-121817","","","0",""
"G32-MW306BR-121817","8270D-SIM","RES","TK1925-1","KAS","193-39-5","INDENO(1,2,3-
CD)PYRENE","0.094","ug/L","U","0.049","MDL","","TRG","","","0.19","PQL","YES","0","G32-MW306BR-
121817","","","0.094",""
"G32-MW306BR-121817","8270D-SIM","RES","TK1925-1","KAS","91-20-
3","NAPHTHALENE","0.094","ug/L","U","0.060","MDL","","TRG","","","0.19","PQL","YES","0","G32-MW306BR-
121817","","","0.094",""
"G32-MW306BR-121817","8270D-SIM","RES","TK1925-1","KAS","87-86-
5","PENTACHLOROPHENOL","0.47","ug/L","U","0.31","MDL","","TRG","","","0.94","PQL","YES","0","G32-
MW306BR-121817","","","0.47",""
"G32-MW306BR-121817","8270D-SIM","RES","TK1925-1","KAS","85-01-
8","PHENANTHRENE","0.094","ug/L","U","0.048","MDL","","TRG","","","0.19","PQL","YES","0","G32-
MW306BR-121817","","","0.094",""
"G32-MW306BR-121817","8270D-SIM","RES","TK1925-1","KAS","129-00-
0","PYRENE","0.094","ug/L","U","0.056","MDL","","TRG","","","0.19","PQL","YES","0","G32-MW306BR-
121817","","","0.094",""
"G32-MW306BR-121817","8270D-SIM","RES","TK1925-1","KAS","1718-52-1","Pyrene-
d10","109."","%","","0","MDL","","SURR","109."","","0","PQL","YES","2.00","G32-MW306BR-121817","","","0",""
"G32-MW304SR-121817","2320B","RES","TK1925-10","KAS","11-43-8","ALKALINITY AS
CACO3","160","mg/L","","0.23","MDL","","TRG","","","5.0","PQL","YES","0","G32-MW304SR-
121817","","","4.0",""
"G32-MW304SR-121817","300.0","RES","TK1925-10","KAS","14797-55-8","NITRATE AS
N","1.3","mg/L","",".0174","MDL","","TRG","","","0.050","PQL","YES","0.845","G32-MW304SR-

121817", "", "", "0.025", ""
"G32-MW304SR-121817", "8082A", "RES", "TK1925-10", "KAS", "877-09-8", "2,4,5,6-Tetrachloro-meta-xylene", "73.8", "%", "", "0", "MDL", "", "SURR", "73.8", "", "0", "PQL", "YES", "0.952", "G32-MW304SR-121817", "", "", "0", ""
"G32-MW304SR-121817", "8082A", "RES", "TK1925-10", "KAS", "12674-11-2", "AROCLOR 1016", "0.24", "ug/L", "U", "0.14", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "G32-MW304SR-121817", "", "", "0.24", ""
"G32-MW304SR-121817", "8082A", "RES", "TK1925-10", "KAS", "11104-28-2", "AROCLOR 1221", "0.24", "ug/L", "U", "0.2", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "G32-MW304SR-121817", "", "", "0.24", ""
"G32-MW304SR-121817", "8082A", "RES", "TK1925-10", "KAS", "11141-16-5", "AROCLOR 1232", "0.24", "ug/L", "U", "0.088", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "G32-MW304SR-121817", "", "", "0.24", ""
"G32-MW304SR-121817", "8082A", "RES", "TK1925-10", "KAS", "53469-21-9", "AROCLOR 1242", "0.24", "ug/L", "U", "0.18", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "G32-MW304SR-121817", "", "", "0.24", ""
"G32-MW304SR-121817", "8082A", "RES", "TK1925-10", "KAS", "12672-29-6", "AROCLOR 1248", "0.24", "ug/L", "U", "0.2", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "G32-MW304SR-121817", "", "", "0.24", ""
"G32-MW304SR-121817", "8082A", "RES", "TK1925-10", "KAS", "11097-69-1", "AROCLOR 1254", "0.24", "ug/L", "U", "0.081", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "G32-MW304SR-121817", "", "", "0.24", ""
"G32-MW304SR-121817", "8082A", "RES", "TK1925-10", "KAS", "11096-82-5", "AROCLOR 1260", "0.24", "ug/L", "U", "0.17", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "G32-MW304SR-121817", "", "", "0.24", ""
"G32-MW304SR-121817", "8082A", "RES", "TK1925-10", "KAS", "37324-23-5", "Aroclor-1262", "0.24", "ug/L", "U", "0.066", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "G32-MW304SR-121817", "", "", "0.24", ""
"G32-MW304SR-121817", "8082A", "RES", "TK1925-10", "KAS", "11100-14-4", "Aroclor-1268", "0.24", "ug/L", "U", "0.071", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "G32-MW304SR-121817", "", "", "0.24", ""
"G32-MW304SR-121817", "8082A", "RES", "TK1925-10", "KAS", "2051-24-3", "DECACHLOROBIPHENYL", "80.6", "%", "", "0", "MDL", "", "SURR", "80.6", "", "0", "PQL", "YES", "0.952", "G32-MW304SR-121817", "", "", "0", ""
"G32-MW304SR-121817", "8082A", "RES", "TK1925-10", "KAS", "1336-36-3", "TOTAL PCB", "2.1", "ug/L", "U", "0.063", "MDL", "", "TRG", "", "", "4.3", "PQL", "YES", "0", "G32-MW304SR-121817", "", "", "2.1", ""
"G32-MW304SR-121817", "8260C", "RES", "TK1925-10", "KAS", "17060-07-0", "1,2-DICHLOROETHANE-D4", "110.", "%", "", "0", "MDL", "", "SURR", "110.", "", "0", "PQL", "YES", "50.0", "G32-MW304SR-121817", "", "", "0", ""
"G32-MW304SR-121817", "8260C", "RES", "TK1925-10", "KAS", "540-59-0", "1,2-DICHLOROETHYLENE", "2.2", "ug/L", "", "0.21", "MDL", "", "TRG", "", "", "1.0", "PQL", "YES", "0", "G32-MW304SR-121817", "", "", "2.0", ""
"G32-MW304SR-121817", "8260C", "RES", "TK1925-10", "KAS", "460-00-4", "4-BROMOFLUOROBENZENE", "106.", "%", "", "0", "MDL", "", "SURR", "106.", "", "0", "PQL", "YES", "50.0", "G32-MW304SR-121817", "", "", "0", ""
"G32-MW304SR-121817", "8260C", "RES", "TK1925-10", "KAS", "71-43-2", "BENZENE", "0.50", "ug/L", "U", "0.26", "MDL", "", "TRG", "", "", "1.0", "PQL", "YES", "0", "G32-MW304SR-121817", "", "", "0.50", ""
"G32-MW304SR-121817", "8260C", "RES", "TK1925-10", "KAS", "156-59-2", "CIS-1,2-DICHLOROETHENE", "2.2", "ug/L", "", "0.21", "MDL", "", "TRG", "", "", "0.50", "PQL", "YES", "0", "G32-MW304SR-121817", "", "", "1.0", ""
"G32-MW304SR-121817", "8260C", "RES", "TK1925-10", "KAS", "1868-53-7", "DIBROMOFLUOROMETHANE", "103.", "%", "", "0", "MDL", "", "SURR", "103.", "", "0", "PQL", "YES", "50.0", "G32-MW304SR-121817", "", "", "0", ""
"G32-MW304SR-121817", "8260C", "RES", "TK1925-10", "KAS", "127-18-4", "TETRACHLOROETHENE", "0.50", "ug/L", "U", "0.40", "MDL", "", "TRG", "", "", "1.0", "PQL", "YES", "0", "G32-

MW304SR-121817", "", "", "0.50", ""
"G32-MW304SR-121817", "8260C", "RES", "TK1925-10", "KAS", "2037-26-5", "TOLUENE-
D8", "99.2", "%", "", "0", "MDL", "", "SURR", "99.2", "", "0", "PQL", "YES", "50.0", "G32-MW304SR-121817", "", "", "0", ""
"G32-MW304SR-121817", "8260C", "RES", "TK1925-10", "KAS", "156-60-5", "TRANS-1,2-
DICHLOROETHENE", "1.0", "ug/L", "U", "0.25", "MDL", "", "TRG", "", "", "0.50", "PQL", "YES", "0", "G32-MW304SR-
121817", "", "", "1.0", ""
"G32-MW304SR-121817", "8260C", "RES", "TK1925-10", "KAS", "79-01-
6", "TRICHLOROETHENE", "1.8", "ug/L", "", "0.28", "MDL", "", "TRG", "", "", "1.0", "PQL", "YES", "0", "G32-MW304SR-
121817", "", "", "0.50", ""
"G32-MW304SR-121817", "8260C", "RES", "TK1925-10", "KAS", "75-01-4", "VINYL
CHLORIDE", "0.66", "ug/L", "J", "0.25", "MDL", "", "TRG", "", "", "1.0", "PQL", "YES", "0", "G32-MW304SR-
121817", "", "", "2.0", ""
"G32-MW304SR-121817", "8270D-SIM", "RES", "TK1925-10", "KAS", "615-58-7", "2,4-Dibromophenol
", "23.9", "%", "", "0", "MDL", "", "SURR", "23.9", "", "0", "PQL", "YES", "4.00", "G32-MW304SR-121817", "", "", "0", ""
"G32-MW304SR-121817", "8270D-SIM", "RES", "TK1925-10", "KAS", "91-57-6", "2-
METHYLNAPHTHALENE", "0.095", "ug/L", "U", "0.073", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "G32-
MW304SR-121817", "", "", "0.095", ""
"G32-MW304SR-121817", "8270D-SIM", "RES", "TK1925-10", "KAS", "7297-45-2", "2-Methylnaphthalene-
d10", "64.3", "%", "", "0", "MDL", "", "SURR", "64.3", "", "0", "PQL", "YES", "2.00", "G32-MW304SR-121817", "", "", "0", ""
"G32-MW304SR-121817", "8270D-SIM", "RES", "TK1925-10", "KAS", "56-55-
3", "BENZO(A)ANTHRACENE", "0.058", "ug/L", "J", "0.044", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "G32-
MW304SR-121817", "", "", "0.095", ""
"G32-MW304SR-121817", "8270D-SIM", "RES", "TK1925-10", "KAS", "50-32-
8", "BENZO(A)PYRENE", "0.095", "ug/L", "U", "0.063", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "G32-
MW304SR-121817", "", "", "0.095", ""
"G32-MW304SR-121817", "8270D-SIM", "RES", "TK1925-10", "KAS", "205-99-
2", "BENZO(B)FLUORANTHENE", "0.095", "ug/L", "U", "0.085", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "G32-
-MW304SR-121817", "", "", "0.095", ""
"G32-MW304SR-121817", "8270D-SIM", "RES", "TK1925-10", "KAS", "191-24-
2", "BENZO(G,H,I)PERYLENE", "0.095", "ug/L", "U", "0.062", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "G32-
MW304SR-121817", "", "", "0.095", ""
"G32-MW304SR-121817", "8270D-SIM", "RES", "TK1925-10", "KAS", "207-08-
9", "BENZO(K)FLUORANTHENE", "0.095", "ug/L", "U", "0.047", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "G32-
-MW304SR-121817", "", "", "0.095", ""
"G32-MW304SR-121817", "8270D-SIM", "RES", "TK1925-10", "KAS", "218-01-
9", "CHRYSENE", "0.095", "ug/L", "U", "0.034", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "G32-MW304SR-
121817", "", "", "0.095", ""
"G32-MW304SR-121817", "8270D-SIM", "RES", "TK1925-10", "KAS", "53-70-
3", "DIBENZO(A,H)ANTHRACENE", "0.095", "ug/L", "U", "0.067", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "G
32-MW304SR-121817", "", "", "0.095", ""
"G32-MW304SR-121817", "8270D-SIM", "RES", "TK1925-10", "KAS", "206-44-
0", "FLUORANTHENE", "0.095", "ug/L", "U", "0.070", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "G32-
MW304SR-121817", "", "", "0.095", ""
"G32-MW304SR-121817", "8270D-SIM", "RES", "TK1925-10", "KAS", "81103-79-9", "Fluorene-
d10", "63.8", "%", "", "0", "MDL", "", "SURR", "63.8", "", "0", "PQL", "YES", "2.00", "G32-MW304SR-121817", "", "", "0", ""
"G32-MW304SR-121817", "8270D-SIM", "RES", "TK1925-10", "KAS", "193-39-5", "INDENO(1,2,3-
CD)PYRENE", "0.095", "ug/L", "U", "0.050", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "G32-MW304SR-
121817", "", "", "0.095", ""
"G32-MW304SR-121817", "8270D-SIM", "RES", "TK1925-10", "KAS", "91-20-
3", "NAPHTHALENE", "0.095", "ug/L", "U", "0.061", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "G32-MW304SR-
121817", "", "", "0.095", ""
"G32-MW304SR-121817", "8270D-SIM", "RES", "TK1925-10", "KAS", "87-86-
5", "PENTACHLOROPHENOL", "0.48", "ug/L", "U", "0.31", "MDL", "", "TRG", "", "", "0.95", "PQL", "YES", "0", "G32-
MW304SR-121817", "", "", "0.48", ""

"G32-MW304SR-121817","8270D-SIM","RES","TK1925-10","KAS","85-01-8","PHENANTHRENE","0.095","ug/L","U","0.048","MDL","","TRG","","","0.19","PQL","YES","0","G32-MW304SR-121817","","","0.095",""

"G32-MW304SR-121817","8270D-SIM","RES","TK1925-10","KAS","129-00-0","PYRENE","0.095","ug/L","U","0.056","MDL","","TRG","","","0.19","PQL","YES","0","G32-MW304SR-121817","","","0.095",""

"G32-MW304SR-121817","8270D-SIM","RES","TK1925-10","KAS","1718-52-1","Pyrene-d10","93.8","%","","0","MDL","","SURR","93.8","","0","PQL","YES","2.00","G32-MW304SR-121817","","","0",""

"G32-MW304SR-121817","300.0","RES","TK1925-10DL","KAS","14808-79-8","SULFATE","26","mg/L","","0.13","MDL","","TRG","","","2.0","PQL","YES","3.75","G32-MW304SR-121817","","","1.0",""

"G32-MW304SR-121817","300.0","RES","TK1925-10DLB","KAS","16887-00-6","CHLORIDE","58","mg/L","","0.99","MDL","","TRG","","","20","PQL","YES","3.75","G32-MW304SR-121817","","","10.0",""

"G32-MW306BR-121817","300.0","RES","TK1925-1DL","KAS","16887-00-6","CHLORIDE","190","mg/L","","2.0","MDL","","TRG","","","40","PQL","YES","3.75","G32-MW306BR-121817","","","20.0",""

"DUP-121817","2320B","RES","TK1925-3","KAS","11-43-8","ALKALINITY AS CaCO3","360","mg/L","","0.23","MDL","","TRG","","","5.0","PQL","YES","0","DUP-121817","","","4.0",""

"DUP-121817","8082A","RES","TK1925-3","KAS","877-09-8","2,4,5,6-Tetrachloro-meta-xylene","98.8","%","","0","MDL","","SURR","98.8","","0","PQL","YES","0.962","DUP-121817","","","0",""

"DUP-121817","8082A","RES","TK1925-3","KAS","12674-11-2","AROCLOR 1016","0.24","ug/L","U","0.14","MDL","","TRG","","","0.48","PQL","YES","0","DUP-121817","","","0.24",""

"DUP-121817","8082A","RES","TK1925-3","KAS","11104-28-2","AROCLOR 1221","0.24","ug/L","U","0.2","MDL","","TRG","","","0.48","PQL","YES","0","DUP-121817","","","0.24",""

"DUP-121817","8082A","RES","TK1925-3","KAS","11141-16-5","AROCLOR 1232","0.24","ug/L","U","0.09","MDL","","TRG","","","0.48","PQL","YES","0","DUP-121817","","","0.24",""

"DUP-121817","8082A","RES","TK1925-3","KAS","53469-21-9","AROCLOR 1242","0.24","ug/L","U","0.18","MDL","","TRG","","","0.48","PQL","YES","0","DUP-121817","","","0.24",""

"DUP-121817","8082A","RES","TK1925-3","KAS","12672-29-6","AROCLOR 1248","0.24","ug/L","U","0.2","MDL","","TRG","","","0.48","PQL","YES","0","DUP-121817","","","0.24",""

"DUP-121817","8082A","RES","TK1925-3","KAS","11097-69-1","AROCLOR 1254","0.24","ug/L","U","0.082","MDL","","TRG","","","0.48","PQL","YES","0","DUP-121817","","","0.24",""

"DUP-121817","8082A","RES","TK1925-3","KAS","11096-82-5","AROCLOR 1260","0.24","ug/L","U","0.17","MDL","","TRG","","","0.48","PQL","YES","0","DUP-121817","","","0.24",""

"DUP-121817","8082A","RES","TK1925-3","KAS","37324-23-5","Aroclor-1262","0.24","ug/L","U","0.066","MDL","","TRG","","","0.48","PQL","YES","0","DUP-121817","","","0.24",""

"DUP-121817","8082A","RES","TK1925-3","KAS","11100-14-4","Aroclor-1268","0.24","ug/L","U","0.072","MDL","","TRG","","","0.48","PQL","YES","0","DUP-121817","","","0.24",""

"DUP-121817","8082A","RES","TK1925-3","KAS","2051-24-3","DECACHLOROBIPHENYL","105.0","%","","0","MDL","","SURR","105.0","","0","PQL","YES","0.962","DUP-121817","","","0",""

"DUP-121817","8082A","RES","TK1925-3","KAS","1336-36-3","TOTAL PCB","2.2","ug/L","U","0.063","MDL","","TRG","","","4.3","PQL","YES","0","DUP-121817","","","2.2",""

"DUP-121817","8260C","RES","TK1925-3","KAS","17060-07-0","1,2-DICHLOROETHANE-D4","109.0","%","","0","MDL","","SURR","109.0","","0","PQL","YES","50.0","DUP-121817","","","0",""

"DUP-121817","8260C","RES","TK1925-3","KAS","540-59-0","1,2-DICHLOROETHYLENE","2.0","ug/L","U","0.21","MDL","","TRG","","","1.0","PQL","YES","0","DUP-121817","","","2.0",""

"DUP-121817","8260C","RES","TK1925-3","KAS","460-00-4","4-BROMOFLUOROBENZENE","99.9","%","","0","MDL","","SURR","99.9","","0","PQL","YES","50.0","DUP-121817","","","0",""

"DUP-121817","8260C","RES","TK1925-3","KAS","71-43-2","BENZENE","0.50","ug/L","U","0.26","MDL","","TRG","","","1.0","PQL","YES","0","DUP-

121817", "", "", "0.50", ""
"DUP-121817", "8260C", "RES", "TK1925-3", "KAS", "156-59-2", "CIS-1,2-DICHLOROETHENE", "1.0", "ug/L", "U", "0.21", "MDL", "", "TRG", "", "", "0.50", "PQL", "YES", "0", "DUP-121817", "", "", "1.0", ""
"DUP-121817", "8260C", "RES", "TK1925-3", "KAS", "1868-53-7", "DIBROMOFLUOROMETHANE", "100.", "%", "", "0", "MDL", "", "SURR", "100.", "", "0", "PQL", "YES", "50.0", "DUP-121817", "", "", "0", ""
"DUP-121817", "8260C", "RES", "TK1925-3", "KAS", "127-18-4", "TETRACHLOROETHENE", "0.50", "ug/L", "U", "0.40", "MDL", "", "TRG", "", "", "1.0", "PQL", "YES", "0", "DUP-121817", "", "", "0.50", ""
"DUP-121817", "8260C", "RES", "TK1925-3", "KAS", "2037-26-5", "TOLUENE-D8", "103.", "%", "", "0", "MDL", "", "SURR", "103.", "", "0", "PQL", "YES", "50.0", "DUP-121817", "", "", "0", ""
"DUP-121817", "8260C", "RES", "TK1925-3", "KAS", "156-60-5", "TRANS-1,2-DICHLOROETHENE", "1.0", "ug/L", "U", "0.25", "MDL", "", "TRG", "", "", "0.50", "PQL", "YES", "0", "DUP-121817", "", "", "1.0", ""
"DUP-121817", "8260C", "RES", "TK1925-3", "KAS", "79-01-6", "TRICHLOROETHENE", "0.50", "ug/L", "U", "0.28", "MDL", "", "TRG", "", "", "1.0", "PQL", "YES", "0", "DUP-121817", "", "", "0.50", ""
"DUP-121817", "8260C", "RES", "TK1925-3", "KAS", "75-01-4", "VINYL CHLORIDE", "2.0", "ug/L", "U", "0.25", "MDL", "", "TRG", "", "", "1.0", "PQL", "YES", "0", "DUP-121817", "", "", "2.0", ""
"DUP-121817", "8270D-SIM", "RES", "TK1925-3", "KAS", "615-58-7", "2,4-Dibromophenol", "24.5", "%", "", "0", "MDL", "", "SURR", "24.5", "", "0", "PQL", "YES", "4.00", "DUP-121817", "", "", "0", ""
"DUP-121817", "8270D-SIM", "RES", "TK1925-3", "KAS", "91-57-6", "2-METHYLNAPHTHALENE", "0.096", "ug/L", "U", "0.074", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "DUP-121817", "", "", "0.096", ""
"DUP-121817", "8270D-SIM", "RES", "TK1925-3", "KAS", "7297-45-2", "2-Methylnaphthalene-d10", "65.7", "%", "", "0", "MDL", "", "SURR", "65.7", "", "0", "PQL", "YES", "2.00", "DUP-121817", "", "", "0", ""
"DUP-121817", "8270D-SIM", "RES", "TK1925-3", "KAS", "56-55-3", "BENZO(A)ANTHRACENE", "0.054", "ug/L", "J", "0.044", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "DUP-121817", "", "", "0.096", ""
"DUP-121817", "8270D-SIM", "RES", "TK1925-3", "KAS", "50-32-8", "BENZO(A)PYRENE", "0.096", "ug/L", "U", "0.063", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "DUP-121817", "", "", "0.096", ""
"DUP-121817", "8270D-SIM", "RES", "TK1925-3", "KAS", "205-99-2", "BENZO(B)FLUORANTHENE", "0.096", "ug/L", "U", "0.086", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "DUP-121817", "", "", "0.096", ""
"DUP-121817", "8270D-SIM", "RES", "TK1925-3", "KAS", "191-24-2", "BENZO(G,H,I)PERYLENE", "0.096", "ug/L", "U", "0.062", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "DUP-121817", "", "", "0.096", ""
"DUP-121817", "8270D-SIM", "RES", "TK1925-3", "KAS", "207-08-9", "BENZO(K)FLUORANTHENE", "0.096", "ug/L", "U", "0.047", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "DUP-121817", "", "", "0.096", ""
"DUP-121817", "8270D-SIM", "RES", "TK1925-3", "KAS", "218-01-9", "CHRYSENE", "0.096", "ug/L", "U", "0.035", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "DUP-121817", "", "", "0.096", ""
"DUP-121817", "8270D-SIM", "RES", "TK1925-3", "KAS", "53-70-3", "DIBENZO(A,H)ANTHRACENE", "0.096", "ug/L", "U", "0.067", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "DUP-121817", "", "", "0.096", ""
"DUP-121817", "8270D-SIM", "RES", "TK1925-3", "KAS", "206-44-0", "FLUORANTHENE", "0.096", "ug/L", "U", "0.070", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "DUP-121817", "", "", "0.096", ""
"DUP-121817", "8270D-SIM", "RES", "TK1925-3", "KAS", "81103-79-9", "Fluorene-d10", "69.5", "%", "", "0", "MDL", "", "SURR", "69.5", "", "0", "PQL", "YES", "2.00", "DUP-121817", "", "", "0", ""
"DUP-121817", "8270D-SIM", "RES", "TK1925-3", "KAS", "193-39-5", "INDENO(1,2,3-

CD)PYRENE", "0.096", "ug/L", "U", "0.050", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "DUP-121817", "", "", "0.096", ""

"DUP-121817", "8270D-SIM", "RES", "TK1925-3", "KAS", "91-20-3", "NAPHTHALENE", "0.096", "ug/L", "U", "0.062", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "DUP-121817", "", "", "0.096", ""

"DUP-121817", "8270D-SIM", "RES", "TK1925-3", "KAS", "87-86-5", "PENTACHLOROPHENOL", "0.48", "ug/L", "U", "0.32", "MDL", "", "TRG", "", "", "0.96", "PQL", "YES", "0", "DUP-121817", "", "", "0.48", ""

"DUP-121817", "8270D-SIM", "RES", "TK1925-3", "KAS", "85-01-8", "PHENANTHRENE", "0.096", "ug/L", "U", "0.049", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "DUP-121817", "", "", "0.096", ""

"DUP-121817", "8270D-SIM", "RES", "TK1925-3", "KAS", "129-00-0", "PYRENE", "0.096", "ug/L", "U", "0.057", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "DUP-121817", "", "", "0.096", ""

"DUP-121817", "8270D-SIM", "RES", "TK1925-3", "KAS", "1718-52-1", "Pyrene-d10", "99.7", "%", "", "0", "MDL", "", "SURR", "99.7", "", "0", "PQL", "YES", "2.00", "DUP-121817", "", "", "0", ""

"DUP-121817", "300.0", "RES", "TK1925-3DL", "KAS", "16887-00-6", "CHLORIDE", "19", "mg/L", "", "0.20", "MDL", "", "TRG", "", "", "4.0", "PQL", "YES", "3.75", "DUP-121817", "", "", "2.0", ""

"DUP-121817", "300.0", "RES", "TK1925-3DL", "KAS", "14808-79-8", "SULFATE", "28", "mg/L", "", "0.13", "MDL", "", "TRG", "", "", "2.0", "PQL", "YES", "3.75", "DUP-121817", "", "", "1.0", ""

"DUP-121817", "300.0", "RES", "TK1925-3DLB", "KAS", "14797-55-8", "NITRATE AS N", "9.9", "mg/L", "", "0.087", "MDL", "", "TRG", "", "", "0.25", "PQL", "YES", "0.845", "DUP-121817", "", "", "0.12", ""

"GI-MW400-121817", "2320B", "RES", "TK1925-6", "KAS", "11-43-8", "ALKALINITY AS CaCO3", "350", "mg/L", "", "0.23", "MDL", "", "TRG", "", "", "5.0", "PQL", "YES", "0", "GI-MW400-121817", "", "", "4.0", ""

"GI-MW400-121817", "8082A", "RES", "TK1925-6", "KAS", "877-09-8", "2,4,5,6-Tetrachloro-meta-xylene", "83.8", "%", "", "0", "MDL", "", "SURR", "83.8", "", "0", "PQL", "YES", "0.952", "GI-MW400-121817", "", "", "0", ""

"GI-MW400-121817", "8082A", "RES", "TK1925-6", "KAS", "12674-11-2", "AROCLOR 1016", "0.24", "ug/L", "U", "0.14", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "GI-MW400-121817", "", "", "0.24", ""

"GI-MW400-121817", "8082A", "RES", "TK1925-6", "KAS", "11104-28-2", "AROCLOR 1221", "0.24", "ug/L", "U", "0.2", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "GI-MW400-121817", "", "", "0.24", ""

"GI-MW400-121817", "8082A", "RES", "TK1925-6", "KAS", "11141-16-5", "AROCLOR 1232", "0.24", "ug/L", "U", "0.088", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "GI-MW400-121817", "", "", "0.24", ""

"GI-MW400-121817", "8082A", "RES", "TK1925-6", "KAS", "53469-21-9", "AROCLOR 1242", "0.24", "ug/L", "U", "0.18", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "GI-MW400-121817", "", "", "0.24", ""

"GI-MW400-121817", "8082A", "RES", "TK1925-6", "KAS", "12672-29-6", "AROCLOR 1248", "0.24", "ug/L", "U", "0.2", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "GI-MW400-121817", "", "", "0.24", ""

"GI-MW400-121817", "8082A", "RES", "TK1925-6", "KAS", "11097-69-1", "AROCLOR 1254", "0.24", "ug/L", "U", "0.081", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "GI-MW400-121817", "", "", "0.24", ""

"GI-MW400-121817", "8082A", "RES", "TK1925-6", "KAS", "11096-82-5", "AROCLOR 1260", "0.24", "ug/L", "U", "0.17", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "GI-MW400-121817", "", "", "0.24", ""

"GI-MW400-121817", "8082A", "RES", "TK1925-6", "KAS", "37324-23-5", "Aroclor-1262", "0.24", "ug/L", "U", "0.066", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "GI-MW400-121817", "", "", "0.24", ""

"GI-MW400-121817", "8082A", "RES", "TK1925-6", "KAS", "11100-14-4", "Aroclor-1268", "0.24", "ug/L", "U", "0.071", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "GI-MW400-121817", "", "", "0.24", ""

"GI-MW400-121817", "8082A", "RES", "TK1925-6", "KAS", "2051-24-3", "DECACHLOROBIPHENYL", "91.8", "%", "", "0", "MDL", "", "SURR", "91.8", "", "0", "PQL", "YES", "0.952", "GI-MW400-121817", "", "", "0", ""

"GI-MW400-121817", "8082A", "RES", "TK1925-6", "KAS", "1336-36-3", "TOTAL PCB", "2.1", "ug/L", "U", "0.063", "MDL", "", "TRG", "", "", "4.3", "PQL", "YES", "0", "GI-MW400-121817", "", "", "2.1", ""

"GI-MW400-121817", "8260C", "RES", "TK1925-6", "KAS", "17060-07-0", "1,2-DICHLOROETHANE-D4", "111.", "%", "", "0", "MDL", "", "SURR", "111.", "", "0", "PQL", "YES", "50.0", "GI-MW400-121817", "", "", "0", ""

"GI-MW400-121817", "8260C", "RES", "TK1925-6", "KAS", "540-59-0", "1,2-DICHLOROETHYLENE", "2.0", "ug/L", "U", "0.21", "MDL", "", "TRG", "", "", "1.0", "PQL", "YES", "0", "GI-MW400-

121817", "", "", "2.0", ""
"GI-MW400-121817", "8260C", "RES", "TK1925-6", "KAS", "460-00-4", "4-
BROMOFLUOROBENZENE", "98.7", "%", "", "0", "MDL", "", "SURR", "98.7", "", "0", "PQL", "YES", "50.0", "GI-MW400-
121817", "", "", "0", ""
"GI-MW400-121817", "8260C", "RES", "TK1925-6", "KAS", "71-43-
2", "BENZENE", "0.50", "ug/L", "U", "0.26", "MDL", "", "TRG", "", "", "1.0", "PQL", "YES", "0", "GI-MW400-
121817", "", "", "0.50", ""
"GI-MW400-121817", "8260C", "RES", "TK1925-6", "KAS", "156-59-2", "CIS-1,2-
DICHLOROETHENE", "1.0", "ug/L", "U", "0.21", "MDL", "", "TRG", "", "", "0.50", "PQL", "YES", "0", "GI-MW400-
121817", "", "", "1.0", ""
"GI-MW400-121817", "8260C", "RES", "TK1925-6", "KAS", "1868-53-
7", "DIBROMOFLUOROMETHANE", "101.", "%", "", "0", "MDL", "", "SURR", "101.", "", "0", "PQL", "YES", "50.0", "GI-
MW400-121817", "", "", "0", ""
"GI-MW400-121817", "8260C", "RES", "TK1925-6", "KAS", "127-18-
4", "TETRACHLOROETHENE", "0.50", "ug/L", "U", "0.40", "MDL", "", "TRG", "", "", "1.0", "PQL", "YES", "0", "GI-
MW400-121817", "", "", "0.50", ""
"GI-MW400-121817", "8260C", "RES", "TK1925-6", "KAS", "2037-26-5", "TOLUENE-
D8", "101.", "%", "", "0", "MDL", "", "SURR", "101.", "", "0", "PQL", "YES", "50.0", "GI-MW400-121817", "", "", "0", ""
"GI-MW400-121817", "8260C", "RES", "TK1925-6", "KAS", "156-60-5", "TRANS-1,2-
DICHLOROETHENE", "1.0", "ug/L", "U", "0.25", "MDL", "", "TRG", "", "", "0.50", "PQL", "YES", "0", "GI-MW400-
121817", "", "", "1.0", ""
"GI-MW400-121817", "8260C", "RES", "TK1925-6", "KAS", "79-01-
6", "TRICHLOROETHENE", "0.50", "ug/L", "U", "0.28", "MDL", "", "TRG", "", "", "1.0", "PQL", "YES", "0", "GI-MW400-
121817", "", "", "0.50", ""
"GI-MW400-121817", "8260C", "RES", "TK1925-6", "KAS", "75-01-4", "VINYL
CHLORIDE", "2.0", "ug/L", "U", "0.25", "MDL", "", "TRG", "", "", "1.0", "PQL", "YES", "0", "GI-MW400-
121817", "", "", "2.0", ""
"GI-MW400-121817", "8270D-SIM", "RES", "TK1925-6", "KAS", "615-58-7", "2,4-Dibromophenol
", "27.2", "%", "", "0", "MDL", "", "SURR", "27.2", "", "0", "PQL", "YES", "4.00", "GI-MW400-121817", "", "", "0", ""
"GI-MW400-121817", "8270D-SIM", "RES", "TK1925-6", "KAS", "91-57-6", "2-
METHYLNAPHTHALENE", "0.094", "ug/L", "U", "0.073", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "GI-
MW400-121817", "", "", "0.094", ""
"GI-MW400-121817", "8270D-SIM", "RES", "TK1925-6", "KAS", "7297-45-2", "2-Methylnaphthalene-
d10", "67.4", "%", "", "0", "MDL", "", "SURR", "67.4", "", "0", "PQL", "YES", "2.00", "GI-MW400-121817", "", "", "0", ""
"GI-MW400-121817", "8270D-SIM", "RES", "TK1925-6", "KAS", "56-55-
3", "BENZO(A)ANTHRACENE", "0.057", "ug/L", "J", "0.043", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "GI-
MW400-121817", "", "", "0.094", ""
"GI-MW400-121817", "8270D-SIM", "RES", "TK1925-6", "KAS", "50-32-
8", "BENZO(A)PYRENE", "0.094", "ug/L", "U", "0.062", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "GI-MW400-
121817", "", "", "0.094", ""
"GI-MW400-121817", "8270D-SIM", "RES", "TK1925-6", "KAS", "205-99-
2", "BENZO(B)FLUORANTHENE", "0.094", "ug/L", "U", "0.084", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "GI-
MW400-121817", "", "", "0.094", ""
"GI-MW400-121817", "8270D-SIM", "RES", "TK1925-6", "KAS", "191-24-
2", "BENZO(G,H,I)PERYLENE", "0.094", "ug/L", "U", "0.061", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "GI-
MW400-121817", "", "", "0.094", ""
"GI-MW400-121817", "8270D-SIM", "RES", "TK1925-6", "KAS", "207-08-
9", "BENZO(K)FLUORANTHENE", "0.094", "ug/L", "U", "0.046", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "GI-
MW400-121817", "", "", "0.094", ""
"GI-MW400-121817", "8270D-SIM", "RES", "TK1925-6", "KAS", "218-01-
9", "CHRYSENE", "0.094", "ug/L", "U", "0.034", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "GI-MW400-
121817", "", "", "0.094", ""
"GI-MW400-121817", "8270D-SIM", "RES", "TK1925-6", "KAS", "53-70-
3", "DIBENZO(A,H)ANTHRACENE", "0.094", "ug/L", "U", "0.066", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "G

I-MW400-121817", "", "", "0.094", ""
"GI-MW400-121817", "8270D-SIM", "RES", "TK1925-6", "KAS", "206-44-0", "FLUORANTHENE", "0.094", "ug/L", "U", "0.069", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "GI-MW400-121817", "", "", "0.094", ""
"GI-MW400-121817", "8270D-SIM", "RES", "TK1925-6", "KAS", "81103-79-9", "Fluorene-d10", "68.5", "%", "", "0", "MDL", "", "SURR", "68.5", "", "0", "PQL", "YES", "2.00", "GI-MW400-121817", "", "", "0", ""
"GI-MW400-121817", "8270D-SIM", "RES", "TK1925-6", "KAS", "193-39-5", "INDENO(1,2,3-CD)PYRENE", "0.094", "ug/L", "U", "0.049", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "GI-MW400-121817", "", "", "0.094", ""
"GI-MW400-121817", "8270D-SIM", "RES", "TK1925-6", "KAS", "91-20-3", "NAPHTHALENE", "0.094", "ug/L", "U", "0.060", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "GI-MW400-121817", "", "", "0.094", ""
"GI-MW400-121817", "8270D-SIM", "RES", "TK1925-6", "KAS", "87-86-5", "PENTACHLOROPHENOL", "0.47", "ug/L", "U", "0.31", "MDL", "", "TRG", "", "", "0.94", "PQL", "YES", "0", "GI-MW400-121817", "", "", "0.47", ""
"GI-MW400-121817", "8270D-SIM", "RES", "TK1925-6", "KAS", "85-01-8", "PHENANTHRENE", "0.094", "ug/L", "U", "0.048", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "GI-MW400-121817", "", "", "0.094", ""
"GI-MW400-121817", "8270D-SIM", "RES", "TK1925-6", "KAS", "129-00-0", "PYRENE", "0.094", "ug/L", "U", "0.056", "MDL", "", "TRG", "", "", "0.19", "PQL", "YES", "0", "GI-MW400-121817", "", "", "0.094", ""
"GI-MW400-121817", "8270D-SIM", "RES", "TK1925-6", "KAS", "1718-52-1", "Pyrene-d10", "87.5", "%", "", "0", "MDL", "", "SURR", "87.5", "", "0", "PQL", "YES", "2.00", "GI-MW400-121817", "", "", "0", ""
"GI-MW400-121817", "300.0", "RES", "TK1925-6DL", "KAS", "16887-00-6", "CHLORIDE", "19", "mg/L", "", "0.20", "MDL", "", "TRG", "", "", "4.0", "PQL", "YES", "3.75", "GI-MW400-121817", "", "", "2.0", ""
"GI-MW400-121817", "300.0", "RES", "TK1925-6DL", "KAS", "14808-79-8", "SULFATE", "28", "mg/L", "", "0.13", "MDL", "", "TRG", "", "", "2.0", "PQL", "YES", "3.75", "GI-MW400-121817", "", "", "1.0", ""
"GI-MW400-121817", "300.0", "RES", "TK1925-6DLB", "KAS", "14797-55-8", "NITRATE AS N", "9.7", "mg/L", "", "0.087", "MDL", "", "TRG", "", "", "0.25", "PQL", "YES", "0.845", "GI-MW400-121817", "", "", "0.12", ""
"G44S-MW202RR-121817", "2320B", "RES", "TK1925-8", "KAS", "11-43-8", "ALKALINITY AS CaCO3", "94.", "mg/L", "", "0.23", "MDL", "", "TRG", "", "", "5.0", "PQL", "YES", "0", "G44S-MW202RR-121817", "", "", "4.0", ""
"G44S-MW202RR-121817", "300.0", "RES", "TK1925-8", "KAS", "14797-55-8", "NITRATE AS N", "0.025", "mg/L", "U", "0.0174", "MDL", "", "TRG", "", "", "0.050", "PQL", "YES", "0.845", "G44S-MW202RR-121817", "", "", "0.025", ""
"G44S-MW202RR-121817", "8082A", "RES", "TK1925-8", "KAS", "877-09-8", "2,4,5,6-Tetrachloro-meta-xylene", "82.4", "%", "", "0", "MDL", "", "SURR", "82.4", "", "0", "PQL", "YES", "0.962", "G44S-MW202RR-121817", "", "", "0", ""
"G44S-MW202RR-121817", "8082A", "RES", "TK1925-8", "KAS", "12674-11-2", "AROCLOR 1016", "0.24", "ug/L", "U", "0.14", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "G44S-MW202RR-121817", "", "", "0.24", ""
"G44S-MW202RR-121817", "8082A", "RES", "TK1925-8", "KAS", "11104-28-2", "AROCLOR 1221", "0.24", "ug/L", "U", "0.2", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "G44S-MW202RR-121817", "", "", "0.24", ""
"G44S-MW202RR-121817", "8082A", "RES", "TK1925-8", "KAS", "11141-16-5", "AROCLOR 1232", "0.24", "ug/L", "U", "0.09", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "G44S-MW202RR-121817", "", "", "0.24", ""
"G44S-MW202RR-121817", "8082A", "RES", "TK1925-8", "KAS", "53469-21-9", "AROCLOR 1242", "0.24", "ug/L", "U", "0.18", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "G44S-MW202RR-121817", "", "", "0.24", ""
"G44S-MW202RR-121817", "8082A", "RES", "TK1925-8", "KAS", "12672-29-6", "AROCLOR 1248", "0.24", "ug/L", "U", "0.2", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "G44S-MW202RR-

121817", "", "", "0.24", ""
"G44S-MW202RR-121817", "8082A", "RES", "TK1925-8", "KAS", "11097-69-1", "AROCLOR
1254", "0.24", "ug/L", "U", "0.082", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "G44S-MW202RR-
121817", "", "", "0.24", ""
"G44S-MW202RR-121817", "8082A", "RES", "TK1925-8", "KAS", "11096-82-5", "AROCLOR
1260", "0.24", "ug/L", "U", "0.17", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "G44S-MW202RR-
121817", "", "", "0.24", ""
"G44S-MW202RR-121817", "8082A", "RES", "TK1925-8", "KAS", "37324-23-5", "Aroclor-1262
", "0.24", "ug/L", "U", "0.066", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "G44S-MW202RR-
121817", "", "", "0.24", ""
"G44S-MW202RR-121817", "8082A", "RES", "TK1925-8", "KAS", "11100-14-4", "Aroclor-1268
", "0.24", "ug/L", "U", "0.072", "MDL", "", "TRG", "", "", "0.48", "PQL", "YES", "0", "G44S-MW202RR-
121817", "", "", "0.24", ""
"G44S-MW202RR-121817", "8082A", "RES", "TK1925-8", "KAS", "2051-24-
3", "DECACHLOROBIPHENYL", "75.9", "%", "", "0", "MDL", "", "SURR", "75.9", "", "0", "PQL", "YES", "0.962", "G44S-
MW202RR-121817", "", "", "0", ""
"G44S-MW202RR-121817", "8082A", "RES", "TK1925-8", "KAS", "1336-36-3", "TOTAL
PCB", "2.2", "ug/L", "U", "0.063", "MDL", "", "TRG", "", "", "4.3", "PQL", "YES", "0", "G44S-MW202RR-
121817", "", "", "2.2", ""
"G44S-MW202RR-121817", "8260C", "RES", "TK1925-8", "KAS", "17060-07-0", "1,2-DICHLOROETHANE-
D4", "114.", "%", "", "0", "MDL", "", "SURR", "114.", "", "0", "PQL", "YES", "50.0", "G44S-MW202RR-121817", "", "", "0", ""
"G44S-MW202RR-121817", "8260C", "RES", "TK1925-8", "KAS", "540-59-0", "1,2-
DICHLOROETHYLENE", "2.0", "ug/L", "U", "0.21", "MDL", "", "TRG", "", "", "1.0", "PQL", "YES", "0", "G44S-MW202RR-
121817", "", "", "2.0", ""
"G44S-MW202RR-121817", "8260C", "RES", "TK1925-8", "KAS", "460-00-4", "4-
BROMOFLUOROBENZENE", "102.", "%", "", "0", "MDL", "", "SURR", "102.", "", "0", "PQL", "YES", "50.0", "G44S-
MW202RR-121817", "", "", "0", ""
"G44S-MW202RR-121817", "8260C", "RES", "TK1925-8", "KAS", "71-43-
2", "BENZENE", "0.50", "ug/L", "U", "0.26", "MDL", "", "TRG", "", "", "1.0", "PQL", "YES", "0", "G44S-MW202RR-
121817", "", "", "0.50", ""
"G44S-MW202RR-121817", "8260C", "RES", "TK1925-8", "KAS", "156-59-2", "CIS-1,2-
DICHLOROETHENE", "1.0", "ug/L", "U", "0.21", "MDL", "", "TRG", "", "", "0.50", "PQL", "YES", "0", "G44S-MW202RR-
121817", "", "", "1.0", ""
"G44S-MW202RR-121817", "8260C", "RES", "TK1925-8", "KAS", "1868-53-
7", "DIBROMOFLUOROMETHANE", "103.", "%", "", "0", "MDL", "", "SURR", "103.", "", "0", "PQL", "YES", "50.0", "G44S-
-MW202RR-121817", "", "", "0", ""
"G44S-MW202RR-121817", "8260C", "RES", "TK1925-8", "KAS", "127-18-
4", "TETRACHLOROETHENE", "0.50", "ug/L", "U", "0.40", "MDL", "", "TRG", "", "", "1.0", "PQL", "YES", "0", "G44S-
MW202RR-121817", "", "", "0.50", ""
"G44S-MW202RR-121817", "8260C", "RES", "TK1925-8", "KAS", "2037-26-5", "TOLUENE-
D8", "103.", "%", "", "0", "MDL", "", "SURR", "103.", "", "0", "PQL", "YES", "50.0", "G44S-MW202RR-121817", "", "", "0", ""
"G44S-MW202RR-121817", "8260C", "RES", "TK1925-8", "KAS", "156-60-5", "TRANS-1,2-
DICHLOROETHENE", "1.0", "ug/L", "U", "0.25", "MDL", "", "TRG", "", "", "0.50", "PQL", "YES", "0", "G44S-MW202RR-
121817", "", "", "1.0", ""
"G44S-MW202RR-121817", "8260C", "RES", "TK1925-8", "KAS", "79-01-
6", "TRICHLOROETHENE", "0.50", "ug/L", "U", "0.28", "MDL", "", "TRG", "", "", "1.0", "PQL", "YES", "0", "G44S-
MW202RR-121817", "", "", "0.50", ""
"G44S-MW202RR-121817", "8260C", "RES", "TK1925-8", "KAS", "75-01-4", "VINYL
CHLORIDE", "2.0", "ug/L", "U", "0.25", "MDL", "", "TRG", "", "", "1.0", "PQL", "YES", "0", "G44S-MW202RR-
121817", "", "", "2.0", ""
"G44S-MW202RR-121817", "8270D-SIM", "RES", "TK1925-8", "KAS", "615-58-7", "2,4-Dibromophenol
", "28.1", "%", "", "0", "MDL", "", "SURR", "28.1", "", "0", "PQL", "YES", "4.00", "G44S-MW202RR-121817", "", "", "0", ""
"G44S-MW202RR-121817", "8270D-SIM", "RES", "TK1925-8", "KAS", "91-57-6", "2-
METHYLNAPHTHALENE", "0.099", "ug/L", "U", "0.076", "MDL", "", "TRG", "", "", "0.20", "PQL", "YES", "0", "G44S-

MW202RR-121817", "", "", "0.099", ""
"G44S-MW202RR-121817", "8270D-SIM", "RES", "TK1925-8", "KAS", "7297-45-2", "2-Methylnaphthalene-
d10", "59.8", "%", "", "0", "MDL", "", "SURR", "59.8", "", "0", "PQL", "YES", "2.00", "G44S-MW202RR-121817", "", "", "0", ""
"G44S-MW202RR-121817", "8270D-SIM", "RES", "TK1925-8", "KAS", "56-55-
3", "BENZO(A)ANTHRACENE", "0.058", "ug/L", "J", "0.046", "MDL", "", "TRG", "", "", "0.20", "PQL", "YES", "0", "G44S-
MW202RR-121817", "", "", "0.099", ""
"G44S-MW202RR-121817", "8270D-SIM", "RES", "TK1925-8", "KAS", "50-32-
8", "BENZO(A)PYRENE", "0.099", "ug/L", "U", "0.065", "MDL", "", "TRG", "", "", "0.20", "PQL", "YES", "0", "G44S-
MW202RR-121817", "", "", "0.099", ""
"G44S-MW202RR-121817", "8270D-SIM", "RES", "TK1925-8", "KAS", "205-99-
2", "BENZO(B)FLUORANTHENE", "0.099", "ug/L", "U", "0.088", "MDL", "", "TRG", "", "", "0.20", "PQL", "YES", "0", "G44
S-MW202RR-121817", "", "", "0.099", ""
"G44S-MW202RR-121817", "8270D-SIM", "RES", "TK1925-8", "KAS", "191-24-
2", "BENZO(G,H,I)PERYLENE", "0.099", "ug/L", "U", "0.064", "MDL", "", "TRG", "", "", "0.20", "PQL", "YES", "0", "G44S-
MW202RR-121817", "", "", "0.099", ""
"G44S-MW202RR-121817", "8270D-SIM", "RES", "TK1925-8", "KAS", "207-08-
9", "BENZO(K)FLUORANTHENE", "0.099", "ug/L", "U", "0.048", "MDL", "", "TRG", "", "", "0.20", "PQL", "YES", "0", "G44
S-MW202RR-121817", "", "", "0.099", ""
"G44S-MW202RR-121817", "8270D-SIM", "RES", "TK1925-8", "KAS", "218-01-
9", "CHRYSENE", "0.099", "ug/L", "U", "0.036", "MDL", "", "TRG", "", "", "0.20", "PQL", "YES", "0", "G44S-MW202RR-
121817", "", "", "0.099", ""
"G44S-MW202RR-121817", "8270D-SIM", "RES", "TK1925-8", "KAS", "53-70-
3", "DIBENZO(A,H)ANTHRACENE", "0.099", "ug/L", "U", "0.069", "MDL", "", "TRG", "", "", "0.20", "PQL", "YES", "0", "G
44S-MW202RR-121817", "", "", "0.099", ""
"G44S-MW202RR-121817", "8270D-SIM", "RES", "TK1925-8", "KAS", "206-44-
0", "FLUORANTHENE", "0.099", "ug/L", "U", "0.072", "MDL", "", "TRG", "", "", "0.20", "PQL", "YES", "0", "G44S-
MW202RR-121817", "", "", "0.099", ""
"G44S-MW202RR-121817", "8270D-SIM", "RES", "TK1925-8", "KAS", "81103-79-9", "Fluorene-
d10", "71.4", "%", "", "0", "MDL", "", "SURR", "71.4", "", "0", "PQL", "YES", "2.00", "G44S-MW202RR-121817", "", "", "0", ""
"G44S-MW202RR-121817", "8270D-SIM", "RES", "TK1925-8", "KAS", "193-39-5", "INDENO(1,2,3-
CD)PYRENE", "0.099", "ug/L", "U", "0.051", "MDL", "", "TRG", "", "", "0.20", "PQL", "YES", "0", "G44S-MW202RR-
121817", "", "", "0.099", ""
"G44S-MW202RR-121817", "8270D-SIM", "RES", "TK1925-8", "KAS", "91-20-
3", "NAPHTHALENE", "0.099", "ug/L", "U", "0.063", "MDL", "", "TRG", "", "", "0.20", "PQL", "YES", "0", "G44S-
MW202RR-121817", "", "", "0.099", ""
"G44S-MW202RR-121817", "8270D-SIM", "RES", "TK1925-8", "KAS", "87-86-
5", "PENTACHLOROPHENOL", "0.50", "ug/L", "U", "0.33", "MDL", "", "TRG", "", "", "0.99", "PQL", "YES", "0", "G44S-
MW202RR-121817", "", "", "0.50", ""
"G44S-MW202RR-121817", "8270D-SIM", "RES", "TK1925-8", "KAS", "85-01-
8", "PHENANTHRENE", "0.099", "ug/L", "U", "0.050", "MDL", "", "TRG", "", "", "0.20", "PQL", "YES", "0", "G44S-
MW202RR-121817", "", "", "0.099", ""
"G44S-MW202RR-121817", "8270D-SIM", "RES", "TK1925-8", "KAS", "129-00-
0", "PYRENE", "0.099", "ug/L", "U", "0.058", "MDL", "", "TRG", "", "", "0.20", "PQL", "YES", "0", "G44S-MW202RR-
121817", "", "", "0.099", ""
"G44S-MW202RR-121817", "8270D-SIM", "RES", "TK1925-8", "KAS", "1718-52-1", "Pyrene-
d10", "94.9", "%", "", "0", "MDL", "", "SURR", "94.9", "", "0", "PQL", "YES", "2.00", "G44S-MW202RR-121817", "", "", "0", ""
"G44S-MW202RR-121817", "300.0", "RES", "TK1925-8DL", "KAS", "14808-79-
8", "SULFATE", "1600", "mg/L", "", "6.4", "MDL", "", "TRG", "", "", "100", "PQL", "YES", "3.75", "G44S-MW202RR-
121817", "", "", "50", ""
"G44S-MW202RR-121817", "300.0", "RES", "TK1925-8DLB", "KAS", "16887-00-
6", "CHLORIDE", "11000", "mg/L", "", "200", "MDL", "", "TRG", "", "", "4000", "PQL", "YES", "3.75", "G44S-MW202RR-
121817", "", "", "2000", ""
"WG220411-1", "8082A", "RES", "WG220411-1", "KAS", "877-09-8", "2,4,5,6-Tetrachloro-meta-
xylene", "74.9", "%", "", "0", "MDL", "", "SURR", "74.9", "", "0", "PQL", "YES", "1.00", "WG220411-1", "", "", "0", ""

"WG220411-1","8082A","RES","WG220411-1","KAS","12674-11-2","AROCLOR
1016","0.25","ug/L","U","0.15","MDL","","TRG","","","0.50","PQL","YES","0","WG220411-1","","","0.25",""
"WG220411-1","8082A","RES","WG220411-1","KAS","11104-28-2","AROCLOR
1221","0.25","ug/L","U","0.20","MDL","","TRG","","","0.50","PQL","YES","0","WG220411-1","","","0.25",""
"WG220411-1","8082A","RES","WG220411-1","KAS","11141-16-5","AROCLOR
1232","0.25","ug/L","U","0.089","MDL","","TRG","","","0.50","PQL","YES","0","WG220411-1","","","0.25",""
"WG220411-1","8082A","RES","WG220411-1","KAS","53469-21-9","AROCLOR
1242","0.25","ug/L","U","0.18","MDL","","TRG","","","0.50","PQL","YES","0","WG220411-1","","","0.25",""
"WG220411-1","8082A","RES","WG220411-1","KAS","12672-29-6","AROCLOR
1248","0.25","ug/L","U","0.20","MDL","","TRG","","","0.50","PQL","YES","0","WG220411-1","","","0.25",""
"WG220411-1","8082A","RES","WG220411-1","KAS","11097-69-1","AROCLOR
1254","0.25","ug/L","U","0.082","MDL","","TRG","","","0.50","PQL","YES","0","WG220411-1","","","0.25",""
"WG220411-1","8082A","RES","WG220411-1","KAS","11096-82-5","AROCLOR
1260","0.25","ug/L","U","0.17","MDL","","TRG","","","0.50","PQL","YES","0","WG220411-1","","","0.25",""
"WG220411-1","8082A","RES","WG220411-1","KAS","37324-23-5","Aroclor-1262
","0.25","ug/L","U","0.066","MDL","","TRG","","","0.50","PQL","YES","0","WG220411-1","","","0.25",""
"WG220411-1","8082A","RES","WG220411-1","KAS","11100-14-4","Aroclor-1268
","0.25","ug/L","U","0.072","MDL","","TRG","","","0.50","PQL","YES","0","WG220411-1","","","0.25",""
"WG220411-1","8082A","RES","WG220411-1","KAS","2051-24-
3","DECACHLOROBIPHENYL","70.4","%","","0","MDL","","SURR","70.4","","0","PQL","YES","1.00","WG22041
1-1","","","0",""
"WG220411-1","8082A","RES","WG220411-1","KAS","1336-36-3","TOTAL
PCB","2.2","ug/L","U","0.066","MDL","","TRG","","","4.5","PQL","YES","0","WG220411-1","","","2.2",""
"WG220411-2","8082A","RES","WG220411-2","KAS","877-09-8","2,4,5,6-Tetrachloro-meta-
xylene","98.7","%","","0","MDL","","SURR","98.7","","0","PQL","YES","1.00","WG220411-2","","","0",""
"WG220411-2","8082A","RES","WG220411-2","KAS","12674-11-2","AROCLOR
1016","4.90","ug/L","","0.15","MDL","","SPK","98.0","","0.50","PQL","YES","5.00","WG220411-2","","","0.25",""
"WG220411-2","8082A","RES","WG220411-2","KAS","11096-82-5","AROCLOR
1260","5.13","ug/L","","0.17","MDL","","SPK","103.0","","0.50","PQL","YES","5.00","WG220411-2","","","0.25",""
"WG220411-2","8082A","RES","WG220411-2","KAS","2051-24-
3","DECACHLOROBIPHENYL","83.2","%","","0","MDL","","SURR","83.2","","0","PQL","YES","1.00","WG22041
1-2","","","0",""
"WG220411-3","8082A","RES","WG220411-3","KAS","877-09-8","2,4,5,6-Tetrachloro-meta-
xylene","92.8","%","","0","MDL","","SURR","92.8","","0","PQL","YES","1.00","WG220411-3","","","0",""
"WG220411-3","8082A","RES","WG220411-3","KAS","11097-69-1","AROCLOR
1254","4.34","ug/L","","0.082","MDL","","SPK","86.8","","0.50","PQL","YES","5.00","WG220411-3","","","0.25",""
"WG220411-3","8082A","RES","WG220411-3","KAS","2051-24-
3","DECACHLOROBIPHENYL","86.6","%","","0","MDL","","SURR","86.6","","0","PQL","YES","1.00","WG22041
1-3","","","0",""
"WG220582-1","8270D-SIM","RES","WG220582-1","KAS","615-58-7","2,4-Dibromophenol
","26.4","%","","0","MDL","","SURR","26.4","","0","PQL","YES","4.00","WG220582-1","","","0",""
"WG220582-1","8270D-SIM","RES","WG220582-1","KAS","91-57-6","2-
METHYLNAPHTHALENE","0.10","ug/L","U","0.077","MDL","","TRG","","","0.20","PQL","YES","0","WG220582-
1","","","0.10",""
"WG220582-1","8270D-SIM","RES","WG220582-1","KAS","7297-45-2","2-Methylnaphthalene-
d10","89.0","%","","0","MDL","","SURR","89.0","","0","PQL","YES","2.00","WG220582-1","","","0",""
"WG220582-1","8270D-SIM","RES","WG220582-1","KAS","56-55-
3","BENZO(A)ANTHRACENE","0.078","ug/L","J","0.046","MDL","","TRG","","","0.20","PQL","YES","0","WG220
582-1","","","0.10",""
"WG220582-1","8270D-SIM","RES","WG220582-1","KAS","50-32-
8","BENZO(A)PYRENE","0.10","ug/L","U","0.066","MDL","","TRG","","","0.20","PQL","YES","0","WG220582-
1","","","0.10",""
"WG220582-1","8270D-SIM","RES","WG220582-1","KAS","205-99-
2","BENZO(B)FLUORANTHENE","0.10","ug/L","U","0.089","MDL","","TRG","","","0.20","PQL","YES","0","WG2

20582-1","","","0.10",""
"WG220582-1","8270D-SIM","RES","WG220582-1","KAS","191-24-2","BENZO(G,H,I)PERYLENE","0.10","ug/L","U","0.065","MDL","","TRG","","","0.20","PQL","YES","0","WG220582-1","","","0.10",""
"WG220582-1","8270D-SIM","RES","WG220582-1","KAS","207-08-9","BENZO(K)FLUORANTHENE","0.10","ug/L","U","0.049","MDL","","TRG","","","0.20","PQL","YES","0","WG220582-1","","","0.10",""
"WG220582-1","8270D-SIM","RES","WG220582-1","KAS","218-01-9","CHRYSENE","0.10","ug/L","U","0.036","MDL","","TRG","","","0.20","PQL","YES","0","WG220582-1","","","0.10",""
"WG220582-1","8270D-SIM","RES","WG220582-1","KAS","53-70-3","DIBENZO(A,H)ANTHRACENE","0.10","ug/L","U","0.070","MDL","","TRG","","","0.20","PQL","YES","0","WG220582-1","","","0.10",""
"WG220582-1","8270D-SIM","RES","WG220582-1","KAS","206-44-0","FLUORANTHENE","0.10","ug/L","U","0.073","MDL","","TRG","","","0.20","PQL","YES","0","WG220582-1","","","0.10",""
"WG220582-1","8270D-SIM","RES","WG220582-1","KAS","81103-79-9","Fluorene-d10","85.6","%","","0","MDL","","SURR","85.6","","0","PQL","YES","2.00","WG220582-1","","","0",""
"WG220582-1","8270D-SIM","RES","WG220582-1","KAS","193-39-5","INDENO(1,2,3-CD)PYRENE","0.10","ug/L","U","0.052","MDL","","TRG","","","0.20","PQL","YES","0","WG220582-1","","","0.10",""
"WG220582-1","8270D-SIM","RES","WG220582-1","KAS","91-20-3","NAPHTHALENE","0.10","ug/L","U","0.064","MDL","","TRG","","","0.20","PQL","YES","0","WG220582-1","","","0.10",""
"WG220582-1","8270D-SIM","RES","WG220582-1","KAS","87-86-5","PENTACHLOROPHENOL","0.50","ug/L","U","0.33","MDL","","TRG","","","1.0","PQL","YES","0","WG220582-1","","","0.50",""
"WG220582-1","8270D-SIM","RES","WG220582-1","KAS","85-01-8","PHENANTHRENE","0.10","ug/L","U","0.051","MDL","","TRG","","","0.20","PQL","YES","0","WG220582-1","","","0.10",""
"WG220582-1","8270D-SIM","RES","WG220582-1","KAS","129-00-0","PYRENE","0.10","ug/L","U","0.059","MDL","","TRG","","","0.20","PQL","YES","0","WG220582-1","","","0.10",""
"WG220582-1","8270D-SIM","RES","WG220582-1","KAS","1718-52-1","Pyrene-d10","114.","%","","0","MDL","","SURR","114.","%","0","PQL","YES","2.00","WG220582-1","","","0",""
"WG220582-2","8270D-SIM","RES","WG220582-2","KAS","615-58-7","2,4-Dibromophenol","26.7","%","","0","MDL","","SURR","26.7","","0","PQL","YES","4.00","WG220582-2","","","0",""
"WG220582-2","8270D-SIM","RES","WG220582-2","KAS","91-57-6","2-METHYLNAPHTHALENE","1.25","ug/L","","0.077","MDL","","SPK","62.5","","0.20","PQL","YES","2.00","WG220582-2","","","0.10",""
"WG220582-2","8270D-SIM","RES","WG220582-2","KAS","7297-45-2","2-Methylnaphthalene-d10","63.6","%","","0","MDL","","SURR","63.6","","0","PQL","YES","2.00","WG220582-2","","","0",""
"WG220582-2","8270D-SIM","RES","WG220582-2","KAS","56-55-3","BENZO(A)ANTHRACENE","1.52","ug/L","","0.046","MDL","","SPK","76.0","","0.20","PQL","YES","2.00","WG220582-2","","","0.10",""
"WG220582-2","8270D-SIM","RES","WG220582-2","KAS","50-32-8","BENZO(A)PYRENE","1.33","ug/L","","0.066","MDL","","SPK","66.5","","0.20","PQL","YES","2.00","WG220582-2","","","0.10",""
"WG220582-2","8270D-SIM","RES","WG220582-2","KAS","205-99-2","BENZO(B)FLUORANTHENE","1.34","ug/L","","0.089","MDL","","SPK","67.0","","0.20","PQL","YES","2.00","WG220582-2","","","0.10",""
"WG220582-2","8270D-SIM","RES","WG220582-2","KAS","191-24-2","BENZO(G,H,I)PERYLENE","1.42","ug/L","","0.065","MDL","","SPK","71.0","","0.20","PQL","YES","2.00","WG220582-2","","","0.10",""

"WG220582-2","8270D-SIM","RES","WG220582-2","KAS","207-08-9","BENZO(K)FLUORANTHENE","1.59","ug/L","","0.049","MDL","","SPK","79.5","","0.20","PQL","YES","2.00","WG220582-2","","","0.10",""

"WG220582-2","8270D-SIM","RES","WG220582-2","KAS","218-01-9","CHRYSENE","1.62","ug/L","","0.036","MDL","","SPK","81.0","","0.20","PQL","YES","2.00","WG220582-2","","","0.10",""

"WG220582-2","8270D-SIM","RES","WG220582-2","KAS","53-70-3","DIBENZO(A,H)ANTHRACENE","1.42","ug/L","","0.070","MDL","","SPK","71.0","","0.20","PQL","YES","2.00","WG220582-2","","","0.10",""

"WG220582-2","8270D-SIM","RES","WG220582-2","KAS","206-44-0","FLUORANTHENE","1.80","ug/L","","0.073","MDL","","SPK","90.0","","0.20","PQL","YES","2.00","WG220582-2","","","0.10",""

"WG220582-2","8270D-SIM","RES","WG220582-2","KAS","81103-79-9","Fluorene-d10","66.4","%","","0","MDL","","SURR","66.4","","0","PQL","YES","2.00","WG220582-2","","","0",""

"WG220582-2","8270D-SIM","RES","WG220582-2","KAS","193-39-5","INDENO(1,2,3-CD)PYRENE","1.80","ug/L","","0.052","MDL","","SPK","90.0","","0.20","PQL","YES","2.00","WG220582-2","","","0.10",""

"WG220582-2","8270D-SIM","RES","WG220582-2","KAS","91-20-3","NAPHTHALENE","1.19","ug/L","","0.064","MDL","","SPK","59.5","","0.20","PQL","YES","2.00","WG220582-2","","","0.10",""

"WG220582-2","8270D-SIM","RES","WG220582-2","KAS","87-86-5","PENTACHLOROPHENOL","2.97","ug/L","","0.33","MDL","","SPK","74.2","","1.0","PQL","YES","4.00","WG220582-2","","","0.50",""

"WG220582-2","8270D-SIM","RES","WG220582-2","KAS","85-01-8","PHENANTHRENE","1.53","ug/L","","0.051","MDL","","SPK","76.5","","0.20","PQL","YES","2.00","WG220582-2","","","0.10",""

"WG220582-2","8270D-SIM","RES","WG220582-2","KAS","129-00-0","PYRENE","1.55","ug/L","","0.059","MDL","","SPK","77.5","","0.20","PQL","YES","2.00","WG220582-2","","","0.10",""

"WG220582-2","8270D-SIM","RES","WG220582-2","KAS","1718-52-1","Pyrene-d10","77.3","%","","0","MDL","","SURR","77.3","","0","PQL","YES","2.00","WG220582-2","","","0",""

"WG220806-1","300.0","RES","WG220806-1","KAS","16887-00-6","CHLORIDE","1.0","mg/L","U",".0993","MDL","","TRG","","","2.0","PQL","YES","3.75","WG220806-1","","","1.0",""

"WG220806-1","300.0","RES","WG220806-1","KAS","14797-55-8","NITRATE AS N","0.025","mg/L","U",".0174","MDL","","TRG","","","0.050","PQL","YES","0.845","WG220806-1","","","0.025",""

"WG220806-1","300.0","RES","WG220806-1","KAS","14808-79-8","SULFATE","0.50","mg/L","U","0.064","MDL","","TRG","","","1.0","PQL","YES","3.75","WG220806-1","","","0.50",""

"WG220806-2","300.0","RES","WG220806-2","KAS","16887-00-6","CHLORIDE","3.71","mg/L","",".0993","MDL","","SPK","98.9","","2.0","PQL","YES","3.75","WG220806-2","","","1.0",""

"WG220806-2","300.0","RES","WG220806-2","KAS","14797-55-8","NITRATE AS N","0.835","mg/L","",".0174","MDL","","SPK","98.8","","0.050","PQL","YES","0.845","WG220806-2","","","0.025",""

"WG220806-2","300.0","RES","WG220806-2","KAS","14808-79-8","SULFATE","3.69","mg/L","","0.064","MDL","","SPK","98.4","","1.0","PQL","YES","3.75","WG220806-2","","","0.50",""

"G32-MW304SR-121817MS","300.0","RES","WG220806-3","KAS","14797-55-8","NITRATE AS N","2.1","mg/L","",".0174","MDL","","SPK","94.8","","0.050","PQL","YES","0.845","TK1925-10","","","0.025",""

"WG220969-1","2320B","RES","WG220969-1","KAS","11-43-8","ALKALINITY AS CaCO3","0.51","mg/L","J","0.23","MDL","","TRG","","","5.0","PQL","YES","0","WG220969-1","","","4.0",""

"WG220969-2","2320B","RES","WG220969-2","KAS","11-43-8","ALKALINITY AS CaCO3","120","mg/L","","0.23","MDL","","SPK","104","","5.0","PQL","YES","120","WG220969-2","","","4.0",""

"WG220989-1","8260C","RES","WG220989-1","KAS","17060-07-0","1,2-DICHLOROETHANE-D4","94.0","%","0","MDL","","SURR","94.0","","0","PQL","YES","50.0","WG220989-1","","","0",""
"WG220989-1","8260C","RES","WG220989-1","KAS","540-59-0","1,2-DICHLOROETHYLENE","100.,"ug/L","","0.21","MDL","","SPK","100.,"","1.0","PQL","YES","100.,"WG220989-1","","","2.0",""
"WG220989-1","8260C","RES","WG220989-1","KAS","460-00-4","4-BROMOFLUOROBENZENE","102.,"%","0","MDL","","SURR","102.,"","","0","PQL","YES","50.0","WG220989-1","","","0",""
"WG220989-1","8260C","RES","WG220989-1","KAS","71-43-2","BENZENE","50.5","ug/L","","0.26","MDL","","SPK","101.,"","1.0","PQL","YES","50.0","WG220989-1","","","0.50",""
"WG220989-1","8260C","RES","WG220989-1","KAS","156-59-2","CIS-1,2-DICHLOROETHENE","50.8","ug/L","","0.21","MDL","","SPK","102.,"","0.50","PQL","YES","50.0","WG220989-1","","","1.0",""
"WG220989-1","8260C","RES","WG220989-1","KAS","1868-53-7","DIBROMOFLUOROMETHANE","98.6","%","0","MDL","","SURR","98.6","","","0","PQL","YES","50.0","WG220989-1","","","0",""
"WG220989-1","8260C","RES","WG220989-1","KAS","127-18-4","TETRACHLOROETHENE","47.6","ug/L","","0.40","MDL","","SPK","95.2","","1.0","PQL","YES","50.0","WG220989-1","","","0.50",""
"WG220989-1","8260C","RES","WG220989-1","KAS","2037-26-5","TOLUENE-D8","99.7","%","0","MDL","","SURR","99.7","","","0","PQL","YES","50.0","WG220989-1","","","0",""
"WG220989-1","8260C","RES","WG220989-1","KAS","156-60-5","TRANS-1,2-DICHLOROETHENE","49.4","ug/L","","0.25","MDL","","SPK","98.8","","0.50","PQL","YES","50.0","WG220989-1","","","1.0",""
"WG220989-1","8260C","RES","WG220989-1","KAS","79-01-6","TRICHLOROETHENE","49.8","ug/L","","0.28","MDL","","SPK","99.6","","1.0","PQL","YES","50.0","WG220989-1","","","0.50",""
"WG220989-1","8260C","RES","WG220989-1","KAS","75-01-4","VINYL CHLORIDE","48.8","ug/L","","0.25","MDL","","SPK","97.6","","1.0","PQL","YES","50.0","WG220989-1","","","2.0",""
"WG220989-2","8260C","RES","WG220989-2","KAS","17060-07-0","1,2-DICHLOROETHANE-D4","102.,"%","0","MDL","","SURR","102.,"","","0","PQL","YES","50.0","WG220989-2","","","0",""
"WG220989-2","8260C","RES","WG220989-2","KAS","540-59-0","1,2-DICHLOROETHYLENE","2.0","ug/L","U","0.21","MDL","","TRG","","","1.0","PQL","YES","0","WG220989-2","","","2.0",""
"WG220989-2","8260C","RES","WG220989-2","KAS","460-00-4","4-BROMOFLUOROBENZENE","98.8","%","0","MDL","","SURR","98.8","","","0","PQL","YES","50.0","WG220989-2","","","0",""
"WG220989-2","8260C","RES","WG220989-2","KAS","71-43-2","BENZENE","0.50","ug/L","U","0.26","MDL","","TRG","","","1.0","PQL","YES","0","WG220989-2","","","0.50",""
"WG220989-2","8260C","RES","WG220989-2","KAS","156-59-2","CIS-1,2-DICHLOROETHENE","1.0","ug/L","U","0.21","MDL","","TRG","","","0.50","PQL","YES","0","WG220989-2","","","1.0",""
"WG220989-2","8260C","RES","WG220989-2","KAS","1868-53-7","DIBROMOFLUOROMETHANE","100.,"%","0","MDL","","SURR","100.,"","","0","PQL","YES","50.0","WG220989-2","","","0",""
"WG220989-2","8260C","RES","WG220989-2","KAS","127-18-4","TETRACHLOROETHENE","0.50","ug/L","U","0.40","MDL","","TRG","","","1.0","PQL","YES","0","WG220989-2","","","0.50",""
"WG220989-2","8260C","RES","WG220989-2","KAS","2037-26-5","TOLUENE-D8","101.,"%","0","MDL","","SURR","101.,"","","0","PQL","YES","50.0","WG220989-2","","","0",""
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"WG220989-2", "8260C", "RES", "WG220989-2", "KAS", "75-01-4", "VINYL CHLORIDE", "2.0", "ug/L", "U", "0.25", "MDL", "", "TRG", "", "", "1.0", "PQL", "YES", "0", "WG220989-2", "", "", "2.0", ""
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10","NM","","4.8","8082A","3510C","RES","12/20/2017 08:02","12/25/2017
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10","NM","","4.8","8260C","5030","RES","12/29/2017 16:41","12/29/2017
16:41","KAS","COA","WET","","1","","","100.0","WG220989","WG220989","WG220989","WG220989","TK1925
","12/19/2017 00:00","01/29/2018 14:06",""
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10","NM","","4.8","8270D-SIM","3510C","RES","12/22/2017 09:02","12/26/2017
23:15","KAS","COA","WET","","1","","","100.0","WG220582","WG220582","WG220582","WG220582","TK1925
","12/19/2017 00:00","01/29/2018 14:06",""
"112G08005-WE22","NEWPORT, GOULD ISLAND","G32-MW304SR-121817","12/18/2017 12:50","AQ","TK1925-
10DL","NM","","4.8","300.0","GENPREP","RES","12/19/2017 13:02","12/19/2017
23:39","KAS","COA","WET","","2","","","100.0","WG220806","WG220806","WG220806","WG220806","TK1925
","12/19/2017 00:00","01/29/2018 14:06",""
"112G08005-WE22","NEWPORT, GOULD ISLAND","G32-MW304SR-121817","12/18/2017 12:50","AQ","TK1925-
10DLB","NM","","4.8","300.0","GENPREP","RES","12/19/2017 13:02","12/19/2017
23:55","KAS","COA","WET","","10","","","100.0","WG220806","WG220806","WG220806","WG220806","TK192
5","12/19/2017 00:00","01/29/2018 14:06",""
"112G08005-WE22","NEWPORT, GOULD ISLAND","G32-MW306BR-121817","12/18/2017
10:50","AQ","TK1925-1DL","NM","","4.8","300.0","GENPREP","RES","12/19/2017 13:01","12/19/2017
21:49","KAS","COA","WET","","20","","","100.0","WG220806","WG220806","WG220806","WG220806","TK192

5","12/19/2017 00:00","01/29/2018 14:06",""
"112G08005-WE22","NEWPORT, GOULD ISLAND","DUP-121817","12/18/2017 00:00","AQ","TK1925-3","NM","","4.8","2320B","GENPREP","RES","12/28/2017 16:03","12/28/2017 16:11","KAS","COA","WET","","1","","","","100.0","WG220969","WG220969","WG220969","TK1925","12/19/2017 00:00","01/29/2018 14:06",""
"112G08005-WE22","NEWPORT, GOULD ISLAND","DUP-121817","12/18/2017 00:00","AQ","TK1925-3","NM","","4.8","8082A","3510C","RES","12/20/2017 08:03","12/25/2017 11:50","KAS","COA","WET","","1","","","","100.0","WG220411","WG220411","WG220411","TK1925","12/19/2017 00:00","01/29/2018 14:06",""
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"112G08005-WE22","NEWPORT, GOULD ISLAND","DUP-121817","12/18/2017 00:00","AQ","TK1925-3","NM","","4.8","8270D-SIM","3510C","RES","12/22/2017 09:03","12/26/2017 21:43","KAS","COA","WET","","1","","","","100.0","WG220582","WG220582","WG220582","TK1925","12/19/2017 00:00","01/29/2018 14:06",""
"112G08005-WE22","NEWPORT, GOULD ISLAND","DUP-121817","12/18/2017 00:00","AQ","TK1925-3DL","NM","","4.8","300.0","GENPREP","RES","12/19/2017 13:03","12/19/2017 22:05","KAS","COA","WET","","2","","","","100.0","WG220806","WG220806","WG220806","TK1925","12/19/2017 00:00","01/29/2018 14:06",""
"112G08005-WE22","NEWPORT, GOULD ISLAND","DUP-121817","12/18/2017 00:00","AQ","TK1925-3DLB","NM","","4.8","300.0","GENPREP","RES","12/19/2017 13:03","12/19/2017 22:21","KAS","COA","WET","","5","","","","100.0","WG220806","WG220806","WG220806","TK1925","12/19/2017 00:00","01/29/2018 14:06",""
"112G08005-WE22","NEWPORT, GOULD ISLAND","GI-MW400-121817","12/18/2017 10:30","AQ","TK1925-6","NM","","4.8","2320B","GENPREP","RES","12/28/2017 16:04","12/28/2017 16:16","KAS","COA","WET","","1","","","","100.0","WG220969","WG220969","WG220969","TK1925","12/19/2017 00:00","01/29/2018 14:06",""
"112G08005-WE22","NEWPORT, GOULD ISLAND","GI-MW400-121817","12/18/2017 10:30","AQ","TK1925-6","NM","","4.8","8082A","3510C","RES","12/20/2017 08:04","12/25/2017 12:10","KAS","COA","WET","","1","","","","100.0","WG220411","WG220411","WG220411","TK1925","12/19/2017 00:00","01/29/2018 14:06",""
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"112G08005-WE22","NEWPORT, GOULD ISLAND","GI-MW400-121817","12/18/2017 10:30","AQ","TK1925-6DL","NM","","4.8","300.0","GENPREP","RES","12/19/2017 13:04","12/19/2017 22:37","KAS","COA","WET","","2","","","","100.0","WG220806","WG220806","WG220806","TK1925","12/19/2017 00:00","01/29/2018 14:06",""
"112G08005-WE22","NEWPORT, GOULD ISLAND","GI-MW400-121817","12/18/2017 10:30","AQ","TK1925-6DLB","NM","","4.8","300.0","GENPREP","RES","12/19/2017 13:04","12/19/2017 22:52","KAS","COA","WET","","5","","","","100.0","WG220806","WG220806","WG220806","TK1925","12/19/2017 00:00","01/29/2018 14:06",""
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"112G08005-WE22","NEWPORT, GOULD ISLAND","G44S-MW202RR-121817","12/18/2017

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","12/19/2017 00:00","01/29/2018 14:06",""
"112G08005-WE22","NEWPORT, GOULD ISLAND","G44S-MW202RR-121817","12/18/2017
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","12/19/2017 00:00","01/29/2018 14:06",""
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","12/19/2017 00:00","01/29/2018 14:06",""
"112G08005-WE22","NEWPORT, GOULD ISLAND","G44S-MW202RR-121817","12/18/2017
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23:08","KAS","COA","WET","","100","","","","100.0","WG220806","WG220806","WG220806","WG220806","TK19
25","12/19/2017 00:00","01/29/2018 14:06",""
"112G08005-WE22","NEWPORT, GOULD ISLAND","G44S-MW202RR-121817","12/18/2017
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23:24","KAS","COA","WET","","2000","","","","100.0","WG220806","WG220806","WG220806","WG220806","TK1
925","12/19/2017 00:00","01/29/2018 14:06",""
"112G08005-WE22","NEWPORT, GOULD ISLAND","WG220411-1","","AQ","WG220411-
1","MB","","4.8","8082A","3510C","RES","12/20/2017 08:06","12/25/2017
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","12/20/2017 00:00","01/29/2018 14:06",""
"112G08005-WE22","NEWPORT, GOULD ISLAND","WG220411-2","","AQ","WG220411-
2","LCS","","4.8","8082A","3510C","RES","12/20/2017 08:07","12/25/2017
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","12/20/2017 00:00","01/29/2018 14:06",""
"112G08005-WE22","NEWPORT, GOULD ISLAND","WG220411-3","","AQ","WG220411-
3","LCS","","4.8","8082A","3510C","RES","12/20/2017 08:08","12/25/2017
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","12/20/2017 00:00","01/29/2018 14:06",""
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2","LCS","","4.8","300.0","GENPREP","RES","12/19/2017 11:40","12/19/2017
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","12/19/2017 00:00","01/29/2018 14:06",""
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12:50","AQ","WG220806-3","MS","","4.8","300.0","GENPREP","RES","12/19/2017 13:08","12/19/2017
18:15","KAS","COA","WET","","1","","","","100.0","WG220806","WG220806","WG220806","WG220806","TK1925

","12/19/2017 00:00","01/29/2018 14:06",""
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"112G08005-WE22","NEWPORT, GOULD ISLAND","WG220969-2","","AQ","WG220969-2","LCS","","4.8","2320B","GENPREP","RES","12/28/2017 15:47","12/28/2017 15:47","KAS","COA","WET","","1","","","","100.0","WG220969","WG220969","WG220969","WG220969","TK1925","12/28/2017 00:00","01/29/2018 14:06",""
"112G08005-WE22","NEWPORT, GOULD ISLAND","WG220989-1","","AQ","WG220989-1","LCS","","4.8","8260C","5030","RES","12/29/2017 09:37","12/29/2017 09:37","KAS","COA","WET","","1","","","","100.0","WG220989","WG220989","WG220989","WG220989","TK1925","12/29/2017 00:00","01/29/2018 14:06",""
"112G08005-WE22","NEWPORT, GOULD ISLAND","WG220989-2","","AQ","WG220989-2","MB","","4.8","8260C","5030","RES","12/29/2017 10:48","12/29/2017 10:48","KAS","COA","WET","","1","","","","100.0","WG220989","WG220989","WG220989","WG220989","TK1925","12/29/2017 00:00","01/29/2018 14:06",""

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.

DATA COMPLETENESS

The original data package did not include the compounds 1,2-dichloroethene and vinyl chloride for the VOC analyses as listed in the sampling and analysis plan. The laboratory was contacted and the data package was resubmitted with the correct VOC compound list.

LABORATORY METHOD/PREPARATION BLANKS

The following compound was detected in a PAH method blank at the maximum concentration indicated below:

<u>Compound</u>	<u>Concentration</u>	<u>Action Level</u>
Benzo(a)anthracene	0.078 ug/L	0.39 ug/L

An action level of 5X the maximum concentration was established to evaluate for blank contamination. Detected results less than the action level for benzo(a) anthracene were qualified as (U).

The following compounds were detected in a PAH method/field reagent blanks at the maximum concentration indicated below:

<u>Compound</u>	<u>Concentration</u>	<u>Action Level</u>
Pentadecafluorooctanoic acid (PFOA) ⁽¹⁾	0.80 ng/L	4.0 ng/L
Perfluorohexanesulfonic acid (PFHxS) ⁽²⁾	1.1 ng/L	5.5 ng/L
Perfluorooctane sulfonic acid (PFOS) ⁽²⁾	5.6 ng/L	28 ng/L

- ⁽¹⁾ Maximum concentration present in a laboratory method blank.
- ⁽²⁾ Maximum concentration present in a FRB.

An action level of 5X the maximum concentration was established to evaluate for blank contamination. Detected results less than the action levels for the aforementioned compounds were qualified as (U).

The above PFAS compounds detected as contaminants in the FRB and in the method blank exceed one-third of the method reporting limit. For this occurrence, the project Sampling and Analysis Plan (SAP) indicated that because the samples were non-drinking water samples, the affected analytes could be qualified. The qualifications were brought to the attention of the project manager and all affected analyte concentrations were well below the 70 ng/L action level in the SAP.

NOTES

All samples were analyzed at a 5X dilution for the total and dissolved metals analyses. Detection limits of the non-detected results were elevated.

The following analyte was detected in the preparation blanks at the following maximum concentration:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Reporting Limit (RL) > or <</u>
Alkalinity	0.51 mg/L	< RL

No validation actions were required as all sample results were greater than the reporting limit.

TO: S. PARKER
SDG: TK1925

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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: Contaminants were detected in the laboratory preparation and field reagent blanks.

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 ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $>40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $<30\%$
- Z = Uncertainty at 2 standard deviations is greater than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed
- Z3 = Tentatively Identified Compound aldol condensate
- Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
- Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

PROJ_NO: 08005-WE22 SDG: TK1925 FRACTION: OV MEDIA: WATER	NSAMPLE	DUP-121817			G32-MW304SR-121817			G32-MW306BR-121817			G44S-MW202RR-121817		
	LAB_ID	TK1925-3			TK1925-10			TK1925-1			TK1925-8		
	SAMP_DATE	12/18/2017			12/18/2017			12/18/2017			12/18/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	GI-MW400-121817											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
BENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
CIS-1,2-DICHLOROETHENE	1	U		2.2			1	U		1	U		
TETRACHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
TOTAL 1,2-DICHLOROETHENE	2	U		2.2			2	U		2	U		
TRANS-1,2-DICHLOROETHENE	1	U		1	U		1	U		1	U		
TRICHLOROETHENE	0.5	U		1.8			0.5	U		0.5	U		
VINYL CHLORIDE	2	U		0.66	J	P	2	U		2	U		

PROJ_NO: 08005-WE22 SDG: TK1925 FRACTION: OV MEDIA: WATER	NSAMPLE	GI-MW400-121817		
	LAB_ID	TK1925-6		
	SAMP_DATE	12/18/2017		
	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER	RESULT	VQL	QLCD	
BENZENE	0.5	U		
CIS-1,2-DICHLOROETHENE	1	U		
TETRACHLOROETHENE	0.5	U		
TOTAL 1,2-DICHLOROETHENE	2	U		
TRANS-1,2-DICHLOROETHENE	1	U		
TRICHLOROETHENE	0.5	U		
VINYL CHLORIDE	2	U		

PROJ_NO: 08005-WE22 SDG: TK1925 FRACTION: PAH MEDIA: WATER	NSAMPLE	DUP-121817			G32-MW304SR-121817			G32-MW306BR-121817			G44S-MW202RR-121817		
	LAB_ID	TK1925-3			TK1925-10			TK1925-1			TK1925-8		
	SAMP_DATE	12/18/2017			12/18/2017			12/18/2017			12/18/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	GI-MW400-121817											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
2-METHYLNAPHTHALENE	0.096	U		0.095	U		0.094	U		0.099	U		
BENZO(A)ANTHRACENE	0.054	U	A	0.058	U	A	0.12	U	A	0.058	U	A	
BENZO(A)PYRENE	0.096	U		0.095	U		0.084	J	P	0.099	U		
BENZO(B)FLUORANTHENE	0.096	U		0.095	U		0.11	J	P	0.099	U		
BENZO(G,H,I)PERYLENE	0.096	U		0.095	U		0.094	U		0.099	U		
BENZO(K)FLUORANTHENE	0.096	U		0.095	U		0.094	U		0.099	U		
CHRYSENE	0.096	U		0.095	U		0.094	U		0.099	U		
DIBENZO(A,H)ANTHRACENE	0.096	U		0.095	U		0.094	U		0.099	U		
FLUORANTHENE	0.096	U		0.095	U		0.094	U		0.099	U		
INDENO(1,2,3-CD)PYRENE	0.096	U		0.095	U		0.094	U		0.099	U		
NAPHTHALENE	0.096	U		0.095	U		0.094	U		0.099	U		
PENTACHLOROPHENOL	0.48	U		0.48	U		0.47	U		0.5	U		
PHENANTHRENE	0.096	U		0.095	U		0.094	U		0.099	U		
PYRENE	0.096	U		0.095	U		0.094	U		0.099	U		

PROJ_NO: 08005-WE22 SDG: TK1925 FRACTION: PAH MEDIA: WATER	NSAMPLE	GI-MW400-121817		
	LAB_ID	TK1925-6		
	SAMP_DATE	12/18/2017		
	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER	RESULT	VQL	QLCD	
2-METHYLNAPHTHALENE	0.094	U		
BENZO(A)ANTHRACENE	0.057	U	A	
BENZO(A)PYRENE	0.094	U		
BENZO(B)FLUORANTHENE	0.094	U		
BENZO(G,H,I)PERYLENE	0.094	U		
BENZO(K)FLUORANTHENE	0.094	U		
CHRYSENE	0.094	U		
DIBENZO(A,H)ANTHRACENE	0.094	U		
FLUORANTHENE	0.094	U		
INDENO(1,2,3-CD)PYRENE	0.094	U		
NAPHTHALENE	0.094	U		
PENTACHLOROPHENOL	0.47	U		
PHENANTHRENE	0.094	U		
PYRENE	0.094	U		

PROJ_NO: 08005-WE22 SDG: TK1925 FRACTION: PCB MEDIA: WATER	NSAMPLE	DUP-121817			G32-MW304SR-121817			G32-MW306BR-121817			G44S-MW202RR-121817		
	LAB_ID	TK1925-3			TK1925-10			TK1925-1			TK1925-8		
	SAMP_DATE	12/18/2017			12/18/2017			12/18/2017			12/18/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	GI-MW400-121817											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016	0.24	U		0.24	U		0.24	U		0.24	U		
AROCLOR-1221	0.24	U		0.24	U		0.24	U		0.24	U		
AROCLOR-1232	0.24	U		0.24	U		0.24	U		0.24	U		
AROCLOR-1242	0.24	U		0.24	U		0.24	U		0.24	U		
AROCLOR-1248	0.24	U		0.24	U		0.24	U		0.24	U		
AROCLOR-1254	0.24	U		0.24	U		0.24	U		0.24	U		
AROCLOR-1260	0.24	U		0.24	U		0.24	U		0.24	U		
AROCLOR-1262	0.24	U		0.24	U		0.24	U		0.24	U		
AROCLOR-1268	0.24	U		0.24	U		0.24	U		0.24	U		
TOTAL AROCLOR	2.2	U		2.1	U		2.1	U		2.2	U		

PROJ_NO: 08005-WE22 SDG: TK1925 FRACTION: PCB MEDIA: WATER	NSAMPLE	GI-MW400-121817		
	LAB_ID	TK1925-6		
	SAMP_DATE	12/18/2017		
	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER	RESULT	VQL	QLCD	
AROCLOR-1016	0.24	U		
AROCLOR-1221	0.24	U		
AROCLOR-1232	0.24	U		
AROCLOR-1242	0.24	U		
AROCLOR-1248	0.24	U		
AROCLOR-1254	0.24	U		
AROCLOR-1260	0.24	U		
AROCLOR-1262	0.24	U		
AROCLOR-1268	0.24	U		
TOTAL AROCLOR	2.1	U		

PROJ_NO: 08005-WE22 SDG: TK1925 FRACTION: M MEDIA: WATER	NSAMPLE	DUP-121817			G32-MW304SR-121817			G32-MW306BR-121817			G44S-MW202RR-121817		
	LAB_ID	TK1925-003			TK1925-010			TK1925-001			TK1925-008		
	SAMP_DATE	12/18/2017			12/18/2017			12/18/2017			12/18/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	GI-MW400-121817											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
ARSENIC	4	U		4	U		4	U		4.9	J	P	
CADMIUM	0.2	U		0.079	J	P	0.2	U		0.2	U		
LEAD	0.5	U		0.084	J	P	0.61	J	P	1.53			
MANGANESE	235			1950			140			2910			

PROJ_NO: 08005-WE22 SDG: TK1925 FRACTION: M MEDIA: WATER	NSAMPLE	GI-MW400-121817		
	LAB_ID	TK1925-006		
	SAMP_DATE	12/18/2017		
	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER	RESULT	VQL	QLCD	
ARSENIC	4	U		
CADMIUM	0.2	U		
LEAD	0.089	J	P	
MANGANESE	229			

PROJ_NO: 08005-WE22 SDG: TK1925 FRACTION: MF MEDIA: WATER	NSAMPLE	DUP-121817			G32-MW304SR-121817			G32-MW306BR-121817			G44S-MW202RR-121817		
	LAB_ID	TK1925-004			TK1925-011			TK1925-002			TK1925-009		
	SAMP_DATE	12/18/2017			12/18/2017			12/18/2017			12/18/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	GI-MW400-121817											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
ARSENIC	4	U		4	U		4	U		6.6			
CADMIUM	0.2	U		0.053	J	P	0.2	U		0.2	U		
LEAD	0.5	U		0.28	J	P	0.12	J	P	0.5	U		
MANGANESE	235			1720			37.8			2960			

PROJ_NO: 08005-WE22 SDG: TK1925 FRACTION: MF MEDIA: WATER	NSAMPLE	GI-MW400-121817		
	LAB_ID	TK1925-007		
	SAMP_DATE	12/18/2017		
	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER	RESULT	VQL	QLCD	
ARSENIC	4	U		
CADMIUM	0.031	J	P	
LEAD	0.5	U		
MANGANESE	235			

PROJ_NO: 08005-WE22 SDG: TK1925 FRACTION: MISC MEDIA: WATER	NSAMPLE	DUP-121817			G32-MW304SR-121817			G32-MW306BR-121817			G44S-MW202RR-121817		
	LAB_ID	TK1925-3			TK1925-10			TK1925-1			TK1925-8		
	SAMP_DATE	12/18/2017			12/18/2017			12/18/2017			12/18/2017		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
ALKALINITY	360			160			75			94			
CHLORIDE	19			58			190			11000			
NITRATE-N	9.9			1.3			0.042	J	P	0.025	U		
SULFATE	28			26			16			1600			

PROJ_NO: 08005-WE22 SDG: TK1925 FRACTION: MISC MEDIA: WATER	NSAMPLE	GI-MW400-121817		
	LAB_ID	TK1925-6		
	SAMP_DATE	12/18/2017		
	QC_TYPE	NM		
	UNITS	MG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER	RESULT	VQL	QLCD	
ALKALINITY	350			
CHLORIDE	19			
NITRATE-N	9.7			
SULFATE	28			

Appendix B

Results as Reported by the Laboratory

Report of Analytical Results

Client: Tetra Tech NUS, Inc.

Lab ID: TK1925-1

Client ID: G32-MW306BR-121817

Project: NAVSTA Newport, Gould Island CTO-

SDG: TK1925

Lab File ID: T3892.D

Sample Date: 18-DEC-17

Received Date: 19-DEC-17

Extract Date: 29-DEC-17

Extracted By: TTC/H

Extraction Method: SW846 5030

Lab Prep Batch: WG220989

Analysis Date: 29-DEC-17

Analyst: TTC/HG

Analysis Method: SW846 8260C

Matrix: AQ

% Solids: NA

Report Date: 25-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	2.0	ug/L	1	1	1.0	0.25	2.0
trans-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.25	1.0
cis-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.21	1.0
1,2-Dichloroethylene (Total)	U	2.0	ug/L	1	1	1.0	0.21	2.0
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		99.9	%					
Toluene-d8		101.	%					
1,2-Dichloroethane-d4		108.	%					
Dibromofluoromethane		102.	%					

Report of Analytical Results

Client: Tetra Tech NUS, Inc.

Lab ID: TK1925-3

Client ID: DUP-121817

Project: NAVSTA Newport, Gould Island CTO-

SDG: TK1925

Lab File ID: T3893.D

Sample Date: 18-DEC-17

Received Date: 19-DEC-17

Extract Date: 29-DEC-17

Extracted By: TTC/H

Extraction Method: SW846 5030

Lab Prep Batch: WG220989

Analysis Date: 29-DEC-17

Analyst: TTC/HG

Analysis Method: SW846 8260C

Matrix: AQ

% Solids: NA

Report Date: 25-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	2.0	ug/L	1	1	1.0	0.25	2.0
trans-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.25	1.0
cis-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.21	1.0
1,2-Dichloroethylene (Total)	U	2.0	ug/L	1	1	1.0	0.21	2.0
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		99.9	%					
Toluene-d8		103.	%					
1,2-Dichloroethane-d4		109.	%					
Dibromofluoromethane		100.	%					

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1925-6
Client ID: GI-MW400-121817
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1925
Lab File ID: T3894.D

Sample Date: 18-DEC-17
Received Date: 19-DEC-17
Extract Date: 29-DEC-17
Extracted By: TTC/H
Extraction Method: SW846 5030
Lab Prep Batch: WG220989

Analysis Date: 29-DEC-17
Analyst: TTC/HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	2.0	ug/L	1	1	1.0	0.25	2.0
trans-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.25	1.0
cis-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.21	1.0
1,2-Dichloroethylene (Total)	U	2.0	ug/L	1	1	1.0	0.21	2.0
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		98.7	%					
Toluene-d8		101.	%					
1,2-Dichloroethane-d4		111.	%					
Dibromofluoromethane		101.	%					

Report of Analytical Results

Client: Tetra Tech NUS, Inc.

Lab ID: TK1925-8

Client ID: G44S-MW202RR-121817

Project: NAVSTA Newport, Gould Island CTO-

SDG: TK1925

Lab File ID: T3895.D

Sample Date: 18-DEC-17

Received Date: 19-DEC-17

Extract Date: 29-DEC-17

Extracted By: TTC/H

Extraction Method: SW846 5030

Lab Prep Batch: WG220989

Analysis Date: 29-DEC-17

Analyst: TTC/HG

Analysis Method: SW846 8260C

Matrix: AQ

% Solids: NA

Report Date: 25-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	2.0	ug/L	1	1	1.0	0.25	2.0
trans-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.25	1.0
cis-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.21	1.0
1,2-Dichloroethylene (Total)	U	2.0	ug/L	1	1	1.0	0.21	2.0
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		102.	%					
Toluene-d8		103.	%					
1,2-Dichloroethane-d4		114.	%					
Dibromofluoromethane		103.	%					

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1925-10
Client ID: G32-MW304SR-121817
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1925
Lab File ID: T3896.D

Sample Date: 18-DEC-17
Received Date: 19-DEC-17
Extract Date: 29-DEC-17
Extracted By: TTC/H
Extraction Method: SW846 5030
Lab Prep Batch: WG220989

Analysis Date: 29-DEC-17
Analyst: TTC/HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	J	0.66	ug/L	1	1	1.0	0.25	2.0
trans-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.25	1.0
cis-1,2-Dichloroethene		2.2	ug/L	1	.5	0.50	0.21	1.0
1,2-Dichloroethylene (Total)		2.2	ug/L	1	1	1.0	0.21	2.0
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Trichloroethene		1.8	ug/L	1	1	1.0	0.28	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		106.	%					
Toluene-d8		99.2	%					
1,2-Dichloroethane-d4		110.	%					
Dibromofluoromethane		103.	%					

Report of Analytical Results

Client: Tetra Tech NUS, Inc.

Lab ID: TK1925-1

Client ID: G32-MW306BR-121817

Project: NAVSTA Newport, Gould Island CTO-

SDG: TK1925

Lab File ID: U0131.D

Sample Date: 18-DEC-17

Received Date: 19-DEC-17

Extract Date: 22-DEC-17

Extracted By: JMS

Extraction Method: SW846 3510C

Lab Prep Batch: WG220582

Analysis Date: 26-DEC-17

Analyst: JCG

Analysis Method: SW846 M8270D SIM

Matrix: AQ

% Solids: NA

Report Date: 02-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pentachlorophenol	U	0.47	ug/L	1	1	0.94	0.31	0.47
Naphthalene	U	0.094	ug/L	1	.2	0.19	0.060	0.094
2-Methylnaphthalene	U	0.094	ug/L	1	.2	0.19	0.073	0.094
Phenanthrene	U	0.094	ug/L	1	.2	0.19	0.048	0.094
Fluoranthene	U	0.094	ug/L	1	.2	0.19	0.069	0.094
Pyrene	U	0.094	ug/L	1	.2	0.19	0.056	0.094
Benzo(a)anthracene	J	0.12	ug/L	1	.2	0.19	0.043	0.094
Chrysene	U	0.094	ug/L	1	.2	0.19	0.034	0.094
Benzo(b)Fluoranthene	J	0.11	ug/L	1	.2	0.19	0.084	0.094
Benzo(k)fluoranthene	U	0.094	ug/L	1	.2	0.19	0.046	0.094
Benzo(a)pyrene	J	0.084	ug/L	1	.2	0.19	0.062	0.094
Indeno(1,2,3-cd)pyrene	U	0.094	ug/L	1	.2	0.19	0.049	0.094
Dibenzo(a,h)anthracene	U	0.094	ug/L	1	.2	0.19	0.066	0.094
Benzo(g,h,i)perylene	U	0.094	ug/L	1	.2	0.19	0.061	0.094
2-Methylnaphthalene-D10		77.2	%					
2,4-Dibromophenol		26.5	%					
Fluorene-D10		82.2	%					
Pyrene-D10		109.	%					

Report of Analytical Results

Client: Tetra Tech NUS, Inc.

Lab ID: TK1925-3

Client ID: DUP-121817

Project: NAVSTA Newport, Gould Island CTO-

SDG: TK1925

Lab File ID: U0132.D

Sample Date: 18-DEC-17

Received Date: 19-DEC-17

Extract Date: 22-DEC-17

Extracted By: JMS

Extraction Method: SW846 3510C

Lab Prep Batch: WG220582

Analysis Date: 26-DEC-17

Analyst: JCG

Analysis Method: SW846 M8270D SIM

Matrix: AQ

% Solids: NA

Report Date: 02-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pentachlorophenol	U	0.48	ug/L	1	1	0.96	0.32	0.48
Naphthalene	U	0.096	ug/L	1	.2	0.19	0.062	0.096
2-Methylnaphthalene	U	0.096	ug/L	1	.2	0.19	0.074	0.096
Phenanthrene	U	0.096	ug/L	1	.2	0.19	0.049	0.096
Fluoranthene	U	0.096	ug/L	1	.2	0.19	0.070	0.096
Pyrene	U	0.096	ug/L	1	.2	0.19	0.057	0.096
Benzo(a)anthracene	J	0.054	ug/L	1	.2	0.19	0.044	0.096
Chrysene	U	0.096	ug/L	1	.2	0.19	0.035	0.096
Benzo(b)Fluoranthene	U	0.096	ug/L	1	.2	0.19	0.086	0.096
Benzo(k)fluoranthene	U	0.096	ug/L	1	.2	0.19	0.047	0.096
Benzo(a)pyrene	U	0.096	ug/L	1	.2	0.19	0.063	0.096
Indeno(1,2,3-cd)pyrene	U	0.096	ug/L	1	.2	0.19	0.050	0.096
Dibenzo(a,h)anthracene	U	0.096	ug/L	1	.2	0.19	0.067	0.096
Benzo(g,h,i)perylene	U	0.096	ug/L	1	.2	0.19	0.062	0.096
2-Methylnaphthalene-D10		65.7	%					
2,4-Dibromophenol		24.5	%					
Fluorene-D10		69.5	%					
Pyrene-D10		99.7	%					

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1925-6
Client ID: GI-MW400-121817
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1925
Lab File ID: U0133.D

Sample Date: 18-DEC-17
Received Date: 19-DEC-17
Extract Date: 22-DEC-17
Extracted By: JMS
Extraction Method: SW846 3510C
Lab Prep Batch: WG220582

Analysis Date: 26-DEC-17
Analyst: JCG
Analysis Method: SW846 M8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 02-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pentachlorophenol	U	0.47	ug/L	1	1	0.94	0.31	0.47
Naphthalene	U	0.094	ug/L	1	.2	0.19	0.060	0.094
2-Methylnaphthalene	U	0.094	ug/L	1	.2	0.19	0.073	0.094
Phenanthrene	U	0.094	ug/L	1	.2	0.19	0.048	0.094
Fluoranthene	U	0.094	ug/L	1	.2	0.19	0.069	0.094
Pyrene	U	0.094	ug/L	1	.2	0.19	0.056	0.094
Benzo(a)anthracene	J	0.057	ug/L	1	.2	0.19	0.043	0.094
Chrysene	U	0.094	ug/L	1	.2	0.19	0.034	0.094
Benzo(b)Fluoranthene	U	0.094	ug/L	1	.2	0.19	0.084	0.094
Benzo(k)fluoranthene	U	0.094	ug/L	1	.2	0.19	0.046	0.094
Benzo(a)pyrene	U	0.094	ug/L	1	.2	0.19	0.062	0.094
Indeno(1,2,3-cd)pyrene	U	0.094	ug/L	1	.2	0.19	0.049	0.094
Dibenzo(a,h)anthracene	U	0.094	ug/L	1	.2	0.19	0.066	0.094
Benzo(g,h,i)perylene	U	0.094	ug/L	1	.2	0.19	0.061	0.094
2-Methylnaphthalene-D10		67.4	%					
2,4-Dibromophenol		27.2	%					
Fluorene-D10		68.5	%					
Pyrene-D10		87.5	%					

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1925-8
Client ID: G44S-MW202RR-121817
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1925
Lab File ID: U0134.D

Sample Date: 18-DEC-17
Received Date: 19-DEC-17
Extract Date: 22-DEC-17
Extracted By: JMS
Extraction Method: SW846 3510C
Lab Prep Batch: WG220582

Analysis Date: 26-DEC-17
Analyst: JCG
Analysis Method: SW846 M8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 02-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pentachlorophenol	U	0.50	ug/L	1	1	0.99	0.33	0.50
Naphthalene	U	0.099	ug/L	1	.2	0.20	0.063	0.099
2-Methylnaphthalene	U	0.099	ug/L	1	.2	0.20	0.076	0.099
Phenanthrene	U	0.099	ug/L	1	.2	0.20	0.050	0.099
Fluoranthene	U	0.099	ug/L	1	.2	0.20	0.072	0.099
Pyrene	U	0.099	ug/L	1	.2	0.20	0.058	0.099
Benzo(a)anthracene	J	0.058	ug/L	1	.2	0.20	0.046	0.099
Chrysene	U	0.099	ug/L	1	.2	0.20	0.036	0.099
Benzo(b)Fluoranthene	U	0.099	ug/L	1	.2	0.20	0.088	0.099
Benzo(k)fluoranthene	U	0.099	ug/L	1	.2	0.20	0.048	0.099
Benzo(a)pyrene	U	0.099	ug/L	1	.2	0.20	0.065	0.099
Indeno(1,2,3-cd)pyrene	U	0.099	ug/L	1	.2	0.20	0.051	0.099
Dibenzo(a,h)anthracene	U	0.099	ug/L	1	.2	0.20	0.069	0.099
Benzo(g,h,i)perylene	U	0.099	ug/L	1	.2	0.20	0.064	0.099
2-Methylnaphthalene-D10		59.8	%					
2,4-Dibromophenol		28.1	%					
Fluorene-D10		71.4	%					
Pyrene-D10		94.9	%					

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1925-10
Client ID: G32-MW304SR-121817
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1925
Lab File ID: U0135.D

Sample Date: 18-DEC-17
Received Date: 19-DEC-17
Extract Date: 22-DEC-17
Extracted By: JMS
Extraction Method: SW846 3510C
Lab Prep Batch: WG220582

Analysis Date: 26-DEC-17
Analyst: JCG
Analysis Method: SW846 M8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 02-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pentachlorophenol	U	0.48	ug/L	1	1	0.95	0.31	0.48
Naphthalene	U	0.095	ug/L	1	.2	0.19	0.061	0.095
2-Methylnaphthalene	U	0.095	ug/L	1	.2	0.19	0.073	0.095
Phenanthrene	U	0.095	ug/L	1	.2	0.19	0.048	0.095
Fluoranthene	U	0.095	ug/L	1	.2	0.19	0.070	0.095
Pyrene	U	0.095	ug/L	1	.2	0.19	0.056	0.095
Benzo(a)anthracene	J	0.058	ug/L	1	.2	0.19	0.044	0.095
Chrysene	U	0.095	ug/L	1	.2	0.19	0.034	0.095
Benzo(b)Fluoranthene	U	0.095	ug/L	1	.2	0.19	0.085	0.095
Benzo(k)fluoranthene	U	0.095	ug/L	1	.2	0.19	0.047	0.095
Benzo(a)pyrene	U	0.095	ug/L	1	.2	0.19	0.063	0.095
Indeno(1,2,3-cd)pyrene	U	0.095	ug/L	1	.2	0.19	0.050	0.095
Dibenzo(a,h)anthracene	U	0.095	ug/L	1	.2	0.19	0.067	0.095
Benzo(g,h,i)perylene	U	0.095	ug/L	1	.2	0.19	0.062	0.095
2-Methylnaphthalene-D10		64.3	%					
2,4-Dibromophenol		23.9	%					
Fluorene-D10		63.8	%					
Pyrene-D10		93.8	%					

Report of Analytical Results

Client: Tetra Tech NUS, Inc.

Lab ID: TK1925-1

Client ID: G32-MW306BR-121817

Project: NAVSTA Newport, Gould Island CTO-

SDG: TK1925

Lab File ID: 8KL00566.D

Sample Date: 18-DEC-17

Received Date: 19-DEC-17

Extract Date: 20-DEC-17

Extracted By: KF

Extraction Method: SW846 3510C

Lab Prep Batch: WG220411

Analysis Date: 25-DEC-17

Analyst: BF

Analysis Method: SW846 8082A

Matrix: AQ

% Solids: NA

Report Date: 29-DEC-17

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	0.24	ug/L	1	.5	0.47	0.14	0.24
Aroclor-1221	U	0.24	ug/L	1	.5	0.47	0.19	0.24
Aroclor-1232	U	0.24	ug/L	1	.5	0.47	0.084	0.24
Aroclor-1242	U	0.24	ug/L	1	.5	0.47	0.17	0.24
Aroclor-1248	U	0.24	ug/L	1	.5	0.47	0.19	0.24
Aroclor-1254	U	0.24	ug/L	1	.5	0.47	0.077	0.24
Aroclor-1260	U	0.24	ug/L	1	.5	0.47	0.16	0.24
Aroclor-1262	U	0.24	ug/L	1	.5	0.47	0.062	0.24
Aroclor-1268	U	0.24	ug/L	1	.5	0.47	0.068	0.24
Total PCBs	U	2.1	ug/L	1	4.5	4.2	0.062	2.1
Tetrachloro-M-Xylene		97.2	%					
Decachlorobiphenyl		74.5	%					

Report of Analytical Results

Client: Tetra Tech NUS, Inc.

Lab ID: TK1925-3

Client ID: DUP-121817

Project: NAVSTA Newport, Gould Island CTO-

SDG: TK1925

Lab File ID: 8KL00567.D

Sample Date: 18-DEC-17

Received Date: 19-DEC-17

Extract Date: 20-DEC-17

Extracted By: KF

Extraction Method: SW846 3510C

Lab Prep Batch: WG220411

Analysis Date: 25-DEC-17

Analyst: BF

Analysis Method: SW846 8082A

Matrix: AQ

% Solids: NA

Report Date: 29-DEC-17

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	0.24	ug/L	1	.5	0.48	0.14	0.24
Aroclor-1221	U	0.24	ug/L	1	.5	0.48	0.19	0.24
Aroclor-1232	U	0.24	ug/L	1	.5	0.48	0.086	0.24
Aroclor-1242	U	0.24	ug/L	1	.5	0.48	0.17	0.24
Aroclor-1248	U	0.24	ug/L	1	.5	0.48	0.19	0.24
Aroclor-1254	U	0.24	ug/L	1	.5	0.48	0.079	0.24
Aroclor-1260	U	0.24	ug/L	1	.5	0.48	0.16	0.24
Aroclor-1262	U	0.24	ug/L	1	.5	0.48	0.063	0.24
Aroclor-1268	U	0.24	ug/L	1	.5	0.48	0.069	0.24
Total PCBs	U	2.2	ug/L	1	4.5	4.3	0.063	2.2
Tetrachloro-M-Xylene		98.8	%					
Decachlorobiphenyl		105.	%					

Report of Analytical Results

Client: Tetra Tech NUS, Inc.

Lab ID: TK1925-6

Client ID: GI-MW400-121817

Project: NAVSTA Newport, Gould Island CTO-

SDG: TK1925

Lab File ID: 8KL00568.D

Sample Date: 18-DEC-17

Received Date: 19-DEC-17

Extract Date: 20-DEC-17

Extracted By: KF

Extraction Method: SW846 3510C

Lab Prep Batch: WG220411

Analysis Date: 25-DEC-17

Analyst: BF

Analysis Method: SW846 8082A

Matrix: AQ

% Solids: NA

Report Date: 29-DEC-17

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	0.24	ug/L	1	.5	0.48	0.14	0.24
Aroclor-1221	U	0.24	ug/L	1	.5	0.48	0.19	0.24
Aroclor-1232	U	0.24	ug/L	1	.5	0.48	0.085	0.24
Aroclor-1242	U	0.24	ug/L	1	.5	0.48	0.17	0.24
Aroclor-1248	U	0.24	ug/L	1	.5	0.48	0.19	0.24
Aroclor-1254	U	0.24	ug/L	1	.5	0.48	0.078	0.24
Aroclor-1260	U	0.24	ug/L	1	.5	0.48	0.16	0.24
Aroclor-1262	U	0.24	ug/L	1	.5	0.48	0.063	0.24
Aroclor-1268	U	0.24	ug/L	1	.5	0.48	0.068	0.24
Total PCBs	U	2.1	ug/L	1	4.5	4.3	0.063	2.1
Tetrachloro-M-Xylene		83.8	%					
Decachlorobiphenyl		91.8	%					

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1925-8
Client ID: G44S-MW202RR-121817
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1925
Lab File ID: 8KL00569.D

Sample Date: 18-DEC-17
Received Date: 19-DEC-17
Extract Date: 20-DEC-17
Extracted By: KF
Extraction Method: SW846 3510C
Lab Prep Batch: WG220411

Analysis Date: 25-DEC-17
Analyst: BF
Analysis Method: SW846 8082A
Matrix: AQ
% Solids: NA
Report Date: 29-DEC-17

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	0.24	ug/L	1	.5	0.48	0.14	0.24
Aroclor-1221	U	0.24	ug/L	1	.5	0.48	0.19	0.24
Aroclor-1232	U	0.24	ug/L	1	.5	0.48	0.086	0.24
Aroclor-1242	U	0.24	ug/L	1	.5	0.48	0.17	0.24
Aroclor-1248	U	0.24	ug/L	1	.5	0.48	0.19	0.24
Aroclor-1254	U	0.24	ug/L	1	.5	0.48	0.079	0.24
Aroclor-1260	U	0.24	ug/L	1	.5	0.48	0.16	0.24
Aroclor-1262	U	0.24	ug/L	1	.5	0.48	0.063	0.24
Aroclor-1268	U	0.24	ug/L	1	.5	0.48	0.069	0.24
Total PCBs	U	2.2	ug/L	1	4.5	4.3	0.063	2.2
Tetrachloro-M-Xylene		82.4	%					
Decachlorobiphenyl		75.9	%					

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: TK1925-10
Client ID: G32-MW304SR-121817
Project: NAVSTA Newport, Gould Island CTO-
SDG: TK1925
Lab File ID: 8KL00570.D

Sample Date: 18-DEC-17
Received Date: 19-DEC-17
Extract Date: 20-DEC-17
Extracted By: KF
Extraction Method: SW846 3510C
Lab Prep Batch: WG220411

Analysis Date: 25-DEC-17
Analyst: BF
Analysis Method: SW846 8082A
Matrix: AQ
% Solids: NA
Report Date: 29-DEC-17

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	0.24	ug/L	1	.5	0.48	0.14	0.24
Aroclor-1221	U	0.24	ug/L	1	.5	0.48	0.19	0.24
Aroclor-1232	U	0.24	ug/L	1	.5	0.48	0.085	0.24
Aroclor-1242	U	0.24	ug/L	1	.5	0.48	0.17	0.24
Aroclor-1248	U	0.24	ug/L	1	.5	0.48	0.19	0.24
Aroclor-1254	U	0.24	ug/L	1	.5	0.48	0.078	0.24
Aroclor-1260	U	0.24	ug/L	1	.5	0.48	0.16	0.24
Aroclor-1262	U	0.24	ug/L	1	.5	0.48	0.063	0.24
Aroclor-1268	U	0.24	ug/L	1	.5	0.48	0.068	0.24
Total PCBs	U	2.1	ug/L	1	4.5	4.3	0.063	2.1
Tetrachloro-M-Xylene		73.8	%					
Decachlorobiphenyl		80.6	%					

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: G32-MW306BR-121817

Matrix: WATER

SDG Name: TK1925

Percent Solids: 0.00

Lab Sample ID: TK1925-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED		
							LOQ	MDL	LOD
7440-38-2	ARSENIC, TOTAL	4.0	U		MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, TOTAL	0.20	U		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, TOTAL	0.61	J		MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, TOTAL	140			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: G32-MW306BR-121817

Matrix: WATER

SDG Name: TK1925

Percent Solids: 0.00

Lab Sample ID: TK1925-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED		
							LOQ	MDL	LOD
7440-38-2	ARSENIC, DISSOLVED	4.0	U		MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, DISSOLVED	0.20	U		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, DISSOLVED	0.12	J		MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, DISSOLVED	37.8			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: DUP-121817

Matrix: WATER

SDG Name: TK1925

Percent Solids: 0.00

Lab Sample ID: TK1925-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED		
							LOQ	MDL	LOD
7440-38-2	ARSENIC, TOTAL	4.0	U		MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, TOTAL	0.20	U		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, TOTAL	0.50	U		MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, TOTAL	235			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: DUP-121817

Matrix: WATER

SDG Name: TK1925

Percent Solids: 0.00

Lab Sample ID: TK1925-004

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED		
							LOQ	MDL	LOD
7440-38-2	ARSENIC, DISSOLVED	4.0	U		MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, DISSOLVED	0.20	U		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, DISSOLVED	0.50	U		MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, DISSOLVED	235			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: GI-MW400-121817

Matrix: WATER

SDG Name: TK1925

Percent Solids: 0.00

Lab Sample ID: TK1925-006

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED		
							LOQ	MDL	LOD
7440-38-2	ARSENIC, TOTAL	4.0	U		MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, TOTAL	0.20	U		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, TOTAL	0.089	J		MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, TOTAL	229			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: GI-MW400-121817

Matrix: WATER

SDG Name: TK1925

Percent Solids: 0.00

Lab Sample ID: TK1925-007

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED		
							LOQ	MDL	LOD
7440-38-2	ARSENIC, DISSOLVED	4.0	U		MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, DISSOLVED	0.031	J		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, DISSOLVED	0.50	U		MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, DISSOLVED	235			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: G44S-MW202RR-121817

Matrix: WATER

SDG Name: TK1925

Percent Solids: 0.00

Lab Sample ID: TK1925-008

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED		
							LOQ	MDL	LOD
7440-38-2	ARSENIC, TOTAL	4.9	J		MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, TOTAL	0.20	U		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, TOTAL	1.53			MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, TOTAL	2910			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: G44S-MW202RR-121817

Matrix: WATER

SDG Name: TK1925

Percent Solids: 0.00

Lab Sample ID: TK1925-009

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED		
							LOQ	MDL	LOD
7440-38-2	ARSENIC, DISSOLVED	6.6			MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, DISSOLVED	0.20	U		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, DISSOLVED	0.50	U		MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, DISSOLVED	2960			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: G32-MW304SR-121817

Matrix: WATER

SDG Name: TK1925

Percent Solids: 0.00

Lab Sample ID: TK1925-010

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED		
							LOQ	MDL	LOD
7440-38-2	ARSENIC, TOTAL	4.0	U		MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, TOTAL	0.079	J		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, TOTAL	0.084	J		MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, TOTAL	1950			MS	5	2.0	0.35	1.0

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: G32-MW304SR-121817

Matrix: WATER

SDG Name: TK1925

Percent Solids: 0.00

Lab Sample ID: TK1925-011

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED		
							LOQ	MDL	LOD
7440-38-2	ARSENIC, DISSOLVED	4.0	U		MS	5	5.0	2.3	4.0
7440-43-9	CADMIUM, DISSOLVED	0.053	J		MS	5	1.0	0.029	0.20
7439-92-1	LEAD, DISSOLVED	0.28	J		MS	5	1.0	0.075	0.50
7439-96-5	MANGANESE, DISSOLVED	1720			MS	5	2.0	0.35	1.0

Comments:

Report of Analytical Results

Client: Michael Horton
Tetra Tech Inc.
5 Industrial Way
Salem, NH 03079

Lab Sample ID: TK1925-1
Report Date: 29-DEC-17
Client PO: PO:1132379, PN:112G0
Project: NAVSTA Newport, Goul
SDG: TK1925

Sample Description

G32-MW306BR-121817

Matrix Date Sampled Date Received
AQ 18-DEC-17 10:50:00 19-DEC-17

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Alkalinity	75. mg/L	5.0	0.23	4.0	STDM 2320B	WG220969	28-DEC-17 16:08:30	N/A	N/A	
Chloride	190 mg/L	40.	2.0	20.	EPA 300.0	WG220806	19-DEC-17 21:49:00	E300.0	N/A	
Nitrate as N	10.042 mg/L	0.050	.0174	0.025	EPA 300.0	WG220806	19-DEC-17 16:56:00	E300.0	N/A	
Sulfate	16 mg/L	1.0	0.064	0.50	EPA 300.0	WG220806	19-DEC-17 16:56:00	E300.0	N/A	

Report of Analytical Results

Client: Michael Horton
Tetra Tech Inc.
5 Industrial Way
Salem, NH 03079

Lab Sample ID: TK1925-3
Report Date: 29-DEC-17
Client PO: PO:1132379, PN:112G0
Project: NAVSTA Newport, Goul
SDG: TK1925

Sample Description

DUP-121817

Matrix Date Sampled Date Received
AQ 18-DEC-17 00:00:00 19-DEC-17

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Alkalinity	360 mg/L	5.0	0.23	4.0	STDM 2320B	WG220969	28-DEC-17 16:11:17	N/A	N/A	
Chloride	19 mg/L	4.0	0.20	2.0	EPA 300.0	WG220806	19-DEC-17 22:05:00	E300.0	N/A	
Nitrate as N	9.9 mg/L	0.25	0.087	0.12	EPA 300.0	WG220806	19-DEC-17 22:21:00	E300.0	N/A	
Sulfate	28 mg/L	2.0	0.13	1.0	EPA 300.0	WG220806	19-DEC-17 22:05:00	E300.0	N/A	

Report of Analytical Results

Client: Michael Horton
Tetra Tech Inc.
5 Industrial Way
Salem, NH 03079

Lab Sample ID: TK1925-6
Report Date: 29-DEC-17
Client PO: PO:1132379, PN:112G0
Project: NAVSTA Newport, Goul
SDG: TK1925

Sample Description

GI-MW400-121817

Matrix Date Sampled Date Received
AQ 18-DEC-17 10:30:00 19-DEC-17

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Alkalinity	350 mg/L	5.0	0.23	4.0	STDM 2320B	WG220969	28-DEC-17 16:16:15	N/A	N/A	
Chloride	19 mg/L	4.0	0.20	2.0	EPA 300.0	WG220806	19-DEC-17 22:37:00	E300.0	N/A	
Nitrate as N	9.7 mg/L	0.25	0.087	0.12	EPA 300.0	WG220806	19-DEC-17 22:52:00	E300.0	N/A	
Sulfate	28 mg/L	2.0	0.13	1.0	EPA 300.0	WG220806	19-DEC-17 22:37:00	E300.0	N/A	

Report of Analytical Results

Client: Michael Horton
Tetra Tech Inc.
5 Industrial Way
Salem, NH 03079

Lab Sample ID: TK1925-8
Report Date: 29-DEC-17
Client PO: PO:1132379, PN:112G0
Project: NAVSTA Newport, Goul
SDG: TK1925

Sample Description

G44S-MW202RR-121817

Matrix Date Sampled Date Received
AQ 18-DEC-17 14:20:00 19-DEC-17

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Alkalinity	94. mg/L	5.0	0.23	4.0	STDM 2320B	WG220969	28-DEC-17 16:21:07	N/A	N/A	
Chloride	11000 mg/L	4000	200	2000	EPA 300.0	WG220806	19-DEC-17 23:24:00	E300.0	N/A	
Nitrate as N	U0.025 mg/L	0.050	.0174	0.025	EPA 300.0	WG220806	19-DEC-17 17:43:00	E300.0	N/A	
Sulfate	1600 mg/L	100	6.4	50.	EPA 300.0	WG220806	19-DEC-17 23:08:00	E300.0	N/A	

Report of Analytical Results

Client: Michael Horton
Tetra Tech Inc.
5 Industrial Way
Salem, NH 03079

Lab Sample ID: TK1925-10
Report Date: 29-DEC-17
Client PO: PO:1132379, PN:112G0
Project: NAVSTA Newport, Goul
SDG: TK1925

Sample Description

G32-MW304SR-121817

Matrix Date Sampled Date Received
AQ 18-DEC-17 12:50:00 19-DEC-17

Parameter	Result	Adj LOQ	Adj MDL	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Alkalinity	160 mg/L	5.0	0.23	4.0	STDM 2320B	WG220969	28-DEC-17 16:29:26	N/A	N/A	
Chloride	58 mg/L	20.	0.99	10.	EPA 300.0	WG220806	19-DEC-17 23:55:00	E300.0	N/A	
Nitrate as N	1.3 mg/L	0.050	.0174	0.025	EPA 300.0	WG220806	19-DEC-17 17:59:00	E300.0	N/A	
Sulfate	26 mg/L	2.0	0.13	1.0	EPA 300.0	WG220806	19-DEC-17 23:39:00	E300.0	N/A	

PFAS by LC/MS/MS

Client: **Katahdin Analytical Services**

Laboratory ID: **SL22036-001**

Description: **G32-MW306BR-121817**

Matrix: **Aqueous**

Date Sampled: **12/18/2017 1050**

Date Received: **12/22/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537 MOD	537.1 Modified-ID	1	12/28/2017 2329	SES	12/28/2017 0930	60687

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1 Mod. ID	1.7	U	3.4	1.7	0.85	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1 Mod. ID	1.7	U	3.4	1.7	0.85	ng/L	1
Perfluoro-1-butanefulfonate (PFBS)	375-73-5	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1
Perfluorohexanesulfonate (PFHxS)	355-46-4	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	537.1 Mod. ID	1.0	J	1.7	0.85	0.43	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1 Mod. ID	1.7	U	3.4	1.7	0.85	ng/L	1
Perfluoro-n-tridecanoic acid (PFTTrDA)	72629-94-8	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1
Perfluorooctanesulfonate (PFOS)	1763-23-1	537.1 Mod. ID	0.85	U	1.7	0.85	0.43	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_PFDaA		91	50-150
13C2_PFTeDA		73	50-150
13C3_PFBS		99	50-150
13C3_PFHxS		99	50-150
13C4_PFHpA		96	50-150
13C5_PFHxA		99	50-150
13C6_PFDA		97	50-150
13C7_PFUdA		94	50-150
13C8_PFOA		95	50-150
13C8_PFOS		94	50-150
13C9_PFNA		96	50-150
d5-EtFOSAA		93	50-150
d3-MeFOSAA		94	50-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 U = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis LOD = Limit of Detection S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Katahdin Analytical Services**

Laboratory ID: **SL22036-002**

Description: **DUP-121817**

Matrix: **Aqueous**

Date Sampled: **12/18/2017**

Date Received: **12/22/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537 MOD	537.1 Modified-ID	1	12/28/2017 2343	SES	12/28/2017 0930	60687

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1 Mod. ID	1.9	U	3.7	1.9	0.93	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1 Mod. ID	1.9	U	3.7	1.9	0.93	ng/L	1
Perfluoro-1-butanesulfonate (PFBS)	375-73-5	537.1 Mod. ID	1.2	J	1.9	0.95	0.47	ng/L	1
Perfluorohexanesulfonate (PFHxS)	355-46-4	537.1 Mod. ID	2.4		1.9	0.95	0.47	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1 Mod. ID	0.95	U	1.9	0.95	0.47	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1 Mod. ID	0.95	U	1.9	0.95	0.47	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	537.1 Mod. ID	3.3		1.9	0.95	0.47	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	537.1 Mod. ID	2.2		1.9	0.95	0.47	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	537.1 Mod. ID	0.80	J	1.9	0.95	0.47	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	537.1 Mod. ID	14		1.9	0.95	0.47	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1 Mod. ID	1.9	U	3.7	1.9	0.93	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1 Mod. ID	0.95	U	1.9	0.95	0.47	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1 Mod. ID	0.95	U	1.9	0.95	0.47	ng/L	1
Perfluorooctanesulfonate (PFOS)	1763-23-1	537.1 Mod. ID	2.1		1.9	0.95	0.47	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_PFDaA		94	50-150
13C2_PFTeDA		94	50-150
13C3_PFBS		101	50-150
13C3_PFHxS		96	50-150
13C4_PFHpA		99	50-150
13C5_PFHxA		101	50-150
13C6_PFDA		101	50-150
13C7_PFUdA		96	50-150
13C8_PFOA		100	50-150
13C8_PFOS		98	50-150
13C9_PFNA		97	50-150
d5-EtFOSAA		98	50-150
d3-MeFOSAA		95	50-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 U = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis LOD = Limit of Detection S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Katahdin Analytical Services**

Laboratory ID: **SL22036-003**

Description: **FRB-121817**

Matrix: **Aqueous**

Date Sampled: **12/18/2017**

Date Received: **12/22/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537 MOD	537.1 Modified-ID	1	12/28/2017 2357	SES	12/28/2017 0930	60687

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1 Mod. ID	1.8	U	3.5	1.8	0.87	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1 Mod. ID	1.8	U	3.5	1.8	0.87	ng/L	1
Perfluoro-1-butanefulfonate (PFBS)	375-73-5	537.1 Mod. ID	0.85	U	1.7	0.85	0.44	ng/L	1
Perfluorohexanesulfonate (PFHxS)	355-46-4	537.1 Mod. ID	1.1	J	1.7	0.85	0.44	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1 Mod. ID	0.85	U	1.7	0.85	0.44	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1 Mod. ID	0.85	U	1.7	0.85	0.44	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	537.1 Mod. ID	0.85	U	1.7	0.85	0.44	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	537.1 Mod. ID	0.85	U	1.7	0.85	0.44	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	537.1 Mod. ID	0.85	U	1.7	0.85	0.44	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	537.1 Mod. ID	0.59	J	1.7	0.85	0.44	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1 Mod. ID	1.8	U	3.5	1.8	0.87	ng/L	1
Perfluoro-n-tridecanoic acid (PFTTrDA)	72629-94-8	537.1 Mod. ID	0.85	U	1.7	0.85	0.44	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1 Mod. ID	0.85	U	1.7	0.85	0.44	ng/L	1
Perfluorooctanesulfonate (PFOS)	1763-23-1	537.1 Mod. ID	5.6		1.7	0.85	0.44	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_PFDaA		90	50-150
13C2_PFTeDA		84	50-150
13C3_PFBS		98	50-150
13C3_PFHxS		95	50-150
13C4_PFHpA		97	50-150
13C5_PFHxA		101	50-150
13C6_PFDA		97	50-150
13C7_PFUdA		96	50-150
13C8_PFOA		98	50-150
13C8_PFOS		99	50-150
13C9_PFNA		98	50-150
d5-EtFOSAA		97	50-150
d3-MeFOSAA		96	50-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 U = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis LOD = Limit of Detection S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Katahdin Analytical Services**

Laboratory ID: **SL22036-004**

Description: **GI-MW400-121817**

Matrix: **Aqueous**

Date Sampled: **12/18/2017 1030**

Date Received: **12/22/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537 MOD	537.1 Modified-ID	1	12/29/2017 0010	SES	12/28/2017 0930	60687

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1 Mod. ID	1.9	U	3.7	1.9	0.93	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1 Mod. ID	1.9	U	3.7	1.9	0.93	ng/L	1
Perfluoro-1-butanesulfonate (PFBS)	375-73-5	537.1 Mod. ID	1.1	J	1.9	0.95	0.47	ng/L	1
Perfluorohexanesulfonate (PFHxS)	355-46-4	537.1 Mod. ID	2.1		1.9	0.95	0.47	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1 Mod. ID	0.95	U	1.9	0.95	0.47	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1 Mod. ID	0.95	U	1.9	0.95	0.47	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	537.1 Mod. ID	3.7		1.9	0.95	0.47	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	537.1 Mod. ID	2.4		1.9	0.95	0.47	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	537.1 Mod. ID	0.76	J	1.9	0.95	0.47	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	537.1 Mod. ID	14		1.9	0.95	0.47	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1 Mod. ID	1.9	U	3.7	1.9	0.93	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1 Mod. ID	0.95	U	1.9	0.95	0.47	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1 Mod. ID	0.95	U	1.9	0.95	0.47	ng/L	1
Perfluorooctanesulfonate (PFOS)	1763-23-1	537.1 Mod. ID	2.2		1.9	0.95	0.47	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_PFDaA		94	50-150
13C2_PFTeDA		92	50-150
13C3_PFBS		103	50-150
13C3_PFHxS		100	50-150
13C4_PFHpA		101	50-150
13C5_PFHxA		101	50-150
13C6_PFDA		98	50-150
13C7_PFUdA		96	50-150
13C8_PFOA		100	50-150
13C8_PFOS		95	50-150
13C9_PFNA		101	50-150
d5-EtFOSAA		101	50-150
d3-MeFOSAA		98	50-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 U = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis LOD = Limit of Detection S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Katahdin Analytical Services**

Laboratory ID: **SL22036-005**

Description: **G44S-MW202RR-121817**

Matrix: **Aqueous**

Date Sampled: **12/18/2017 1420**

Date Received: **12/22/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537 MOD	537.1 Modified-ID	1	12/29/2017 0023	SES	12/28/2017 0930	60687

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1 Mod. ID	1.8	U	3.5	1.8	0.89	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1 Mod. ID	1.8	U	3.5	1.8	0.89	ng/L	1
Perfluoro-1-butanesulfonate (PFBS)	375-73-5	537.1 Mod. ID	1.0	J	1.8	0.90	0.44	ng/L	1
Perfluorohexanesulfonate (PFHxS)	355-46-4	537.1 Mod. ID	0.92	J	1.8	0.90	0.44	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1 Mod. ID	1.3	J	1.8	0.90	0.44	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1 Mod. ID	0.90	U	1.8	0.90	0.44	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	537.1 Mod. ID	2.1		1.8	0.90	0.44	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	537.1 Mod. ID	2.4		1.8	0.90	0.44	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	537.1 Mod. ID	1.8		1.8	0.90	0.44	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	537.1 Mod. ID	14		1.8	0.90	0.44	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1 Mod. ID	1.8	U	3.5	1.8	0.89	ng/L	1
Perfluoro-n-tridecanoic acid (PFTTrDA)	72629-94-8	537.1 Mod. ID	0.90	U	1.8	0.90	0.44	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1 Mod. ID	0.90	U	1.8	0.90	0.44	ng/L	1
Perfluorooctanesulfonate (PFOS)	1763-23-1	537.1 Mod. ID	11		1.8	0.90	0.44	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_PFDaA		87	50-150
13C2_PFTeDA		87	50-150
13C3_PFBs		94	50-150
13C3_PFHxS		92	50-150
13C4_PFHpA		95	50-150
13C5_PFHxA		96	50-150
13C6_PFDA		90	50-150
13C7_PFUdA		91	50-150
13C8_PFOA		93	50-150
13C8_PFOS		93	50-150
13C9_PFNA		92	50-150
d5-EtFOSAA		90	50-150
d3-MeFOSAA		83	50-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 U = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis LOD = Limit of Detection S = MS/MSD failure

Shealy Environmental Services, Inc.
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

PFAS by LC/MS/MS

Client: **Katahdin Analytical Services**

Laboratory ID: **SL22036-006**

Description: **G32-MW304SR-121817**

Matrix: **Aqueous**

Date Sampled: **12/18/2017 1250**

Date Received: **12/22/2017**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	537 MOD	537.1 Modified-ID	1	12/29/2017 0050	SES	12/28/2017 0930	60687

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	537.1 Mod. ID	1.8	U	3.6	1.8	0.91	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	537.1 Mod. ID	1.8	U	3.6	1.8	0.91	ng/L	1
Perfluoro-1-butanesulfonate (PFBS)	375-73-5	537.1 Mod. ID	1.1	J	1.8	0.90	0.46	ng/L	1
Perfluorohexanesulfonate (PFHxS)	355-46-4	537.1 Mod. ID	1.3	J	1.8	0.90	0.46	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	537.1 Mod. ID	0.90	U	1.8	0.90	0.46	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	537.1 Mod. ID	0.90	U	1.8	0.90	0.46	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	537.1 Mod. ID	4.7		1.8	0.90	0.46	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	537.1 Mod. ID	3.6		1.8	0.90	0.46	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	537.1 Mod. ID	2.7		1.8	0.90	0.46	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	537.1 Mod. ID	15		1.8	0.90	0.46	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	537.1 Mod. ID	1.8	U	3.6	1.8	0.91	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	537.1 Mod. ID	0.90	U	1.8	0.90	0.46	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	537.1 Mod. ID	0.90	U	1.8	0.90	0.46	ng/L	1
Perfluorooctanesulfonate (PFOS)	1763-23-1	537.1 Mod. ID	5.5		1.8	0.90	0.46	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_PFDaA		81	50-150
13C2_PFTeDA		82	50-150
13C3_PFBS		86	50-150
13C3_PFHxS		86	50-150
13C4_PFHpA		90	50-150
13C5_PFHxA		85	50-150
13C6_PFDA		87	50-150
13C7_PFUdA		89	50-150
13C8_PFOA		94	50-150
13C8_PFOS		89	50-150
13C9_PFNA		93	50-150
d5-EtFOSAA		87	50-150
d3-MeFOSAA		89	50-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 U = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis LOD = Limit of Detection S = MS/MSD failure

Shealy Environmental Services, Inc.
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Appendix C

Support Documentation

ANALYTE	ORIGINAL MW-400 TOTAL	DUPLICATE DUP-121817 TOTAL	RL	RPD	RPD > 30%	ORIGINAL SAMPLE CONC >5xRL	DUPLICATE SAMPLE CONC >5xRL	DIFFERENCE >2XRL
LEAD	0.089	0.5	1	139.5585739	TRUE	FALSE	FALSE	FALSE
MANGANESE	229	235	2	2.586206897	FALSE	TRUE	TRUE	TRUE

ANALYTE	ORIGINAL MW-400 FILTERED	DUPLICATE DUP-121817 FILTERED	RL	RPD	RPD > 30%	ORIGINAL SAMPLE CONC >5xRL	DUPLICATE SAMPLE CONC >5xRL	DIFFERENCE >2XRL
CADMIUM	0.031	0.5	1	176.6478343	TRUE	FALSE	FALSE	FALSE
MANGANESE	235	235	2	0	FALSE	TRUE	TRUE	FALSE

ANALYTE	ORIGINAL MW-400	DUPLICATE DUP-121817	RL	RPD	RPD > 30%	ORIGINAL SAMPLE CONC >5xRL	DUPLICATE SAMPLE CONC >5xRL	DIFFERENCE >2XRL
ALKALINITY	350	360	5	2.816901408	FALSE	TRUE	TRUE	FALSE
CHLORIDE	19	19	4	0	FALSE	FALSE	FALSE	FALSE
NITRATE-N	9.7	9.9	0.25	2.040816327	FALSE	TRUE	TRUE	FALSE
SULFATE	28	28	2	0	FALSE	TRUE	TRUE	FALSE

ANALYTE	ORIGINAL GI- MW400-121817	DUPLICATE DUP- 121817	RL	RPD	RPD > 50%	ORIGINAL	DUPLICATE SAMPLE	DIFFERENCE >2XRL
						SAMPLE CONC >2xRL	CONC >2xRL	
Perfluoro-n-octanoic acid (PFOA)	14	14	1.9	0.000	FALSE	TRUE	TRUE	FALSE
Perfluoro-1-butanefulfonate (PFBS)	1.1	1.2	1.9	8.696	FALSE	FALSE	FALSE	FALSE
Perfluoro-n-heptanoic acid (PFHpA)	3.7	3.3	1.9	11.429	FALSE	FALSE	FALSE	FALSE
Perfluorohexanesulfonate (PFHxS)	2.1	2.4	1.9	13.333	FALSE	FALSE	FALSE	FALSE
Perfluoro-n-hexanoic acid (PFHxA)	2.4	2.2	1.9	8.696	FALSE	FALSE	FALSE	FALSE
Perfluoro-n-nonanoic acid (PFNA)	0.76	0.8	1.9	5.128	FALSE	FALSE	FALSE	FALSE
Perfluorooctanesulfonate (PFOS)	2.2	2.1	1.9	4.651	FALSE	FALSE	FALSE	FALSE



Spectrum Analytical

TK1925

CHAIN OF CUSTODY RECORD

Page 1 of 2

Special Handling:

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

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

Report To: MIKE HORTON
TERRATECH
SALEM, NH

Invoice To: SAME
SALEM, NH

Project No: 112608005 - well
 Site Name: GOULD ISLAND site 17

Telephone #: 603-328-1467
 Project Mgr: MIKE HORTON

P.O No.: _____ Quote #: _____

Location: GOULD ISLAND State: RI
 Sampler(s): Daniel Griben, MIKE HORTON

F=Field Filtered 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11= 6^{uL} 12= _____

List Preservative Code below:

11 _____

QA/QC Reporting Notes:

* additional charges may apply

- 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: _____

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= _____ X2= _____ X3= _____

Containers

Analysis

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers				Analysis	Check if chlorinated	
						# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic			
	G32-MW304SR-121817	12/18	1050		GW	-	-	-	2	PFA5	2	<input type="checkbox"/>
	DUP-121817	12/18	0000		GW	-	-	-	2		2	<input type="checkbox"/>
	FRB-121817	12/18	0000		GW	-	-	-	2		2	<input type="checkbox"/>
	GI-MW400-121817	12/18	1030		GW	-	-	-	2		2	<input type="checkbox"/>
	G445-MW202RR-121817	12/18	1420		GW	-	-	-	2		2	<input type="checkbox"/>
	G32-MW304SR-121817	12/18	1250		GW	-	-	-	2		2	<input type="checkbox"/>
												<input type="checkbox"/>
												<input type="checkbox"/>
												<input type="checkbox"/>
												<input type="checkbox"/>

Relinquished by:

Received by:

Date:

Time:

Temp °C

Daniel Griben

Courier

12/19 13:30

Observed

EDD format: _____

E-mail to: _____

Daniel Griben

Nancy Rindig SA

12-19-17 1345
12-19-17 1558

Correction Factor

Corrected

IR ID #

Condition upon receipt: Custody Seals: Present Intact Broken

Ambient Iced Refrigerated DI VOA Frozen Soil Jar Frozen

010000



Spectrum Analytical

TK1925

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: MIKE HORTON
Tetra Tech
Salem, NH

Invoice To: SAME

Project No: 112608005-WC22

Site Name: site 17

Telephone #: 603-328-1467
Project Mgr: MIKE HORTON

P.O. No.: _____ Quote #: _____

Location: GOULD ISLAND State: RI
Sampler(s): Dan, Mike

F=Field Filtered 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11= 6°C 12= _____

List Preservative Code below:

2 1 1 1 1 1

QA/QC Reporting Notes:

* additional charges may apply

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: _____

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= _____ X2= _____ X3= _____

Containers

Analysis

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers				Analysis						Check if chlorinated
						# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOCS	SVOC/PAH	PCB	Anion/AIK	TOTAL METAL	D:59 METALS	
	G-I-mw400-121817	12/18	1030		GW	3	4	1	3	2	2	1	1	1		<input type="checkbox"/>
	G-32-mw306BR-121817	12/18	1050		GW	3	4	1	3	2	2	1	1	1		<input type="checkbox"/>
	G-32-mw304SR-121817	12/18	1250		GW	3	4	1	3	2	2	1	1	1		<input type="checkbox"/>
	G-445-mw202RR-121817	12/18	1420		GW	3	4	1	3	2	2	1	1	1		<input type="checkbox"/>
	DUP-121817	12/18	0000		GW	3	4	1	3	2	2	1	1	1		<input type="checkbox"/>

Relinquished by:

Daniel Grigan

Received by:

Gourier

Date:

12/19

Time:

1330

Temp °C

Observed

EDD format: _____

E-mail to: _____

Correction Factor

12-19-17

1345

Corrected

12-19-17

1558

IR ID #

Condition upon receipt: Custody Seals: Present Intact Broken

Ambient Iced Refrigerated DI VOA Frozen Soil Jar Frozen

11 00000

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS, INC.
NAVSTA NEWPORT, GOULD ISLAND CTO-WE22
TK1925

Sample Receipt

The following samples were received on December 19, 2017 and were logged in under Katahdin Analytical Services work order number TK1925 for a hardcopy due date of December 31, 2017.

KATAHDIN <u>Sample No.</u>	TTNUS <u>Sample Identification</u>
TK1925-1	G32-MW306BR-121817
TK1925-2	G32-MW306BR-121817
TK1925-3	DUP-121817
TK1925-4	DUP-121817
TK1925-5	FRB-121817
TK1925-6	GI-MW400-121817
TK1925-7	GI-MW400-121817
TK1925-8	G44S-MW202RR-121817
TK1925-9	G44S-MW202RR-121817
TK1925-10	G32-MW304SR-121817
TK1925-11	G32-MW304SR-121817

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Ms. Heather Manz**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of work order TK1925 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846, 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA, and/or for the specific methods listed below or on the Report of Analysis.

8260C Analysis

There were no protocol deviations or observations noted by the organics laboratory staff for this analysis.

8082A Analysis

The calibration verification standard (CV) (file 8KL00558) had a high response for Aroclor 1260 on channel B. The CV (file 8KL00571) had high responses for the surrogate DCB as well as the Aroclor 1016 and Aroclor 1260 on channel B. These responses resulted in %D's that were greater than the DoD QSM acceptance limit of 20%. Since a high response would indicate a high bias and there were no target analytes were detected above the MDL in the associated samples, no further action was taken.

8270D SIM Analysis

The independent check standard (file U0128) associated with the initial calibration on the U instrument on 12/26/2017 had a low concentration for the target analyte indeno(1,2,3-cd)pyrene, which exceeded the DoD QSM acceptance limit of $\pm 20\%$ of the expected value from the ICAL. The Independent Check Report consists of the full list of spiked analytes, but only the client's list of target analytes are evaluated.

Note: The Form VII has a column for %D that is set to 20%. The DoD QSM 5.0 criterion for an opening CV is 20%D and a closing CV is 50%D. All of the compounds in the CV's were evaluated to either 20% criteria for opening CVs or 50% criteria for closing CVs.

The target analyte benzo(a)anthracene was detected below $\frac{1}{2}$ of the LOQ in the method blank WG220582-1. According to the DoD QSM section D.1.1.1, a method blank is considered to be contaminated if the concentration of any target analyte in the blank exceeds $\frac{1}{2}$ the reporting limit and is greater than $\frac{1}{10}$ the amount measured in any sample or $\frac{1}{10}$ the regulatory limit (whichever is greater). Since the method blank was acceptable, no further action was taken.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of Katahdin Work Order TK1925 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods" SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA.

Inductively-Coupled Plasma Mass Spectrometric Analysis (ICP-MS)

Aqueous-matrix Katahdin Sample Numbers TK1925-(1-4, 6-11) were digested for ICP-MS analysis on 12/20/17 (QC Batch KL20IMW1) in accordance with USEPA Method 3010A.

ICP-MS analyses of Katahdin Work Order TK1925 sample digestates were performed using an Agilent 7500 ICP-MS spectrometer in accordance with USEPA Method 6020A. Results for all standards and samples are reported using the mean of 3 replicate measurements. All sample digestates were diluted by a factor of 5 during analysis to reduce mass interferences from chlorine, which is present in the digestates from the hydrochloric acid used in digesting the samples. All samples were analyzed within holding times and all-analytical run QC criteria were met.

Internal standard recoveries for ICP-MS analyses can be found in the raw data section of the accompanying data package. The following table indicates which analytes are associated with each internal standard element.

Internal Standard Element	Associated Analytes
Lithium	Beryllium, Boron
Scandium	Sodium, Magnesium, Aluminum, Potassium, Calcium
Germanium or Yttrium	Vanadium, Chromium, Manganese, Iron, Cobalt, Nickel, Copper, Zinc, Arsenic, Selenium, Strontium, Molybdenum, Silver, Cadmium
Terbium	Tin, Antimony, Barium, Tungsten
Bismuth	Lead, Thallium, Thorium, Uranium

Instrument tuning information can also be found in the raw data section in the report labeled "6020 QC Tune Report". The relative standard deviation was determined from 4 replicate measurements. The peak width was measured at 10% of the peak height.

Reporting of Metals Results

Per client request, analytical results for client samples on Form I and preparation blanks on Form IIIP have been reported using the laboratory's limits of detection (LOD). All results were evaluated down to the laboratory's method detection limits (MDLs). Results that fall between the MDL and the LOQ are flagged with "J" in the C-qualifier column, and the measured concentration appears in the concentration column. Results that are less than the MDL are flagged with "U" in the C-qualifier column, and the LOD is listed in the concentration column. These LOQs, MDLs, and LODs have been adjusted for each sample based on the sample amounts used in preparation and analysis.

Analytical results on Forms VA, VD, VII, and IX for client samples, matrix QC samples (duplicates and matrix spikes), and laboratory control samples have been reported down to the laboratory's method detection limits (MDLs). Analytical results that are below the MDLs are flagged with "U" in the C-qualifier column, and the measured concentration is listed in the concentration column.

Analytical results for instrument run QC samples (ICVs, ICBs, etc.) have been reported down to the laboratory's instrument detection limits (IDLs).

IDLs, LODs, MDLs, and LOQs are listed on Form 10 of the accompanying data package.

Wet Chemistry Analysis

The samples of Work Order TK1925 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for chloride, nitrate, and sulfate were performed according to "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, 1979, Revised 1983, U.S. EPA.



Analyses for alkalinity were performed according to "Standard Methods for the Examination of Water and Wastewater", 15th, 16th, 17th, 18th, 19th, and 20th editions, 1980, 1985, 1989, 1992, 1995, 1999. APHA-AWWA-WPCF.

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Limit of Quantitation (LOQ) are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U LOD", where "LOD" is the numerical value of the Limit of Detection.

All analyses were performed within analytical holding times, and all quality control criteria were met.

Subcontracted Data

Analyses for PFA's by Method 537 were performed by subcontract laboratories. Please refer to the sections of the data package titled Subcontracted Data.

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 hardcopy data package has been authorized by the Quality Assurance Officer, or their designee, as verified by the following signature.

A handwritten signature in cursive script that reads "Leslie Dimond".

01.17.18

Leslie Dimond
Quality Assurance Officer

VOLATILES DATA

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NAVSTA Newport, Gould Island CTO-WE22 **Matrix:** AQ
Lab Code: KAS **SDG:** TK1925

Client Sample ID	Lab Sample ID	Col. ID	BFB	# DBF	# DCA	# TOL	#
G32-MW306BR-121817	TK1925-1			99.9	102.	108.	101.
G32-MW304SR-121817	TK1925-10			106.	103.	110.	99.2
DUP-121817	TK1925-3			99.9	100.	109.	103.
GI-MW400-121817	TK1925-6			98.7	101.	111.	101.
G44S-MW202RR-121817	TK1925-8			102.	103.	114.	103.
Laboratory Control S	WG220989-1			102.	98.6	94.0	99.7
Method Blank Sample	WG220989-2			98.8	100.	102.	101.

QC Limits

DCA	1,2-DICHLOROETHANE-D4	81-118
TOL	TOLUENE-D8	89-112
DBF	DIBROMOFLUOROMETHANE	80-119
BFB	P-BROMOFLUOROBENZENE	85-114

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

Report of Analytical Results

Client:
Lab ID: WG220989-2
Client ID: Method Blank Sample
Project:
SDG: TK1925
Lab File ID: T3886.D

Sample Date:
Received Date:
Extract Date: 29-DEC-17
Extracted By: TTC/H
Extraction Method: SW846 5030
Lab Prep Batch: WG220989

Analysis Date: 29-DEC-17
Analyst: TTC/H
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Vinyl Chloride	U	2.0	ug/L	1	1	1.0	0.25	2.0
trans-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.25	1.0
cis-1,2-Dichloroethene	U	1.0	ug/L	1	.5	0.50	0.21	1.0
1,2-Dichloroethylene (Total)	U	2.0	ug/L	1	1	1.0	0.21	2.0
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		98.8	%					
Toluene-d8		101.	%					
1,2-Dichloroethane-d4		102.	%					
Dibromofluoromethane		100.	%					

Form 8

Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport, Gould Island
Lab ID : WG220912-4
Lab File ID : T3867.D

SDG: TK1925
Analytical Date: 12/28/17 10:48
Instrument ID: GCMS-T

Client Sample ID	Lab Sample ID	PENTAFLUOROBENZENE		1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5	
		Area	# RT #	Area	# RT #	Area	# RT #
	Std .	364447	6.11	618250	6.90	523953	10.91
	Upper Limit	728894	6.61	1236500	7.40	1047906	11.41
	Lower Limit	182223.5	5.61	309125	6.40	261976.5	10.41
Continuing Calibrati	WG220989-4	373870	6.12	631457	6.89	532563	10.91
Laboratory Control S	WG220989-1	390718	6.11	658603	6.89	556138	10.91
Method Blank Sample	WG220989-2	379019	6.11	641677	6.89	542176	10.91
G32-MW306BR-12181	TK1925-1	353830	6.12	605255	6.89	519993	10.91
DUP-121817	TK1925-3	350908	6.11	583574	6.89	498196	10.91
GI-MW400-121817	TK1925-6	340985	6.12	584582	6.89	484563	10.91
G44S-MW202RR-1218	TK1925-8	345873	6.12	579782	6.89	493920	10.91
G32-MW304SR-12181	TK1925-10	352399	6.12	600777	6.89	500940	10.91
Continuing Calibrati	WG220989-5	356485	6.11	610951	6.89	503870	10.91

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area
 RT Upper Limit = + 0.50 minutes of internal standard RT
 RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

Form 8

Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport, Gould Island
Lab ID : WG220912-4
Lab File ID : T3867.D

SDG: TK1925
Analytical Date: 12/28/17 10:48
Instrument ID: GCMS-T

		1,4-DICHLOROBENZENE-D4	
		Area	# RT #
	Std .	258925	13.98
	Upper Limit	517850	14.48
	Lower Limit	129462.5	13.48
Client Sample ID	Lab Sample ID		
Continuing Calibrati	WG220989-4	271463	13.98
Laboratory Control S	WG220989-1	278484	13.98
Method Blank Sample	WG220989-2	255442	13.98
G32-MW306BR-12181	TK1925-1	239604	13.98
DUP-121817	TK1925-3	231858	13.98
GI-MW400-121817	TK1925-6	226066	13.98
G44S-MW202RR-1218	TK1925-8	242261	13.98
G32-MW304SR-12181	TK1925-10	254013	13.98
Continuing Calibrati	WG220989-5	261825	13.98

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area
 RT Upper Limit = + 0.50 minutes of internal standard RT
 RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

SIM SEMIVOLATILES DATA

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NAVSTA Newport, Gould Island CTO-WE22 **Matrix:** AQ
Lab Code: KAS **SDG:** TK1925

Client Sample ID	Lab Sample ID	Col. ID	2MN	# DBP	# FLO	# PYR	#
G32-MW306BR-121817	TK1925-1		77.2	26.5	82.2	109.	
G32-MW304SR-121817	TK1925-10		64.3	23.9	63.8	93.8	
DUP-121817	TK1925-3		65.7	24.5	69.5	99.7	
GI-MW400-121817	TK1925-6		67.4	27.2	68.5	87.5	
G44S-MW202RR-121817	TK1925-8		59.8	28.1	71.4	94.9	
Method Blank Sample	WG220582-1		89.0	26.4	85.6	114.	
Laboratory Control S	WG220582-2		63.6	26.7	66.4	77.3	

QC Limits

DBP	2,4-DIBROMOPHENOL	10-130
2MN	2-METHYLNAPHTHALENE-D10	43-92
FLO	FLUORENE-D10	29-101
PYR	PYRENE-D10	53-166

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

LCS Recovery Report

Client:
Lab ID: WG220582-2
Client ID: LCS
Project:
SDG: TK1925
LCS File ID: U0130.D

Sample Date:
Received Date:
Extract Date: 22-DEC-17
Extracted By: JMS
Extraction Method: SW846 3510C
Lab Prep Batch: WG220582

Analysis Date: 26-DEC-17
Analyst: JCG
Analysis Method: SW846 M8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 02-JAN-18

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Pentachlorophenol	74.2	4.00	2.97	ug/L	36-141
Naphthalene	59.5	2.00	1.19	ug/L	43-114
2-Methylnaphthalene	62.5	2.00	1.25	ug/L	39-114
Phenanthrene	76.5	2.00	1.53	ug/L	53-115
Fluoranthene	90.0	2.00	1.80	ug/L	58-120
Pyrene	77.5	2.00	1.55	ug/L	53-121
Benzo(a)anthracene	76.0	2.00	1.52	ug/L	59-120
Chrysene	81.0	2.00	1.62	ug/L	57-120
Benzo(b)Fluoranthene	67.0	2.00	1.34	ug/L	53-126
Benzo(k)fluoranthene	79.5	2.00	1.59	ug/L	54-125
Benzo(a)pyrene	66.5	2.00	1.33	ug/L	53-120
Indeno(1,2,3-cd)pyrene	90.0	2.00	1.80	ug/L	48-130
Dibenzo(a,h)anthracene	71.0	2.00	1.42	ug/L	44-131
Benzo(g,h,i)perylene	71.0	2.00	1.42	ug/L	44-128
2-Methylnaphthalene-D10	63.6				43-92
2,4-Dibromophenol	26.7				10-130
Fluorene-D10	66.4				29-101
Pyrene-D10	77.3				53-166

Method Blank Summary

Lab Name : Katahdin Analytical Services **SDG :** TK1925
Project : NAVSTA Newport, Gould Island CTO-WE2 **Lab Sample ID :** WG220582-1
Lab File ID : U0129.D **Date Extracted :** 22-DEC-17
Instrument ID : GCMS-U **Date Analyzed :** 26-DEC-17
Matrix : AQ **Time Analyzed :** 20:11

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG220582-2	U0130.D	12/26/17	20:42
G32-MW306BR-121817	TK1925-1	U0131.D	12/26/17	21:12
DUP-121817	TK1925-3	U0132.D	12/26/17	21:43
GI-MW400-121817	TK1925-6	U0133.D	12/26/17	22:13
G44S-MW202RR-121817	TK1925-8	U0134.D	12/26/17	22:44
G32-MW304SR-121817	TK1925-10	U0135.D	12/26/17	23:15

Report of Analytical Results

Client:
Lab ID: WG220582-1
Client ID: Method Blank Sample
Project:
SDG: TK1925
Lab File ID: U0129.D

Sample Date:
Received Date:
Extract Date: 22-DEC-17
Extracted By: JMS
Extraction Method: SW846 3510C
Lab Prep Batch: WG220582

Analysis Date: 26-DEC-17
Analyst: JCG
Analysis Method: SW846 M8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 02-JAN-18

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Pentachlorophenol	U	0.50	ug/L	1	1	1.0	0.33	0.50
Naphthalene	U	0.10	ug/L	1	.2	0.20	0.064	0.10
2-Methylnaphthalene	U	0.10	ug/L	1	.2	0.20	0.077	0.10
Phenanthrene	U	0.10	ug/L	1	.2	0.20	0.051	0.10
Fluoranthene	U	0.10	ug/L	1	.2	0.20	0.073	0.10
Pyrene	U	0.10	ug/L	1	.2	0.20	0.059	0.10
Benzo(a)anthracene	J	0.078	ug/L	1	.2	0.20	0.046	0.10
Chrysene	U	0.10	ug/L	1	.2	0.20	0.036	0.10
Benzo(b)Fluoranthene	U	0.10	ug/L	1	.2	0.20	0.089	0.10
Benzo(k)fluoranthene	U	0.10	ug/L	1	.2	0.20	0.049	0.10
Benzo(a)pyrene	U	0.10	ug/L	1	.2	0.20	0.066	0.10
Indeno(1,2,3-cd)pyrene	U	0.10	ug/L	1	.2	0.20	0.052	0.10
Dibenzo(a,h)anthracene	U	0.10	ug/L	1	.2	0.20	0.070	0.10
Benzo(g,h,i)perylene	U	0.10	ug/L	1	.2	0.20	0.065	0.10
2-Methylnaphthalene-D10		89.0	%					
2,4-Dibromophenol		26.4	%					
Fluorene-D10		85.6	%					
Pyrene-D10		114.	%					

Form 8

Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport, Gould Island
Lab ID : WG220737-4
Lab File ID : U0122.D

SDG: TK1925
Analytical Date: 12/26/17 16:37
Instrument ID: GCMS-U

		1,4-DICHLOROBENZENE-D4		NAPHTHALENE-D8		ACENAPHTHENE-D10	
		Area	# RT #	Area	# RT #	Area	# RT #
	Std .	15504	6.19	52959	7.81	22914	10.13
	Upper Limit	31008	6.69	105918	8.31	45828	10.63
	Lower Limit	7752	5.69	26479.5	7.31	11457	9.63
Client Sample ID	Lab Sample ID						
Method Blank Sample	WG220582-1	20754	6.20	53855	7.81	22561	10.14
Laboratory Control S	WG220582-2	15439	6.20	53873	7.81	23064	10.13
G32-MW306BR-12181	TK1925-1	22705	6.20	61979	7.81	26640	10.14
DUP-121817	TK1925-3	21490	6.20	59332	7.81	24939	10.14
GI-MW400-121817	TK1925-6	18007	6.20	66185	7.81	27679	10.14
G44S-MW202RR-1218	TK1925-8	15586	6.20	54082	7.81	22208	10.13
G32-MW304SR-12181	TK1925-10	14739	6.20	48841	7.80	30201	10.13
Continuing Calibrati	WG220737-9	19731	6.20	51662	7.81	21599	10.14

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area
 RT Upper Limit = + 0.50 minutes of internal standard RT
 RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

Form 8

Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NAVSTA Newport, Gould Island
Lab ID : WG220737-4
Lab File ID : U0122.D

SDG: TK1925
Analytical Date: 12/26/17 16:37
Instrument ID: GCMS-U

Client Sample ID	Lab Sample ID	PHENANTHRENE-D10		CHRYSENE-D12		PERYLENE-D12	
		Area	# RT #	Area	# RT #	Area	# RT #
	Std .	42316	12.12	31742	15.95	19345	18.99
	Upper Limit	84632	12.62	63484	16.45	38690	19.49
	Lower Limit	21158	11.62	15871	15.45	9672.5	18.49
Method Blank Sample	WG220582-1	33407	12.12	17590	15.96	10527	18.99
Laboratory Control S	WG220582-2	39060	12.12	24510	15.95	15937	18.99
G32-MW306BR-12181	TK1925-1	44229	12.12	22197	15.95	13522	18.99
DUP-121817	TK1925-3	42892	12.12	22421	15.95	13298	18.99
GI-MW400-121817	TK1925-6	41885	12.12	21731	15.95	13780	18.99
G44S-MW202RR-1218	TK1925-8	35439	12.12	21304	15.95	13926	18.99
G32-MW304SR-12181	TK1925-10	35776	12.12	21633	15.95	14065	18.98
Continuing Calibrati	WG220737-9	37198	12.13	19987	15.96	12308	19.01

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

PCB DATA

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services
Lab Code: KAS

Project: NAVSTA Newport, Gould Island CTO-WE22
SDG: TK1925

Matrix: AQ

Client Sample ID	Lab Sample ID	Col. ID	DCB	# TCX	#
G32-MW306BR-121817	TK1925-1	A	63.5	88.4	
G32-MW306BR-121817	TK1925-1	B	74.5	97.2	
G32-MW304SR-121817	TK1925-10	A	74.6	66.0	
G32-MW304SR-121817	TK1925-10	B	80.6	73.8	
DUP-121817	TK1925-3	A	95.3	93.2	
DUP-121817	TK1925-3	B	105.	98.8	
GI-MW400-121817	TK1925-6	A	85.2	75.6	
GI-MW400-121817	TK1925-6	B	91.8	83.8	
G44S-MW202RR-121817	TK1925-8	A	71.4	72.6	
G44S-MW202RR-121817	TK1925-8	B	75.9	82.4	
Method Blank Sample	WG220411-1	A	49.1	69.1	
Method Blank Sample	WG220411-1	B	70.4	74.9	
Laboratory Control S	WG220411-2	A	76.8	90.0	
Laboratory Control S	WG220411-2	B	83.2	98.7	
Laboratory Control S	WG220411-3	A	80.2	86.5	
Laboratory Control S	WG220411-3	B	86.6	92.8	

QC Limits

TCX	TETRACHLORO-M-XYLENE	62-111
DCB	DECACHLOROBIPHENYL	44-135

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

LCS Recovery Report

Client:
Lab ID: WG220411-2
Client ID: LCS
Project:
SDG: TK1925
LCS File ID: 8KL00546.D

Sample Date:
Received Date:
Extract Date: 20-DEC-17
Extracted By: KF
Extraction Method: SW846 3510C
Lab Prep Batch: WG220411

Analysis Date: 25-DEC-17
Analyst: BF
Analysis Method: SW846 8082A
Matrix: AQ
% Solids: NA
Report Date: 29-DEC-17

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Aroclor-1016	98.0	5.00	4.90	ug/L	46-129
Aroclor-1260	103.	5.00	5.13	ug/L	45-134
Tetrachloro-M-Xylene	98.7				62-111
Decachlorobiphenyl	83.2				44-135

LCS Recovery Report

Client:
Lab ID: WG220411-3
Client ID: LCS1
Project:
SDG: TK1925
LCS File ID: 8KL00547.D

Sample Date:
Received Date:
Extract Date: 20-DEC-17
Extracted By: KF
Extraction Method: SW846 3510C
Lab Prep Batch: WG220411

Analysis Date: 25-DEC-17
Analyst: BF
Analysis Method: SW846 8082A
Matrix: AQ
% Solids: NA
Report Date: 29-DEC-17

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Aroclor-1254	86.8	5.00	4.34	ug/L	34-127
Tetrachloro-M-Xylene	92.8				62-111
Decachlorobiphenyl	86.6				44-135

Form 4 Method Blank Summary

Lab Name : Katahdin Analytical Services	SDG : TK1925
Project : NAVSTA Newport, Gould Island CTO-WE2	Lab Sample ID : WG220411-1
Lab File ID : 8KL00545.D	Date Extracted : 20-DEC-17
Matrix : AQ	Extraction Method : SW846 3510C
Column A	Column B
Instrument ID : GC08	Instrument ID : GC08
Date Analyzed : 25-DEC-17	Date Analyzed : 25-DEC-17
Time Analyzed : 04:26	Time Analyzed : 04:26

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG220411-2	8KL00546.	12/25/17	04:46
Laboratory Control S	WG220411-3	8KL00547.	12/25/17	05:07
G32-MW306BR-121817	TK1925-1	8KL00566.	12/25/17	11:30
DUP-121817	TK1925-3	8KL00567.	12/25/17	11:50
GI-MW400-121817	TK1925-6	8KL00568.	12/25/17	12:10
G44S-MW202RR-121817	TK1925-8	8KL00569.	12/25/17	12:31
G32-MW304SR-121817	TK1925-10	8KL00570.	12/25/17	12:51

Report of Analytical Results

Client:
Lab ID: WG220411-1
Client ID: Method Blank Sample
Project:
SDG: TK1925
Lab File ID: 8KL00545.D

Sample Date:
Received Date:
Extract Date: 20-DEC-17
Extracted By: KF
Extraction Method: SW846 3510C
Lab Prep Batch: WG220411

Analysis Date: 25-DEC-17
Analyst: BF
Analysis Method: SW846 8082A
Matrix: AQ
% Solids: NA
Report Date: 29-DEC-17

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Aroclor-1016	U	0.25	ug/L	1	.5	0.50	0.15	0.25
Aroclor-1221	U	0.25	ug/L	1	.5	0.50	0.20	0.25
Aroclor-1232	U	0.25	ug/L	1	.5	0.50	0.089	0.25
Aroclor-1242	U	0.25	ug/L	1	.5	0.50	0.18	0.25
Aroclor-1248	U	0.25	ug/L	1	.5	0.50	0.20	0.25
Aroclor-1254	U	0.25	ug/L	1	.5	0.50	0.082	0.25
Aroclor-1260	U	0.25	ug/L	1	.5	0.50	0.17	0.25
Aroclor-1262	U	0.25	ug/L	1	.5	0.50	0.066	0.25
Aroclor-1268	U	0.25	ug/L	1	.5	0.50	0.072	0.25
Total PCBs	U	2.2	ug/L	1	4.5	4.5	0.066	2.2
Tetrachloro-M-Xylene		74.9	%					
Decachlorobiphenyl		70.4	%					

METALS DATA

3P
PREPARATION BLANKS

Lab Name: Katahdin Analytical Services

Sample ID: PBWKL20IMW1

Matrix: WATER

SDG Name: TK1925

QC Batch ID: KL20IMW1

Concentration Units : ug/L

Analyte	RESULT	C
ARSENIC	4.0	U
CADMIUM	0.20	U
LEAD	0.50	U
MANGANESE	1.0	U

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services SDG Name: TK1925

Concentration Units: ug/L

SAMPLE: ICSA

File: JKL26A Dec 26, 2017 17:11

Analyte	TRUE	FOUND	% R
ALUMINUM	100000	94780	94.8
ARSENIC	0	0	
CADMIUM	0	0	
CALCIUM	100000	96380	96.4
IRON	100000	93740	93.7
LEAD	0	0	
MAGNESIUM	100000	95270	95.3
MANGANESE	0	0	
MOLYBDENUM	2000	1909	95.5
POTASSIUM	100000	97280	97.3
SODIUM	100000	97110	97.1

SAMPLE: ICSAB

File: JKL26A Dec 26, 2017 17:15

Analyte	TRUE	FOUND	% R
ALUMINUM	100000	90920	90.9
ARSENIC	20	20	100.0
CADMIUM	20	18	90.0
CALCIUM	100000	93600	93.6
IRON	100000	91970	92.0
LEAD	20	20	100.0
MAGNESIUM	100000	92420	92.4
MANGANESE	20	19	95.0
MOLYBDENUM	2000	1877	93.8
POTASSIUM	100000	94960	95.0
SODIUM	100000	95880	95.9

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services**Sample ID:** LCSWKL20IMW1**Matrix:** WATER**SDG Name:** TK1925**QC Batch ID:** KL20IMW1**Concentration Units :** ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ARSENIC	100	99.4	99.4	84	116
CADMIUM	250	248	99.2	87	115
LEAD	100	98.6	98.6	88	115
MANGANESE	500	500	100.0	87	115

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services**Instrument Code: J****Instrument Name: AGILENT 7500 ICP-MS****Date: 11/27/2017**

Analyte	Concentration Units: ug/L		
	PQL/LOQ	IDL	M
ALUMINUM	20	3.0	MS
ARSENIC	1.0	0.11	MS
CADMIUM	0.20	0.011	MS
CALCIUM	20	8.7	MS
IRON	20	3.1	MS
LEAD	0.20	0.034	MS
MAGNESIUM	20	3.4	MS
MANGANESE	0.40	0.13	MS
MOLYBDENUM	1.0	0.041	MS
POTASSIUM	200	6.6	MS
SODIUM	200	5.5	MS

LIMITS of DETECTION

Lab Name: Katahdin Analytical Services**Instrument Code: J****Instrument Name: AGILENT 7500 ICP-MS****Date: 1/25/2011**

Analyte	LOD	Units	M	EPA Prep./Anal. Method
ARSENIC	0.80	ug/L	MS	SW846 3010A / SW846 6020A
CADMIUM	0.040	ug/L	MS	SW846 3010A / SW846 6020A
LEAD	0.10	ug/L	MS	SW846 3010A / SW846 6020A
MANGANESE	0.20	ug/L	MS	SW846 3010A / SW846 6020A

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services**Instrument Code: J****Instrument Name: AGILENT 7500 ICP-MS****Date: 1/25/2011**

Analyte	MDL	Units	M	EPA Prep./Anal. Method
ARSENIC	0.45	ug/L	MS	SW846 3010A / SW846 6020A
CADMIUM	0.0059	ug/L	MS	SW846 3010A / SW846 6020A
LEAD	0.015	ug/L	MS	SW846 3010A / SW846 6020A
MANGANESE	0.070	ug/L	MS	SW846 3010A / SW846 6020A

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ICP LINEAR RANGES

Lab Name: Katahdin Analytical Services

Instrument Code: J

Instrument Name: AGILENT 7500 ICP-MS

Date: 8/4/2017

Concentration Units: ug/L

Analyte	Integration Time (sec)	Linear Range	M
ALUMINUM	0.01	200000	MS
ARSENIC	0.30	1000	MS
CADMIUM	0.10	1000	MS
CALCIUM	0.03	200000	MS
IRON	0.03	100000	MS
LEAD	0.10	2000	MS
MAGNESIUM	0.05	200000	MS
MANGANESE	0.10	2000	MS
MOLYBDENUM	0.10	1000	MS
POTASSIUM	0.01	200000	MS
SODIUM	0.01	200000	MS

PREPARATION LOG

Lab Name: Katahdin Analytical Services**QC Batch ID:** KL20IMW1**Matrix:** WATER**SDG Name:** TK1925**Method:** MS**Prep Date:** 12/20/2017

Client ID	Lab Sample ID	Initial (L)	Final (L)	Bottle ID
LCSWKL20IMW1	LCSWKL20IMW1	0.05	0.05	
PBWKL20IMW1	PBWKL20IMW1	0.05	0.05	
G32-MW306BR-121817	TK1925-001	0.05	0.05	D
G32-MW306BR-121817	TK1925-002	0.05	0.05	A
DUP-121817	TK1925-003	0.05	0.05	D
DUP-121817	TK1925-004	0.05	0.05	A
GI-MW400-121817	TK1925-006	0.05	0.05	D
GI-MW400-121817	TK1925-007	0.05	0.05	A
G44S-MW202RR-121817	TK1925-008	0.05	0.05	D
G44S-MW202RR-121817	TK1925-009	0.05	0.05	A
G32-MW304SR-121817	TK1925-010	0.05	0.05	D
G32-MW304SR-121817	TK1925-011	0.05	0.05	A

14
ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services

SDG Name: TK1925

Instrument ID: AGILENT 7500 ICP-MS

File Name: JKL26A

Date: 12/26/2017

Method: MS

Lab Sample ID	Client ID	D.F.	Time	Elements										
6020 TUNE		1	15:57											
200.8 TUNE		1	16:00											
Cal Blank		1	16:50	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
Cal Std 6		1	16:53	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
ICV		1	16:57	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
ICB		1	17:01	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
PQL		1	17:04	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
ZZZZZZ		1	17:08											
ICSA		1	17:11	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
ICSAB		1	17:15	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
ZZZZZZ		1	17:19											
ZZZZZZ		1	17:23											
ZZZZZZ		1	17:26											
ZZZZZZ		1	17:30											
ZZZZZZ		1	17:33											
CCV		1	17:37	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
CCB		1	17:41	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
ZZZZZZ		5	17:45											
ZZZZZZ		5	17:48											
ZZZZZZ		5	17:52											
ZZZZZZ		5	17:56											
ZZZZZZ		5	17:59											
ZZZZZZ		100	18:03											
ZZZZZZ		500	18:07											
ZZZZZZ		100	18:11											
ZZZZZZ		100	18:15											
ZZZZZZ		10	18:18											

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Instrument ID: AGILENT 7500 ICP-MS

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Date: 12/26/2017

Method: MS

Lab Sample ID	Client ID	D.F.	Time	Elements										
CCV		1	18:22	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
CCB		1	18:26	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
ZZZZZZ		100	18:30											
ZZZZZZ		100	18:34											
ZZZZZZ		500	18:38											
ZZZZZZ		100	18:42											
ZZZZZZ		1	18:46											
ZZZZZZ		100	18:50											
ZZZZZZ		100	18:54											
ZZZZZZ		100	18:57											
ZZZZZZ		100	19:01											
ZZZZZZ		1	19:05											
CCV		1	19:09	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
CCB		1	19:13	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
ZZZZZZ		5	19:17											
ZZZZZZ		5	19:21											
ZZZZZZ		5	19:25											
ZZZZZZ		5	19:29											
ZZZZZZ		5	19:33											
ZZZZZZ		5	19:37											
ZZZZZZ		5	19:41											
ZZZZZZ		25	19:45											
ZZZZZZ		5	19:49											
ZZZZZZ		5	19:53											
CCV		1	19:57	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
CCB		1	20:01	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na
ZZZZZZ		5	20:05											

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ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services

SDG Name: TK1925

Instrument ID: AGILENT 7500 ICP-MS

File Name: JKL26A

Date: 12/26/2017

Method: MS

Lab Sample ID	Client ID	D.F.	Time	Elements											
ZZZZZZ		5	20:09												
ZZZZZZ		5	20:13												
ZZZZZZ		5	20:17												
ZZZZZZ		5	20:21												
ZZZZZZ		5	20:25												
ZZZZZZ		5	20:29												
ZZZZZZ		5	20:33												
ZZZZZZ		5	20:37												
ZZZZZZ		5	20:41												
CCV		1	20:45	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na	
CCB		1	20:49	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na	
PBWKL20IMW1		5	20:53		As	Cd		Pb		Mn					
LCSWKL20IMW1		5	20:57		As	Cd		Pb		Mn					
ZZZZZZ		5	21:01												
ZZZZZZ		25	21:05												
ZZZZZZ		5	21:09												
ZZZZZZ		5	21:14												
ZZZZZZ		5	21:18												
ZZZZZZ		5	21:22												
ZZZZZZ		5	21:26												
ZZZZZZ		5	21:30												
CCV		1	21:34	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na	
CCB		1	21:38	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na	
ZZZZZZ		5	21:42												
ZZZZZZ		5	21:46												
ZZZZZZ		5	21:50												
ZZZZZZ		5	21:54												

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Lab Name: Katahdin Analytical Services

SDG Name: TK1925

Instrument ID: AGILENT 7500 ICP-MS

File Name: JKL26A

Date: 12/26/2017

Method: MS

Lab Sample ID	Client ID	D.F.	Time	Elements											
TK1925-001	G32-MW306BR-121817	5	21:58	As	Cd	Pb	Mn								
TK1925-002	G32-MW306BR-121817	5	22:02	As	Cd	Pb	Mn								
TK1925-003	DUP-121817	5	22:06	As	Cd	Pb	Mn								
TK1925-004	DUP-121817	5	22:10	As	Cd	Pb	Mn								
TK1925-006	GI-MW400-121817	5	22:14	As	Cd	Pb	Mn								
TK1925-007	GI-MW400-121817	5	22:18	As	Cd	Pb	Mn								
CCV		1	22:22	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na	
CCB		1	22:26	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na	
TK1925-008	G44S-MW202RR-121817	5	22:31	As	Cd	Pb	Mn								
TK1925-009	G44S-MW202RR-121817	5	22:35	As	Cd	Pb	Mn								
TK1925-010	G32-MW304SR-121817	5	22:39	As	Cd	Pb	Mn								
TK1925-011	G32-MW304SR-121817	5	22:43	As	Cd	Pb	Mn								
<i>ZZZZZZ</i>		5	22:47												
<i>ZZZZZZ</i>		5	22:51												
<i>ZZZZZZ</i>		5	22:55												
<i>ZZZZZZ</i>		5	22:59												
<i>ZZZZZZ</i>		25	23:03												
<i>ZZZZZZ</i>		5	23:08												
CCV		1	23:12	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na	
CCB		1	23:16	Al	As	Cd	Ca	Fe	Pb	Mg	Mn	Mo	K	Na	

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL26A.B\096SMPL.D\096SMPL.D#
 Date Acquired: Dec 26 2017 09:58 pm
 Acq. Method: 1PTCAL16.M
 Operator: JS
 Sample Name: TK1925-001
 Misc Info:
 Vial Number: 2507
 Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
 Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
 Last Cal. Update: Dec 26 2017 04:56 pm
 Sample Type: Sample
 Dilution Factor: 5.00
 Autodil Factor: Undiluted
 Final Dil Factor: 5.00

INTERNAL STANDARD RECOVERIES

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	0.025	0.005	ppb	62.06	100.	
11 B	9.89	1.978	ppb	5.50	1000.	
23 Na	28,305.	5,661.	ppb	3.43	200000.	
25 Mg	4,869.	973.8	ppb	3.05	200000.	
27 Al	1,046.	209.2	ppb	2.92	200000.	
28 Si	6,245.	1,249.	ppb	11.69	#VALUE!	
29 Si	6,345.	1,269.	ppb	8.42	10000.	
39 K	6,885.	1,377.	ppb	3.57	200000.	
43 Ca	121,450.	24,290.	ppb	2.16	#VALUE!	
44 Ca	118,350.	23,670.	ppb	2.60	200000.	
51 V	5.08	1.016	ppb	11.85	1000.	
52 Cr	2.033	0.4066	ppb	1.08	2000.	
53 Cr	20.03	4.006	ppb	6.71	#VALUE!	
55 Mn	140.05	28.01	ppb	1.69	2000.	
56 Fe	1,331.	266.2	ppb	3.42	#VALUE!	
57 Fe	1,449.5	289.9	ppb	3.04	100000.	
59 Co	2.3375	0.4675	ppb	0.46	1000.	
60 Ni	3.681	0.7362	ppb	1.89	1000.	
63 Cu	4.392	0.8784	ppb	3.14	#VALUE!	
65 Cu	2.545	0.509	ppb	8.38	2000.	
66 Zn	3.0635	0.6127	ppb	8.13	2000.	
68 Zn	3.891	0.7782	ppb	22.54	#VALUE!	
75 As	0.5535	0.1107	ppb	43.31	1000.	
82 Se	2.1005	0.4201	ppb	27.97	1000.	
88 Sr	452.2	90.44	ppb	2.70	2000.	
98 Mo	5.45	1.09	ppb	4.88	1000.	
107 Ag	-0.0014	-0.0003	ppb	2876.00	100.	
109 Ag	-0.0344	-0.0069	ppb	81.34	#VALUE!	
111 Cd	-0.1238	-0.0248	ppb	141.25	#VALUE!	
114 Cd	0.0074	0.0015	ppb	328.84	1000.	
115 In	----	-----	--- ---		#VALUE!	
118 Sn	1.2115	0.2423	ppb	11.30	1000.	
120 Sn	1.249	0.2498	ppb	6.59	#VALUE!	
121 Sb	0.2921	0.0584	ppb	25.03	#VALUE!	
123 Sb	0.314	0.0628	ppb	10.88	1000.	
135 Ba	34.325	6.865	ppb	2.40	2000.	
137 Ba	34.58	6.916	ppb	1.64	#VALUE!	
182 W	1.53	0.306	ppb	8.54	1000.	
203 Tl	-0.026	-0.0052	ppb	54.74	1000.	
205 Tl	0.0049	0.001	ppb	83.40	#VALUE!	
208 Pb	0.6065	0.1213	ppb	3.71	2000.	
232 Th	0.3643	0.0729	ppb	6.17	1000.	
238 U	0.1994	0.0399	ppb	2.85	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2986144.30	0.78	2851854.00	104.7	69.5 - 120	
45 Sc	3100722.80	3.84	3051657.30	101.6	69.5 - 120	
89 Y	4686556.00	2.32	4650709.50	100.8	69.5 - 120	
159 Tb	5928096.50	0.98	5913626.00	100.2	69.5 - 120	
209 Bi	3168689.30	0.97	3217378.00	98.5	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL26A.B\017CALB.D\017CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
 ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL26A.B\097SMPL.D\097SMPL.D#
 Date Acquired: Dec 26 2017 10:02 pm
 Acq. Method: 1PTCAL16.M
 Operator: JS
 Sample Name: TK1925-002
 Misc Info:
 Vial Number: 2508
 Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
 Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
 Last Cal. Update: Dec 26 2017 04:56 pm
 Sample Type: Sample
 Dilution Factor: 5.00
 Autodil Factor: Undiluted
 Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	-0.0011	-0.0002	ppb	118.87	100.	
11 B	8.725	1.745	ppb	7.16	1000.	
23 Na	30,525.	6,105.	ppb	0.35	200000.	
25 Mg	4,237.	847.4	ppb	0.59	200000.	
27 Al	315.4	63.08	ppb	0.31	200000.	
28 Si	5,115.	1,023.	ppb	1.81	#VALUE!	
29 Si	5,710.	1,142.	ppb	0.78	10000.	
39 K	7,100.	1,420.	ppb	0.71	200000.	
43 Ca	128,450.	25,690.	ppb	0.59	#VALUE!	
44 Ca	124,850.	24,970.	ppb	0.46	200000.	
51 V	3.5365	0.7073	ppb	1.96	1000.	
52 Cr	1.136	0.2272	ppb	15.69	2000.	
53 Cr	21.95	4.39	ppb	4.56	#VALUE!	
55 Mn	37.785	7.557	ppb	1.42	2000.	
56 Fe	388.95	77.79	ppb	7.90	#VALUE!	
57 Fe	553.5	110.7	ppb	0.67	100000.	
59 Co	0.749	0.1498	ppb	11.80	1000.	
60 Ni	1.329	0.2658	ppb	16.33	1000.	
63 Cu	2.9695	0.5939	ppb	2.48	#VALUE!	
65 Cu	1.1135	0.2227	ppb	9.65	2000.	
66 Zn	1.814	0.3628	ppb	4.99	2000.	
68 Zn	2.1105	0.4221	ppb	51.67	#VALUE!	
75 As	0.8275	0.1655	ppb	161.93	1000.	
82 Se	1.9785	0.3957	ppb	45.24	1000.	
88 Sr	472.55	94.51	ppb	0.87	2000.	
98 Mo	5.66	1.132	ppb	2.78	1000.	
107 Ag	0.0008	0.0002	ppb	3246.10	100.	
109 Ag	-0.0423	-0.0085	ppb	73.10	#VALUE!	
111 Cd	0.1608	0.0322	ppb	110.26	#VALUE!	
114 Cd	0.0148	0.003	ppb	117.93	1000.	
115 In	----	-----	---	----	#VALUE!	
118 Sn	1.056	0.2112	ppb	4.44	1000.	
120 Sn	1.0585	0.2117	ppb	6.75	#VALUE!	
121 Sb	0.3122	0.0624	ppb	11.38	#VALUE!	
123 Sb	0.3098	0.062	ppb	15.48	1000.	
135 Ba	33.415	6.683	ppb	3.84	2000.	
137 Ba	34.205	6.841	ppb	1.40	#VALUE!	
182 W	1.593	0.3186	ppb	4.25	1000.	
203 Tl	-0.0144	-0.0029	ppb	146.75	1000.	
205 Tl	-0.0072	-0.0014	ppb	128.69	#VALUE!	
208 Pb	0.1195	0.0239	ppb	9.67	2000.	
232 Th	0.0934	0.0187	ppb	7.52	1000.	
238 U	0.0548	0.011	ppb	4.66	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3341025.30	1.93	2851854.00	117.2	69.5 - 120	
45 Sc	3274099.50	0.49	3051657.30	107.3	69.5 - 120	
89 Y	4825377.00	1.72	4650709.50	103.8	69.5 - 120	
159 Tb	5990358.00	1.91	5913626.00	101.3	69.5 - 120	
209 Bi	3138390.30	1.50	3217378.00	97.5	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL26A.B\017CALB.D\017CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
 ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL26A.B\098SMPL.D\098SMPL.D#
 Date Acquired: Dec 26 2017 10:06 pm
 Acq. Method: 1PTCAL16.M
 Operator: JS
 Sample Name: TK1925-003
 Misc Info:
 Vial Number: 2509
 Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
 Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
 Last Cal. Update: Dec 26 2017 04:56 pm
 Sample Type: Sample
 Dilution Factor: 5.00
 Autodil Factor: Undiluted
Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	-0.0121	-0.0024	ppb	56.50	100.	
11 B	75.35	15.07	ppb	3.12	1000.	
23 Na	34,720.	6,944.	ppb	1.81	200000.	
25 Mg	16,150.	3,230.	ppb	1.49	200000.	
27 Al	75.7	15.14	ppb	2.42	200000.	
28 Si	4,405.	881.	ppb	2.19	#VALUE!	
29 Si	4,127.5	825.5	ppb	1.41	10000.	
39 K	17,180.	3,436.	ppb	0.57	200000.	
43 Ca	123,050.	24,610.	ppb	1.35	#VALUE!	
44 Ca	119,250.	23,850.	ppb	2.07	200000.	
51 V	0.6425	0.1285	ppb	18.14	1000.	
52 Cr	0.814	0.1628	ppb	17.67	2000.	
53 Cr	18.745	3.749	ppb	3.65	#VALUE!	
55 Mn	234.8	46.96	ppb	2.77	2000.	
56 Fe	160.55	32.11	ppb	14.93	#VALUE!	
57 Fe	282.95	56.59	ppb	5.27	100000.	
59 Co	0.9955	0.1991	ppb	2.12	1000.	
60 Ni	0.5065	0.1013	ppb	11.61	1000.	
63 Cu	2.658	0.5316	ppb	1.65	#VALUE!	
65 Cu	0.843	0.1686	ppb	7.24	2000.	
66 Zn	0.6635	0.1327	ppb	38.12	2000.	
68 Zn	2.4515	0.4903	ppb	15.24	#VALUE!	
75 As	1.0155	0.2031	ppb	14.64	1000.	
82 Se	1.77	0.354	ppb	33.28	1000.	
88 Sr	509.	101.8	ppb	2.55	2000.	
98 Mo	3.8735	0.7747	ppb	2.87	1000.	
107 Ag	0.0356	0.0071	ppb	87.54	100.	
109 Ag	-0.0143	-0.0029	ppb	292.47	#VALUE!	
111 Cd	-0.2096	-0.0419	ppb	45.69	#VALUE!	
114 Cd	-0.0006	-0.0001	ppb	5366.40	1000.	
115 In	----	-----	---	----	#VALUE!	
118 Sn	1.569	0.3138	ppb	1.67	1000.	
120 Sn	1.638	0.3276	ppb	4.91	#VALUE!	
121 Sb	0.1008	0.0202	ppb	23.29	#VALUE!	
123 Sb	0.1785	0.0357	ppb	8.76	1000.	
135 Ba	70.55	14.11	ppb	2.33	2000.	
137 Ba	70.35	14.07	ppb	1.09	#VALUE!	
182 W	0.2298	0.046	ppb	15.14	1000.	
203 Tl	0.0249	0.005	ppb	29.95	1000.	
205 Tl	0.023	0.0046	ppb	30.95	#VALUE!	
208 Pb	0.0498	0.01	ppb	69.64	2000.	
232 Th	0.0325	0.0065	ppb	12.35	1000.	
238 U	0.8065	0.1613	ppb	5.36	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2852372.50	0.33	2851854.00	100.0	69.5 - 120	
45 Sc	2962112.30	0.88	3051657.30	97.1	69.5 - 120	
89 Y	4568542.00	2.30	4650709.50	98.2	69.5 - 120	
159 Tb	5945687.50	1.09	5913626.00	100.5	69.5 - 120	
209 Bi	3144314.50	1.41	3217378.00	97.7	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL26A.B\017CALB.D\017CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
 ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL26A.B\099SMPL.D\099SMPL.D#
 Date Acquired: Dec 26 2017 10:10 pm
 Acq. Method: 1PTCAL16.M
 Operator: JS
 Sample Name: TK1925-004
 Misc Info:
 Vial Number: 2510
 Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
 Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
 Last Cal. Update: Dec 26 2017 04:56 pm
 Sample Type: Sample
 Dilution Factor: 5.00
 Autodil Factor: Undiluted
Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	-0.0087	-0.0017	ppb	130.92	100.	
11 B	76.2	15.24	ppb	6.31	1000.	
23 Na	36,145.	7,229.	ppb	1.72	200000.	
25 Mg	16,385.	3,277.	ppb	2.42	200000.	
27 Al	7.735	1.547	ppb	5.77	200000.	
28 Si	3,143.5	628.7	ppb	7.42	#VALUE!	
29 Si	3,693.	738.6	ppb	6.42	10000.	
39 K	17,475.	3,495.	ppb	3.37	200000.	
43 Ca	124,550.	24,910.	ppb	2.06	#VALUE!	
44 Ca	120,550.	24,110.	ppb	2.15	200000.	
51 V	0.52	0.104	ppb	68.76	1000.	
52 Cr	0.776	0.1552	ppb	5.08	2000.	
53 Cr	25.77	5.154	ppb	9.72	#VALUE!	
55 Mn	234.75	46.95	ppb	1.44	2000.	
56 Fe	18.77	3.754	ppb	81.75	#VALUE!	
57 Fe	207.15	41.43	ppb	7.06	100000.	
59 Co	0.974	0.1948	ppb	4.79	1000.	
60 Ni	0.4964	0.0993	ppb	13.33	1000.	
63 Cu	2.6365	0.5273	ppb	2.62	#VALUE!	
65 Cu	0.9695	0.1939	ppb	15.06	2000.	
66 Zn	0.833	0.1666	ppb	50.58	2000.	
68 Zn	3.071	0.6142	ppb	5.38	#VALUE!	
75 As	0.3685	0.0737	ppb	198.13	1000.	
82 Se	1.4595	0.2919	ppb	27.71	1000.	
88 Sr	516.5	103.3	ppb	1.47	2000.	
98 Mo	3.7685	0.7537	ppb	1.97	1000.	
107 Ag	-0.0002	0.	ppb	6765.90	100.	
109 Ag	-0.018	-0.0036	ppb	105.41	#VALUE!	
111 Cd	0.1096	0.0219	ppb	47.49	#VALUE!	
114 Cd	-0.0053	-0.0011	ppb	422.96	1000.	
115 In	----	-----	---	----	#VALUE!	
118 Sn	1.185	0.237	ppb	15.90	1000.	
120 Sn	1.075	0.215	ppb	5.21	#VALUE!	
121 Sb	0.101	0.0202	ppb	14.37	#VALUE!	
123 Sb	0.1344	0.0269	ppb	20.73	1000.	
135 Ba	70.9	14.18	ppb	0.78	2000.	
137 Ba	71.5	14.3	ppb	1.11	#VALUE!	
182 W	0.1643	0.0329	ppb	15.44	1000.	
203 Tl	0.0214	0.0043	ppb	103.13	1000.	
205 Tl	0.0367	0.0073	ppb	39.70	#VALUE!	
208 Pb	-0.0457	-0.0091	ppb	24.23	2000.	
232 Th	0.0133	0.0027	ppb	24.10	1000.	
238 U	0.854	0.1708	ppb	2.27	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3373122.00	1.75	2851854.00	118.3	69.5 - 120	
45 Sc	3349054.00	0.78	3051657.30	109.7	69.5 - 120	
89 Y	4924827.00	1.34	4650709.50	105.9	69.5 - 120	
159 Tb	6120307.50	0.58	5913626.00	103.5	69.5 - 120	
209 Bi	3168161.50	0.51	3217378.00	98.5	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL26A.B\017CALB.D\017CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
 ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL26A.B\100SMPL.D\100SMPL.D#
 Date Acquired: Dec 26 2017 10:14 pm
 Acq. Method: 1PTCAL16.M
 Operator: JS
 Sample Name: TK1925-006
 Misc Info:
 Vial Number: 2511
 Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
 Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
 Last Cal. Update: Dec 26 2017 04:56 pm
 Sample Type: Sample
 Dilution Factor: 5.00
 Autodil Factor: Undiluted
Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	-0.01	-0.002	ppb	35.14	100.	
11 B	73.45	14.69	ppb	2.72	1000.	
23 Na	34,185.	6,837.	ppb	1.44	200000.	
25 Mg	15,600.	3,120.	ppb	2.38	200000.	
27 Al	86.4	17.28	ppb	2.11	200000.	
28 Si	4,218.	843.6	ppb	6.20	#VALUE!	
29 Si	4,100.	820.	ppb	4.38	10000.	
39 K	16,780.	3,356.	ppb	2.70	200000.	
43 Ca	118,500.	23,700.	ppb	2.39	#VALUE!	
44 Ca	116,100.	23,220.	ppb	0.90	200000.	
51 V	0.3329	0.0666	ppb	88.77	1000.	
52 Cr	0.7355	0.1471	ppb	10.76	2000.	
53 Cr	19.665	3.933	ppb	3.11	#VALUE!	
55 Mn	229.1	45.82	ppb	1.20	2000.	
56 Fe	193.15	38.63	ppb	4.18	#VALUE!	
57 Fe	329.2	65.84	ppb	6.67	100000.	
59 Co	1.045	0.209	ppb	7.47	1000.	
60 Ni	0.416	0.0832	ppb	18.07	1000.	
63 Cu	2.599	0.5198	ppb	1.61	#VALUE!	
65 Cu	0.861	0.1722	ppb	11.41	2000.	
66 Zn	0.6285	0.1257	ppb	7.91	2000.	
68 Zn	2.936	0.5872	ppb	22.11	#VALUE!	
75 As	0.2901	0.058	ppb	285.12	1000.	
82 Se	0.749	0.1498	ppb	48.15	1000.	
88 Sr	497.45	99.49	ppb	0.57	2000.	
98 Mo	3.6735	0.7347	ppb	0.36	1000.	
107 Ag	0.0156	0.0031	ppb	64.88	100.	
109 Ag	0.0117	0.0023	ppb	114.11	#VALUE!	
111 Cd	-0.2142	-0.0428	ppb	74.46	#VALUE!	
114 Cd	0.0077	0.0015	ppb	102.73	1000.	
115 In	----	-----	---	----	#VALUE!	
118 Sn	1.126	0.2252	ppb	8.63	1000.	
120 Sn	1.066	0.2132	ppb	4.01	#VALUE!	
121 Sb	0.1134	0.0227	ppb	34.26	#VALUE!	
123 Sb	0.1401	0.028	ppb	8.93	1000.	
135 Ba	70.6	14.12	ppb	1.29	2000.	
137 Ba	70.9	14.18	ppb	1.68	#VALUE!	
182 W	0.1809	0.0362	ppb	6.98	1000.	
203 Tl	0.0089	0.0018	ppb	55.13	1000.	
205 Tl	0.0403	0.0081	ppb	40.59	#VALUE!	
208 Pb	0.0892	0.0178	ppb	32.27	2000.	
232 Th	0.0392	0.0078	ppb	12.38	1000.	
238 U	0.811	0.1622	ppb	2.20	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2940015.30	4.46	2851854.00	103.1	69.5 - 120	
45 Sc	3021858.80	2.10	3051657.30	99.0	69.5 - 120	
89 Y	4609563.50	0.91	4650709.50	99.1	69.5 - 120	
159 Tb	5929454.50	1.54	5913626.00	100.3	69.5 - 120	
209 Bi	3130930.80	1.72	3217378.00	97.3	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL26A.B\017CALB.D\017CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
 ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL26A.B\101SMPL.D\101SMPL.D#
 Date Acquired: Dec 26 2017 10:18 pm
 Acq. Method: 1PTCAL16.M
 Operator: JS
 Sample Name: TK1925-007
 Misc Info:
 Vial Number: 2512
 Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
 Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
 Last Cal. Update: Dec 26 2017 04:56 pm
 Sample Type: Sample
 Dilution Factor: 5.00
 Autodil Factor: Undiluted
Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	-0.0065	-0.0013	ppb	182.89	100.	
11 B	76.05	15.21	ppb	6.60	1000.	
23 Na	36,315.	7,263.	ppb	2.11	200000.	
25 Mg	16,135.	3,227.	ppb	2.43	200000.	
27 Al	6.675	1.335	ppb	9.99	200000.	
28 Si	2,984.5	596.9	ppb	4.22	#VALUE!	
29 Si	3,603.	720.6	ppb	3.16	10000.	
39 K	17,510.	3,502.	ppb	0.51	200000.	
43 Ca	122,800.	24,560.	ppb	1.43	#VALUE!	
44 Ca	120,100.	24,020.	ppb	1.88	200000.	
51 V	0.598	0.1196	ppb	49.00	1000.	
52 Cr	1.1855	0.2371	ppb	9.27	2000.	
53 Cr	27.27	5.454	ppb	10.01	#VALUE!	
55 Mn	234.9	46.98	ppb	1.22	2000.	
56 Fe	57.3	11.46	ppb	19.90	#VALUE!	
57 Fe	248.75	49.75	ppb	6.55	100000.	
59 Co	1.041	0.2082	ppb	9.88	1000.	
60 Ni	0.623	0.1246	ppb	18.60	1000.	
63 Cu	2.827	0.5654	ppb	5.27	#VALUE!	
65 Cu	1.093	0.2186	ppb	8.18	2000.	
66 Zn	0.6435	0.1287	ppb	38.70	2000.	
68 Zn	2.7665	0.5533	ppb	13.45	#VALUE!	
75 As	-0.145	-0.029	ppb	499.14	1000.	
82 Se	1.4705	0.2941	ppb	27.65	1000.	
88 Sr	511.5	102.3	ppb	0.98	2000.	
98 Mo	3.943	0.7886	ppb	3.76	1000.	
107 Ag	-0.0198	-0.004	ppb	124.80	100.	
109 Ag	-0.0103	-0.0021	ppb	170.46	#VALUE!	
111 Cd	0.2087	0.0417	ppb	27.00	#VALUE!	
114 Cd	0.0308	0.0062	ppb	4.16	1000.	
115 In	----	-----	---	----	#VALUE!	
118 Sn	1.13	0.226	ppb	5.08	1000.	
120 Sn	1.1885	0.2377	ppb	14.28	#VALUE!	
121 Sb	0.1049	0.021	ppb	8.78	#VALUE!	
123 Sb	0.1535	0.0307	ppb	11.53	1000.	
135 Ba	71.25	14.25	ppb	1.46	2000.	
137 Ba	70.7	14.14	ppb	0.72	#VALUE!	
182 W	0.1819	0.0364	ppb	8.24	1000.	
203 Tl	0.009	0.0018	ppb	138.97	1000.	
205 Tl	0.0217	0.0043	ppb	54.07	#VALUE!	
208 Pb	-0.0049	-0.001	ppb	752.48	2000.	
232 Th	0.0047	0.0009	ppb	58.26	1000.	
238 U	0.8215	0.1643	ppb	3.95	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3419091.00	1.22	2851854.00	119.9	69.5 - 120	
45 Sc	3376134.30	0.69	3051657.30	110.6	69.5 - 120	
89 Y	4956191.00	0.31	4650709.50	106.6	69.5 - 120	
159 Tb	6136671.00	0.65	5913626.00	103.8	69.5 - 120	
209 Bi	3177982.80	0.70	3217378.00	98.8	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL26A.B\017CALB.D\017CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
 ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL26A.B\104SMPL.D\104SMPL.D#
 Date Acquired: Dec 26 2017 10:31 pm
 Acq. Method: 1PTCAL16.M
 Operator: JS
 Sample Name: TK1925-008
 Misc Info:
 Vial Number: 3101
 Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
 Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
 Last Cal. Update: Dec 26 2017 04:56 pm
 Sample Type: Sample
 Dilution Factor: 5.00
 Autodil Factor: Undiluted
Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	0.0508	0.0102	ppb	46.94	100.	
11 B	1,767.5	353.5	ppb	4.15	1000.	
23 Na	----	-----	ppb	-----	200000.	>LDR
25 Mg	556,500.	111,300.	ppb	1.32	200000.	
27 Al	1,704.5	340.9	ppb	1.04	200000.	
28 Si	5,895.	1,179.	ppb	10.07	#VALUE!	
29 Si	5,875.	1,175.	ppb	3.26	10000.	
39 K	212,850.	42,570.	ppb	0.88	200000.	
43 Ca	456,950.	91,390.	ppb	2.19	#VALUE!	
44 Ca	422,850.	84,570.	ppb	1.72	200000.	
51 V	2.7805	0.5561	ppb	10.92	1000.	
52 Cr	4.022	0.8044	ppb	2.43	2000.	
53 Cr	40.425	8.085	ppb	0.76	#VALUE!	
55 Mn	2,911.	582.2	ppb	0.26	2000.	
56 Fe	3,743.	748.6	ppb	0.81	#VALUE!	
57 Fe	4,200.	840.	ppb	3.03	100000.	
59 Co	4.1625	0.8325	ppb	2.55	1000.	
60 Ni	4.8815	0.9763	ppb	10.09	1000.	
63 Cu	224.9	44.98	ppb	1.47	#VALUE!	
65 Cu	6.67	1.334	ppb	3.87	2000.	
66 Zn	13.02	2.604	ppb	2.13	2000.	
68 Zn	12.685	2.537	ppb	0.04	#VALUE!	
75 As	4.949	0.9898	ppb	6.87	1000.	
82 Se	1.4995	0.2999	ppb	66.92	1000.	
88 Sr	4,697.	939.4	ppb	0.80	2000.	
98 Mo	8.915	1.783	ppb	3.05	1000.	
107 Ag	-0.0139	-0.0028	ppb	66.77	100.	
109 Ag	-0.0422	-0.0084	ppb	46.72	#VALUE!	
111 Cd	0.2034	0.0407	ppb	56.75	#VALUE!	
114 Cd	0.0029	0.0006	ppb	664.48	1000.	
115 In	----	-----	---	---	#VALUE!	
118 Sn	1.5095	0.3019	ppb	4.75	1000.	
120 Sn	1.5535	0.3107	ppb	8.65	#VALUE!	
121 Sb	0.2234	0.0447	ppb	8.60	#VALUE!	
123 Sb	0.3151	0.063	ppb	29.59	1000.	
135 Ba	113.75	22.75	ppb	1.87	2000.	
137 Ba	114.3	22.86	ppb	0.81	#VALUE!	
182 W	0.7355	0.1471	ppb	5.33	1000.	
203 Tl	0.0197	0.0039	ppb	72.65	1000.	
205 Tl	-0.0058	-0.0012	ppb	213.45	#VALUE!	
208 Pb	1.5275	0.3055	ppb	2.34	2000.	
232 Th	0.9355	0.1871	ppb	3.31	1000.	
238 U	1.455	0.291	ppb	3.95	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2756385.30	4.43	2851854.00	96.7	69.5 - 120	
45 Sc	3219100.30	2.18	3051657.30	105.5	69.5 - 120	
89 Y	4458090.00	0.92	4650709.50	95.9	69.5 - 120	
159 Tb	5224128.00	0.90	5913626.00	88.3	69.5 - 120	
209 Bi	2399839.00	0.86	3217378.00	74.6	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL26A.B\017CALB.D\017CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL26A.B\105SMPL.D\105SMPL.D#
 Date Acquired: Dec 26 2017 10:35 pm
 Acq. Method: 1PTCAL16.M
 Operator: JS
 Sample Name: TK1925-009
 Misc Info:
 Vial Number: 3102
 Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
 Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
 Last Cal. Update: Dec 26 2017 04:56 pm
 Sample Type: Sample
 Dilution Factor: 5.00
 Autodil Factor: Undiluted
Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	0.0001	0.	ppb	11452.00	100.	
11 B	1,814.5	362.9	ppb	5.97	1000.	
23 Na	----	-----	ppb	-----	200000.	>LDR
25 Mg	557,500.	111,500.	ppb	1.66	200000.	
27 Al	40.59	8.118	ppb	3.42	200000.	
28 Si	4,051.	810.2	ppb	5.91	#VALUE!	
29 Si	4,226.	845.2	ppb	3.57	10000.	
39 K	214,100.	42,820.	ppb	1.57	200000.	
43 Ca	452,950.	90,590.	ppb	1.14	#VALUE!	
44 Ca	424,150.	84,830.	ppb	0.81	200000.	
51 V	0.4316	0.0863	ppb	51.07	1000.	
52 Cr	1.9055	0.3811	ppb	21.37	2000.	
53 Cr	45.115	9.023	ppb	11.36	#VALUE!	
55 Mn	2,965.5	593.1	ppb	3.20	2000.	
56 Fe	1,245.5	249.1	ppb	4.30	#VALUE!	
57 Fe	1,861.5	372.3	ppb	6.93	100000.	
59 Co	3.513	0.7026	ppb	1.89	1000.	
60 Ni	3.872	0.7744	ppb	18.70	1000.	
63 Cu	220.7	44.14	ppb	1.93	#VALUE!	
65 Cu	3.7835	0.7567	ppb	5.26	2000.	
66 Zn	10.15	2.03	ppb	9.42	2000.	
68 Zn	11.07	2.214	ppb	16.36	#VALUE!	
75 As	6.605	1.321	ppb	17.26	1000.	
82 Se	1.5375	0.3075	ppb	27.10	1000.	
88 Sr	4,708.	941.6	ppb	1.16	2000.	
98 Mo	9.665	1.933	ppb	1.91	1000.	
107 Ag	-0.0103	-0.0021	ppb	158.96	100.	
109 Ag	-0.0459	-0.0092	ppb	119.42	#VALUE!	
111 Cd	0.3457	0.0691	ppb	39.94	#VALUE!	
114 Cd	-0.0251	-0.005	ppb	22.35	1000.	
115 In	----	-----	---	---	#VALUE!	
118 Sn	1.5925	0.3185	ppb	8.63	1000.	
120 Sn	1.516	0.3032	ppb	3.25	#VALUE!	
121 Sb	0.2541	0.0508	ppb	24.68	#VALUE!	
123 Sb	0.2625	0.0525	ppb	19.05	1000.	
135 Ba	110.8	22.16	ppb	1.26	2000.	
137 Ba	110.05	22.01	ppb	1.66	#VALUE!	
182 W	0.677	0.1354	ppb	2.85	1000.	
203 Tl	0.0083	0.0017	ppb	132.45	1000.	
205 Tl	-0.0173	-0.0035	ppb	84.28	#VALUE!	
208 Pb	0.0471	0.0094	ppb	44.18	2000.	
232 Th	0.0627	0.0125	ppb	11.51	1000.	
238 U	1.3535	0.2707	ppb	6.79	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2942246.80	5.48	2851854.00	103.2	69.5 - 120	
45 Sc	3381217.00	5.74	3051657.30	110.8	69.5 - 120	
89 Y	4480622.00	2.50	4650709.50	96.3	69.5 - 120	
159 Tb	5136701.00	1.01	5913626.00	86.9	69.5 - 120	
209 Bi	2364114.80	0.23	3217378.00	73.5	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL26A.B\017CALB.D\017CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL26A.B\106SMPL.D\106SMPL.D#
 Date Acquired: Dec 26 2017 10:39 pm
 Acq. Method: 1PTCAL16.M
 Operator: JS
 Sample Name: TK1925-010
 Misc Info:
 Vial Number: 3103
 Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
 Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
 Last Cal. Update: Dec 26 2017 04:56 pm
 Sample Type: Sample
 Dilution Factor: 5.00
 Autodil Factor: Undiluted
 Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	-0.0011	-0.0002	ppb	642.23	100.	
11 B	79.65	15.93	ppb	5.17	1000.	
23 Na	63,250.	12,650.	ppb	2.61	200000.	
25 Mg	9,055.	1,811.	ppb	2.48	200000.	
27 Al	62.35	12.47	ppb	0.73	200000.	
28 Si	6,720.	1,344.	ppb	7.91	#VALUE!	
29 Si	7,550.	1,510.	ppb	2.80	10000.	
39 K	8,895.	1,779.	ppb	0.52	200000.	
43 Ca	46,995.	9,399.	ppb	1.25	#VALUE!	
44 Ca	46,315.	9,263.	ppb	2.00	200000.	
51 V	0.894	0.1788	ppb	50.26	1000.	
52 Cr	1.4425	0.2885	ppb	14.63	2000.	
53 Cr	37.275	7.455	ppb	21.92	#VALUE!	
55 Mn	1,951.	390.2	ppb	1.60	2000.	
56 Fe	13,675.	2,735.	ppb	1.76	#VALUE!	
57 Fe	13,450.	2,690.	ppb	1.88	100000.	
59 Co	3.1245	0.6249	ppb	2.99	1000.	
60 Ni	3.4935	0.6987	ppb	1.72	1000.	
63 Cu	4.314	0.8628	ppb	3.42	#VALUE!	
65 Cu	2.155	0.431	ppb	3.93	2000.	
66 Zn	2.53	0.506	ppb	12.90	2000.	
68 Zn	8.11	1.622	ppb	6.08	#VALUE!	
75 As	0.857	0.1714	ppb	124.33	1000.	
82 Se	1.784	0.3568	ppb	32.09	1000.	
88 Sr	259.25	51.85	ppb	1.01	2000.	
98 Mo	1.5685	0.3137	ppb	2.36	1000.	
107 Ag	-0.0049	-0.001	ppb	727.94	100.	
109 Ag	-0.0238	-0.0048	ppb	119.11	#VALUE!	
111 Cd	0.3219	0.0644	ppb	69.99	#VALUE!	
114 Cd	0.0787	0.0157	ppb	4.40	1000.	
115 In	----	-----	--- ---		#VALUE!	
118 Sn	1.331	0.2662	ppb	12.80	1000.	
120 Sn	1.2585	0.2517	ppb	8.78	#VALUE!	
121 Sb	0.2991	0.0598	ppb	16.24	#VALUE!	
123 Sb	0.3793	0.0759	ppb	10.62	1000.	
135 Ba	78.1	15.62	ppb	2.12	2000.	
137 Ba	78.15	15.63	ppb	0.81	#VALUE!	
182 W	0.0593	0.0119	ppb	20.84	1000.	
203 Tl	0.0281	0.0056	ppb	61.67	1000.	
205 Tl	0.0159	0.0032	ppb	56.98	#VALUE!	
208 Pb	0.0838	0.0168	ppb	22.14	2000.	
232 Th	0.0496	0.0099	ppb	13.29	1000.	
238 U	0.2599	0.052	ppb	3.26	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3419201.50	8.42	2851854.00	119.9	69.5 - 120	
45 Sc	3636079.50	5.40	3051657.30	119.2	69.5 - 120	
89 Y	5087923.00	2.17	4650709.50	109.4	69.5 - 120	
159 Tb	6005899.50	0.90	5913626.00	101.6	69.5 - 120	
209 Bi	3132378.00	0.83	3217378.00	97.4	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL26A.B\017CALB.D\017CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
 ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\JKL26A.B\107SMPL.D\107SMPL.D#
 Date Acquired: Dec 26 2017 10:43 pm
 Acq. Method: 1PTCAL16.M
 Operator: JS
 Sample Name: TK1925-011
 Misc Info:
 Vial Number: 3104
 Current Method: C:\ICPCHEM\1\METHODS\1PTCAL16.M
 Calibration File: C:\ICPCHEM\1\CALIB\1PTCAL16.C
 Last Cal. Update: Dec 26 2017 04:56 pm
 Sample Type: Sample
 Dilution Factor: 5.00
 Autodil Factor: Undiluted
 Final Dil Factor: 5.00

QC Elements

Element	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	0.0067	0.0013	ppb	112.54	100.	
11 B	56.	11.2	ppb	3.08	1000.	
23 Na	56,400.	11,280.	ppb	2.12	200000.	
25 Mg	8,125.	1,625.	ppb	2.27	200000.	
27 Al	46.625	9.325	ppb	1.87	200000.	
28 Si	6,930.	1,386.	ppb	3.02	#VALUE!	
29 Si	6,945.	1,389.	ppb	2.23	10000.	
39 K	8,210.	1,642.	ppb	2.08	200000.	
43 Ca	43,600.	8,720.	ppb	1.23	#VALUE!	
44 Ca	43,415.	8,683.	ppb	1.45	200000.	
51 V	0.751	0.1502	ppb	65.56	1000.	
52 Cr	0.9005	0.1801	ppb	8.37	2000.	
53 Cr	18.87	3.774	ppb	4.95	#VALUE!	
55 Mn	1,725.5	345.1	ppb	0.39	2000.	
56 Fe	13,130.	2,626.	ppb	1.26	#VALUE!	
57 Fe	12,895.	2,579.	ppb	1.14	100000.	
59 Co	2.5555	0.5111	ppb	2.76	1000.	
60 Ni	2.8815	0.5763	ppb	2.69	1000.	
63 Cu	3.7065	0.7413	ppb	0.70	#VALUE!	
65 Cu	1.3825	0.2765	ppb	10.29	2000.	
66 Zn	2.499	0.4998	ppb	6.23	2000.	
68 Zn	6.02	1.204	ppb	12.67	#VALUE!	
75 As	1.197	0.2394	ppb	35.80	1000.	
82 Se	0.996	0.1992	ppb	28.45	1000.	
88 Sr	244.35	48.87	ppb	0.96	2000.	
98 Mo	1.456	0.2912	ppb	2.77	1000.	
107 Ag	-0.0026	-0.0005	ppb	1642.80	100.	
109 Ag	-0.0347	-0.0069	ppb	62.98	#VALUE!	
111 Cd	-0.0556	-0.0111	ppb	316.02	#VALUE!	
114 Cd	0.0526	0.0105	ppb	19.83	1000.	
115 In	----	-----	---	---	#VALUE!	
118 Sn	1.1425	0.2285	ppb	9.53	1000.	
120 Sn	1.1705	0.2341	ppb	4.73	#VALUE!	
121 Sb	0.2721	0.0544	ppb	7.38	#VALUE!	
123 Sb	0.3115	0.0623	ppb	9.58	1000.	
135 Ba	70.15	14.03	ppb	2.51	2000.	
137 Ba	69.6	13.92	ppb	0.11	#VALUE!	
182 W	0.0521	0.0104	ppb	41.46	1000.	
203 Tl	0.014	0.0028	ppb	58.14	1000.	
205 Tl	0.0174	0.0035	ppb	85.43	#VALUE!	
208 Pb	0.2799	0.056	ppb	11.00	2000.	
232 Th	0.0325	0.0065	ppb	22.87	1000.	
238 U	0.2428	0.0486	ppb	7.82	1000.	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2960931.30	0.66	2851854.00	103.8	69.5 - 120	
45 Sc	3163634.50	1.24	3051657.30	103.7	69.5 - 120	
89 Y	4684917.00	1.23	4650709.50	100.7	69.5 - 120	
159 Tb	5916710.50	0.68	5913626.00	100.1	69.5 - 120	
209 Bi	3094504.30	1.15	3217378.00	96.2	69.5 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\JKL26A.B\017CALB.D\017CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
 ISTD: Pass

CONVENTIONAL AND PHYSICAL ANALYTICAL DATA

Quality Control Report

Blank Sample Summary Report

Alkalinity

<u>Samp Type</u>	<u>QC Batch</u>	<u>Anal. Method</u>	<u>Anal. Date</u>	<u>Prep. Date</u>	<u>Result</u>	<u>PQL</u>	<u>LOD</u>
MBLANK	WG220969	SM2320B	28-DEC-17	N/A	J 0.51 mg/L	5.0 mg/L	4.0

Chloride

<u>Samp Type</u>	<u>QC Batch</u>	<u>Anal. Method</u>	<u>Anal. Date</u>	<u>Prep. Date</u>	<u>Result</u>	<u>PQL</u>	<u>LOD</u>
MBLANK	WG220806	EPA 300.0	19-DEC-17	N/A	U 1.0 mg/L	2.0 mg/L	1.0

Nitrate As N

<u>Samp Type</u>	<u>QC Batch</u>	<u>Anal. Method</u>	<u>Anal. Date</u>	<u>Prep. Date</u>	<u>Result</u>	<u>PQL</u>	<u>LOD</u>
MBLANK	WG220806	EPA 300.0	19-DEC-17	N/A	U 0.025 mg/L	0.050 mg/L	0.025

Sulfate

<u>Samp Type</u>	<u>QC Batch</u>	<u>Anal. Method</u>	<u>Anal. Date</u>	<u>Prep. Date</u>	<u>Result</u>	<u>PQL</u>	<u>LOD</u>
MBLANK	WG220806	EPA 300.0	19-DEC-17	N/A	U 0.50 mg/L	1.0 mg/L	0.50

Quality Control Report

Laboratory Control Sample Summary Report

Alkalinity

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG220969-2	LCS	WG220969	28-DEC-17	N/A	mg/L	120	120	104	80-120	

Chloride

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG220806-2	LCS	WG220806	19-DEC-17	N/A	mg/L	3.75	3.71	98.9	90-110	

Nitrate as N

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG220806-2	LCS	WG220806	19-DEC-17	N/A	mg/L	0.845	0.835	98.8	90-110	

Sulfate

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG220806-2	LCS	WG220806	19-DEC-17	N/A	mg/L	3.75	3.69	98.4	90-110	

Quality Control Report
Matrix Spike Sample Summary Report

Nitrate as N

Matrix Spike Sample ID	Sample Type	Original Sample ID	QC Batch	Analysis Date	Result Units	Spike Amount	Sample Result	MS Result	Recovery (%)	Recovery Limit
WG220806-3	MS	TK1925-10	WG220806	19-DEC-17	mg/L	0.845	1.3	2.1	94.8	90 - 110

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Katahdin Analytical Services

600 Technology Way
Scarborough, ME 04074
Attention: Heather Manz

Project Name: Gould Island

Project Number: TK11925

Lot Number: **SL22036**

Date Completed: 01/03/2018

N. Saikaly

01/08/2018 4:06 PM

Approved and released by:
Project Manager: Nisreen Saikaly



**LABORATORY
ACCREDITATION
BUREAU** a division of A-S-B
ACCREDITED ISO/IEC 17025

The electronic signature above is the equivalent of a handwritten signature.

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SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary Katahdin Analytical Services Lot Number: SL22036

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	G32-MW306BR-121817	Aqueous	12/18/2017 1050	12/22/2017
002	DUP-121817	Aqueous	12/18/2017	12/22/2017
003	FRB-121817	Aqueous	12/18/2017	12/22/2017
004	GI-MW400-121817	Aqueous	12/18/2017 1030	12/22/2017
005	G44S-MW202RR-121817	Aqueous	12/18/2017 1420	12/22/2017
006	G32-MW304SR-121817	Aqueous	12/18/2017 1250	12/22/2017

(6 samples)

PFAS by LC/MS/MS - MB

Sample ID: SQ60687-001

Matrix: Aqueous

Batch: 60687

Prep Method: 537 MOD

Analytical Method: 537.1 Modified-ID

Prep Date: 12/28/2017 930

Parameter	Result	Q	Dil	LOQ	LOD	DL	Units	Analysis Date
EtFOSAA	2.0	U	1	4.0	2.0	1.0	ng/L	12/28/2017 1844
MeFOSAA	2.0	U	1	4.0	2.0	1.0	ng/L	12/28/2017 1844
PFBS	1.0	U	1	2.0	1.0	0.50	ng/L	12/28/2017 1844
PFHxS	1.0	U	1	2.0	1.0	0.50	ng/L	12/28/2017 1844
PFDA	1.0	U	1	2.0	1.0	0.50	ng/L	12/28/2017 1844
PFDaA	1.0	U	1	2.0	1.0	0.50	ng/L	12/28/2017 1844
PFHpA	1.0	U	1	2.0	1.0	0.50	ng/L	12/28/2017 1844
PFHxA	1.0	U	1	2.0	1.0	0.50	ng/L	12/28/2017 1844
PFNA	1.0	U	1	2.0	1.0	0.50	ng/L	12/28/2017 1844
PFOA	0.80	J	1	2.0	1.0	0.50	ng/L	12/28/2017 1844
PFTeDA	2.0	U	1	4.0	2.0	1.0	ng/L	12/28/2017 1844
PFTrDA	1.0	U	1	2.0	1.0	0.50	ng/L	12/28/2017 1844
PFUdA	1.0	U	1	2.0	1.0	0.50	ng/L	12/28/2017 1844
PFOS	1.0	U	1	2.0	1.0	0.50	ng/L	12/28/2017 1844

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFDaA		102	50-150
13C2_PFTeDA		93	50-150
13C3_PFBs		102	50-150
13C3_PFHxS		106	50-150
13C4_PFHpA		104	50-150
13C5_PFHxA		103	50-150
13C6_PFDA		103	50-150
13C7_PFUdA		105	50-150
13C8_PFOA		103	50-150
13C8_PFOs		105	50-150
13C9_PFNA		107	50-150
d5-EtFOSAA		106	50-150
d3-MeFOSAA		103	50-150

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

U = Not detected at or above the LOQ

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

PFAS by LC/MS/MS - LCS

Sample ID: SQ60687-002

Matrix: Aqueous

Batch: 60687

Prep Method: 537 MOD

Analytical Method: 537.1 Modified-ID

Prep Date: 12/28/2017 930

Parameter	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
EtFOSAA	20	20		1	99	70-130	12/28/2017 1858
MeFOSAA	20	21		1	103	70-130	12/28/2017 1858
PFBS	18	18		1	104	70-130	12/28/2017 1858
PFHxS	18	19		1	103	70-130	12/28/2017 1858
PFDA	20	22		1	110	70-130	12/28/2017 1858
PFDaA	20	22		1	108	70-130	12/28/2017 1858
PFHpA	20	20		1	101	70-130	12/28/2017 1858
PFHxA	20	20		1	100	70-130	12/28/2017 1858
PFNA	20	19		1	96	70-130	12/28/2017 1858
PFOA	20	21		1	104	70-130	12/28/2017 1858
PFTeDA	20	21		1	105	70-130	12/28/2017 1858
PFTrDA	20	21		1	104	70-130	12/28/2017 1858
PFUdA	20	19		1	96	70-130	12/28/2017 1858
PFOS	19	20		1	108	70-130	12/28/2017 1858
Surrogate	Q	% Rec	Acceptance Limit				
13C2_PFDaA		107	50-150				
13C2_PFTeDA		80	50-150				
13C3_PFBs		109	50-150				
13C3_PFHxS		105	50-150				
13C4_PFHpA		109	50-150				
13C5_PFHxA		111	50-150				
13C6_PFDA		108	50-150				
13C7_PFUdA		110	50-150				
13C8_PFOA		111	50-150				
13C8_PFOs		108	50-150				
13C9_PFNAA		114	50-150				
d5-EtFOSAA		108	50-150				
d3-MeFOSAA		100	50-150				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

U = Not detected at or above the LOQ

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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PFAS by LC/MS/MS - LCSD

Sample ID: SQ60687-003

Matrix: Aqueous

Batch: 60687

Prep Method: 537 MOD

Analytical Method: 537.1 Modified-ID

Prep Date: 12/28/2017 930

Parameter	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
EtFOSAA	20	18		1	90	9.4	70-130	30	12/28/2017 1912
MeFOSAA	20	19		1	96	6.7	70-130	30	12/28/2017 1912
PFBS	18	19		1	105	0.70	70-130	30	12/28/2017 1912
PFHxS	18	18		1	100	2.5	70-130	30	12/28/2017 1912
PFDA	20	21		1	105	4.5	70-130	30	12/28/2017 1912
PFDaA	20	22		1	112	3.6	70-130	30	12/28/2017 1912
PFHpA	20	21		1	103	2.2	70-130	30	12/28/2017 1912
PFHxA	20	22		1	109	8.5	70-130	30	12/28/2017 1912
PFNA	20	20		1	100	4.4	70-130	30	12/28/2017 1912
PFOA	20	22		1	112	7.4	70-130	30	12/28/2017 1912
PFTeDA	20	20		1	98	6.7	70-130	30	12/28/2017 1912
PFTrDA	20	22		1	111	6.1	70-130	30	12/28/2017 1912
PFUdA	20	20		1	101	4.9	70-130	30	12/28/2017 1912
PFOS	19	18		1	95	13	70-130	30	12/28/2017 1912

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFDaA		102	50-150
13C2_PFTeDA		79	50-150
13C3_PFBs		103	50-150
13C3_PFHxS		106	50-150
13C4_PFHpA		105	50-150
13C5_PFHxA		106	50-150
13C6_PFDA		105	50-150
13C7_PFUdA		104	50-150
13C8_PFOA		103	50-150
13C8_PFOS		106	50-150
13C9_PFNA		106	50-150
d5-EtFOSAA		109	50-150
d3-MeFOSAA		106	50-150

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

U = Not detected at or above the LOQ

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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DODCMD_ID	INSTALLATION_ID	SDG	SITE_NAME	NORM_SITE_NAME	LOCATION_NAME	LOCATION_TYPE_DESC	COORD_X	COORD_Y	CONTRACT_ID	DO_CTO_NUMBER	CONTR_NAME	SAMPLE_NAME	SAMPLE_MATRIX_DESC	SAMPLE_TYPE_DESC	COLLECT_DATE	ANALYTICAL_METHOD	ANALYTICAL_METHOD_GRP_DESC
MID_ATLANTIC	NEWPORT_NS	TK1925	SITE 00017	SITE 00017	GI-MW400	Monitoring well	370373.73	165093.22	N6247016D9008	WE22	TETRA TECH, INC.	GI-MW400-121817	Ground water	Normal (Regular)	18-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1925							8005	WE22	TETRA TECH, INC.	FRB-121817	Water for QC samples	Field Reagent Blank	18-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1925	SITE 00017	SITE 00017	G44S-MW-202RR	Monitoring well	370497.6	165558.77	8005	WE22	TETRA TECH, INC.	G44S-MW-202RR-121817	Ground water	Normal (Regular)	18-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1925	SITE 00017	SITE 00017	G32-MW304SR	Monitoring well	370372.19	165367.49	N6247016D9008	WE22	TETRA TECH, INC.	G32-MW304SR-121817	Ground water	Normal (Regular)	18-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1925	SITE 00017	SITE 00017	G32-MW306BR	Monitoring well	370549.06	165571.11	8005	WE22	TETRA TECH, INC.	G32-MW306BR-121817	Ground water	Normal (Regular)	18-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1925	SITE 00017	SITE 00017	GI-MW400	Monitoring well	370373.73	165093.22	8005	WE22	TETRA TECH, INC.	GI-MW400-121817-D	Ground water	Field duplicate	18-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1925							N6247016D9008	WE22	TETRA TECH, INC.	FRB-121817	Water for QC samples	Field Reagent Blank	18-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1925	SITE 00017	SITE 00017	G32-MW304SR	Monitoring well	370372.19	165367.49	8005	WE22	TETRA TECH, INC.	G32-MW304SR-121817	Ground water	Normal (Regular)	18-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1925	SITE 00017	SITE 00017	G32-MW306BR	Monitoring well	370549.06	165571.11	N6247016D9008	WE22	TETRA TECH, INC.	G32-MW306BR-121817	Ground water	Normal (Regular)	18-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1925	SITE 00017	SITE 00017	GI-MW400	Monitoring well	370373.73	165093.22	N6247016D9008	WE22	TETRA TECH, INC.	GI-MW400-121817-D	Ground water	Field duplicate	18-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1925	SITE 00017	SITE 00017	GI-MW400	Monitoring well	370373.73	165093.22	8005	WE22	TETRA TECH, INC.	GI-MW400-121817	Ground water	Normal (Regular)	18-Dec-17	537	Perfluoroalkyl Compounds
MID_ATLANTIC	NEWPORT_NS	TK1925	SITE 00017	SITE 00017	G44S-MW-202RR	Monitoring well	370497.6	165558.77	N6247016D9008	WE22	TETRA TECH, INC.	G44S-MW-202RR-121817	Ground water	Normal (Regular)	18-Dec-17	537	Perfluoroalkyl Compounds