NAVFAC
Naval Facilities Engineering Command

Groundwater Sample Results, Electronic Data Deliverable, Data Validation Report, and the Sample Location Report, SDG 1803086

Naval Weapons Industrial Reserve Plant Bethpage
Bethpage, New York

August 2019

"BPSI-TT-MW308D-20180914","Modified EPA 537","Initial","1803086-01","Vista","375-22-4","PFBA","17.5","ng/L","","2.79","LOD","","TRG","","","8.15","LOQ","YES","-99","","0.123","0.001","5.08",""
"BPSI-TT-MW308D-20180914","Modified EPA 537","Initial","1803086-01","Vista","2706-90-3","PFPeA","17.0","ng/L","","2.79","LOD","","TRG","","","8.15","LOQ","YES","-99","","0.123","0.001","5.08",""
"BPSI-TT-MW308D-20180914","Modified EPA 537","Initial","1803086-01","Vista","375-73-5","PFBS","5.08","ng/L","UU","2.79","LOD","","TRG","","","8.15","LOQ","YES","-99","","0.123","0.001","5.08",""
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"BPSI-TT-MW308D-20180914","Modified EPA 537","Initial","1803086-01","Vista","375-85-9","PFHpA","10.9","ng/L","","2.79","LOD","","TRG","","","8.15","LOQ","YES","-99","","0.123","0.001","5.08",""
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"BPSI-TT-MW308D-20180914","Modified EPA 537","Initial","1803086-01","Vista","335-67-1","PFOA","14.1","ng/L","","2.79","LOD","","TRG","","","8.15","LOQ","YES","-99","","0.123","0.001","5.08",""
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"BP-HN-MW24S-20180914","Modified EPA 537","Initial","1803086-02","Vista","2706-90-3","PFPeA","26.4","ng/L","","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
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"BP-HN-MW24S-20180914","Modified EPA 537","Initial","1803086-02","Vista","375-85-9","PFHpA","23.9","ng/L","","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-HN-MW24S-20180914","Modified EPA 537","Initial","1803086-02","Vista","355-46-4","PFHxS","5.17","ng/L","UU","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
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"BP-HN-MW24S-20180914","Modified EPA 537","Initial","1803086-02","Vista","375-95-1","PFNA","45.4","ng/L","","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-HN-MW24S-20180914","Modified EPA 537","Initial","1803086-02","Vista","754-91-6","PFOSA","5.17","ng/L","UU","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17","

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"BP-HN-MW24S-20180914","Modified EPA 537","Initial","1803086-02","Vista","1763-23-1","PFOS","8.84","ng/L","Q","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""

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"BP-HN-MW24S-20180914","Modified EPA 537","Initial","1803086-02","Vista","2355-31-9","MeFOSAA","5.17","ng/L","UU","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""

"BP-HN-MW24S-20180914","Modified EPA 537","Initial","1803086-02","Vista","2991-50-6","EtFOSAA","5.17","ng/L","UU","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""

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"BP-HN-MW24S-20180914","Modified EPA 537","Initial","1803086-02","Vista","307-55-1","PFDoA","5.17","ng/L","UU","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""

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"BP-HN-MW24S-20180914","Modified EPA 537","Initial","1803086-02","Vista","376-06-7","PFTeDA","5.17","ng/L","UU","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""

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"BP-HN-MW24S-20180914","Modified EPA 537","Initial","1803086-02","Vista","13C3-PFBS","13C3-PFBS","96.3","%R","","-99","NA","","IS","96.3","","-99","NA","YES","100","","0.121","0.001","-99",""

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"BP-HN-MW24S-20180914","Modified EPA 537","Initial","1803086-02","Vista","13C4-PFHpA","13C4-PFHpA","93.6","%R","","-99","NA","","IS","93.6","","-99","NA","YES","100","","0.121","0.001","-99",""

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"BP-HN-MW24S-20180914","Modified EPA 537","Initial","1803086-02","Vista","13C2-PFOA","13C2-PFOA","90.9","%R","","-99","NA","","IS","90.9","","-99","NA","YES","100","","0.121","0.001","-99",""

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"BP-HN-MW24S-20180914","Modified EPA 537","Initial","1803086-02","Vista","13C2-PFDA","13C2-PFDA","66.8","%R","","-99","NA","","IS","66.8","","-99","NA","YES","100","","0.121","0.001","-99",""

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MeFOSAA","74.4","%R","","-99","NA","","IS","74.4","","-99","NA","YES","100","","0.121","0.001","-99",""
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"BP-HN-MW24S-20180914","Modified EPA 537","Initial","1803086-02","Vista","13C2-PFUnA","13C2-PFUnA","73.8","%R","","-99","NA","","IS","73.8","","-99","NA","YES","100","","0.121","0.001","-99",""
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"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","1763-23-1","PFOS","22.0","ng/L","","2.84","LOD","","TRG","","","8.30","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","335-76-2","PFDA","5.17","ng/L","UU","2.84","LOD","","TRG","","","8.30","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","39108-34-4","8:2 FTS","5.17","ng/L","UU","2.84","LOD","","TRG","","","8.30","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","2355-31-9","MeFOSAA","5.17","ng/L","UU","2.84","LOD","","TRG","","","8.30","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","2991-50-6","EtFOSAA","5.17","ng/L","UU","2.84","LOD","","TRG","","","8.30","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","2058-94-8","PFUnA","5.17","ng/L","UU","2.84","LOD","","TRG","","","8.30","LOQ","YES","-99","","0.121","0.001","5.17","
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"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","335-77-3","PFDS","5.17","ng/L","UU","2.84","LOD","","TRG","","","8.30","LOQ","YES","-99","","0.121","0.001","5.17",""
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"
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","72629-94-8","PFTrDA","5.17","ng/L","UU","2.84","LOD","","TRG","","","8.30","LOQ","YES","-99","","0.121","0.001","5.17",

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"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","376-06-7","PFTeDA","5.17","ng/L","UU","2.84","LOD","","TRG","","","8.30","LOQ","YES","-99","","0.121","0.001","5.17",""

"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","13C3-PFBA","13C3-PFBA","99.8","%R","","-99","NA","","IS","99.8","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","13C3-PFPeA","13C3-PFPeA","98.6","%R","","-99","NA","","IS","98.6","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","13C3-PFBS","13C3-PFBS","97.1","%R","","-99","NA","","IS","97.1","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","13C2-PFHxA","13C2-PFHxA","97.7","%R","","-99","NA","","IS","97.7","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","13C4-PFHpA","13C4-PFHpA","99.4","%R","","-99","NA","","IS","99.4","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","18O2-PFHxS","18O2-PFHxS","106","%R","","-99","NA","","IS","106","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","13C2-6:2 FTS","13C2-6:2 FTS","90.3","%R","","-99","NA","","IS","90.3","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","13C2-PFOA","13C2-PFOA","93.4","%R","","-99","NA","","IS","93.4","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","13C5-PFNA","13C5-PFNA","80.9","%R","","-99","NA","","IS","80.9","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","13C8-PFOSA","13C8-PFOSA","46.7","%R","H","-99","NA","","IS","46.7","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","13C8-PFOS","13C8-PFOS","96.5","%R","","-99","NA","","IS","96.5","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","13C2-PFDA","13C2-PFDA","68.8","%R","","-99","NA","","IS","68.8","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","13C2-8:2 FTS","13C2-8:2 FTS","87.4","%R","","-99","NA","","IS","87.4","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","d3-MeFOSAA","d3-MeFOSAA","83.7","%R","","-99","NA","","IS","83.7","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","d5-EtFOSAA","d5-EtFOSAA","86.1","%R","","-99","NA","","IS","86.1","","-99","NA","YES","100","","0.121","0.001","-99",""
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"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","13C2-PFDoA","13C2-PFDoA","76.1","%R","","-99","NA","","IS","76.1","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-HN-MW24IR-20180914","Modified EPA 537","Initial","1803086-03","Vista","13C2-PFTeDA","13C2-PFTeDA","90.1","%R","","-99","NA","","IS","90.1","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","375-22-4","PFBA","15.5","ng/L","","2.85","LOD","","TRG","","","8.32","LOQ","YES","-99","","0.120","0.001","5.21",""
"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","2706-90-3","PFPeA","14.6","ng/L","","2.85","LOD","","TRG","","","8.32","LOQ","YES","-99","","0.120","0.001","5.21",""
"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","375-73-5","PFBS","5.21","ng/L","UU","2.85","LOD","","TRG","","","8.32","LOQ","YES","-99","","0.120","0.001","5.21",""
"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","307-24-4","PFHxA","13.6","ng/L","","2.85","LOD","","TRG","","","8.32","LOQ","YES","-99","","0.120","0.001","5.21",""
"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","375-85-9","PFHpA","10.8","ng/L","","2.85","LOD","","TRG","","","8.32","LOQ","YES","-99","","0.120","0.001","5.21",""
"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","355-46-4","PFHxS","3.45","ng/L","J,Q","2.85","LOD","","TRG","","","8.32","LOQ","YES","-99","","0.120","0.001","5.21",""
"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","27619-97-2","6:2 FTS","5.21","ng/L","UU","2.85","LOD","","TRG","","","8.32","LOQ","YES","-99","","0.120","0.001","5.21",""

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"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","375-92-8","PFHpS","5.21","ng/L","UU","2.85","LOD","","TRG","","","8.32","LOQ","YES","-99","","0.120","0.001","5.21",""
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"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","754-91-6","PFOSA","5.21","ng/L","UU","2.85","LOD","","TRG","","","8.32","LOQ","YES","-99","","0.120","0.001","5.21",""
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"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","335-76-2","PFDA","5.21","ng/L","UU","2.85","LOD","","TRG","","","8.32","LOQ","YES","-99","","0.120","0.001","5.21",""
"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","39108-34-4","8:2 FTS","5.21","ng/L","UU","2.85","LOD","","TRG","","","8.32","LOQ","YES","-99","","0.120","0.001","5.21",""
"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","2355-31-9","MeFOSAA","5.21","ng/L","UU","2.85","LOD","","TRG","","","8.32","LOQ","YES","-99","","0.120","0.001","5.21",""
"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","2991-50-6","EtFOSAA","5.21","ng/L","UU","2.85","LOD","","TRG","","","8.32","LOQ","YES","-99","","0.120","0.001","5.21",""
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"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","376-06-7","PFTeDA","5.21","ng/L","UU","2.85","LOD","","TRG","","","8.32","LOQ","YES","-99","","0.120","0.001","5.21",""
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"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","13C4-PFHpA","13C4-PFHpA","92.1","%R","","-99","NA","","IS","92.1","","-99","NA","YES","100","","0.120","0.001","-99",""
"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","18O2-PFHxS","18O2-PFHxS","101","%R","","-99","NA","","IS","101","","-99","NA","YES","100","","0.120","0.001","-99",""
"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","13C2-6:2 FTS","13C2-6:2 FTS","91.7","%R","","-99","NA","","IS","91.7","","-99","NA","YES","100","","0.120","0.001","-99",""
"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","13C2-PFOA","13C2-PFOA","89.7","%R","","-99","NA","","IS","89.7","","-99","NA","YES","100","","0.120","0.001","-99",""
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PFDA","71.0","%R","","-99","NA","","IS","71.0","","-99","NA","YES","100","","0.120","0.001","-99",""
"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","13C2-8:2 FTS","13C2-8:2
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"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","d3-MeFOSAA","d3-
MeFOSAA","69.3","%R","","-99","NA","","IS","69.3","","-99","NA","YES","100","","0.120","0.001","-99",""
"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","d5-EtFOSAA","d5-
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"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","13C2-PFDoA","13C2-
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"BP-DUP02-20180914","Modified EPA 537","Initial","1803086-04","Vista","13C2-PFTeDA","13C2-
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4","PFBA","16.0","ng/L","","2.92","LOD","","TRG","","","8.53","LOQ","YES","-99","","0.117","0.001","5.34",""
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3","PFPeA","14.2","ng/L","","2.92","LOD","","TRG","","","8.53","LOQ","YES","-99","","0.117","0.001","5.34",""
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5","PFBS","5.34","ng/L","UU","2.92","LOD","","TRG","","","8.53","LOQ","YES","-99","","0.117","0.001","5.34",""
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4","PFHxA","14.5","ng/L","","2.92","LOD","","TRG","","","8.53","LOQ","YES","-99","","0.117","0.001","5.34",""
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9","PFHpA","11.6","ng/L","Q","2.92","LOD","","TRG","","","8.53","LOQ","YES","-99","","0.117","0.001","5.34",""
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1","PFOA","18.2","ng/L","","2.92","LOD","","TRG","","","8.53","LOQ","YES","-99","","0.117","0.001","5.34",""
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2","PFDA","5.34","ng/L","UU","2.92","LOD","","TRG","","","8.53","LOQ","YES","-99","","0.117","0.001","5.34",""
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9","MeFOSAA","5.34","ng/L","UU","2.92","LOD","","TRG","","","8.53","LOQ","YES","-99","","0.117","0.001","5.3
4",""
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6","EtFOSAA","5.34","ng/L","UU","2.92","LOD","","TRG","","","8.53","LOQ","YES","-99","","0.117","0.001","5.34
",""
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8","PFUnA","5.34","ng/L","UU","2.92","LOD","","TRG","","","8.53","LOQ","YES","-99","","0.117","0.001","5.34","

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"BPSI-TT-MW306I-20180914","Modified EPA 537","Initial","1803086-05","Vista","13C3-PFPeA","13C3-PFPeA","95.0","%R","","-99","NA","","IS","95.0","","-99","NA","YES","100","","0.117","0.001","-99",""
"BPSI-TT-MW306I-20180914","Modified EPA 537","Initial","1803086-05","Vista","13C3-PFBS","13C3-PFBS","104","%R","","-99","NA","","IS","104","","-99","NA","YES","100","","0.117","0.001","-99",""
"BPSI-TT-MW306I-20180914","Modified EPA 537","Initial","1803086-05","Vista","13C2-PFHxA","13C2-PFHxA","92.2","%R","","-99","NA","","IS","92.2","","-99","NA","YES","100","","0.117","0.001","-99",""
"BPSI-TT-MW306I-20180914","Modified EPA 537","Initial","1803086-05","Vista","13C4-PFHpA","13C4-PFHpA","95.3","%R","","-99","NA","","IS","95.3","","-99","NA","YES","100","","0.117","0.001","-99",""
"BPSI-TT-MW306I-20180914","Modified EPA 537","Initial","1803086-05","Vista","18O2-PFHxS","18O2-PFHxS","106","%R","","-99","NA","","IS","106","","-99","NA","YES","100","","0.117","0.001","-99",""
"BPSI-TT-MW306I-20180914","Modified EPA 537","Initial","1803086-05","Vista","13C2-6:2 FTS","13C2-6:2 FTS","84.0","%R","","-99","NA","","IS","84.0","","-99","NA","YES","100","","0.117","0.001","-99",""
"BPSI-TT-MW306I-20180914","Modified EPA 537","Initial","1803086-05","Vista","13C2-PFOA","13C2-PFOA","88.6","%R","","-99","NA","","IS","88.6","","-99","NA","YES","100","","0.117","0.001","-99",""
"BPSI-TT-MW306I-20180914","Modified EPA 537","Initial","1803086-05","Vista","13C5-PFNA","13C5-PFNA","78.1","%R","","-99","NA","","IS","78.1","","-99","NA","YES","100","","0.117","0.001","-99",""
"BPSI-TT-MW306I-20180914","Modified EPA 537","Initial","1803086-05","Vista","13C8-PFOSA","13C8-PFOSA","47.8","%R","H","-99","NA","","IS","47.8","","-99","NA","YES","100","","0.117","0.001","-99",""
"BPSI-TT-MW306I-20180914","Modified EPA 537","Initial","1803086-05","Vista","13C8-PFOS","13C8-PFOS","92.8","%R","","-99","NA","","IS","92.8","","-99","NA","YES","100","","0.117","0.001","-99",""
"BPSI-TT-MW306I-20180914","Modified EPA 537","Initial","1803086-05","Vista","13C2-PFDA","13C2-PFDA","77.8","%R","","-99","NA","","IS","77.8","","-99","NA","YES","100","","0.117","0.001","-99",""
"BPSI-TT-MW306I-20180914","Modified EPA 537","Initial","1803086-05","Vista","13C2-8:2 FTS","13C2-8:2 FTS","89.5","%R","","-99","NA","","IS","89.5","","-99","NA","YES","100","","0.117","0.001","-99",""
"BPSI-TT-MW306I-20180914","Modified EPA 537","Initial","1803086-05","Vista","d3-MeFOSAA","d3-MeFOSAA","62.0","%R","","-99","NA","","IS","62.0","","-99","NA","YES","100","","0.117","0.001","-99",""
"BPSI-TT-MW306I-20180914","Modified EPA 537","Initial","1803086-05","Vista","d5-EtFOSAA","d5-EtFOSAA","73.1","%R","","-99","NA","","IS","73.1","","-99","NA","YES","100","","0.117","0.001","-99",""
"BPSI-TT-MW306I-20180914","Modified EPA 537","Initial","1803086-05","Vista","13C2-PFUnA","13C2-PFUnA","69.1","%R","","-99","NA","","IS","69.1","","-99","NA","YES","100","","0.117","0.001","-99",""
"BPSI-TT-MW306I-20180914","Modified EPA 537","Initial","1803086-05","Vista","13C2-PFDoA","13C2-PFDoA","79.3","%R","","-99","NA","","IS","79.3","","-99","NA","YES","100","","0.117","0.001","-99",""
"BPSI-TT-MW306I-20180914","Modified EPA 537","Initial","1803086-05","Vista","13C2-PFTeDA","13C2-PFTeDA","75.0","%R","","-99","NA","","IS","75.0","","-99","NA","YES","100","","0.117","0.001","-99",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","375-22-4","PFBA","4.45","ng/L","J","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","2706-90-3","PFPeA","5.08","ng/L","UU","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","375-73-5","PFBS","5.08","ng/L","UU","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08",""

"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","307-24-4","PFHxA","5.08","ng/L","UU","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08","
"
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","375-85-9","PFHpA","5.08","ng/L","UU","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08","
"
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","355-46-4","PFHxS","5.08","ng/L","UU","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","27619-97-2","6:2 FTS","5.08","ng/L","UU","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","335-67-1","PFOA","6.75","ng/L","J","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","375-92-8","PFHpS","5.08","ng/L","UU","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","375-95-1","PFNA","5.08","ng/L","UU","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","754-91-6","PFOSA","5.08","ng/L","UU","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08","
"
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","1763-23-1","PFOS","11.5","ng/L","","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","335-76-2","PFDA","5.08","ng/L","UU","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","39108-34-4","8:2 FTS","5.08","ng/L","UU","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","2355-31-9","MeFOSAA","5.08","ng/L","UU","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.0
8",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","2991-50-6","EtFOSAA","5.08","ng/L","UU","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08
","",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","2058-94-8","PFUnA","5.08","ng/L","UU","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08","
"
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","335-77-3","PFDS","5.08","ng/L","UU","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","307-55-1","PFDoA","5.08","ng/L","UU","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08","
"
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","72629-94-8","PFTrDA","5.08","ng/L","UU","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08",
""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","376-06-7","PFTeDA","5.08","ng/L","UU","2.78","LOD","","TRG","","","8.11","LOQ","YES","-99","","0.123","0.001","5.08",
""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","13C3-PFBA","13C3-PFBA","102","%R","","-99","NA","","IS","102","","-99","NA","YES","100","","0.123","0.001","-99",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","13C3-PFPeA","13C3-PFPeA","94.4","%R","","-99","NA","","IS","94.4","","-99","NA","YES","100","","0.123","0.001","-99",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","13C3-PFBS","13C3-PFBS","103","%R","","-99","NA","","IS","103","","-99","NA","YES","100","","0.123","0.001","-99",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","13C2-PFHxA","13C2-PFHxA","96.2","%R","","-99","NA","","IS","96.2","","-99","NA","YES","100","","0.123","0.001","-99",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","13C4-PFHpA","13C4-

PFHpA","103","%R","","-99","NA","","IS","103","","-99","NA","YES","100","","0.123","0.001","-99",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","18O2-PFHxS","18O2-PFHxS","102","%R","","-99","NA","","IS","102","","-99","NA","YES","100","","0.123","0.001","-99",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","13C2-6:2 FTS","13C2-6:2 FTS","92.4","%R","","-99","NA","","IS","92.4","","-99","NA","YES","100","","0.123","0.001","-99",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","13C2-PFOA","13C2-PFOA","91.7","%R","","-99","NA","","IS","91.7","","-99","NA","YES","100","","0.123","0.001","-99",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","13C5-PFNA","13C5-PFNA","85.8","%R","","-99","NA","","IS","85.8","","-99","NA","YES","100","","0.123","0.001","-99",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","13C8-PFOSA","13C8-PFOSA","54.9","%R","","-99","NA","","IS","54.9","","-99","NA","YES","100","","0.123","0.001","-99",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","13C8-PFOS","13C8-PFOS","103","%R","","-99","NA","","IS","103","","-99","NA","YES","100","","0.123","0.001","-99",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","13C2-PFDA","13C2-PFDA","74.0","%R","","-99","NA","","IS","74.0","","-99","NA","YES","100","","0.123","0.001","-99",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","13C2-8:2 FTS","13C2-8:2 FTS","90.3","%R","","-99","NA","","IS","90.3","","-99","NA","YES","100","","0.123","0.001","-99",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","d3-MeFOSAA","d3-MeFOSAA","75.8","%R","","-99","NA","","IS","75.8","","-99","NA","YES","100","","0.123","0.001","-99",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","d5-EtFOSAA","d5-EtFOSAA","78.5","%R","","-99","NA","","IS","78.5","","-99","NA","YES","100","","0.123","0.001","-99",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","13C2-PFUnA","13C2-PFUnA","75.0","%R","","-99","NA","","IS","75.0","","-99","NA","YES","100","","0.123","0.001","-99",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","13C2-PFDoA","13C2-PFDoA","82.6","%R","","-99","NA","","IS","82.6","","-99","NA","YES","100","","0.123","0.001","-99",""
"BPSI-TT-MW306S-20180914","Modified EPA 537","Initial","1803086-06","Vista","13C2-PFTeDA","13C2-PFTeDA","85.7","%R","","-99","NA","","IS","85.7","","-99","NA","YES","100","","0.123","0.001","-99",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","375-22-4","PFBA","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","2706-90-3","PFPeA","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","375-73-5","PFBS","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","307-24-4","PFHxA","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12","
"
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","375-85-9","PFHpA","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12","
"
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","355-46-4","PFHxS","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","27619-97-2","6:2 FTS","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","335-67-1","PFOA","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","375-92-8","PFHpS","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","375-95-1","PFNA","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","754-91-6","PFOSA","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12","
"
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","1763-23-1","PFOS","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12",""

"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","335-76-2","PFDA","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","39108-34-4","8:2 FTS","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","2355-31-9","MeFOSAA","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","2991-50-6","EtFOSAA","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","2058-94-8","PFUnA","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","335-77-3","PFDS","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","307-55-1","PFDoA","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","72629-94-8","PFTrDA","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","376-06-7","PFTeDA","5.12","ng/L","UU","2.80","LOD","","TRG","","","8.17","LOQ","YES","-99","","0.122","0.001","5.12",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","13C3-PFBA","13C3-PFBA","100","%R","","-99","NA","","IS","100","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","13C3-PFPeA","13C3-PFPeA","95.6","%R","","-99","NA","","IS","95.6","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","13C3-PFBS","13C3-PFBS","102","%R","","-99","NA","","IS","102","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","13C2-PFHxA","13C2-PFHxA","92.2","%R","","-99","NA","","IS","92.2","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","13C4-PFHpA","13C4-PFHpA","98.9","%R","","-99","NA","","IS","98.9","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","18O2-PFHxS","18O2-PFHxS","101","%R","","-99","NA","","IS","101","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","13C2-6:2 FTS","13C2-6:2 FTS","92.6","%R","","-99","NA","","IS","92.6","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","13C2-PFOA","13C2-PFOA","88.8","%R","","-99","NA","","IS","88.8","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","13C5-PFNA","13C5-PFNA","77.8","%R","","-99","NA","","IS","77.8","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","13C8-PFOSA","13C8-PFOSA","46.2","%R","H","-99","NA","","IS","46.2","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","13C8-PFOS","13C8-PFOS","98.9","%R","","-99","NA","","IS","98.9","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","13C2-PFDA","13C2-PFDA","71.3","%R","","-99","NA","","IS","71.3","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","13C2-8:2 FTS","13C2-8:2 FTS","88.2","%R","","-99","NA","","IS","88.2","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","d3-MeFOSAA","d3-MeFOSAA","64.0","%R","","-99","NA","","IS","64.0","","-99","NA","YES","100","","0.122","0.001","-99",""
"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","d5-EtFOSAA","d5-EtFOSAA","64.4","%R","","-99","NA","","IS","64.4","","-99","NA","YES","100","","0.122","0.001","-99",""

"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","13C2-PFUnA","13C2-PFUnA","62.0","%R","","-99","NA","","IS","62.0","","-99","NA","YES","100","","0.122","0.001","-99",""

"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","13C2-PFDoA","13C2-PFDoA","65.9","%R","","-99","NA","","IS","65.9","","-99","NA","YES","100","","0.122","0.001","-99",""

"BP-FB01-20180913","Modified EPA 537","Initial","1803086-07","Vista","13C2-PFTeDA","13C2-PFTeDA","72.2","%R","","-99","NA","","IS","72.2","","-99","NA","YES","100","","0.122","0.001","-99",""

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","375-22-4","PFBA","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","2706-90-3","PFPeA","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","375-73-5","PFBS","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","307-24-4","PFHxA","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39","
"

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","375-85-9","PFHpA","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39","
"

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","355-46-4","PFHxS","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","27619-97-2","6:2 FTS","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","335-67-1","PFOA","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","375-92-8","PFHpS","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","375-95-1","PFNA","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","754-91-6","PFOSA","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39","
"

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","1763-23-1","PFOS","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","335-76-2","PFDA","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","39108-34-4","8:2 FTS","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","2355-31-9","MeFOSAA","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","2991-50-6","EtFOSAA","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""
,
"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","2058-94-8","PFUnA","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39","
"

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","335-77-3","PFDS","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","307-55-1","PFDoA","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39","
"

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","72629-94-8","PFTrDA","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39","
""

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","376-06-7","PFTeDA","5.39","ng/L","UU","2.95","LOD","","TRG","","","8.62","LOQ","YES","-99","","0.116","0.001","5.39",""

"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","13C3-PFBA","13C3-PFBA","97.5","%R","","-99","NA","","IS","97.5","","-99","NA","YES","100","","0.116","0.001","-99",""
"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","13C3-PFPeA","13C3-PFPeA","90.6","%R","","-99","NA","","IS","90.6","","-99","NA","YES","100","","0.116","0.001","-99",""
"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","13C3-PFBS","13C3-PFBS","98.4","%R","","-99","NA","","IS","98.4","","-99","NA","YES","100","","0.116","0.001","-99",""
"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","13C2-PFHxA","13C2-PFHxA","94.0","%R","","-99","NA","","IS","94.0","","-99","NA","YES","100","","0.116","0.001","-99",""
"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","13C4-PFHpA","13C4-PFHpA","93.0","%R","","-99","NA","","IS","93.0","","-99","NA","YES","100","","0.116","0.001","-99",""
"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","18O2-PFHxS","18O2-PFHxS","102","%R","","-99","NA","","IS","102","","-99","NA","YES","100","","0.116","0.001","-99",""
"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","13C2-6:2 FTS","13C2-6:2 FTS","95.7","%R","","-99","NA","","IS","95.7","","-99","NA","YES","100","","0.116","0.001","-99",""
"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","13C2-PFOA","13C2-PFOA","87.1","%R","","-99","NA","","IS","87.1","","-99","NA","YES","100","","0.116","0.001","-99",""
"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","13C5-PFNA","13C5-PFNA","75.4","%R","","-99","NA","","IS","75.4","","-99","NA","YES","100","","0.116","0.001","-99",""
"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","13C8-PFOSA","13C8-PFOSA","34.0","%R","H","-99","NA","","IS","34.0","","-99","NA","YES","100","","0.116","0.001","-99",""
"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","13C8-PFOS","13C8-PFOS","104","%R","","-99","NA","","IS","104","","-99","NA","YES","100","","0.116","0.001","-99",""
"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","13C2-PFDA","13C2-PFDA","72.6","%R","","-99","NA","","IS","72.6","","-99","NA","YES","100","","0.116","0.001","-99",""
"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","13C2-8:2 FTS","13C2-8:2 FTS","92.8","%R","","-99","NA","","IS","92.8","","-99","NA","YES","100","","0.116","0.001","-99",""
"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","d3-MeFOSAA","d3-MeFOSAA","60.2","%R","","-99","NA","","IS","60.2","","-99","NA","YES","100","","0.116","0.001","-99",""
"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","d5-EtFOSAA","d5-EtFOSAA","64.9","%R","","-99","NA","","IS","64.9","","-99","NA","YES","100","","0.116","0.001","-99",""
"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","13C2-PFUnA","13C2-PFUnA","60.0","%R","","-99","NA","","IS","60.0","","-99","NA","YES","100","","0.116","0.001","-99",""
"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","13C2-PFDoA","13C2-PFDoA","67.8","%R","","-99","NA","","IS","67.8","","-99","NA","YES","100","","0.116","0.001","-99",""
"BP-TT-EB02-20180914","Modified EPA 537","Initial","1803086-08","Vista","13C2-PFTeDA","13C2-PFTeDA","78.0","%R","","-99","NA","","IS","78.0","","-99","NA","YES","100","","0.116","0.001","-99",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","375-22-4","PFBA","7.94","ng/L","J","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","2706-90-3","PFPeA","8.23","ng/L","J","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","375-73-5","PFBS","10.6","ng/L","","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","307-24-4","PFHxA","11.3","ng/L","","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","375-85-9","PFHpA","6.60","ng/L","J","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","355-46-4","PFHxS","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","27619-97-2","6:2 FTS","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","335-67-

1","PFOA","19.0","ng/L","","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","375-92-
8","PFHpS","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","375-95-
1","PFNA","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","754-91-
6","PFOSA","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25","
"

"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","1763-23-
1","PFOS","11.4","ng/L","Q","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","335-76-
2","PFDA","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","39108-34-4","8:2
FTS","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","2355-31-
9","MeFOSAA","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.2
5",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","2991-50-
6","EtFOSAA","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25
","",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","2058-94-
8","PFUnA","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25","
"
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","335-77-
3","PFDS","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","307-55-
1","PFDoA","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25","
"
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","72629-94-
8","PFTrDA","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",
""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","376-06-
7","PFTeDA","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",
""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","13C3-PFBA","13C3-
PFBA","102","%R","","-99","NA","","IS","102","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","13C3-PFPeA","13C3-
PFPeA","89.9","%R","","-99","NA","","IS","89.9","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","13C3-PFBS","13C3-
PFBS","103","%R","","-99","NA","","IS","103","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","13C2-PFHxA","13C2-
PFHxA","93.5","%R","","-99","NA","","IS","93.5","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","13C4-PFHpA","13C4-
PFHpA","103","%R","","-99","NA","","IS","103","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","18O2-PFHxS","18O2-
PFHxS","96.8","%R","","-99","NA","","IS","96.8","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","13C2-6:2 FTS","13C2-6:2
FTS","91.8","%R","","-99","NA","","IS","91.8","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","13C2-PFOA","13C2-
PFOA","95.4","%R","","-99","NA","","IS","95.4","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","13C5-PFNA","13C5-
PFNA","84.4","%R","","-99","NA","","IS","84.4","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","13C8-PFOSA","13C8-
PFOSA","60.2","%R","","-99","NA","","IS","60.2","","-99","NA","YES","100","","0.119","0.001","-99",""

"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","13C8-PFOS","13C8-PFOS","101","%R","","-99","NA","","IS","101","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","13C2-PFDA","13C2-PFDA","78.8","%R","","-99","NA","","IS","78.8","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","13C2-8:2 FTS","13C2-8:2 FTS","88.6","%R","","-99","NA","","IS","88.6","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","d3-MeFOSAA","d3-MeFOSAA","80.6","%R","","-99","NA","","IS","80.6","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","d5-EtFOSAA","d5-EtFOSAA","88.3","%R","","-99","NA","","IS","88.3","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","13C2-PFUnA","13C2-PFUnA","83.7","%R","","-99","NA","","IS","83.7","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","13C2-PFDoA","13C2-PFDoA","82.2","%R","","-99","NA","","IS","82.2","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-TT-AOC22-MW04-20180914","Modified EPA 537","Initial","1803086-09","Vista","13C2-PFTeDA","13C2-PFTeDA","83.1","%R","","-99","NA","","IS","83.1","","-99","NA","YES","100","","0.119","0.001","-99",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","375-22-4","PFBA","15.6","ng/L","","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","2706-90-3","PFPeA","44.3","ng/L","","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","375-73-5","PFBS","5.39","ng/L","UU","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","307-24-4","PFHxA","29.6","ng/L","","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","375-85-9","PFHpA","19.2","ng/L","","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","355-46-4","PFHxS","3.14","ng/L","J","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","27619-97-2","6:2 FTS","5.39","ng/L","UU","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","335-67-1","PFOA","14.4","ng/L","","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","375-92-8","PFHpS","5.39","ng/L","UU","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","375-95-1","PFNA","6.27","ng/L","J","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","754-91-6","PFOSA","5.39","ng/L","UU","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","1763-23-1","PFOS","10.5","ng/L","","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","335-76-2","PFDA","5.39","ng/L","UU","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","39108-34-4","8:2 FTS","5.39","ng/L","UU","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","2355-31-9","MeFOSAA","5.39","ng/L","UU","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","2991-50-6","EtFOSAA","5.39","ng/L","UU","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","2058-94-8","PFUnA","5.39","ng/L","UU","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""

"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","335-77-3","PFDS","5.39","ng/L","UU","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","307-55-1","PFDoA","5.39","ng/L","UU","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","72629-94-8","PFTrDA","5.39","ng/L","UU","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","376-06-7","PFTeDA","5.39","ng/L","UU","2.96","LOD","","TRG","","","8.63","LOQ","YES","-99","","0.116","0.001","5.39",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","13C3-PFBA","13C3-PFBA","102","%R","","-99","NA","","IS","102","","-99","NA","YES","100","","0.116","0.001","-99",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","13C3-PFPeA","13C3-PFPeA","97.1","%R","","-99","NA","","IS","97.1","","-99","NA","YES","100","","0.116","0.001","-99",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","13C3-PFBS","13C3-PFBS","101","%R","","-99","NA","","IS","101","","-99","NA","YES","100","","0.116","0.001","-99",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","13C2-PFHxA","13C2-PFHxA","98.6","%R","","-99","NA","","IS","98.6","","-99","NA","YES","100","","0.116","0.001","-99",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","13C4-PFHpA","13C4-PFHpA","103","%R","","-99","NA","","IS","103","","-99","NA","YES","100","","0.116","0.001","-99",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","18O2-PFHxS","18O2-PFHxS","106","%R","","-99","NA","","IS","106","","-99","NA","YES","100","","0.116","0.001","-99",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","13C2-6:2 FTS","13C2-6:2 FTS","97.6","%R","","-99","NA","","IS","97.6","","-99","NA","YES","100","","0.116","0.001","-99",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","13C2-PFOA","13C2-PFOA","95.0","%R","","-99","NA","","IS","95.0","","-99","NA","YES","100","","0.116","0.001","-99",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","13C5-PFNA","13C5-PFNA","87.9","%R","","-99","NA","","IS","87.9","","-99","NA","YES","100","","0.116","0.001","-99",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","13C8-PFOSA","13C8-PFOSA","46.0","%R","H","-99","NA","","IS","46.0","","-99","NA","YES","100","","0.116","0.001","-99",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","13C8-PFOS","13C8-PFOS","100","%R","","-99","NA","","IS","100","","-99","NA","YES","100","","0.116","0.001","-99",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","13C2-PFDA","13C2-PFDA","77.2","%R","","-99","NA","","IS","77.2","","-99","NA","YES","100","","0.116","0.001","-99",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","13C2-8:2 FTS","13C2-8:2 FTS","98.6","%R","","-99","NA","","IS","98.6","","-99","NA","YES","100","","0.116","0.001","-99",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","d3-MeFOSAA","d3-MeFOSAA","78.3","%R","","-99","NA","","IS","78.3","","-99","NA","YES","100","","0.116","0.001","-99",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","d5-EtFOSAA","d5-EtFOSAA","79.2","%R","","-99","NA","","IS","79.2","","-99","NA","YES","100","","0.116","0.001","-99",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","13C2-PFUnA","13C2-PFUnA","74.9","%R","","-99","NA","","IS","74.9","","-99","NA","YES","100","","0.116","0.001","-99",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","13C2-PFDoA","13C2-PFDoA","88.1","%R","","-99","NA","","IS","88.1","","-99","NA","YES","100","","0.116","0.001","-99",""
"BPSI-TT-MW308I-20180915","Modified EPA 537","Initial","1803086-10","Vista","13C2-PFTeDA","13C2-PFTeDA","93.7","%R","","-99","NA","","IS","93.7","","-99","NA","YES","100","","0.116","0.001","-99",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","375-22-4","PFBA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","2706-90-3","PFPeA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","375-73-5","PFBS","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","307-24-

4","PFHxA","8.69","ng/L","","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","375-85-
9","PFHpA","8.54","ng/L","","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","355-46-
4","PFHxS","5.92","ng/L","J,
Q","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","27619-97-2","6:2
FTS","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","335-67-
1","PFOA","47.4","ng/L","","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","375-92-
8","PFHpS","3.63","ng/L","J,
Q","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","375-95-
1","PFNA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","754-91-
6","PFOSA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30","
"
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","1763-23-
1","PFOS","18.4","ng/L","","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","335-76-
2","PFDA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","39108-34-4","8:2
FTS","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","2355-31-
9","MeFOSAA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.3
0",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","2991-50-
6","EtFOSAA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30
","
","
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","2058-94-
8","PFUnA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30","
"
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","335-77-
3","PFDS","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","307-55-
1","PFDoA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30","
"
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","72629-94-
8","PFTrDA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",
""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","376-06-
7","PFTeDA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",
""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","13C3-PFBA","13C3-
PFBA","93.3","%R","","-99","NA","","IS","93.3","","-99","NA","YES","100","","0.118","0.001","-99",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","13C3-PFPeA","13C3-
PFPeA","91.6","%R","","-99","NA","","IS","91.6","","-99","NA","YES","100","","0.118","0.001","-99",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","13C3-PFBS","13C3-
PFBS","90.8","%R","","-99","NA","","IS","90.8","","-99","NA","YES","100","","0.118","0.001","-99",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","13C2-PFHxA","13C2-
PFHxA","92.9","%R","","-99","NA","","IS","92.9","","-99","NA","YES","100","","0.118","0.001","-99",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","13C4-PFHpA","13C4-
PFHpA","99.7","%R","","-99","NA","","IS","99.7","","-99","NA","YES","100","","0.118","0.001","-99",""

"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","18O2-PFHxS","18O2-PFHxS","101","%R","","-99","NA","","IS","101","","-99","NA","YES","100","","0.118","0.001","-99",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","13C2-6:2 FTS","13C2-6:2 FTS","89.7","%R","","-99","NA","","IS","89.7","","-99","NA","YES","100","","0.118","0.001","-99",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","13C2-PFOA","13C2-PFOA","90.7","%R","","-99","NA","","IS","90.7","","-99","NA","YES","100","","0.118","0.001","-99",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","13C5-PFNA","13C5-PFNA","85.6","%R","","-99","NA","","IS","85.6","","-99","NA","YES","100","","0.118","0.001","-99",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","13C8-PFOSA","13C8-PFOSA","63.2","%R","","-99","NA","","IS","63.2","","-99","NA","YES","100","","0.118","0.001","-99",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","13C8-PFOS","13C8-PFOS","93.3","%R","","-99","NA","","IS","93.3","","-99","NA","YES","100","","0.118","0.001","-99",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","13C2-PFDA","13C2-PFDA","80.3","%R","","-99","NA","","IS","80.3","","-99","NA","YES","100","","0.118","0.001","-99",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","13C2-8:2 FTS","13C2-8:2 FTS","101","%R","","-99","NA","","IS","101","","-99","NA","YES","100","","0.118","0.001","-99",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","d3-MeFOSAA","d3-MeFOSAA","75.0","%R","","-99","NA","","IS","75.0","","-99","NA","YES","100","","0.118","0.001","-99",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","d5-EtFOSAA","d5-EtFOSAA","78.1","%R","","-99","NA","","IS","78.1","","-99","NA","YES","100","","0.118","0.001","-99",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","13C2-PFUnA","13C2-PFUnA","81.4","%R","","-99","NA","","IS","81.4","","-99","NA","YES","100","","0.118","0.001","-99",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","13C2-PFDoA","13C2-PFDoA","76.8","%R","","-99","NA","","IS","76.8","","-99","NA","YES","100","","0.118","0.001","-99",""
"BP-TT-AOC22-MW03-20180915","Modified EPA 537","Initial","1803086-11","Vista","13C2-PFTeDA","13C2-PFTeDA","75.2","%R","","-99","NA","","IS","75.2","","-99","NA","YES","100","","0.118","0.001","-99",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","375-22-4","PFBA","50.3","ng/L","","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","2706-90-3","PFPeA","220","ng/L","","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","375-73-5","PFBS","5.53","ng/L","UU","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","307-24-4","PFHxA","158","ng/L","","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","375-85-9","PFHpA","167","ng/L","","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","355-46-4","PFHxS","5.53","ng/L","UU","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","27619-97-2","6:2 FTS","5.53","ng/L","UU","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","335-67-1","PFOA","33.8","ng/L","","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","375-92-8","PFHpS","5.53","ng/L","UU","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","375-95-1","PFNA","5.53","ng/L","UU","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","754-91-6","PFOSA","5.53","ng/L","UU","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53","
"

"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","1763-23-1","PFOS","5.54","ng/L","J, Q","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","335-76-2","PFDA","5.53","ng/L","UU","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","39108-34-4","8:2

FTS","5.53","ng/L","UU","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","2355-31-9","MeFOSAA","5.53","ng/L","UU","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","2991-50-6","EtFOSAA","5.53","ng/L","UU","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
,
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","2058-94-8","PFUnA","5.53","ng/L","UU","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","335-77-3","PFDS","5.53","ng/L","UU","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","307-55-1","PFDoA","5.53","ng/L","UU","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","72629-94-8","PFTrDA","5.53","ng/L","UU","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","376-06-7","PFTeDA","5.53","ng/L","UU","3.02","LOD","","TRG","","","8.81","LOQ","YES","-99","","0.113","0.001","5.53",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","13C3-PFBA","13C3-PFBA","97.3","%R","","-99","NA","","IS","97.3","","-99","NA","YES","100","","0.113","0.001","-99",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","13C3-PFPeA","13C3-PFPeA","95.4","%R","","-99","NA","","IS","95.4","","-99","NA","YES","100","","0.113","0.001","-99",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","13C3-PFBS","13C3-PFBS","97.8","%R","","-99","NA","","IS","97.8","","-99","NA","YES","100","","0.113","0.001","-99",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","13C2-PFHxA","13C2-PFHxA","93.5","%R","","-99","NA","","IS","93.5","","-99","NA","YES","100","","0.113","0.001","-99",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","13C4-PFHpA","13C4-PFHpA","96.2","%R","","-99","NA","","IS","96.2","","-99","NA","YES","100","","0.113","0.001","-99",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","18O2-PFHxS","18O2-PFHxS","102","%R","","-99","NA","","IS","102","","-99","NA","YES","100","","0.113","0.001","-99",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","13C2-6:2 FTS","13C2-6:2 FTS","83.0","%R","","-99","NA","","IS","83.0","","-99","NA","YES","100","","0.113","0.001","-99",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","13C2-PFOA","13C2-PFOA","91.4","%R","","-99","NA","","IS","91.4","","-99","NA","YES","100","","0.113","0.001","-99",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","13C5-PFNA","13C5-PFNA","76.4","%R","","-99","NA","","IS","76.4","","-99","NA","YES","100","","0.113","0.001","-99",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","13C8-PFOSA","13C8-PFOSA","47.2","%R","H","-99","NA","","IS","47.2","","-99","NA","YES","100","","0.113","0.001","-99",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","13C8-PFOS","13C8-PFOS","94.4","%R","","-99","NA","","IS","94.4","","-99","NA","YES","100","","0.113","0.001","-99",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","13C2-PFDA","13C2-PFDA","71.7","%R","","-99","NA","","IS","71.7","","-99","NA","YES","100","","0.113","0.001","-99",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","13C2-8:2 FTS","13C2-8:2 FTS","87.6","%R","","-99","NA","","IS","87.6","","-99","NA","YES","100","","0.113","0.001","-99",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","d3-MeFOSAA","d3-MeFOSAA","70.9","%R","","-99","NA","","IS","70.9","","-99","NA","YES","100","","0.113","0.001","-99",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","d5-EtFOSAA","d5-EtFOSAA","77.9","%R","","-99","NA","","IS","77.9","","-99","NA","YES","100","","0.113","0.001","-99",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","13C2-PFUnA","13C2-PFUnA","69.9","%R","","-99","NA","","IS","69.9","","-99","NA","YES","100","","0.113","0.001","-99",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","13C2-PFDoA","13C2-

PFDoA","78.0","%R","","-99","NA","","IS","78.0","","-99","NA","YES","100","","0.113","0.001","-99",""
"BPSI-TT-MW309S-20180915","Modified EPA 537","Initial","1803086-12","Vista","13C2-PFTeDA","13C2-
PFTeDA","91.8","%R","","-99","NA","","IS","91.8","","-99","NA","YES","100","","0.113","0.001","-99",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","375-22-
4","PFBA","5.43","ng/L","UU","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","2706-90-
3","PFPeA","5.43","ng/L","UU","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","375-73-
5","PFBS","5.43","ng/L","UU","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","307-24-
4","PFHxA","6.13","ng/L","J","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","375-85-
9","PFHpA","8.22","ng/L","J,
Q","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","355-46-
4","PFHxS","4.20","ng/L","J,
Q","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","27619-97-2","6:2
FTS","5.43","ng/L","UU","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","335-67-
1","PFOA","22.2","ng/L","","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","375-92-
8","PFHpS","5.43","ng/L","UU","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","375-95-
1","PFNA","5.43","ng/L","UU","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","754-91-
6","PFOSA","5.43","ng/L","UU","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43","
"
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","1763-23-
1","PFOS","9.48","ng/L","Q","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","335-76-
2","PFDA","5.43","ng/L","UU","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","39108-34-4","8:2
FTS","5.43","ng/L","UU","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","2355-31-
9","MeFOSAA","5.43","ng/L","UU","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.4
3",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","2991-50-
6","EtFOSAA","5.43","ng/L","UU","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43
",""
,
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","2058-94-
8","PFUnA","5.43","ng/L","UU","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43","
"
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","335-77-
3","PFDS","5.43","ng/L","UU","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","307-55-
1","PFDoA","5.43","ng/L","UU","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43","
"
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","72629-94-
8","PFTrDA","5.43","ng/L","UU","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43",
""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","376-06-
7","PFTeDA","5.43","ng/L","UU","2.98","LOD","","TRG","","","8.71","LOQ","YES","-99","","0.115","0.001","5.43",
""

"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","13C3-PFBA","13C3-PFBA","101","%R","","-99","NA","","IS","101","","-99","NA","YES","100","","0.115","0.001","-99",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","13C3-PFPeA","13C3-PFPeA","100","%R","","-99","NA","","IS","100","","-99","NA","YES","100","","0.115","0.001","-99",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","13C3-PFBS","13C3-PFBS","103","%R","","-99","NA","","IS","103","","-99","NA","YES","100","","0.115","0.001","-99",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","13C2-PFHxA","13C2-PFHxA","97.5","%R","","-99","NA","","IS","97.5","","-99","NA","YES","100","","0.115","0.001","-99",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","13C4-PFHpA","13C4-PFHpA","99.5","%R","","-99","NA","","IS","99.5","","-99","NA","YES","100","","0.115","0.001","-99",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","18O2-PFHxS","18O2-PFHxS","101","%R","","-99","NA","","IS","101","","-99","NA","YES","100","","0.115","0.001","-99",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","13C2-6:2 FTS","13C2-6:2 FTS","92.6","%R","","-99","NA","","IS","92.6","","-99","NA","YES","100","","0.115","0.001","-99",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","13C2-PFOA","13C2-PFOA","98.6","%R","","-99","NA","","IS","98.6","","-99","NA","YES","100","","0.115","0.001","-99",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","13C5-PFNA","13C5-PFNA","82.3","%R","","-99","NA","","IS","82.3","","-99","NA","YES","100","","0.115","0.001","-99",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","13C8-PFOSA","13C8-PFOSA","73.0","%R","","-99","NA","","IS","73.0","","-99","NA","YES","100","","0.115","0.001","-99",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","13C8-PFOS","13C8-PFOS","100","%R","","-99","NA","","IS","100","","-99","NA","YES","100","","0.115","0.001","-99",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","13C2-PFDA","13C2-PFDA","74.5","%R","","-99","NA","","IS","74.5","","-99","NA","YES","100","","0.115","0.001","-99",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","13C2-8:2 FTS","13C2-8:2 FTS","103","%R","","-99","NA","","IS","103","","-99","NA","YES","100","","0.115","0.001","-99",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","d3-MeFOSAA","d3-MeFOSAA","87.3","%R","","-99","NA","","IS","87.3","","-99","NA","YES","100","","0.115","0.001","-99",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","d5-EtFOSAA","d5-EtFOSAA","94.1","%R","","-99","NA","","IS","94.1","","-99","NA","YES","100","","0.115","0.001","-99",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","13C2-PFUnA","13C2-PFUnA","78.2","%R","","-99","NA","","IS","78.2","","-99","NA","YES","100","","0.115","0.001","-99",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","13C2-PFDoA","13C2-PFDoA","77.2","%R","","-99","NA","","IS","77.2","","-99","NA","YES","100","","0.115","0.001","-99",""
"BP-TT-AOC22-MW10-20180915","Modified EPA 537","Initial","1803086-13","Vista","13C2-PFTeDA","13C2-PFTeDA","88.1","%R","","-99","NA","","IS","88.1","","-99","NA","YES","100","","0.115","0.001","-99",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","375-22-4","PFBA","13.9","ng/L","","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","2706-90-3","PFPeA","33.8","ng/L","","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","375-73-5","PFBS","5.17","ng/L","UU","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","307-24-4","PFHxA","23.5","ng/L","","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","375-85-9","PFHpA","15.5","ng/L","","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","355-46-4","PFHxS","3.04","ng/L","J","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","27619-97-2","6:2 FTS","9.63","ng/L","","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","335-67-1","PFOA","16.8","ng/L","","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","375-92-8","PFHpS","5.17","ng/L","UU","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""

"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","375-95-1","PFNA","7.60","ng/L","J","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","754-91-6","PFOSA","5.17","ng/L","UU","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","1763-23-1","PFOS","14.5","ng/L","","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","335-76-2","PFDA","5.17","ng/L","UU","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","39108-34-4","8:2 FTS","6.56","ng/L","J","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","2355-31-9","MeFOSAA","5.17","ng/L","UU","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","2991-50-6","EtFOSAA","5.17","ng/L","UU","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
,
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","2058-94-8","PFUnA","5.17","ng/L","UU","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","335-77-3","PFDS","5.17","ng/L","UU","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","307-55-1","PFDoA","5.17","ng/L","UU","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","72629-94-8","PFTrDA","5.17","ng/L","UU","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","376-06-7","PFTeDA","5.17","ng/L","UU","2.83","LOD","","TRG","","","8.26","LOQ","YES","-99","","0.121","0.001","5.17",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","13C3-PFBA","13C3-PFBA","99.7","%R","","-99","NA","","IS","99.7","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","13C3-PFPeA","13C3-PFPeA","93.8","%R","","-99","NA","","IS","93.8","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","13C3-PFBS","13C3-PFBS","103","%R","","-99","NA","","IS","103","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","13C2-PFHxA","13C2-PFHxA","96.9","%R","","-99","NA","","IS","96.9","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","13C4-PFHpA","13C4-PFHpA","100","%R","","-99","NA","","IS","100","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","18O2-PFHxS","18O2-PFHxS","102","%R","","-99","NA","","IS","102","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","13C2-6:2 FTS","13C2-6:2 FTS","90.5","%R","","-99","NA","","IS","90.5","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","13C2-PFOA","13C2-PFOA","92.8","%R","","-99","NA","","IS","92.8","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","13C5-PFNA","13C5-PFNA","82.8","%R","","-99","NA","","IS","82.8","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","13C8-PFOSA","13C8-PFOSA","50.1","%R","","-99","NA","","IS","50.1","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","13C8-PFOS","13C8-PFOS","96.4","%R","","-99","NA","","IS","96.4","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","13C2-PFDA","13C2-

PFDA","73.3","%R","","-99","NA","","IS","73.3","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","13C2-8:2 FTS","13C2-8:2 FTS","90.3","%R","","-99","NA","","IS","90.3","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","d3-MeFOSAA","d3-MeFOSAA","75.8","%R","","-99","NA","","IS","75.8","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","d5-EtFOSAA","d5-EtFOSAA","78.1","%R","","-99","NA","","IS","78.1","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","13C2-PFUnA","13C2-PFUnA","69.8","%R","","-99","NA","","IS","69.8","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","13C2-PFDoA","13C2-PFDoA","78.5","%R","","-99","NA","","IS","78.5","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-MH-SW4001-SOUTH-20180915","Modified EPA 537","Initial","1803086-14","Vista","13C2-PFTeDA","13C2-PFTeDA","80.5","%R","","-99","NA","","IS","80.5","","-99","NA","YES","100","","0.121","0.001","-99",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","375-22-4","PFBA","14.5","ng/L","","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","2706-90-3","PFPeA","32.9","ng/L","","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","375-73-5","PFBS","5.48","ng/L","UU","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","307-24-4","PFHxA","23.0","ng/L","","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","375-85-9","PFHpA","16.4","ng/L","","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","355-46-4","PFHxS","5.48","ng/L","UU","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","27619-97-2","6:2 FTS","10.1","ng/L","","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","335-67-1","PFOA","17.2","ng/L","","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","375-92-8","PFHpS","5.48","ng/L","UU","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","375-95-1","PFNA","7.43","ng/L","J","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","754-91-6","PFOSA","5.48","ng/L","UU","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48","
"
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","1763-23-1","PFOS","10.7","ng/L","","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","335-76-2","PFDA","5.48","ng/L","UU","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","39108-34-4","8:2 FTS","4.32","ng/L","J","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","2355-31-9","MeFOSAA","5.48","ng/L","UU","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","2991-50-6","EtFOSAA","5.48","ng/L","UU","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48","",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","2058-94-8","PFUnA","5.48","ng/L","UU","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48","
"
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","335-77-3","PFDS","5.48","ng/L","UU","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","307-55-

1","PFDoA","5.48","ng/L","UU","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48","
"

"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","72629-94-
8","PFTrDA","5.48","ng/L","UU","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",
""

"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","376-06-
7","PFTeDA","5.48","ng/L","UU","3.00","LOD","","TRG","","","8.76","LOQ","YES","-99","","0.114","0.001","5.48",
""

"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","13C3-PFBA","13C3-
PFBA","98.7","%R","","-99","NA","","IS","98.7","","-99","NA","YES","100","","0.114","0.001","-99",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","13C3-PFPeA","13C3-
PFPeA","94.9","%R","","-99","NA","","IS","94.9","","-99","NA","YES","100","","0.114","0.001","-99",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","13C3-PFBS","13C3-
PFBS","97.0","%R","","-99","NA","","IS","97.0","","-99","NA","YES","100","","0.114","0.001","-99",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","13C2-PFHxA","13C2-
PFHxA","95.1","%R","","-99","NA","","IS","95.1","","-99","NA","YES","100","","0.114","0.001","-99",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","13C4-PFHpA","13C4-
PFHpA","97.9","%R","","-99","NA","","IS","97.9","","-99","NA","YES","100","","0.114","0.001","-99",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","18O2-PFHxS","18O2-
PFHxS","101","%R","","-99","NA","","IS","101","","-99","NA","YES","100","","0.114","0.001","-99",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","13C2-6:2 FTS","13C2-6:2
FTS","90.6","%R","","-99","NA","","IS","90.6","","-99","NA","YES","100","","0.114","0.001","-99",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","13C2-PFOA","13C2-
PFOA","93.6","%R","","-99","NA","","IS","93.6","","-99","NA","YES","100","","0.114","0.001","-99",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","13C5-PFNA","13C5-
PFNA","82.3","%R","","-99","NA","","IS","82.3","","-99","NA","YES","100","","0.114","0.001","-99",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","13C8-PFOSA","13C8-
PFOSA","39.3","%R","H","-99","NA","","IS","39.3","","-99","NA","YES","100","","0.114","0.001","-99",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","13C8-PFOS","13C8-
PFOS","97.2","%R","","-99","NA","","IS","97.2","","-99","NA","YES","100","","0.114","0.001","-99",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","13C2-PFDA","13C2-
PFDA","68.9","%R","","-99","NA","","IS","68.9","","-99","NA","YES","100","","0.114","0.001","-99",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","13C2-8:2 FTS","13C2-8:2
FTS","85.7","%R","","-99","NA","","IS","85.7","","-99","NA","YES","100","","0.114","0.001","-99",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","d3-MeFOSAA","d3-
MeFOSAA","74.4","%R","","-99","NA","","IS","74.4","","-99","NA","YES","100","","0.114","0.001","-99",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","d5-EtFOSAA","d5-
EtFOSAA","79.1","%R","","-99","NA","","IS","79.1","","-99","NA","YES","100","","0.114","0.001","-99",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","13C2-PFUnA","13C2-
PFUnA","66.5","%R","","-99","NA","","IS","66.5","","-99","NA","YES","100","","0.114","0.001","-99",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","13C2-PFDoA","13C2-
PFDoA","73.1","%R","","-99","NA","","IS","73.1","","-99","NA","YES","100","","0.114","0.001","-99",""
"BP-DUP03-20180915","Modified EPA 537","Initial","1803086-15","Vista","13C2-PFTeDA","13C2-
PFTeDA","85.0","%R","","-99","NA","","IS","85.0","","-99","NA","YES","100","","0.114","0.001","-99",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","375-22-
4","PFBA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","2706-90-
3","PFPeA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","375-73-
5","PFBS","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","307-24-
4","PFHxA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00","
"

"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","375-85-

9","PFHpA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00","
"
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","355-46-
4","PFHxS","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","27619-97-2","6:2
FTS","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","335-67-
1","PFOA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","375-92-
8","PFHpS","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","375-95-
1","PFNA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","754-91-
6","PFOSA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00","
"
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","1763-23-
1","PFOS","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","335-76-
2","PFDA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","39108-34-4","8:2
FTS","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","2355-31-
9","MeFOSAA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.0
0",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","2991-50-
6","EtFOSAA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00
",""
,
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","2058-94-
8","PFUnA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00","
"
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","335-77-
3","PFDS","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","307-55-
1","PFDoA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00","
"
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","72629-94-
8","PFTrDA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",
""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","376-06-
7","PFTeDA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",
""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","13C3-PFBA","13C3-
PFBA","95.7","%R","","-99","NA","","IS","95.7","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","13C3-PFPeA","13C3-
PFPeA","89.2","%R","","-99","NA","","IS","89.2","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","13C3-PFBS","13C3-
PFBS","100","%R","","-99","NA","","IS","100","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","13C2-PFHxA","13C2-
PFHxA","88.8","%R","","-99","NA","","IS","88.8","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","13C4-PFHpA","13C4-
PFHpA","92.9","%R","","-99","NA","","IS","92.9","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","18O2-PFHxS","18O2-
PFHxS","99.0","%R","","-99","NA","","IS","99.0","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","13C2-6:2 FTS","13C2-6:2

FTS","88.5","%R","","-99","NA","","IS","88.5","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","13C2-PFOA","13C2-
PFOA","86.9","%R","","-99","NA","","IS","86.9","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","13C5-PFNA","13C5-
PFNA","83.7","%R","","-99","NA","","IS","83.7","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","13C8-PFOSA","13C8-
PFOSA","44.5","%R","H","-99","NA","","IS","44.5","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","13C8-PFOS","13C8-
PFOS","99.7","%R","","-99","NA","","IS","99.7","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","13C2-PFDA","13C2-
PFDA","71.0","%R","","-99","NA","","IS","71.0","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","13C2-8:2 FTS","13C2-8:2
FTS","84.8","%R","","-99","NA","","IS","84.8","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","d3-MeFOSAA","d3-
MeFOSAA","63.0","%R","","-99","NA","","IS","63.0","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","d5-EtFOSAA","d5-
EtFOSAA","64.5","%R","","-99","NA","","IS","64.5","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","13C2-PFUnA","13C2-
PFUnA","65.6","%R","","-99","NA","","IS","65.6","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","13C2-PFDoA","13C2-
PFDoA","68.0","%R","","-99","NA","","IS","68.0","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BLK1","Modified EPA 537","Initial","B8I0155-BLK1","Vista","13C2-PFTeDA","13C2-
PFTeDA","70.5","%R","","-99","NA","","IS","70.5","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","375-22-
4","PFBA","72.3","ng/L","","2.74","LOD","","TRG","90.3","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
"
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","2706-90-
3","PFPeA","73.5","ng/L","","2.74","LOD","","TRG","91.9","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","375-73-
5","PFBS","76.9","ng/L","","2.74","LOD","","TRG","96.1","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
"
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","307-24-
4","PFHxA","74.7","ng/L","","2.74","LOD","","TRG","93.4","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","375-85-
9","PFHpA","73.3","ng/L","","2.74","LOD","","TRG","91.7","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","355-46-
4","PFHxS","74.9","ng/L","","2.74","LOD","","TRG","93.6","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","27619-97-2","6:2
FTS","77.1","ng/L","","2.74","LOD","","TRG","96.4","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","335-67-
1","PFOA","71.5","ng/L","","2.74","LOD","","TRG","89.4","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
"
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","375-92-
8","PFHpS","73.2","ng/L","","2.74","LOD","","TRG","91.5","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","375-95-
1","PFNA","73.7","ng/L","","2.74","LOD","","TRG","92.1","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
"
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","754-91-
6","PFOSA","76.0","ng/L","Q","2.74","LOD","","TRG","95.0","","8.00","LOQ","YES","80.0","","0.125","0.001","5.0

0",""

"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","1763-23-1","PFOS","69.0","ng/L","","2.74","LOD","","TRG","86.2","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",""

"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","335-76-2","PFDA","74.2","ng/L","","2.74","LOD","","TRG","92.7","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",""

"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","39108-34-4","8:2 FTS","78.7","ng/L","","2.74","LOD","","TRG","98.4","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","2355-31-9","MeFOSAA","78.2","ng/L","","2.74","LOD","","TRG","97.7","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","2991-50-6","EtFOSAA","71.4","ng/L","","2.74","LOD","","TRG","89.2","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","2058-94-8","PFUnA","75.4","ng/L","","2.74","LOD","","TRG","94.2","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",""

"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","335-77-3","PFDS","65.1","ng/L","","2.74","LOD","","TRG","81.4","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",""

"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","307-55-1","PFDoA","72.5","ng/L","","2.74","LOD","","TRG","90.7","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",""

"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","72629-94-8","PFTrDA","71.7","ng/L","","2.74","LOD","","TRG","89.6","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",""
,""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","376-06-7","PFTeDA","67.4","ng/L","","2.74","LOD","","TRG","84.2","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",""
,""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","13C3-PFBA","13C3-PFBA","98.9","%R","","-99","NA","","IS","98.9","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","13C3-PFPeA","13C3-PFPeA","94.7","%R","","-99","NA","","IS","94.7","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","13C3-PFBS","13C3-PFBS","97.1","%R","","-99","NA","","IS","97.1","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","13C2-PFHxA","13C2-PFHxA","94.6","%R","","-99","NA","","IS","94.6","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","13C4-PFHpA","13C4-PFHpA","97.0","%R","","-99","NA","","IS","97.0","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","18O2-PFHxS","18O2-PFHxS","96.1","%R","","-99","NA","","IS","96.1","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","13C2-6:2 FTS","13C2-6:2 FTS","93.5","%R","","-99","NA","","IS","93.5","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","13C2-PFOA","13C2-PFOA","89.7","%R","","-99","NA","","IS","89.7","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","13C5-PFNA","13C5-PFNA","87.3","%R","","-99","NA","","IS","87.3","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","13C8-PFOSA","13C8-PFOSA","45.1","%R","H","-99","NA","","IS","45.1","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","13C8-PFOS","13C8-PFOS","97.7","%R","","-99","NA","","IS","97.7","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","13C2-PFDA","13C2-PFDA","74.2","%R","","-99","NA","","IS","74.2","","-99","NA","YES","100","","0.125","0.001","-99",""

"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","13C2-8:2 FTS","13C2-8:2 FTS","91.2","%R","","-99","NA","","IS","91.2","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","d3-MeFOSAA","d3-MeFOSAA","70.8","%R","","-99","NA","","IS","70.8","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","d5-EtFOSAA","d5-EtFOSAA","79.1","%R","","-99","NA","","IS","79.1","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","13C2-PFUnA","13C2-PFUnA","69.3","%R","","-99","NA","","IS","69.3","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","13C2-PFDoA","13C2-PFDoA","77.9","%R","","-99","NA","","IS","77.9","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-BS1","Modified EPA 537","Initial","B8I0155-BS1","Vista","13C2-PFTeDA","13C2-PFTeDA","81.2","%R","","-99","NA","","IS","81.2","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","375-22-4","PFBA","93.9","ng/L","","2.86","LOD","","TRG","91.7","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","2706-90-3","PFPeA","93.8","ng/L","","2.86","LOD","","TRG","92.1","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","375-73-5","PFBS","78.7","ng/L","","2.86","LOD","","TRG","94.3","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","307-24-4","PFHxA","96.6","ng/L","","2.86","LOD","","TRG","96.0","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","375-85-9","PFHpA","88.6","ng/L","","2.86","LOD","","TRG","93.2","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","355-46-4","PFHxS","83.5","ng/L","","2.86","LOD","","TRG","97.8","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","27619-97-2","6:2 FTS","76.4","ng/L","","2.86","LOD","","TRG","91.6","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","335-67-1","PFOA","93.6","ng/L","","2.86","LOD","","TRG","95.3","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","375-92-8","PFHpS","69.2","ng/L","","2.86","LOD","","TRG","82.4","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","375-95-1","PFNA","89.8","ng/L","","2.86","LOD","","TRG","103","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","754-91-6","PFOSA","78.6","ng/L","","2.86","LOD","","TRG","94.3","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","1763-23-1","PFOS","86.1","ng/L","","2.86","LOD","","TRG","90.8","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","335-76-2","PFDA","83.1","ng/L","","2.86","LOD","","TRG","96.6","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","39108-34-4","8:2 FTS","75.7","ng/L","","2.86","LOD","","TRG","90.7","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""

"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","2355-31-9","MeFOSAA","80.2","ng/L","","2.86","LOD","","TRG","96.2","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","2991-50-6","EtFOSAA","79.4","ng/L","","2.86","LOD","","TRG","95.2","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","2058-94-8","PFUnA","78.6","ng/L","","2.86","LOD","","TRG","94.2","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","335-77-3","PFDS","65.8","ng/L","","2.86","LOD","","TRG","78.9","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","307-55-1","PFDoA","77.7","ng/L","","2.86","LOD","","TRG","93.2","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","72629-94-8","PFTrDA","84.0","ng/L","","2.86","LOD","","TRG","101","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","376-06-7","PFTeDA","74.8","ng/L","","2.86","LOD","","TRG","89.7","","8.34","LOQ","YES","83.4","BPSI-TT-MW308D-20180914","0.120","0.001","5.21",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","13C3-PFBA","13C3-PFBA","97.9","%R","","-99","NA","","IS","97.9","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.120","0.001","-99",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","13C3-PFPeA","13C3-PFPeA","95.6","%R","","-99","NA","","IS","95.6","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.120","0.001","-99",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","13C3-PFBS","13C3-PFBS","103","%R","","-99","NA","","IS","103","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.120","0.001","-99",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","13C2-PFHxA","13C2-PFHxA","93.7","%R","","-99","NA","","IS","93.7","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.120","0.001","-99",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","13C4-PFHpA","13C4-PFHpA","101","%R","","-99","NA","","IS","101","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.120","0.001","-99",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","18O2-PFHxS","18O2-PFHxS","101","%R","","-99","NA","","IS","101","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.120","0.001","-99",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","13C2-6:2 FTS","13C2-6:2 FTS","89.4","%R","","-99","NA","","IS","89.4","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.120","0.001","-99",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","13C2-PFOA","13C2-PFOA","93.4","%R","","-99","NA","","IS","93.4","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.120","0.001","-99",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","13C5-PFNA","13C5-PFNA","77.4","%R","","-99","NA","","IS","77.4","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.120","0.001","-99",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","13C8-PFOSA","13C8-PFOSA","43.6","%R","H","-99","NA","","IS","43.6","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.120","0.001","-99",""
"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","13C8-PFOS","13C8-PFOS","97.9","%R","","-99","NA","","IS","97.9","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.120","0.001","-99",""

"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","13C2-PFDA","13C2-PFDA","65.3","%R","","-99","NA","","IS","65.3","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.120","0.001","-99",""

"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","13C2-8:2 FTS","13C2-8:2 FTS","87.8","%R","","-99","NA","","IS","87.8","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.120","0.001","-99",""

"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","d3-MeFOSAA","d3-MeFOSAA","69.1","%R","","-99","NA","","IS","69.1","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.120","0.001","-99",""

"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","d5-EtFOSAA","d5-EtFOSAA","69.8","%R","","-99","NA","","IS","69.8","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.120","0.001","-99",""

"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","13C2-PFUnA","13C2-PFUnA","66.9","%R","","-99","NA","","IS","66.9","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.120","0.001","-99",""

"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","13C2-PFDoA","13C2-PFDoA","71.2","%R","","-99","NA","","IS","71.2","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.120","0.001","-99",""

"B8I0155-MS1","Modified EPA 537","Initial","B8I0155-MS1","Vista","13C2-PFTeDA","13C2-PFTeDA","86.5","%R","","-99","NA","","IS","86.5","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.120","0.001","-99",""

"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","375-22-4","PFBA","92.0","ng/L","","2.84","LOD","","TRG","90.0","1.87","8.29","LOQ","YES","82.9","BPSI-TT-MW308D-20180914","0.121","0.001","5.17",""

"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","2706-90-3","PFPeA","92.4","ng/L","","2.84","LOD","","TRG","90.9","1.31","8.29","LOQ","YES","82.9","BPSI-TT-MW308D-20180914","0.121","0.001","5.17",""

"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","375-73-5","PFBS","81.5","ng/L","","2.84","LOD","","TRG","98.3","4.15","8.29","LOQ","YES","82.9","BPSI-TT-MW308D-20180914","0.121","0.001","5.17",""

"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","307-24-4","PFHxA","96.6","ng/L","","2.84","LOD","","TRG","96.6","0.623","8.29","LOQ","YES","82.9","BPSI-TT-MW308D-20180914","0.121","0.001","5.17",""

"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","375-85-9","PFHpA","85.4","ng/L","","2.84","LOD","","TRG","89.9","3.60","8.29","LOQ","YES","82.9","BPSI-TT-MW308D-20180914","0.121","0.001","5.17",""

"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","355-46-4","PFHxS","76.9","ng/L","","2.84","LOD","","TRG","90.4","7.86","8.29","LOQ","YES","82.9","BPSI-TT-MW308D-20180914","0.121","0.001","5.17",""

"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","27619-97-2","6:2 FTS","80.0","ng/L","","2.84","LOD","","TRG","96.5","5.21","8.29","LOQ","YES","82.9","BPSI-TT-MW308D-20180914","0.121","0.001","5.17",""

"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","335-67-1","PFOA","89.9","ng/L","","2.84","LOD","","TRG","91.4","4.18","8.29","LOQ","YES","82.9","BPSI-TT-MW308D-20180914","0.121","0.001","5.17",""

"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","375-92-8","PFHpS","74.7","ng/L","","2.84","LOD","","TRG","89.6","8.37","8.29","LOQ","YES","82.9","BPSI-TT-MW308D-20180914","0.121","0.001","5.17",""

"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","375-95-1","PFNA","87.7","ng/L","","2.84","LOD","","TRG","101","1.96","8.29","LOQ","YES","82.9","BPSI-TT-MW308D-20180914","0.121","0.001","5.17",""

"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","754-91-6","PFOSA","79.2","ng/L","Q","2.84","LOD","","TRG","95.5","1.26","8.29","LOQ","YES","82.9","BPSI-TT-MW308D-20180914","0.121","0.001","5.17",""

"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","1763-23-1","PFOS","83.2","ng/L","","2.84","LOD","","TRG","87.8","3.36","8.29","LOQ","YES","82.9","BPSI-TT-MW308D-20180914","0.121","0.001","5.17",""
"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","335-76-2","PFDA","84.0","ng/L","","2.84","LOD","","TRG","98.3","1.74","8.29","LOQ","YES","82.9","BPSI-TT-MW308D-20180914","0.121","0.001","5.17",""
"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","39108-34-4","8:2 FTS","73.8","ng/L","","2.84","LOD","","TRG","89.0","1.89","8.29","LOQ","YES","82.9","BPSI-TT-MW308D-20180914","0.121","0.001","5.17",""
"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","2355-31-9","MeFOSAA","76.6","ng/L","","2.84","LOD","","TRG","92.4","4.03","8.29","LOQ","YES","82.9","BPSI-TT-MW308D-20180914","0.121","0.001","5.17",""
"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","2991-50-6","EtFOSAA","81.5","ng/L","","2.84","LOD","","TRG","98.4","3.31","8.29","LOQ","YES","82.9","BPSI-TT-MW308D-20180914","0.121","0.001","5.17",""
"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","2058-94-8","PFUnA","82.2","ng/L","","2.84","LOD","","TRG","99.2","5.17","8.29","LOQ","YES","82.9","BPSI-TT-MW308D-20180914","0.121","0.001","5.17",""
"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","335-77-3","PFDS","65.1","ng/L","","2.84","LOD","","TRG","78.5","0.508","8.29","LOQ","YES","82.9","BPSI-TT-MW308D-20180914","0.121","0.001","5.17",""
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"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","13C3-PFBA","13C3-PFBA","98.6","%R","","-99","NA","","IS","98.6","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.121","0.001","-99",""
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"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","13C5-PFNA","13C5-PFNA","85.8","%R","","-99","NA","","IS","85.8","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.121","0.001","-99",""
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"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","13C2-PFDA","13C2-PFDA","73.5","%R","","-99","NA","","IS","73.5","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.121","0.001","-99",""
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"B8I0155-MSD1","Modified EPA 537","Initial","B8I0155-MSD1","Vista","13C2-PFDoA","13C2-PFDoA","78.0","%R","","-99","NA","","IS","78.0","","-99","NA","YES","100","BPSI-TT-MW308D-20180914","0.121","0.001","-99",""
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DATA VALIDATION SUMMARY REPORT - RADIOCHEMISTRY

COMPANY:	Tetra Tech, Inc., Norfolk, VA
PROJECT NAME:	Basewide Radiological Groundwater Investigation, Naval Weapons Industrial Reserve Plant (NWIRP), Bethpage, NY
SITE NAME:	CTO-WE09
CONTRACTED LAB:	Vista Analytical Laboratory
CONTRACT NO.:	N62470-16-D-9008
QA/QC LEVEL:	EPA Stage 4
ANALYTICAL METHODS:	EPA 537 Modified
VALIDATION GUIDELINES:	Sampling and Analysis Plan for Per- and polyfluoroalkyl Substances Investigation, February 2018, QSM 5.1, and Professional Judgment
SAMPLE MATRIX:	Water
TYPES OF ANALYSES:	Per- and Polyfluoroalkyl Substances (PFAS) Using Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS)
DATA VALIDATION DATE:	March 10, 2019
DATA REVIEWER(S):	Thomas B. Granat
SDG NUMBER:	1803086
SAMPLING DATE(S):	September 13-15, 2018

SAMPLES:

Client Sample ID	Laboratory ID	PFAS
BPSI-TT-MW308D-20180914	1803086-01	X
BP-HN-MW24S-20180914	1803086-02	X
BP-HN-MW24IR-20180914	1803086-03	X
BP-DUP02-20180914	1803086-04	X
BPSI-TT-MW306I-20180914	1803086-05	X
BPSI-TT-MW306S-20180914	1803086-06	X
BP-FB01-20180913	1803086-07	X
BP-TT-EB02-20180914	1803086-08	X
BP-TT-AOC22-MW04-20180914	1803086-09	X
BPSI-TT-MW308I-20180915	1803086-10	X
BP-TT-AOC22-MW03-20180915	1803086-11	X
BPSI-TT-MW309S-20180915	1803086-12	X
BP-TT-AOC22-MW10-20180915	1803086-13	X
BP-MH-SW4001-SOUTH-20180915	1803086-14	X
BP-DUP03-20180915	1803086-15	X
BPSI-TT-MW308D-20180914	1803086-01MS	X
BPSI-TT-MW308D-20180914	1803086-01MSD	X

Suffix Codes: MS = MATRIX SPIKE, MSD = MATRIX SPIKE DUPLICATE

Qualifier	Definition
No qualifier	Confirmed identification. The analyte was positively identified at the reported value. The reported concentration is within the calibrated range of the instrument and the result is not affected by any deficiencies in the associated quality control criteria.
J	The analyte was detected at the reported concentration; the quantitation is an estimate.
J-	The analyte was detected at the reported concentration; the quantitation is an estimate and may be biased low.
J+	The analyte was detected at the reported concentration; the quantitation is an estimate and may be biased high.
U	Not considered detected. The associated number is the reported concentration.
UJ	Not considered detected. The associated number is the reported concentration, which may be inaccurate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA VALIDATION SUMMARY

Vista Analytical Laboratory – SDG: 1803086

PFAS (Per- and polyfluoroalkyl substances)

SUMMARY

I.)   General:

The samples were extracted and analyzed by LC/MS/MS for a selected list of PFAS using the PFAS Isotope Dilution Method (Modified EPA Method 537). The results for PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Results for all other analytes include the linear isomers only.

II.)   Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

MAJOR ISSUES

There were no major problems for this fraction of the SDG.

MINOR ISSUES

I.)   Laboratory Data Package:

The required documentation was present and complete. The laboratory presented a complete and accurate case narrative in the data package. The data package contains results for all samples and method types listed on the COC.

II.)   Sample Receipt, Preservation, and Holding Times:

The samples were received intact with proper COC documentation and signatures. The samples were received within the method temperature requirements and were stored securely in accordance with Vista standard operating procedures and EPA methodology. The samples were extracted and analyzed within the method hold times. Some sample COC IDs did not match sample Label IDs. The correct sample IDs were provided via client email. No data qualification was necessary.

III.)   LC-MS Tune:

All LC-MS Tune criteria were met. No data qualification was necessary.

IV.)   Initial Calibration (ICAL) and Initial Calibration Verification (ICV):

All Initial Calibration and Initial Calibration Verification criteria were met. No data qualification was necessary.

V.)   Continuing Calibration (CCV):

All Continuing Calibration Verification criteria were met. No data qualification was necessary.

VI.)   CRDL / CRQL standards:

All CRDL / CRQL standards criteria were met. No data qualification was necessary.

VII.)   Blanks:

Calibration Blanks:

There were no detections in the calibration blanks. No data qualification was necessary.

Preparation Blanks:

There were no detections in the preparation blanks. No data qualification was necessary.

Equipment Blanks:

There were no detections in associated equipment blank BP-TT-EB02-20180914. No data qualification was necessary.

Field Blanks:

There were no detections in associated field blank BP-FB01-20180913. There were no detections in the associated field reagent blanks (analyzed in SDG 1803088). No data qualification was necessary.

VIII.)   Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses were performed on SDG sample BPSI-TT-MW308D-20180914. The Percent Recoveries (%Rs) and Relative Percent Differences (RPDs) met criteria. No data qualification was necessary.

IV.)   Duplicate Sample Analysis:

MD analysis was performed on SDG samples BPSI-TT-MW308D-20180914. All criteria were met. No data qualification was necessary.

X.)   Laboratory Control Samples (LCS):

All LCS Recovery criteria were met. No data qualification was necessary.

XI.)   Field Duplicates:

Two FD samples were identified for this fraction of the SDG. Below are the calculated RPDs (Relative Percent Differences) for the detected analyte results used to evaluate the field sampling and laboratory precision for the sample matrix.

Parent Sample	Duplicate Sample	Analyte	RPD
BPSI-TT-MW306I-20180914	BP-DUP02-20180914	PFOA	3.2
		PFBA	2.8
		PFHxA	6.4
		PFHpA	7.1
		PFOA	4.8
		PFNA	13
		PFOS	25
BP-MH-SW4001-SOUTH-20180915	BP-DUP03-20180915	PFOA	4.2
		PFBA	2.7
		PFHxA	2.2
		PFHpA	5.6
		6:S FTS	4.8
		PFOA	2.4
		PFNA	2.3
		PFOS	30
		8:2 FTS	41

The RPDs were within the ≤ 30% QC limit for water samples with the following exception: The RPD for 8:2 FTS was 41%. Both sample and duplicate results were less than 2X LOQ. Based on professional judgment, no data qualification was necessary.

XII.)   Internal Standards Performance (ISTD):

ISTD percent recoveries (%R) for 13C8-PFOSA were below the QC lower limit of 50%. Below are the associated analytes:

Client Sample ID	Lab ID	Analyte	ISTD %R	Qualifier	Code
BPSI-TT-MW308D-20180914	1803086-01	PFOSA	45.3	UJ	N
BP-HN-MW24IR-20180914	1803086-03	PFOSA	46.7	UJ	N
BPSI-TT-MW306I-20180914	1803086-05	PFOSA	47.8	UJ	N
BP-FB01-20180913	1803086-07	PFOSA	46.2	UJ	N
BP-TT-EB02-20180914	1803086-08	PFOSA	34.0	UJ	N
BPSI-TT-MW308I-20180915	1803086-10	PFOSA	46.0	UJ	N
BPSI-TT-MW309S-20180915	1803086-12	PFOSA	47.2	UJ	N
BP-DUP03-20180915	1803086-15	PFOSA	39.3	UJ	N

The above associated analyte results, which were all non-detects, were qualified as estimated (UJ) with reason code N.

XIII.)   Ion Transitions:

Proper Ion transitions were used to quantify the analytes. No data qualification was necessary.

XIV.)   Ion Ratio:

The following Ion ratios were outside of the Standard Ratio QC limits. Below are the associated analytes:

Client Sample ID	Lab ID	Analyte	Qualifier	Code
BP-HN-MW24S-20180914	1803086-02	PFOS	J	Q
BP-DUP02-20180914	1803086-04	PFHxS	J	Q
		PFNA	J	Q
BPSI-TT-MW306I-20180914	1803086-05	PFHpA	J	Q
		PFOS	J	Q
BP-TT-AOC22-MW04-20180914	1803086-09	PFOS	J	Q
BP-TT-AOC22-MW03-20180915	1803086-11	PFHxS	J	Q
		PFHpS	J	Q
BPSI-TT-MW309S-20180915	1803086-12	PFOS	J	Q
BP-TT-AOC22-MW10-20180915	1803086-13	PFHpA	J	Q
		PFHxS	J	Q
		PFOS	J	Q

The above associated analyte results were qualified as estimated (J) with reason code Q.

XV.)   Reporting limits (RLs):

All LOQs were less than the project quantitation limits for the applicable analytes. Sample results were reported to the laboratory MDLs. Several sample results were greater than the MDL but less than the RL (LOQ) and were qualified as estimated (J) by the laboratory. These qualifiers were confirmed by the validator.

XVI.)   Instrument Performance criteria (Stage 4):

All Instrument Performance criteria were met. No data qualification was necessary.

XVII.) Sample Calculation Verification (Stage 4):

All Sample Calculation Verification criteria were met. No discrepancies were noted.

Appendix A

Data Qualification Summary Table (DQST) with Qualification Codes

SAMPLE_ID	SAMP_DATE	LAB_ID	PARAMETER	LAB_RES	LAB_QUAL	VAL_QUAL	VAL_REASON_CODE
BP-DUP02-20180914	9/14/2018 0:00	1803086-04	PFHXS	3.45	J, Q	J	Q
BP-DUP02-20180914	9/14/2018 0:00	1803086-04	PFNA	4.05	J, Q	J	Q
BP-FB01-20180913	9/13/2018 0:00	1803086-07	PFOSA	5.12	UU	UJ	N
BP-HN-MW24IR-20180!	9/14/2018 0:00	1803086-03	PFOSA	5.17	UU	UJ	N
BP-HN-MW24S-201809	9/14/2018 0:00	1803086-02	PFOS	8.84	Q	J	Q
BP-MH-SW4001-SOUTH	9/15/2018 0:00	1803086-14	PFOSA	5.17	UU	UJ	N
BPS1-TT-MW3061-2018	9/14/2018 0:00	1803086-05	PFHPA	11.6	Q	J	Q
BPS1-TT-MW3061-2018	9/14/2018 0:00	1803086-05	PFOS	5.11	J, Q	J	Q
BPS1-TT-MW3061-2018	9/14/2018 0:00	1803086-05	PFOSA	5.34	UU	UJ	N
BPS1-TT-MW308D-201!	9/14/2018 0:00	1803086-01	PFOSA	5.08	UU	UJ	N
BPS1-TT-MW308I-2018	9/15/2018 0:00	1803086-10	PFOSA	5.39	UU	UJ	N
BPS1-TT-MW309S-2018	9/15/2018 0:00	1803086-12	PFOS	5.54	J, Q	J	Q
BPS1-TT-MW309S-2018	9/15/2018 0:00	1803086-12	PFOSA	5.53	UU	UJ	N
BP-TT-AOC22-MW03-2(	9/15/2018 0:00	1803086-11	PFHPS	3.63	J, Q	J	Q
BP-TT-AOC22-MW03-2(	9/15/2018 0:00	1803086-11	PFHXS	5.92	J, Q	J	Q
BP-TT-AOC22-MW04-2(	9/14/2018 0:00	1803086-09	PFOS	11.4	Q	J	Q
BP-TT-AOC22-MW10-2(	9/15/2018 0:00	1803086-13	PFHPA	8.22	J, Q	J	Q
BP-TT-AOC22-MW10-2(	9/15/2018 0:00	1803086-13	PFHXS	4.2	J, Q	J	Q
BP-TT-AOC22-MW10-2(	9/15/2018 0:00	1803086-13	PFOS	9.48	Q	J	Q
BP-TT-EB02-20180914	9/14/2018 0:00	1803086-08	PFOSA	5.39	UU	UJ	N

Appendix B

Laboratory Sample Results

Client Data

Name:	Tetra Tech	Matrix:	Groundwater			
Project:	Bethpage	Date Collected:	14-Sep-18 10:10			

Laboratory Data

Lab Sample:	1803086-01	Column:	BEH C18
Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	17.5	2.79	5.08	8.15		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFPeA	2706-90-3	17.0	2.79	5.08	8.15		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFBS	375-73-5	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFHxA	307-24-4	16.6	2.79	5.08	8.15		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFHpA	375-85-9	10.9	2.79	5.08	8.15		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFHxS	355-46-4	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
6:2 FTS	27619-97-2	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFOA	335-67-1	14.1	2.79	5.08	8.15		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFHpS	375-92-8	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFNA	375-95-1	4.06	2.79	5.08	8.15	J	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFOSA	754-91-6	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFOS	1763-23-1	10.3	2.79	5.08	8.15		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFDA	335-76-2	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
8:2 FTS	39108-34-4	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
MeFOSAA	2355-31-9	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
EtFOSAA	2991-50-6	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFUnA	2058-94-8	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFDS	335-77-3	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFDoA	307-55-1	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFTrDA	72629-94-8	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFTeDA	376-06-7	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	97.4	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C3-PFPeA	IS	93.1	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C3-PFBS	IS	96.7	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C2-PFHxA	IS	92.6	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C4-PFHpA	IS	104	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
18O2-PFHxS	IS	100	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C2-6:2 FTS	IS	96.5	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C2-PFOA	IS	92.9	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C5-PFNA	IS	88.9	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C8-PFOSA	IS	45.3	50 - 150	H	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C8-PFOS	IS	106	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C2-PFDA	IS	74.1	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1

Client Data

					Laboratory Data				
Name:	Tetra Tech		Matrix:	Groundwater	Lab Sample:	1803086-01		Column:	BEH C18
Project:	Bethpage		Date Collected:	14-Sep-18 10:10	Date Received:	19-Sep-18 09:13			

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	87.2	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
d3-MeFOSAA	IS	78.6	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
d5-EtFOSAA	IS	80.2	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C2-PFUnA	IS	79.1	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C2-PFDoA	IS	85.3	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C2-PFTeDA	IS	87.3	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1

DL - Detection Limit   LOD - Limit of Detection   Results reported to the DL.   When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both

LOQ - Limit of quantitation   linear and branched isomers. Only the linear isomer is reported for all other

analytes.

Vista
Analytical Laboratory

Sample ID: BP-HN-MW24S-20180914

PFAS Isotope Dilution Method

Client Data				Laboratory Data				
Name:	Tetra Tech		Matrix:	Groundwater	Lab Sample:	1803086-02	Column:	BEH C18
Project:	Bethpage		Date Collected:	14-Sep-18 10:25	Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	19.0	2.83	5.17	8.26		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFPeA	2706-90-3	26.4	2.83	5.17	8.26		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFBS	375-73-5	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFHxA	307-24-4	21.2	2.83	5.17	8.26		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFHpA	375-85-9	23.9	2.83	5.17	8.26		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFHxS	355-46-4	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
6:2 FTS	27619-97-2	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFOA	335-67-1	43.6	2.83	5.17	8.26		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFHpS	375-92-8	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFNA	375-95-1	45.4	2.83	5.17	8.26		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFOSA	754-91-6	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFOS	1763-23-1	8.84	2.83	5.17	8.26	Q	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFDA	335-76-2	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
8:2 FTS	39108-34-4	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
MeFOSAA	2355-31-9	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
EtFOSAA	2991-50-6	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFUnA	2058-94-8	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFDS	335-77-3	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFDoA	307-55-1	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFTrDA	72629-94-8	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFTeDA	376-06-7	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1

Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	97.0	50 - 150			B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C3-PFPeA	IS	93.6	50 - 150			B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C3-PFBS	IS	96.3	50 - 150			B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C2-PFHxA	IS	92.5	50 - 150			B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C4-PFHpA	IS	93.6	50 - 150			B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
18O2-PFHxS	IS	99.7	50 - 150			B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C2-6:2 FTS	IS	88.8	50 - 150			B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C2-PFOA	IS	90.9	50 - 150			B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C5-PFNA	IS	75.9	50 - 150			B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C8-PFOSA	IS	58.2	50 - 150			B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C8-PFOS	IS	92.7	50 - 150			B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C2-PFDA	IS	66.8	50 - 150			B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1

Client Data

					Laboratory Data			
Name:	Tetra Tech		Matrix:	Groundwater	Lab Sample:	1803086-02	Column:	BEH C18
Project:	Bethpage		Date Collected:	14-Sep-18 10:25	Date Received:	19-Sep-18 09:13		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	85.9	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
d3-MeFOSAA	IS	74.4	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
d5-EtFOSAA	IS	82.1	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C2-PFUnA	IS	73.8	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C2-PFDoA	IS	71.6	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C2-PFTeDA	IS	83.0	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1

DL - Detection Limit   LOD - Limit of Detection   Results reported to the DL.   When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both

LOQ - Limit of quantitation   linear and branched isomers. Only the linear isomer is reported for all other

analytes.

Client Data

					Laboratory Data			
Name:	Tetra Tech		Matrix:	Groundwater	Lab Sample:	1803086-03	Column:	BEH C18
Project:	Bethpage		Date Collected:	14-Sep-18 12:20	Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	12.8	2.84	5.17	8.30		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFPeA	2706-90-3	14.3	2.84	5.17	8.30		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFBS	375-73-5	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFHxA	307-24-4	14.3	2.84	5.17	8.30		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFHpA	375-85-9	11.8	2.84	5.17	8.30		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFHxS	355-46-4	4.63	2.84	5.17	8.30	J	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
6:2 FTS	27619-97-2	5.26	2.84	5.17	8.30	J	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFOA	335-67-1	21.7	2.84	5.17	8.30		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFHpS	375-92-8	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFNA	375-95-1	4.81	2.84	5.17	8.30	J	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFOSA	754-91-6	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFOS	1763-23-1	22.0	2.84	5.17	8.30		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFDA	335-76-2	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
8:2 FTS	39108-34-4	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
MeFOSAA	2355-31-9	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
EtFOSAA	2991-50-6	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFUnA	2058-94-8	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFDS	335-77-3	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFDoA	307-55-1	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFTrDA	72629-94-8	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFTeDA	376-06-7	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	99.8	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C3-PFPeA	IS	98.6	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C3-PFBS	IS	97.1	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C2-PFHxA	IS	97.7	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C4-PFHpA	IS	99.4	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
18O2-PFHxS	IS	106	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C2-6:2 FTS	IS	90.3	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C2-PFOA	IS	93.4	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C5-PFNA	IS	80.9	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C8-PFOSA	IS	46.7	50 - 150	H	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C8-PFOS	IS	96.5	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C2-PFDA	IS	68.8	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1

Sample ID: BP-HN-MW24IR-20180914

PFAS Isotope Dilution Method

Client Data				**Laboratory Data**			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1803086-03	Column:	BEH C18
Project:	Bethpage	Date Collected:	14-Sep-18 12:20	Date Received:	19-Sep-18 09:13		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	87.4	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
d3-MeFOSAA	IS	83.7	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
d5-EtFOSAA	IS	86.1	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C2-PFUnA	IS	68.7	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C2-PFDoA	IS	76.1	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C2-PFTeDA	IS	90.1	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1

DL - Detection Limit   LOD - Limit of Detection   Results reported to the DL.   When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both

                        LOQ - Limit of quantitation   linear and branched isomers. Only the linear isomer is reported for all other

analytes.

Client Data

Name:	Tetra Tech	Matrix:	QC Water			
Project:	Bethpage	Date Collected:	14-Sep-18 12:00			

Laboratory Data

Lab Sample:	1803086-04	Column:	BEH C18
Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	15.5	2.85	5.21	8.32		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFPeA	2706-90-3	14.6	2.85	5.21	8.32		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFBS	375-73-5	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFHxA	307-24-4	13.6	2.85	5.21	8.32		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFHpA	375-85-9	10.8	2.85	5.21	8.32		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFHxS	355-46-4	3.45	2.85	5.21	8.32	J, Q	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
6:2 FTS	27619-97-2	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFOA	335-67-1	19.1	2.85	5.21	8.32		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFHpS	375-92-8	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFNA	375-95-1	4.05	2.85	5.21	8.32	J, Q	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFOSA	754-91-6	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFOS	1763-23-1	3.99	2.85	5.21	8.32	J	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFDA	335-76-2	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
8:2 FTS	39108-34-4	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
MeFOSAA	2355-31-9	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
EtFOSAA	2991-50-6	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFUnA	2058-94-8	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFDS	335-77-3	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFDoA	307-55-1	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFTrDA	72629-94-8	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFTeDA	376-06-7	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	101	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C3-PFPeA	IS	95.5	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C3-PFBS	IS	101	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C2-PFHxA	IS	94.4	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C4-PFHpA	IS	92.1	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
18O2-PFHxS	IS	101	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C2-6:2 FTS	IS	91.7	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C2-PFOA	IS	89.7	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C5-PFNA	IS	82.1	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C8-PFOSA	IS	59.7	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C8-PFOS	IS	96.4	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C2-PFDA	IS	71.0	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1

Client Data

					Laboratory Data			
Name:	Tetra Tech		Matrix:	QC Water	Lab Sample:	1803086-04	Column:	BEH C18
Project:	Bethpage		Date Collected:	14-Sep-18 12:00	Date Received:	19-Sep-18 09:13		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	83.9	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
d3-MeFOSAA	IS	69.3	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
d5-EtFOSAA	IS	75.2	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C2-PFUnA	IS	74.3	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C2-PFDoA	IS	72.5	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C2-PFTeDA	IS	81.2	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1

DL - Detection Limit

LOD - Limit of Detection

LOQ - Limit of quantitation

Results reported to the DL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Client Data

Name:	Tetra Tech		Matrix:	Groundwater		
Project:	Bethpage		Date Collected:	14-Sep-18 10:10		

Laboratory Data

Lab Sample:	1803086-05	Column: BEH C18
Date Received:	19-Sep-18 09:13	

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	16.0	2.92	5.34	8.53		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFPeA	2706-90-3	14.2	2.92	5.34	8.53		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFBS	375-73-5	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFHxA	307-24-4	14.5	2.92	5.34	8.53		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFHpA	375-85-9	11.6	2.92	5.34	8.53	Q	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFHxS	355-46-4	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
6:2 FTS	27619-97-2	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFOA	335-67-1	18.2	2.92	5.34	8.53		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFHpS	375-92-8	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFNA	375-95-1	4.59	2.92	5.34	8.53	J	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFOSA	754-91-6	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFOS	1763-23-1	5.11	2.92	5.34	8.53	J, Q	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFDA	335-76-2	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
8:2 FTS	39108-34-4	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
MeFOSAA	2355-31-9	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
EtFOSAA	2991-50-6	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFUnA	2058-94-8	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFDS	335-77-3	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFDoA	307-55-1	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFTrDA	72629-94-8	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFTeDA	376-06-7	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	99.8	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C3-PFPeA	IS	95.0	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C3-PFBS	IS	104	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C2-PFHxA	IS	92.2	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C4-PFHpA	IS	95.3	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
18O2-PFHxS	IS	106	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C2-6:2 FTS	IS	84.0	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C2-PFOA	IS	88.6	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C5-PFNA	IS	78.1	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C8-PFOSA	IS	47.8	50 - 150	H	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C8-PFOS	IS	92.8	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C2-PFDA	IS	77.8	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1

Client Data

Name:	Tetra Tech		Matrix:	Groundwater			
Project:	Bethpage		Date Collected:	14-Sep-18 10:10			

Laboratory Data

Lab Sample:	1803086-05	Column:	BEH C18
Date Received:	19-Sep-18 09:13		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	89.5	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
d3-MeFOSAA	IS	62.0	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
d5-EtFOSAA	IS	73.1	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C2-PFUnA	IS	69.1	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C2-PFDoA	IS	79.3	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C2-PFTeDA	IS	75.0	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1

DL - Detection Limit

LOD - Limit of Detection

LOQ - Limit of quantitation

Results reported to the DL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: BPSI-TT-MW306S-20180914 **PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1803086-06	Column:	BEH C18
Project:	Bethpage	Date Collected:	14-Sep-18 13:00	Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	4.45	2.78	5.08	8.11	J	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
PFPeA	2706-90-3	ND	2.78	5.08	8.11	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
PFBS	375-73-5	ND	2.78	5.08	8.11	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
PFHxA	307-24-4	ND	2.78	5.08	8.11	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
PFHpA	375-85-9	ND	2.78	5.08	8.11	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
PFHxS	355-46-4	ND	2.78	5.08	8.11	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
6:2 FTS	27619-97-2	ND	2.78	5.08	8.11	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
PFOA	335-67-1	6.75	2.78	5.08	8.11	J	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
PFHpS	375-92-8	ND	2.78	5.08	8.11	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
PFNA	375-95-1	ND	2.78	5.08	8.11	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
PFOSA	754-91-6	ND	2.78	5.08	8.11	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
PFOS	1763-23-1	11.5	2.78	5.08	8.11		B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
PFDA	335-76-2	ND	2.78	5.08	8.11	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
8:2 FTS	39108-34-4	ND	2.78	5.08	8.11	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
MeFOSAA	2355-31-9	ND	2.78	5.08	8.11	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
EtFOSAA	2991-50-6	ND	2.78	5.08	8.11	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
PFUnA	2058-94-8	ND	2.78	5.08	8.11	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
PFDS	335-77-3	ND	2.78	5.08	8.11	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
PFDoA	307-55-1	ND	2.78	5.08	8.11	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
PFTrDA	72629-94-8	ND	2.78	5.08	8.11	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
PFTeDA	376-06-7	ND	2.78	5.08	8.11	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	102	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
13C3-PFPeA	IS	94.4	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
13C3-PFBS	IS	103	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
13C2-PFHxA	IS	96.2	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
13C4-PFHpA	IS	103	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
18O2-PFHxS	IS	102	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
13C2-6:2 FTS	IS	92.4	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
13C2-PFOA	IS	91.7	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
13C5-PFNA	IS	85.8	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
13C8-PFOSA	IS	54.9	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
13C8-PFOS	IS	103	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
13C2-PFDA	IS	74.0	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1

Client Data					Laboratory Data						
Name:	Tetra Tech		Matrix:	Groundwater	Lab Sample:	1803086-06			Column:	BEH C18	
Project:	Bethpage		Date Collected:	14-Sep-18 13:00	Date Received:	19-Sep-18 09:13					

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	90.3	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
d3-MeFOSAA	IS	75.8	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
d5-EtFOSAA	IS	78.5	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
13C2-PFUnA	IS	75.0	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
13C2-PFDoA	IS	82.6	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1
13C2-PFTeDA	IS	85.7	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 19:36	1

DL - Detection Limit   LOD - Limit of Detection   Results reported to the DL.   When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both

LOQ - Limit of quantitation   linear and branched isomers. Only the linear isomer is reported for all other

analytes.

Sample ID: BP-FB01-20180913

PFAS Isotope Dilution Method

Client Data

Name:	Tetra Tech	Matrix:	QC Water			
Project:	Bethpage	Date Collected:	13-Sep-18 16:00			

Laboratory Data

Lab Sample:	1803086-07	Column:	BEH C18
Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFPeA	2706-90-3	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFBS	375-73-5	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFHxA	307-24-4	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFHpA	375-85-9	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFHxS	355-46-4	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
6:2 FTS	27619-97-2	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFOA	335-67-1	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFHpS	375-92-8	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFNA	375-95-1	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFOSA	754-91-6	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFOS	1763-23-1	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFDA	335-76-2	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
8:2 FTS	39108-34-4	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
MeFOSAA	2355-31-9	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
EtFOSAA	2991-50-6	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFUnA	2058-94-8	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFDS	335-77-3	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFDoA	307-55-1	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFTrDA	72629-94-8	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFTeDA	376-06-7	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	100	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C3-PFPeA	IS	95.6	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C3-PFBS	IS	102	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C2-PFHxA	IS	92.2	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C4-PFHpA	IS	98.9	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
18O2-PFHxS	IS	101	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C2-6:2 FTS	IS	92.6	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C2-PFOA	IS	88.8	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C5-PFNA	IS	77.8	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C8-PFOSA	IS	46.2	50 - 150	H	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C8-PFOS	IS	98.9	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C2-PFDA	IS	71.3	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1

Client Data

				Laboratory Data			
Name:	Tetra Tech	Matrix:	QC Water	Lab Sample:	1803086-07	Column:	BEH C18
Project:	Bethpage	Date Collected:	13-Sep-18 16:00	Date Received:	19-Sep-18 09:13		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	88.2	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
d3-MeFOSAA	IS	64.0	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
d5-EtFOSAA	IS	64.4	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C2-PFUnA	IS	62.0	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C2-PFDoA	IS	65.9	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C2-PFTeDA	IS	72.2	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1

DL - Detection Limit

LOD - Limit of Detection

LOQ - Limit of quantitation

Results reported to the DL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Client Data

Name:	Tetra Tech		Matrix:	QC Water
Project:	Bethpage		Date Collected:	14-Sep-18 15:00

Laboratory Data

Lab Sample:	1803086-08	Column:	BEH C18
Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFPeA	2706-90-3	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFBS	375-73-5	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFHxA	307-24-4	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFHpA	375-85-9	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFHxS	355-46-4	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
6:2 FTS	27619-97-2	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFOA	335-67-1	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFHpS	375-92-8	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFNA	375-95-1	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFOSA	754-91-6	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFOS	1763-23-1	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFDA	335-76-2	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
8:2 FTS	39108-34-4	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
MeFOSAA	2355-31-9	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
EtFOSAA	2991-50-6	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFUnA	2058-94-8	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFDS	335-77-3	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFDoA	307-55-1	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFTrDA	72629-94-8	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFTeDA	376-06-7	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	97.5	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C3-PFPeA	IS	90.6	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C3-PFBS	IS	98.4	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C2-PFHxA	IS	94.0	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C4-PFHpA	IS	93.0	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
18O2-PFHxS	IS	102	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C2-6:2 FTS	IS	95.7	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C2-PFOA	IS	87.1	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C5-PFNA	IS	75.4	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C8-PFOSA	IS	34.0	50 - 150	H	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C8-PFOS	IS	104	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C2-PFDA	IS	72.6	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1

PFAS Isotope Dilution Method

Client Data					Laboratory Data				
Name:	Tetra Tech		Matrix:	QC Water	Lab Sample:	1803086-08		Column:	BEH C18
Project:	Bethpage		Date Collected:	14-Sep-18 15:00	Date Received:	19-Sep-18 09:13			

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	92.8	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
d3-MeFOSAA	IS	60.2	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
d5-EtFOSAA	IS	64.9	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C2-PFUnA	IS	60.0	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C2-PFDoA	IS	67.8	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C2-PFTeDA	IS	78.0	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1

DL - Detection Limit LOD - Limit of Detection Results reported to the DL. When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both
 LOQ - Limit of quantitation linear and branched isomers. Only the linear isomer is reported for all other
  analytes.

Sample ID: BP-TT-AOC22-MW04-20180914

PFAS Isotope Dilution Method

Client Data

Name:	Tetra Tech	Matrix:	Groundwater		
Project:	Bethpage	Date Collected:	14-Sep-18 15:45		

Laboratory Data

Lab Sample:	1803086-09	Column:	BEH C18
Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	7.94	2.87	5.25	8.38	J	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFPeA	2706-90-3	8.23	2.87	5.25	8.38	J	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFBS	375-73-5	10.6	2.87	5.25	8.38		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFHxA	307-24-4	11.3	2.87	5.25	8.38		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFHpA	375-85-9	6.60	2.87	5.25	8.38	J	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFHxS	355-46-4	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
6:2 FTS	27619-97-2	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFOA	335-67-1	19.0	2.87	5.25	8.38		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFHpS	375-92-8	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFNA	375-95-1	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFOSA	754-91-6	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFOS	1763-23-1	11.4	2.87	5.25	8.38	Q	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFDA	335-76-2	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
8:2 FTS	39108-34-4	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
MeFOSAA	2355-31-9	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
EtFOSAA	2991-50-6	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFUnA	2058-94-8	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFDS	335-77-3	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFDoA	307-55-1	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFTrDA	72629-94-8	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFTeDA	376-06-7	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	102	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C3-PFPeA	IS	89.9	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C3-PFBS	IS	103	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C2-PFHxA	IS	93.5	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C4-PFHpA	IS	103	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
18O2-PFHxS	IS	96.8	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C2-6:2 FTS	IS	91.8	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C2-PFOA	IS	95.4	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C5-PFNA	IS	84.4	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C8-PFOSA	IS	60.2	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C8-PFOS	IS	101	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C2-PFDA	IS	78.8	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1

Client Data

					Laboratory Data			
Name:	Tetra Tech		Matrix:	Groundwater	Lab Sample:	1803086-09	Column:	BEH C18
Project:	Bethpage		Date Collected:	14-Sep-18 15:45	Date Received:	19-Sep-18 09:13		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	88.6	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
d3-MeFOSAA	IS	80.6	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
d5-EtFOSAA	IS	88.3	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C2-PFUnA	IS	83.7	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C2-PFDoA	IS	82.2	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C2-PFTeDA	IS	83.1	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1

DL - Detection Limit   LOD - Limit of Detection   Results reported to the DL.   When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both
                              LOQ - Limit of quantitation   linear and branched isomers. Only the linear isomer is reported for all other
                                                                                                       analytes.

Client Data

Name:	Tetra Tech			Matrix:	Groundwater	**Laboratory Data**		
Project:	Bethpage			Date Collected:	15-Sep-18 09:55	Lab Sample:	1803086-10	Column: BEH C18
						Date Received:	19-Sep-18 09:13	

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	15.6	2.96	5.39	8.63		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFPeA	2706-90-3	44.3	2.96	5.39	8.63		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFBS	375-73-5	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFHxA	307-24-4	29.6	2.96	5.39	8.63		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFHpA	375-85-9	19.2	2.96	5.39	8.63		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFHxS	355-46-4	3.14	2.96	5.39	8.63	J	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
6:2 FTS	27619-97-2	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFOA	335-67-1	14.4	2.96	5.39	8.63		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFHpS	375-92-8	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFNA	375-95-1	6.27	2.96	5.39	8.63	J	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFOSA	754-91-6	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFOS	1763-23-1	10.5	2.96	5.39	8.63		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFDA	335-76-2	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
8:2 FTS	39108-34-4	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
MeFOSAA	2355-31-9	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
EtFOSAA	2991-50-6	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFUnA	2058-94-8	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFDS	335-77-3	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFDoA	307-55-1	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFTrDA	72629-94-8	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFTeDA	376-06-7	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	102	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C3-PFPeA	IS	97.1	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C3-PFBS	IS	101	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C2-PFHxA	IS	98.6	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C4-PFHpA	IS	103	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
18O2-PFHxS	IS	106	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C2-6:2 FTS	IS	97.6	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C2-PFOA	IS	95.0	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C5-PFNA	IS	87.9	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C8-PFOSA	IS	46.0	50 - 150	H	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C8-PFOS	IS	100	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C2-PFDA	IS	77.2	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1

Client Data

				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1803086-10	Column:	BEH C18
Project:	Bethpage	Date Collected:	15-Sep-18 09:55	Date Received:	19-Sep-18 09:13		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	98.6	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
d3-MeFOSAA	IS	78.3	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
d5-EtFOSAA	IS	79.2	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C2-PFUnA	IS	74.9	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C2-PFDoA	IS	88.1	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C2-PFTeDA	IS	93.7	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1

DL - Detection Limit   LOD - Limit of Detection   Results reported to the DL.   When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both
                              LOQ - Limit of quantitation   linear and branched isomers. Only the linear isomer is reported for all other
                                                                                                       analytes.

Vista Analytical Laboratory

Sample ID: BP-TT-AOC22-MW03-20180915　　　　　　　　　　　**PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1803086-11	Column:	BEH C18
Project:	Bethpage	Date Collected:	15-Sep-18 09:35	Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFPeA	2706-90-3	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFBS	375-73-5	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFHxA	307-24-4	8.69	2.91	5.30	8.49		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFHpA	375-85-9	8.54	2.91	5.30	8.49		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFHxS	355-46-4	5.92	2.91	5.30	8.49	J, Q	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
6:2 FTS	27619-97-2	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFOA	335-67-1	47.4	2.91	5.30	8.49		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFHpS	375-92-8	3.63	2.91	5.30	8.49	J, Q	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFNA	375-95-1	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFOSA	754-91-6	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFOS	1763-23-1	18.4	2.91	5.30	8.49		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFDA	335-76-2	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
8:2 FTS	39108-34-4	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
MeFOSAA	2355-31-9	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
EtFOSAA	2991-50-6	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFUnA	2058-94-8	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFDS	335-77-3	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFDoA	307-55-1	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFTrDA	72629-94-8	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFTeDA	376-06-7	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	93.3	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C3-PFPeA	IS	91.6	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C3-PFBS	IS	90.8	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C2-PFHxA	IS	92.9	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C4-PFHpA	IS	99.7	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
18O2-PFHxS	IS	101	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C2-6:2 FTS	IS	89.7	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C2-PFOA	IS	90.7	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C5-PFNA	IS	85.6	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C8-PFOSA	IS	63.2	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C8-PFOS	IS	93.3	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C2-PFDA	IS	80.3	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1

Client Data

					Laboratory Data			
Name:	Tetra Tech		Matrix:	Groundwater	Lab Sample:	1803086-11	Column:	BEH C18
Project:	Bethpage		Date Collected:	15-Sep-18 09:35	Date Received:	19-Sep-18 09:13		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	101	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
d3-MeFOSAA	IS	75.0	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
d5-EtFOSAA	IS	78.1	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C2-PFUnA	IS	81.4	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C2-PFDoA	IS	76.8	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C2-PFTeDA	IS	75.2	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1

DL - Detection Limit

LOD - Limit of Detection

LOQ - Limit of quantitation

Results reported to the DL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Client Data

				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1803086-12	Column:	BEH C18
Project:	Bethpage	Date Collected:	15-Sep-18 11:35	Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	50.3	3.02	5.53	8.81		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFPeA	2706-90-3	220	3.02	5.53	8.81		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFBS	375-73-5	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFHxA	307-24-4	158	3.02	5.53	8.81		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFHpA	375-85-9	167	3.02	5.53	8.81		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFHxS	355-46-4	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
6:2 FTS	27619-97-2	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFOA	335-67-1	33.8	3.02	5.53	8.81		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFHpS	375-92-8	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFNA	375-95-1	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFOSA	754-91-6	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFOS	1763-23-1	5.54	3.02	5.53	8.81	J, Q	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFDA	335-76-2	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
8:2 FTS	39108-34-4	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
MeFOSAA	2355-31-9	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
EtFOSAA	2991-50-6	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFUnA	2058-94-8	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFDS	335-77-3	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFDoA	307-55-1	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFTrDA	72629-94-8	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFTeDA	376-06-7	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	97.3	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C3-PFPeA	IS	95.4	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C3-PFBS	IS	97.8	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C2-PFHxA	IS	93.5	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C4-PFHpA	IS	96.2	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
18O2-PFHxS	IS	102	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C2-6:2 FTS	IS	83.0	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C2-PFOA	IS	91.4	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C5-PFNA	IS	76.4	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C8-PFOSA	IS	47.2	50 - 150	H	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C8-PFOS	IS	94.4	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C2-PFDA	IS	71.7	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1

Sample ID: BPSI-TT-MW309S-20180915   **PFAS Isotope Dilution Method**

Client Data

				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1803086-12	Column:	BEH C18
Project:	Bethpage	Date Collected:	15-Sep-18 11:35	Date Received:	19-Sep-18 09:13		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	87.6	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
d3-MeFOSAA	IS	70.9	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
d5-EtFOSAA	IS	77.9	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C2-PFUnA	IS	69.9	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C2-PFDoA	IS	78.0	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C2-PFTeDA	IS	91.8	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1

DL - Detection Limit   LOD - Limit of Detection   Results reported to the DL.   When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both

LOQ - Limit of quantitation   linear and branched isomers. Only the linear isomer is reported for all other

analytes.

Vista
Analytical Laboratory

Sample ID: BP-TT-AOC22-MW10-20180915 **PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1803086-13	Column:	BEH C18
Project:	Bethpage	Date Collected:	15-Sep-18 12:40	Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFPeA	2706-90-3	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFBS	375-73-5	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFHxA	307-24-4	6.13	2.98	5.43	8.71	J	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFHpA	375-85-9	8.22	2.98	5.43	8.71	J, Q	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFHxS	355-46-4	4.20	2.98	5.43	8.71	J, Q	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
6:2 FTS	27619-97-2	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFOA	335-67-1	22.2	2.98	5.43	8.71		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFHpS	375-92-8	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFNA	375-95-1	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFOSA	754-91-6	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFOS	1763-23-1	9.48	2.98	5.43	8.71	Q	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFDA	335-76-2	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
8:2 FTS	39108-34-4	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
MeFOSAA	2355-31-9	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
EtFOSAA	2991-50-6	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFUnA	2058-94-8	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFDS	335-77-3	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFDoA	307-55-1	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFTrDA	72629-94-8	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFTeDA	376-06-7	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	101	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C3-PFPeA	IS	100	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C3-PFBS	IS	103	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C2-PFHxA	IS	97.5	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C4-PFHpA	IS	99.5	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
18O2-PFHxS	IS	101	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C2-6:2 FTS	IS	92.6	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C2-PFOA	IS	98.6	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C5-PFNA	IS	82.3	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C8-PFOSA	IS	73.0	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C8-PFOS	IS	100	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C2-PFDA	IS	74.5	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1

Sample ID: BP-TT-AOC22-MW10-20180915

PFAS Isotope Dilution Method

Client Data

					Laboratory Data			
Name:	Tetra Tech		Matrix:	Groundwater	Lab Sample:	1803086-13	Column:	BEH C18
Project:	Bethpage		Date Collected:	15-Sep-18 12:40	Date Received:	19-Sep-18 09:13		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	103	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
d3-MeFOSAA	IS	87.3	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
d5-EtFOSAA	IS	94.1	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C2-PFUnA	IS	78.2	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C2-PFDoA	IS	77.2	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C2-PFTeDA	IS	88.1	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1

DL - Detection Limit   LOD - Limit of Detection   Results reported to the DL.   When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both
                              LOQ - Limit of quantitation   linear and branched isomers. Only the linear isomer is reported for all other
                                                                                                      analytes.

Sample ID: BP-MH-SW4001-SOUTH-20180915

PFAS Isotope Dilution Method

Client Data			Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1803086-14	Column: BEH C18
Project:	Bethpage	Date Collected:	15-Sep-18 10:40	Date Received:	19-Sep-18 09:13	

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	13.9	2.83	5.17	8.26		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
PFPeA	2706-90-3	33.8	2.83	5.17	8.26		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
PFBS	375-73-5	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
PFHxA	307-24-4	23.5	2.83	5.17	8.26		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
PFHpA	375-85-9	15.5	2.83	5.17	8.26		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
PFHxS	355-46-4	3.04	2.83	5.17	8.26	J	B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
6:2 FTS	27619-97-2	9.63	2.83	5.17	8.26		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
PFOA	335-67-1	16.8	2.83	5.17	8.26		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
PFHpS	375-92-8	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
PFNA	375-95-1	7.60	2.83	5.17	8.26	J	B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
PFOSA	754-91-6	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
PFOS	1763-23-1	14.5	2.83	5.17	8.26		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
PFDA	335-76-2	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
8:2 FTS	39108-34-4	6.56	2.83	5.17	8.26	J	B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
MeFOSAA	2355-31-9	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
EtFOSAA	2991-50-6	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
PFUnA	2058-94-8	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
PFDS	335-77-3	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
PFDoA	307-55-1	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
PFTrDA	72629-94-8	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
PFTeDA	376-06-7	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	99.7	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
13C3-PFPeA	IS	93.8	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
13C3-PFBS	IS	103	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
13C2-PFHxA	IS	96.9	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
13C4-PFHpA	IS	100	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
18O2-PFHxS	IS	102	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
13C2-6:2 FTS	IS	90.5	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
13C2-PFOA	IS	92.8	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
13C5-PFNA	IS	82.8	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
13C8-PFOSA	IS	50.1	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
13C8-PFOS	IS	96.4	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
13C2-PFDA	IS	73.3	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1

Client Data

Name:	Tetra Tech		Matrix:	Groundwater
Project:	Bethpage		Date Collected:	15-Sep-18 10:40

Laboratory Data

Lab Sample:	1803086-14	Column:	BEH C18
Date Received:	19-Sep-18 09:13		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	90.3	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
d3-MeFOSAA	IS	75.8	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
d5-EtFOSAA	IS	78.1	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
13C2-PFUnA	IS	69.8	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
13C2-PFDoA	IS	78.5	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1
13C2-PFTeDA	IS	80.5	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 21:01	1

DL - Detection Limit

LOD - Limit of Detection

LOQ - Limit of quantitation

Results reported to the DL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Client Data

Name:	Tetra Tech	Matrix:	Groundwater		Column:	BEH C18
Project:	Bethpage	Date Collected:	15-Sep-18 12:00			

Laboratory Data

Lab Sample:	1803086-15
Date Received:	19-Sep-18 09:13

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	14.5	3.00	5.48	8.76		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFPeA	2706-90-3	32.9	3.00	5.48	8.76		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFBS	375-73-5	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFHxA	307-24-4	23.0	3.00	5.48	8.76		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFHpA	375-85-9	16.4	3.00	5.48	8.76		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFHxS	355-46-4	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
6:2 FTS	27619-97-2	10.1	3.00	5.48	8.76		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFOA	335-67-1	17.2	3.00	5.48	8.76		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFHpS	375-92-8	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFNA	375-95-1	7.43	3.00	5.48	8.76	J	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFOSA	754-91-6	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFOS	1763-23-1	10.7	3.00	5.48	8.76		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFDA	335-76-2	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
8:2 FTS	39108-34-4	4.32	3.00	5.48	8.76	J	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
MeFOSAA	2355-31-9	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
EtFOSAA	2991-50-6	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFUnA	2058-94-8	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFDS	335-77-3	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFDoA	307-55-1	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFTrDA	72629-94-8	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFTeDA	376-06-7	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	98.7	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C3-PFPeA	IS	94.9	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C3-PFBS	IS	97.0	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C2-PFHxA	IS	95.1	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C4-PFHpA	IS	97.9	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
18O2-PFHxS	IS	101	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C2-6:2 FTS	IS	90.6	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C2-PFOA	IS	93.6	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C5-PFNA	IS	82.3	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C8-PFOSA	IS	39.3	50 - 150	H	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C8-PFOS	IS	97.2	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C2-PFDA	IS	68.9	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1

Client Data

				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1803086-15	Column:	BEH C18
Project:	Bethpage	Date Collected:	15-Sep-18 12:00	Date Received:	19-Sep-18 09:13		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-8:2 FTS	IS	85.7	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
d3-MeFOSAA	IS	74.4	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
d5-EtFOSAA	IS	79.1	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C2-PFUnA	IS	66.5	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C2-PFDoA	IS	73.1	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C2-PFTeDA	IS	85.0	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1

DL - Detection Limit

LOD - Limit of Detection

LOQ - Limit of quantitation

Results reported to the DL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Appendix C

Support Documents

A. Documents Supporting Qualifications

Client Data

Name:	Tetra Tech	Matrix:	Groundwater	
Project:	Bethpage	Date Collected:	14-Sep-18 10:10	

Laboratory Data

Lab Sample:	1803086-01	Column:	BEH C18
Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	17.5	2.79	5.08	8.15		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFPeA	2706-90-3	17.0	2.79	5.08	8.15		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFBS	375-73-5	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFHxA	307-24-4	16.6	2.79	5.08	8.15		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFHpA	375-85-9	10.9	2.79	5.08	8.15		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFHxS	355-46-4	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
6:2 FTS	27619-97-2	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFOA	335-67-1	14.1	2.79	5.08	8.15		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFHpS	375-92-8	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFNA	375-95-1	4.06	2.79	5.08	8.15	J	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFOSA	754-91-6	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFOS	1763-23-1	10.3	2.79	5.08	8.15		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFDA	335-76-2	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
8:2 FTS	39108-34-4	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
MeFOSAA	2355-31-9	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
EtFOSAA	2991-50-6	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFUnA	2058-94-8	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFDS	335-77-3	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFDoA	307-55-1	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFTrDA	72629-94-8	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
PFTeDA	376-06-7	ND	2.79	5.08	8.15	U	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	97.4	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C3-PFPeA	IS	93.1	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C3-PFBS	IS	96.7	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C2-PFHxA	IS	92.6	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C4-PFHpA	IS	104	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
18O2-PFHxS	IS	100	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C2-6:2 FTS	IS	96.5	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C2-PFOA	IS	92.9	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C5-PFNA	IS	88.9	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C8-PFOSA	IS	45.3	50 - 150	H	B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C8-PFOS	IS	106	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1
13C2-PFDA	IS	74.1	50 - 150		B8I0155	27-Sep-18	0.123 L	01-Oct-18 18:22	1

Client Data

Name:	Tetra Tech	Matrix:	Groundwater
Project:	Bethpage	Date Collected:	14-Sep-18 10:25

Laboratory Data

Lab Sample:	1803086-02	Column:	BEH C18
Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	19.0	2.83	5.17	8.26		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFPeA	2706-90-3	26.4	2.83	5.17	8.26		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFBS	375-73-5	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFHxA	307-24-4	21.2	2.83	5.17	8.26		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFHpA	375-85-9	23.9	2.83	5.17	8.26		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFHxS	355-46-4	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
6:2 FTS	27619-97-2	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFOA	335-67-1	43.6	2.83	5.17	8.26		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFHpS	375-92-8	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFNA	375-95-1	45.4	2.83	5.17	8.26		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFOSA	754-91-6	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFOS	1763-23-1	8.84	2.83	5.17	8.26	Q	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFDA	335-76-2	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
8:2 FTS	39108-34-4	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
MeFOSAA	2355-31-9	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
EtFOSAA	2991-50-6	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFUnA	2058-94-8	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFDS	335-77-3	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFDoA	307-55-1	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFTrDA	72629-94-8	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
PFTeDA	376-06-7	ND	2.83	5.17	8.26	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	97.0	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C3-PFPeA	IS	93.6	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C3-PFBS	IS	96.3	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C2-PFHxA	IS	92.5	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C4-PFHpA	IS	93.6	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
18O2-PFHxS	IS	99.7	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C2-6:2 FTS	IS	88.8	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C2-PFOA	IS	90.9	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C5-PFNA	IS	75.9	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C8-PFOSA	IS	58.2	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C8-PFOS	IS	92.7	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1
13C2-PFDA	IS	66.8	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:33	1

Sample ID: BP-HN-MW24IR-20180914

PFAS Isotope Dilution Method

Client Data

Name:	Tetra Tech	Matrix:	Groundwater		
Project:	Bethpage	Date Collected:	14-Sep-18 12:20		

Laboratory Data

Lab Sample:	1803086-03	Column:	BEH C18
Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	12.8	2.84	5.17	8.30		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFPeA	2706-90-3	14.3	2.84	5.17	8.30		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFBS	375-73-5	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFHxA	307-24-4	14.3	2.84	5.17	8.30		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFHpA	375-85-9	11.8	2.84	5.17	8.30		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFHxS	355-46-4	4.63	2.84	5.17	8.30	J	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
6:2 FTS	27619-97-2	5.26	2.84	5.17	8.30	J	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFOA	335-67-1	21.7	2.84	5.17	8.30		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFHpS	375-92-8	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFNA	375-95-1	4.81	2.84	5.17	8.30	J	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFOSA	754-91-6	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFOS	1763-23-1	22.0	2.84	5.17	8.30		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFDA	335-76-2	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
8:2 FTS	39108-34-4	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
MeFOSAA	2355-31-9	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
EtFOSAA	2991-50-6	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFUnA	2058-94-8	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFDS	335-77-3	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFDoA	307-55-1	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFTrDA	72629-94-8	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
PFTeDA	376-06-7	ND	2.84	5.17	8.30	U	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	99.8	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C3-PFPeA	IS	98.6	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C3-PFBS	IS	97.1	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C2-PFHxA	IS	97.7	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C4-PFHpA	IS	99.4	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
18O2-PFHxS	IS	106	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C2-6:2 FTS	IS	90.3	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C2-PFOA	IS	93.4	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C5-PFNA	IS	80.9	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C8-PFOSA	IS	46.7	50 - 150	H	B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C8-PFOS	IS	96.5	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1
13C2-PFDA	IS	68.8	50 - 150		B8I0155	27-Sep-18	0.121 L	01-Oct-18 18:43	1

Client Data

Name:	Tetra Tech	Matrix:	QC Water		
Project:	Bethpage	Date Collected:	14-Sep-18 12:00		

Laboratory Data

Lab Sample:	1803086-04	Column:	BEH C18
Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	15.5	2.85	5.21	8.32		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFPeA	2706-90-3	14.6	2.85	5.21	8.32		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFBS	375-73-5	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFHxA	307-24-4	13.6	2.85	5.21	8.32		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFHpA	375-85-9	10.8	2.85	5.21	8.32		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFHxS	355-46-4	3.45	2.85	5.21	8.32	J, Q	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
6:2 FTS	27619-97-2	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFOA	335-67-1	19.1	2.85	5.21	8.32		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFHpS	375-92-8	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFNA	375-95-1	4.05	2.85	5.21	8.32	J, Q	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFOSA	754-91-6	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFOS	1763-23-1	3.99	2.85	5.21	8.32	J	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFDA	335-76-2	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
8:2 FTS	39108-34-4	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
MeFOSAA	2355-31-9	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
EtFOSAA	2991-50-6	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFUnA	2058-94-8	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFDS	335-77-3	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFDoA	307-55-1	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFTrDA	72629-94-8	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
PFTeDA	376-06-7	ND	2.85	5.21	8.32	U	B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	101	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C3-PFPeA	IS	95.5	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C3-PFBS	IS	101	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C2-PFHxA	IS	94.4	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C4-PFHpA	IS	92.1	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
18O2-PFHxS	IS	101	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C2-6:2 FTS	IS	91.7	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C2-PFOA	IS	89.7	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C5-PFNA	IS	82.1	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C8-PFOSA	IS	59.7	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C8-PFOS	IS	96.4	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1
13C2-PFDA	IS	71.0	50 - 150		B8I0155	27-Sep-18	0.120 L	02-Oct-18 11:18	1

Vista
Analytical Laboratory

Sample ID: BPSI-TT-MW306I-20180914

PFAS Isotope Dilution Method

Client Data

Name:	Tetra Tech	Matrix:	Groundwater		
Project:	Bethpage	Date Collected:	14-Sep-18 10:10		

Laboratory Data

Lab Sample:	1803086-05	Column: BEH C18
Date Received:	19-Sep-18 09:13	

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	16.0	2.92	5.34	8.53		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFPeA	2706-90-3	14.2	2.92	5.34	8.53		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFBS	375-73-5	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFHxA	307-24-4	14.5	2.92	5.34	8.53		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFHpA	375-85-9	11.6	2.92	5.34	8.53	Q	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFHxS	355-46-4	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
6:2 FTS	27619-97-2	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFOA	335-67-1	18.2	2.92	5.34	8.53		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFHpS	375-92-8	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFNA	375-95-1	4.59	2.92	5.34	8.53	J	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFOSA	754-91-6	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFOS	1763-23-1	5.11	2.92	5.34	8.53	J, Q	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFDA	335-76-2	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
8:2 FTS	39108-34-4	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
MeFOSAA	2355-31-9	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
EtFOSAA	2991-50-6	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFUnA	2058-94-8	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFDS	335-77-3	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFDoA	307-55-1	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFTrDA	72629-94-8	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
PFTeDA	376-06-7	ND	2.92	5.34	8.53	U	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	99.8	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C3-PFPeA	IS	95.0	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C3-PFBS	IS	104	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C2-PFHxA	IS	92.2	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C4-PFHpA	IS	95.3	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
18O2-PFHxS	IS	106	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C2-6:2 FTS	IS	84.0	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C2-PFOA	IS	88.6	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C5-PFNA	IS	78.1	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C8-PFOSA	IS	47.8	50 - 150	H	B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C8-PFOS	IS	92.8	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1
13C2-PFDA	IS	77.8	50 - 150		B8I0155	27-Sep-18	0.117 L	01-Oct-18 19:26	1

Client Data

Name:	Tetra Tech	Matrix:	QC Water		
Project:	Bethpage	Date Collected:	13-Sep-18 16:00		

Laboratory Data

Lab Sample:	1803086-07	Column:	BEH C18
Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFPeA	2706-90-3	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFBS	375-73-5	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFHxA	307-24-4	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFHpA	375-85-9	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFHxS	355-46-4	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
6:2 FTS	27619-97-2	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFOA	335-67-1	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFHpS	375-92-8	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFNA	375-95-1	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFOSA	754-91-6	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFOS	1763-23-1	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFDA	335-76-2	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
8:2 FTS	39108-34-4	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
MeFOSAA	2355-31-9	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
EtFOSAA	2991-50-6	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFUnA	2058-94-8	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFDS	335-77-3	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFDoA	307-55-1	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFTrDA	72629-94-8	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
PFTeDA	376-06-7	ND	2.80	5.12	8.17	U	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	100	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C3-PFPeA	IS	95.6	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C3-PFBS	IS	102	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C2-PFHxA	IS	92.2	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C4-PFHpA	IS	98.9	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
18O2-PFHxS	IS	101	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C2-6:2 FTS	IS	92.6	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C2-PFOA	IS	88.8	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C5-PFNA	IS	77.8	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C8-PFOSA	IS	46.2	50 - 150	H	B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C8-PFOS	IS	98.9	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1
13C2-PFDA	IS	71.3	50 - 150		B8I0155	27-Sep-18	0.122 L	01-Oct-18 19:47	1

Client Data

Name:	Tetra Tech		Matrix:	QC Water	**Laboratory Data**			
Project:	Bethpage		Date Collected:	14-Sep-18 15:00	Lab Sample:	1803086-08	Column:	BEH C18
					Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFPeA	2706-90-3	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFBS	375-73-5	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFHxA	307-24-4	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFHpA	375-85-9	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFHxS	355-46-4	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
6:2 FTS	27619-97-2	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFOA	335-67-1	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFHpS	375-92-8	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFNA	375-95-1	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFOSA	754-91-6	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFOS	1763-23-1	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFDA	335-76-2	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
8:2 FTS	39108-34-4	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
MeFOSAA	2355-31-9	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
EtFOSAA	2991-50-6	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFUnA	2058-94-8	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFDS	335-77-3	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFDoA	307-55-1	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFTrDA	72629-94-8	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
PFTeDA	376-06-7	ND	2.95	5.39	8.62	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	97.5	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C3-PFPeA	IS	90.6	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C3-PFBS	IS	98.4	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C2-PFHxA	IS	94.0	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C4-PFHpA	IS	93.0	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
18O2-PFHxS	IS	102	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C2-6:2 FTS	IS	95.7	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C2-PFOA	IS	87.1	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C5-PFNA	IS	75.4	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C8-PFOSA	IS	34.0	50 - 150	H	B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C8-PFOS	IS	104	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1
13C2-PFDA	IS	72.6	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 19:58	1

Client Data

Name:	Tetra Tech	Matrix:	Groundwater
Project:	Bethpage	Date Collected:	14-Sep-18 15:45

Laboratory Data

Lab Sample:	1803086-09	Column:	BEH C18
Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	7.94	2.87	5.25	8.38	J	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFPeA	2706-90-3	8.23	2.87	5.25	8.38	J	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFBS	375-73-5	10.6	2.87	5.25	8.38		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFHxA	307-24-4	11.3	2.87	5.25	8.38		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFHpA	375-85-9	6.60	2.87	5.25	8.38	J	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFHxS	355-46-4	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
6:2 FTS	27619-97-2	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFOA	335-67-1	19.0	2.87	5.25	8.38		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFHpS	375-92-8	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFNA	375-95-1	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFOSA	754-91-6	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFOS	1763-23-1	11.4	2.87	5.25	8.38	Q	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFDA	335-76-2	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
8:2 FTS	39108-34-4	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
MeFOSAA	2355-31-9	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
EtFOSAA	2991-50-6	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFUnA	2058-94-8	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFDS	335-77-3	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFDoA	307-55-1	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFTrDA	72629-94-8	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
PFTeDA	376-06-7	ND	2.87	5.25	8.38	U	B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	102	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C3-PFPeA	IS	89.9	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C3-PFBS	IS	103	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C2-PFHxA	IS	93.5	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C4-PFHpA	IS	103	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
18O2-PFHxS	IS	96.8	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C2-6:2 FTS	IS	91.8	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C2-PFOA	IS	95.4	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C5-PFNA	IS	84.4	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C8-PFOSA	IS	60.2	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C8-PFOS	IS	101	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1
13C2-PFDA	IS	78.8	50 - 150		B8I0155	27-Sep-18	0.119 L	01-Oct-18 20:08	1

Client Data

				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1803086-10	Column:	BEH C18
Project:	Bethpage	Date Collected:	15-Sep-18 09:55	Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	15.6	2.96	5.39	8.63		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFPeA	2706-90-3	44.3	2.96	5.39	8.63		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFBS	375-73-5	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFHxA	307-24-4	29.6	2.96	5.39	8.63		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFHpA	375-85-9	19.2	2.96	5.39	8.63		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFHxS	355-46-4	3.14	2.96	5.39	8.63	J	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
6:2 FTS	27619-97-2	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFOA	335-67-1	14.4	2.96	5.39	8.63		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFHpS	375-92-8	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFNA	375-95-1	6.27	2.96	5.39	8.63	J	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFOSA	754-91-6	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFOS	1763-23-1	10.5	2.96	5.39	8.63		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFDA	335-76-2	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
8:2 FTS	39108-34-4	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
MeFOSAA	2355-31-9	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
EtFOSAA	2991-50-6	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFUnA	2058-94-8	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFDS	335-77-3	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFDoA	307-55-1	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFTrDA	72629-94-8	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
PFTeDA	376-06-7	ND	2.96	5.39	8.63	U	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	102	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C3-PFPeA	IS	97.1	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C3-PFBS	IS	101	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C2-PFHxA	IS	98.6	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C4-PFHpA	IS	103	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
18O2-PFHxS	IS	106	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C2-6:2 FTS	IS	97.6	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C2-PFOA	IS	95.0	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C5-PFNA	IS	87.9	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C8-PFOSA	IS	46.0	50 - 150	H	B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C8-PFOS	IS	100	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1
13C2-PFDA	IS	77.2	50 - 150		B8I0155	27-Sep-18	0.116 L	01-Oct-18 20:19	1

Client Data

Name:	Tetra Tech		Matrix:	Groundwater
Project:	Bethpage		Date Collected:	15-Sep-18 09:35

Laboratory Data

Lab Sample:	1803086-11	Column:	BEH C18
Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFPeA	2706-90-3	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFBS	375-73-5	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFHxA	307-24-4	8.69	2.91	5.30	8.49		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFHpA	375-85-9	8.54	2.91	5.30	8.49		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFHxS	355-46-4	5.92	2.91	5.30	8.49	J, Q	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
6:2 FTS	27619-97-2	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFOA	335-67-1	47.4	2.91	5.30	8.49		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFHpS	375-92-8	3.63	2.91	5.30	8.49	J, Q	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFNA	375-95-1	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFOSA	754-91-6	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFOS	1763-23-1	18.4	2.91	5.30	8.49		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFDA	335-76-2	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
8:2 FTS	39108-34-4	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
MeFOSAA	2355-31-9	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
EtFOSAA	2991-50-6	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFUnA	2058-94-8	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFDS	335-77-3	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFDoA	307-55-1	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFTrDA	72629-94-8	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
PFTeDA	376-06-7	ND	2.91	5.30	8.49	U	B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	93.3	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C3-PFPeA	IS	91.6	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C3-PFBS	IS	90.8	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C2-PFHxA	IS	92.9	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C4-PFHpA	IS	99.7	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
18O2-PFHxS	IS	101	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C2-6:2 FTS	IS	89.7	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C2-PFOA	IS	90.7	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C5-PFNA	IS	85.6	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C8-PFOSA	IS	63.2	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C8-PFOS	IS	93.3	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1
13C2-PFDA	IS	80.3	50 - 150		B8I0155	27-Sep-18	0.118 L	01-Oct-18 20:29	1

Vista
Analytical Laboratory

Sample ID: BPSI-TT-MW309S-20180915

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Groundwater	Lab Sample:	1803086-12	Column:	BEH C18
Project:	Bethpage	Date Collected:	15-Sep-18 11:35	Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	50.3	3.02	5.53	8.81		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFPeA	2706-90-3	220	3.02	5.53	8.81		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFBS	375-73-5	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFHxA	307-24-4	158	3.02	5.53	8.81		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFHpA	375-85-9	167	3.02	5.53	8.81		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFHxS	355-46-4	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
6:2 FTS	27619-97-2	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFOA	335-67-1	33.8	3.02	5.53	8.81		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFHpS	375-92-8	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFNA	375-95-1	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFOSA	754-91-6	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFOS	1763-23-1	5.54	3.02	5.53	8.81	J, Q	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFDA	335-76-2	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
8:2 FTS	39108-34-4	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
MeFOSAA	2355-31-9	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
EtFOSAA	2991-50-6	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFUnA	2058-94-8	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFDS	335-77-3	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFDoA	307-55-1	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFTrDA	72629-94-8	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
PFTeDA	376-06-7	ND	3.02	5.53	8.81	U	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	97.3	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C3-PFPeA	IS	95.4	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C3-PFBS	IS	97.8	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C2-PFHxA	IS	93.5	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C4-PFHpA	IS	96.2	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
18O2-PFHxS	IS	102	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C2-6:2 FTS	IS	83.0	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C2-PFOA	IS	91.4	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C5-PFNA	IS	76.4	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C8-PFOSA	IS	47.2	50 - 150	H	B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C8-PFOS	IS	94.4	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1
13C2-PFDA	IS	71.7	50 - 150		B8I0155	27-Sep-18	0.113 L	01-Oct-18 20:40	1

Vista
Analytical Laboratory

Sample ID: BP-TT-AOC22-MW10-20180915

PFAS Isotope Dilution Method

Client Data

					Laboratory Data			
Name:	Tetra Tech		Matrix:	Groundwater	Lab Sample:	1803086-13	Column:	BEH C18
Project:	Bethpage		Date Collected:	15-Sep-18 12:40	Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFPeA	2706-90-3	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFBS	375-73-5	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFHxA	307-24-4	6.13	2.98	5.43	8.71	J	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFHpA	375-85-9	8.22	2.98	5.43	8.71	J, Q	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFHxS	355-46-4	4.20	2.98	5.43	8.71	J, Q	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
6:2 FTS	27619-97-2	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFOA	335-67-1	22.2	2.98	5.43	8.71		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFHpS	375-92-8	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFNA	375-95-1	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFOSA	754-91-6	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFOS	1763-23-1	9.48	2.98	5.43	8.71	Q	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFDA	335-76-2	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
8:2 FTS	39108-34-4	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
MeFOSAA	2355-31-9	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
EtFOSAA	2991-50-6	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFUnA	2058-94-8	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFDS	335-77-3	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFDoA	307-55-1	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFTrDA	72629-94-8	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
PFTeDA	376-06-7	ND	2.98	5.43	8.71	U	B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	101	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C3-PFPeA	IS	100	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C3-PFBS	IS	103	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C2-PFHxA	IS	97.5	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C4-PFHpA	IS	99.5	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
18O2-PFHxS	IS	101	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C2-6:2 FTS	IS	92.6	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C2-PFOA	IS	98.6	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C5-PFNA	IS	82.3	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C8-PFOSA	IS	73.0	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C8-PFOS	IS	100	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1
13C2-PFDA	IS	74.5	50 - 150		B8I0155	27-Sep-18	0.115 L	01-Oct-18 20:51	1

Client Data

Name:	Tetra Tech	Matrix:	Groundwater
Project:	Bethpage	Date Collected:	15-Sep-18 12:00

Laboratory Data

Lab Sample:	1803086-15	Column:	BEH C18
Date Received:	19-Sep-18 09:13		

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	14.5	3.00	5.48	8.76		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFPeA	2706-90-3	32.9	3.00	5.48	8.76		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFBS	375-73-5	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFHxA	307-24-4	23.0	3.00	5.48	8.76		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFHpA	375-85-9	16.4	3.00	5.48	8.76		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFHxS	355-46-4	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
6:2 FTS	27619-97-2	10.1	3.00	5.48	8.76		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFOA	335-67-1	17.2	3.00	5.48	8.76		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFHpS	375-92-8	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFNA	375-95-1	7.43	3.00	5.48	8.76	J	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFOSA	754-91-6	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFOS	1763-23-1	10.7	3.00	5.48	8.76		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFDA	335-76-2	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
8:2 FTS	39108-34-4	4.32	3.00	5.48	8.76	J	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
MeFOSAA	2355-31-9	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
EtFOSAA	2991-50-6	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFUnA	2058-94-8	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFDS	335-77-3	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFDoA	307-55-1	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFTrDA	72629-94-8	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
PFTeDA	376-06-7	ND	3.00	5.48	8.76	U	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	98.7	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C3-PFPeA	IS	94.9	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C3-PFBS	IS	97.0	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C2-PFHxA	IS	95.1	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C4-PFHpA	IS	97.9	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
18O2-PFHxS	IS	101	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C2-6:2 FTS	IS	90.6	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C2-PFOA	IS	93.6	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C5-PFNA	IS	82.3	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C8-PFOSA	IS	39.3	50 - 150	H	B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C8-PFOS	IS	97.2	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1
13C2-PFDA	IS	68.9	50 - 150		B8I0155	27-Sep-18	0.114 L	01-Oct-18 21:44	1

Appendix C

Support Documents

B. Chain of Custody (COC)

Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 • Fax (916)673-0106

Chain of Custody Record

1803086   0.4°C   0.0°C

Vista Analytical Laboratory

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other

Client Contact	Project Manager: David Brayack	Site Contact: Chuck Meyer	Date:	COC No:
TetraTech	Tel/Fax: (757) 466-4909	Lab Contact: Jade White	Carrier: FedEx	Page 1 of 2
5700 Lake Wright Dr Suite 102	**Analysis Turnaround Time**			Chuck Meyer
Norfolk, VA 23502	☐CALENDAR DAYS ☐WORKING DAYS			**For Lab Use Only:**
(757) 466-4909	TAT if different from Below 21			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Bethpage	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PFAS (NYSDEC 21-Compound List) EPA 537 Modified	Sample Specific Notes:
BPSI-TT-MW308D-20180914	9/14/2018	10:10	G	GW	6	N	Y	X	MS/MSD
BPSI-HN-MW24S-20180914	9/14/2018	10:25	G	GW	2	N	N	X	
BPSI-HN-MW24IR-20180914	9/14/2018	12:20	G	GW	2	N	N	X	
BP-DUP02-20180914	9/14/2018	12:00	G	QC	2	N	N	X	
BPSI-TT-MW306I-20180914	9/14/2018	10:10	G	GW	2	N	N	X	
BPSI-TT-MW306S-20180914	9/14/2018	13:00	G	GW	2	N	N	X	
BP-TT-FRB04-20180914	9/14/2018	11:00	G	QC	2	N	N	X	Field Reagent Blank
BP-FB01-20180913	9/13/2018	16:00	G	QC	2	N	N	X	
BP-TT-EB02-20180914	9/14/2018	15:00	G	QC	2	N	N	X	
BP-TT-AOC22-MW04-20180914	9/14/2018	15:45	G	GW	2	N	N	X	
BPSI-TT-MW308I-20180915	9/15/2018	9:55	G	GW	2	N	N	X	
BP-AOC22-MW03-20180915	9/15/2018	9:35	G	GW	2	N	N	X	
BPSI-TT-MW309S-20180915	9/15/2018	11:35	G	GW	2	N	N	X	
BP-TT-AOC22-MW10-20180915	9/15/2018	12:40	G	GW	2	N	N	X	
BP-MH-SW4001-SOUTH-20180915	9/15/2018	10:40	G	GW	2	N	N	X	
BP-DUP03-20180915	9/15/2018	12:00	G	GW	2	N	N	X	Duplicate
BP-TT-SW4002-20180915	9/15/2018	8:30	G	GW	6	N	Y	X	MS/MSD
BPS1-TT-MW309D-20180915	9/15/2018	12:25	G	GW	2	N	N	X	
BPS1-TT-MW309I-20180915	9/15/2018	14:05	G	GW	2	N	N	X	
BP-TT-FRB05-20180915	9/15/2018	13:00	G	QC	2	N	N	X	Field Reagent Blank
BP-TT-FRB06-20180916	9/16/2018	13:40	G	QC	2	N	N	X	Field Reagent Blank
BPSI-HN-MW29IR-20180916	9/16/2018	13:10	G	GW	2	N	N	X	
BPSI-HN-MW29D-20180916	9/16/2018	12:25	G	GW	2	N	N	X	
BP-FW-MW03-20180916	9/16/2018	12:50	G	GW	2	N	N	X	
BP-FW-MW02-20180916	9/16/2018	15:45	G	GW	2	N	N	X	
BP-FW-MW01-20180916	9/16/2018	15:45	G	GW	2	N	N	X	
				Total # Containers (Page 1 of 2)	60				

Preservation Used: 1= Ice; 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other: Trizma

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Fed Ex Tracking: 7732 5712 1103

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐Return to Client ☐Disposal by Lab ☐Archive for _____ Months

✱ WO 1803086   ① WO 1803087
✱ WO 1803088

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 8118118	Cooler Temp. (°C): Obs'd: ____ Corr'd: ____	Therm ID No.:
Relinquished by:	Company: Tetra Tech	Date/Time: 9/14/2018 18:00	Received by:	Company: VAL	Date/Time: 9/19/18 0924
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

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Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 • Fax (916)673-0106

1803086

Vista
Vista Analytical Laboratory

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

Client Contact	Project Manager: David Brayack	Site Contact: Chuck Meyer	Date:	COC No:
TetraTech	Tel/Fax: (757) 466-4909	Lab Contact: Jade White	Carrier: FedEx	Page 2 of 2
5700 Lake Wright Dr Suite 102	**Analysis Turnaround Time**			Chuck Meyer
Norfolk, VA 23502	☐CALENDAR DAYS ☐WORKING DAYS			**For Lab Use Only:**
(757) 466-4909	TAT if different from Below 21			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Bethpage	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PFAS (NYSDEC 21-Compound List) EPA 537 Modified						Sample Specific Notes:
BP-TT-FRB07-20180917	9/17/2018	11:00	G	QC	2	N	N	X						Field Reagent Blank
BPSI-TT-MW308S-20180917	9/17/2018	9:30	G	GW	2	N	N	X						
BPSI-TT-MW304S-20180917	9/17/2018	10:00	G	GW	2	N	N	X						
BPSI-TT-MW304D-20180917	9/17/2018	9:50	G	QC	2	N	N	X						
BPSI-TT-MW304I1-20180917	9/17/2018	11:45	G	GW	2	N	N	X						
BPSI-TT-MW304I2-20180917	9/17/2018	12:00	G	GW	2	N	N	X						
BP-DUP04-20180916	9/16/2018	12:00	G	GW	2	N	N	X						Duplicate

Total # Containers (Page 2 of 2)	14	
Total # Containers (Total Pages 1 AND 2)	74	

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other: Trizma

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☑Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Fed Ex Tracking: 7732 5712 1103

WO 1803088
WO 1803087

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 9119118 1614	Cooler Temp. (°C): Obs'd:____ Corr'd:____	Therm ID No.:
Relinquished by:	Company: Tetra Tech	Date/Time: 9/18/2018 16:30	Received by:	Company: VAL	Date/Time: 9/19/18 0925
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

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Appendix C

Support Documents

C. Calculations for Stage 4

PFAS Calculations for SDG 1803086

INITIAL CALIBRATION

$$RF = \frac{Ac}{Ais} \times \frac{Cis}{Cc}$$

Ac = **PFBA**   Ais = **13C3-PFBA**

Level	Ac	Ais	Conc. Is	Conc. C	RRF$_{calc}$
1	**164.856**	**6388.046**	**12.5**	**0.250**	1.2903
2	**247.836**	**6452.275**	**12.5**	**0.500**	0.9603
3	**637.571**	**6448.089**	**12.5**	**1.000**	1.2360
4	**1192.971**	**6576.23**	**12.5**	**2.000**	1.1338
5	**2839.738**	**6362.222**	**12.5**	**5.000**	1.1159
6	**5899.867**	**6269.397**	**12.5**	**10.000**	1.1763
7	**29394.986**	**6472.161**	**12.5**	**50.000**	1.1354
8	**58012.363**	**6508.763**	**12.5**	**100.000**	1.1141
9	**152202.875**	**6159.557**	**12.5**	**250.000**	1.2355
10	**306536.375**	**6359.982**	**12.5**	**500.000**	1.2049
				AVG RRF =	1.1603

SAMPLE QUANTITATION

Sample ID: **BPSI-TT-MW308D-20180914**
Laboratory ID: **1803086-1**
Compound: **PFBA**

AREA c	AREA istd	CONC istd	Avg RF	Vo	Vs	DL
1630	**8070**	**12.5**	**1.1603**	**1**	**0.123**	**1**

Calculated Conc	Reported Conc	%D
17.7	**17.5**	1.1

DODCMD_ID	INSTALLATION_ID	SDG	SITE_NAME	NORM_SITE_NAME	LOCATION_NAME	LOCATION_TYPE_DESC	COORD_X	COORD_Y	CONTRACT_ID	DO_CTO_NUMBER	CONTR_NAME	SAMPLE_NAME	SAMPLE_MATRIX_DESC	SAMPLE_TYPE_DESC	COLLECT_DATE	ANALYTICAL_METHOD	ANALYTICAL_METHOD_GRP_DESC
MID_ATLANTIC	BETHPAGE_NWIRP	1803086	SITE 00001	SITE 00001	BP-MH-SW4001	Surface water body - nonspecific	1125361.861	215372.779	N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-MH-SW4001-SOUTH-20180915	Ground water	Normal (Regular)	15-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1803086	SITE 00001	SITE 00001	BP-MH-SW4001	Surface water body - nonspecific	1125361.861	215372.779	N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-MH-SW4001-SOUTH-20180915-D	Ground water	Field duplicate	15-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1803086							N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-FB01-20180913	Water for QC samples	Field blank	13-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1803086							N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-TT-EB02-20180914	Water for QC samples	Equipment blank	14-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1803086	SITE 00001	SITE 00001	BPS1-TT-MW306I	Monitoring well	1124399.458	213382.124	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW306I-20180914	Ground water	Normal (Regular)	14-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1803086	SITE 00001	SITE 00001	BPS1-TT-MW306I	Monitoring well	1124399.458	213382.124	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW306I-20180914-D	Ground water	Field duplicate	14-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1803086	SITE 00001	SITE 00001	BPS1-TT-MW306S	Monitoring well	1124387.814	213383.55	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW306S-20180914	Ground water	Normal (Regular)	14-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1803086	SITE 00001	SITE 00001	BPTTAOC22MW10	Monitoring well	1123833	213950	N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-TT-AOC22-MW10-20180915	Ground water	Normal (Regular)	15-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1803086	SITE 00002	SITE 00002	BPS1-TT-MW308D	Monitoring well	1124935.463	214965.082	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW308D-20180914	Ground water	Normal (Regular)	14-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1803086	SITE 00002	SITE 00002	BPS1-TT-MW308I	Monitoring well	1124923.261	214972.484	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW308I-20180915	Ground water	Normal (Regular)	15-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1803086	SITE 00002	SITE 00002	BPS1-TT-MW309S	Monitoring well	1124997.916	215212.06	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW309S-20180915	Ground water	Normal (Regular)	15-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1803086	SITE 00004	SITE 00004	BPHNMW24I	Monitoring well	1123261.3	214105.532	N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-HN-MW24IR-20180914	Ground water	Normal (Regular)	14-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1803086	SITE 00004	SITE 00004	BPHNMW24S	Monitoring well	1123275.862	214096.5348	N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-HN-MW24S-20180914	Ground water	Normal (Regular)	14-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1803086	SITE 00004	SITE 00004	BPTTAOC22MW03	Monitoring well	1123680	214136	N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-TT-AOC22-MW03-20180915	Ground water	Normal (Regular)	15-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1803086	SITE 00004	SITE 00004	BPTTAOC22MW04	Monitoring well	1123645	214018	N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-TT-AOC22-MW04-20180914	Ground water	Normal (Regular)	14-Sep-18	537_MOD	Perfluoroalkyl Compounds