

Groundwater Sample Results, Electronic Data Deliverable, and Data Validation Report, SDG 1803120

Naval Weapons Industrial Reserve Plant Bethpage Bethpage, New York

August 2019

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"BPSI-TT-MW301S-20180918", "Modified EPA 537", "Initial", "1803120-01", "Vista", "375-22-
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"BB-TT-DUP05-20180918","Modified EPA 537","Initial","1803120-02","Vista","13C2-8:2 FTS","13C2-8:2
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FTS","87.2","%R","","-99","NA","","IS","87.2","","-99","NA","YES","100","","0.119","0.001","-99",""
MeFOSAA","64.7","%R","","-99","NA","","IS","64.7","","-99","NA","YES","100","","0.119","0.001","-99",""
"BB-TT-DUP05-20180918", "Modified EPA 537", "Initial", "1803120-02", "Vista", "d5-EtFOSAA", "d5-
EtFOSAA","70.9","%R","","-99","NA","","IS","70.9","","-99","NA","YES","100","","0.119","0.001","-99",""
"BB-TT-DUP05-20180918", "Modified EPA 537", "Initial", "1803120-02", "Vista", "13C2-PFUnA", "13C2-PF
PFUnA","67.5","%R","","-99","NA","","IS","67.5","","-99","NA","YES","100","","0.119","0.001","-99","" "BB-TT-DUP05-20180918","Modified EPA 537","Initial","1803120-02","Vista","13C2-PFDoA","13C2-
PFDoA","78.4","%R","","-99","NA","","IS","78.4","","-99","NA","YES","100","","0.119","0.001","-99",""
"BB-TT-DUP05-20180918", "Modified EPA 537", "Initial", "1803120-02", "Vista", "13C2-PFTeDA", "13
PFTeDA","87.8","%R","","-99","NA","","IS","87.8","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "375-22-
4","PFBA","4.85","ng/L","J","2.99","LOD","","TRG","","","8.74","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "2706-90-
3","PFPeA","5.31","ng/L","J<sup>"</sup>,"2.99","LOD","","TRG","","<sup>"</sup>,"8.74","LOQ<sup>"</sup>,"YES<sup>"</sup>,"-99","","0.114","0.001","5.48",""
"BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "375-73-
5","PFBS","5.48","ng/L","UU","2.99","LOD","","TRG","","","8.74","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "307-24-
4","PFHxA","4.68","ng/L","J","2.99","LOD","","TRG","","","8.74","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "375-85-
 9","PFHpA","3.24","ng/L","J,
Q","2.99","LOD","","TRG","","","8.74","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "355-46-
4","PFHxS","5.48","ng/L","UU","2.99","LOD","","TRG","","","8.74","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-HN-MW27I-20180918","Modified EPA 537","Initial","1803120-03","Vista","27619-97-2","6:2 FTS","5.48","ng/L","UU","2.99","LOD","","TRG","","","8.74","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "335-67-
1", "PFOA", "4.09", "ng/L", "J", "2.99", "LOD", "", "TRG", "", "", "8.74", "LOQ", "YES", "-99", "", "0.114", "0.001", "5.48", "", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1
"BP-HN-MW27I-20180918","Modified EPA 537","Initial","1803120-03","Vista","375-92-
8","PFHpS","5.48","ng/L","ÚU","2.99","LOD","","TRG","","","8.74","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-HN-MW27I-20180918","Modified EPA 537","Initial","1803120-03","Vista","375-95-
1","PFNA","5.48","ng/L","UU","2.99","LOD","","TRG","","","8.74","LOQ","YES","-99","","0.114","0.001","5.48","" "BP-HN-MW27I-20180918","Modified EPA 537","Initial","1803120-03","Vista","754-91-
6","PFOSA","5.48","ng/L","UU","2.99","LOD","","TRG","","","8.74","LOQ","YES","-99","","0.114","0.001","5.48","
"BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "1763-23-
1", "PFOS", "5.48", "ng/L", "UU", "2.99", "LOD", "", "TRG", "", "", "8.74", "LOQ", "YES", "-99", "", "0.114", "0.001", "5.48", "", "1.74", "LOQ", "YES", "-99", "", "0.114", "0.001", "5.48", "", "1.74", "LOQ", "YES", "-99", "", "0.114", "0.001", "5.48", "", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.74", "1.
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2","PFDA","5.48","ng/L","UU","2.99","LOD","","TRG","","","8.74","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-HN-MW27I-20180918","Modified EPA 537","Initial","1803120-03","Vista","39108-34-4","8:2
FTS","5.48","ng/L","UU","2.99","LOD","","TRG","","","8.74","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "2355-31-
9","MeFOSAA","5.48","ng/L","UU","2.99","LOD","","TRG","","","8.74","LOQ","YES","-99","","0.114","0.001","5.4
 "BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "2991-50-
6","EtFOSAA","5.48","ng/L","UU","2.99","LOD","","TRG","","","8.74","LOQ","YES","-99","","0.114","0.001","5.48
"BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "2058-94-
 8","PFUnA","3.26","ng/L","J,
Q","2.99","LOD","","TRG","","","8.74","LOQ","YES","-99","","0.114","0.001","5.48","" "BP-HN-MW27I-20180918","Modified EPA 537","Initial","1803120-03","Vista","335-77-
3","PFDS","5.48","ng/L","UU","2.99","LOD","","TRG","","","8.74","LOQ","YES","-99","","0.114","0.001","5.48",""
"BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "307-55-
1","PFDoA","5.48","ng/L","UU","2.99","LOD","","TRG","","","8.74","LOQ","YES","-99","","0.114","0.001","5.48","
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"BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "72629-94-8","PFTrDA","5.48","ng/L","UU","2.99","LOD","","TRG","","","8.74","LOQ","YES","-99","","0.114","0.001","5.48", "BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "376-06-7","PFTeDA","5.48","ng/L","UU","2.99","LOD","","TRG","","","8.74","LOQ","YES","-99","","0.114","0.001","5.48", "BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "13C3-PFBA", "13C3 PFBA","97.1","%R","","-99","NA","","IS","97.1","","-99","NA","YES","100","","0.114","0.001","-99","" "BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "13C3-PFPeA", "13C3-PF PFPeA","86.2","%R","","-99","NA","","IS","86.2","","-99","NA","YES","100","","0.114","0.001","-99","" "BP-HN-MW27I-20180918","Modified EPA 537","Initial","1803120-03","Vista","13C3-PFBS","13C3-PFBS","94.0","%R","","-99","NA","","IS","94.0","","-99","NA","YES","100","","0.114","0.001","-99","" "BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "13C2-PFHxA", "13C2-PF PFHxA","93.5","%R","","-99","NA","","IS","93.5","","-99","NA","YES","100","","0.114","0.001","-99","" "BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "13C4-PFHpA", "13C4-PF PFHpA","105","%R","","-99","NA","","IS","105","","-99","NA","YES","100","","0.114","0.001","-99","" "BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "1802-PFHxS", "1802-PFHxS","100","%R","","-99","NA","","IS","100","","-99","NA","YES","100","","0.114","0.001","-99","" "BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "13C2-6:2 FTS", "13C2-6:2 FTS","93.8","%R","","-99","NA","","IS","93.8","","-99","NA","YES","100","","0.114","0.001","-99","" "BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "13C2-PFOA", "13C2 PFOA","91.9","%R","","-99","NA","","IS","91.9","","-99","NA","YES","100","","0.114","0.001","-99","" "BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "13C5-PFNA", "13C5 PFNA","75.2","%R","","-99","NA","","IS","75.2","","-99","NA","YES","100","","0.114","0.001","-99","" "BP-HN-MW27I-20180918","Modified EPA 537","Initial","1803120-03","Vista","13C8-PFOSA","13C8-PFOS PFOSA","10.6","%R","H","-99","NA","","IS","10.6","","-99","NA","YES","100","","0.114","0.001","-99","" "BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "13C8-PFOS", "13C8 PFOS","93.6","%R","","-99","NA","","IS","93.6","","-99","NA","YES","100","","0.114","0.001","-99","" "BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "13C2-PFDA", "13C2 PFDA","67.9","%R","","-99","NA","","IS","67.9","","-99","NA","YES","100","","0.114","0.001","-99","" "BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "13C2-8:2 FTS", "13C2-8:2 FTS","89.5","%R","","-99","NA","","IS","89.5","","-99","NA","YES","100","","0.114","0.001","-99","" MeFOSAA","65.9","%R","","-99","NA","","IS","65.9","","-99","NA","YES","100","","0.114","0.001","-99","" "BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "d5-EtFOSAA", "d5-EtFO EtFOSAA","71.1","%R","","-99","NA","","IS","71.1","","-99","NA","YES","100","","0.114","0.001","-99","" "BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "13C2-PFUnA", "13C2-PF PFUnA","73.4","%R","","-99","NA","","IS","73.4","","-99","NA","YES","100","","0.114","0.001","-99","" "BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "13C2-PFDoA", "13C2-PF PFDoA","83.9","%R","","-99","NA","","IS","83.9","","-99","NA","YES","100","","0.114","0.001","-99","" "BP-HN-MW27I-20180918", "Modified EPA 537", "Initial", "1803120-03", "Vista", "13C2-PFTeDA", "13 PFTeDA","92.5","%R","","-99","NA","","IS","92.5","","-99","NA","YES","100","","0.114","0.001","-99","" "BPSI-TT-MW301D-20180918","Modified EPA 537","Initial","1803120-04","Vista","375-22-4","PFBA","13.3","ng/L","","2.88","LOD","","TRG","","","8.42","LOQ","YES","-99","","0.119","0.001","5.25","" "BPSI-TT-MW301D-20180918", "Modified EPA 537", "Initial", "1803120-04", "Vista", "2706-90-3","PFPeA","36.6","ng/L","","2.88","LOD","","TRG","","","8.42","LOQ","YES","-99","","0.119","0.001","5.25","" "BPSI-TT-MW301D-20180918", "Modified EPA 537", "Initial", "1803120-04", "Vista", "375-73-5","PFBS","5.25","ng/L","UU","2.88","LOD","","TRG","","","8.42","LOQ","YES","-99","","0.119","0.001","5.25","" "BPSI-TT-MW301D-20180918", "Modified EPA 537", "Initial", "1803120-04", "Vista", "307-24-4","PFHxA","25.3","ng/L","","2.88","LOD","","TRG","","","8.42","LOQ","YES","-99","","0.119","0.001","5.25","" "BPSI-TT-MW301D-20180918", "Modified EPA 537", "Initial", "1803120-04", "Vista", "375-85-9","PFHpA","15.3","ng/L","","2.88","LOD","","TRG","","","8.42","LOQ","YES","-99","","0.119","0.001","5.25",""

"BPSI-TT-MW301D-20180918", "Modified EPA 537", "Initial", "1803120-04", "Vista", "355-46-

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4","PFHxS","3.91","ng/L","J","2.88","LOD","","TRG","","","8.42","LOQ","YES","-99","","0.119","0.001","5.25",""
"BPSI-TT-MW301D-20180918","Modified EPA 537","Initial","1803120-04","Vista","27619-97-2","6:2
FTS","5.25","ng/L","UU","2.88","LOD","","TRG","","","8.42","LOQ","YES","-99","","0.119","0.001","5.25",""
"BPSI-TT-MW301D-20180918", "Modified EPA 537", "Initial", "1803120-04", "Vista", "335-67-
1","PFOA","13.9","ng/L","","2.88","LOD","","TRG","","","8.42","LOQ","YES","-99","","0.119","0.001","5.25",""
"BPSI-TT-MW301D-20180918", "Modified EPA 537", "Initial", "1803120-04", "Vista", "375-92-
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"BPSI-TT-MW301D-20180918", "Modified EPA 537", "Initial", "1803120-04", "Vista", "375-95-
1","PFNA","7.92","ng/L","J","2.88","LOD","","TRG","","","8.42","LOQ","YES","-99","","0.119","0.001","5.25",""
"BPSI-TT-MW301D-20180918", "Modified EPA 537", "Initial", "1803120-04", "Vista", "754-91-
6","PFOSA","5.25","ng/L","UU","2.88","LOD","","TRG","","","8.42","LOQ","YES","-99","","0.119","0.001","5.25","
"BPSI-TT-MW301D-20180918","Modified EPA 537","Initial","1803120-04","Vista","1763-23-
1","PFOS","10.1","ng/L","","2.88","LOD","","TRG","","","8.42","LOQ","YES","-99","","0.119","0.001","5.25",""
"BPSI-TT-MW301D-20180918", "Modified EPA 537", "Initial", "1803120-04", "Vista", "335-76-
2","PFDA","5.25","ng/L","UU","2.88","LOD","","TRG","","","8.42","LOQ","YES","-99","","0.119","0.001","5.25",""
"BPSI-TT-MW301D-20180918", "Modified EPA 537", "Initial", "1803120-04", "Vista", "39108-34-4", "8:2
FTS","5.25","ng/L","UU","2.88","LOD","","TRG","","","8.42","LOQ","YES","-99","","0.119","0.001","5.25",""
"BPSI-TT-MW301D-20180918", "Modified EPA 537", "Initial", "1803120-04", "Vista", "2355-31-
9","MeFOSAA","5.25","ng/L","UU","2.88","LOD","","TRG","","","8.42","LOQ","YES","-99","","0.119","0.001","5.2
5",""
"BPSI-TT-MW301D-20180918", "Modified EPA 537", "Initial", "1803120-04", "Vista", "2991-50-
6","EtFOSAA","5.25","ng/L","UU","2.88","LOD","","TRG","","","8.42","LOQ","YES","-99","","0.119","0.001","5.25
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1","PFOS","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.50","LOQ","YES","-99","","0.118","0.001","5.30",""
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2","PFDA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.50","LOQ","YES","-99","","0.118","0.001","5.30",""
"BPSI-TT-MW301I-20180918","Modified EPA 537","Initial","1803120-05","Vista","39108-34-4","8:2
FTS","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.50","LOQ","YES","-99","","0.118","0.001","5.30","" "BPSI-TT-MW301I-20180918","Modified EPA 537","Initial","1803120-05","Vista","2355-31-
9","MeFOSAA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.50","LOQ","YES","-99","","0.118","0.001","5.3
 "BPSI-TT-MW301I-20180918", "Modified EPA 537", "Initial", "1803120-05", "Vista", "2991-50-
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6","EtFOSAA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.50","LOQ","YES","-99","","0.118","0.001","5.30
 " ""
 "BPSI-TT-MW301I-20180918", "Modified EPA 537", "Initial", "1803120-05", "Vista", "2058-94-
8","PFUnA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.50","LOQ","YES","-99","","0.118","0.001","5.30","
 "BPSI-TT-MW301I-20180918", "Modified EPA 537", "Initial", "1803120-05", "Vista", "335-77-
3","PFDS","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.50","LOQ","YES","-99","","0.118","0.001","5.30","" "BPSI-TT-MW301I-20180918","Modified EPA 537","Initial","1803120-05","Vista","307-55-
 1","PFDoA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.50","LOQ","YES","-99","","0.118","0.001","5.30","
 "BPSI-TT-MW301I-20180918","Modified EPA 537","Initial","1803120-05","Vista","72629-94-
8", "PFTrDA", "5.30", "ng/L", "UU", "2.91", "LOD", "", "TRG", "", "", "8.50", "LOQ", "YES", "-99", "", "0.118", "0.001", "5.30", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.00", "1.
 "BPSI-TT-MW301I-20180918", "Modified EPA 537", "Initial", "1803120-05", "Vista", "376-06-
 7","PFTeDA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.50","LOQ","YES","-99","","0.118","0.001","5.30",
 "BPSI-TT-MW301I-20180918","Modified EPA 537","Initial","1803120-05","Vista","13C3-PFBA","13C3-
PFBA","97.1","%R","","-99","NA","","IS","97.1","","-99","NA","YES","100","","0.118","0.001","-99",""
 "BPSI-TT-MW301I-20180918", "Modified EPA 537", "Initial", "1803120-05", "Vista", "13C3-PFPeA", "13C3-
PFPeA","88.8","%R","","-99","NA","","IS","88.8","","-99","NA","YES","100","","0.118","0.001","-99",""
"BPSI-TT-MW301I-20180918","Modified EPA 537","Initial","1803120-05","Vista","13C3-PFBS","13C3-
PFBS","90.2","%R","","-99","NA","","IS","90.2","","-99","NA","YES","100","","0.118","0.001","-99",""
 "BPSI-TT-MW301I-20180918", "Modified EPA 537", "Initial", "1803120-05", "Vista", "13C2-PFHxA", "13C2
PFHxA","94.0","%R","","-99","NA","","IS","94.0","","-99","NA","YES","100","","0.118","0.001","-99",""
"BPSI-TT-MW301I-20180918", "Modified EPA 537", "Initial", "1803120-05", "Vista", "13C4-PFHpA", "13C4-PFHpA", "107", "%R", "", "-99", "NA", "YES", "100", "", "0.118", "0.001", "-99", ""
PFHxS","98.2","%R","","-99","NA","","IS","98.2","","-99","NA","YES","100","","0.118","0.001","-99","" "BPSI-TT-MW301I-20180918","Modified EPA 537","Initial","1803120-05","Vista","13C2-6:2 FTS","13C2-6:2
FTS","93.9","%R","","-99","NA","","IS","93.9","","-99","NA","YES","100","","0.118","0.001","-99",""
"BPSI-TT-MW301I-20180918","Modified EPA 537","Initial","1803120-05","Vista","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","1
PFOA", "89.1", "%R", "", "-99", "NA", "", "IS", "89.1", "", "-99", "NA", "YES", "100", "", "0.118", "0.001", "-99", "" "BPSI-TT-MW301I-20180918", "Modified EPA 537", "Initial", "1803120-05", "Vista", "13C5-PFNA", 
PFNA","74.0","%R","","-99","NA","","IS","74.0","","-99","NA","YES","100","","0.118","0.001","-99",""
 "BPSI-TT-MW301I-20180918", "Modified EPA 537", "Initial", "1803120-05", "Vista", "13C8-PFOSA", "13C8
PFOSA","10.0","%R","H","-99","NA","","IS","10.0","","-99","NA","YES","100","","0.118","0.001","-99",""
 "BPSI-TT-MW301I-20180918", "Modified EPA 537", "Initial", "1803120-05", "Vista", "13C8-PFOS", "1
PFOS","94.0","%R","","-99","NA","","IS","94.0","","-99","NA","YES","100","","0.118","0.001","-99",""
"BPSI-TT-MW301I-20180918", "Modified EPA 537", "Initial", "1803120-05", "Vista", "13C2-PFDA", "1
PFDA","60.6","%R","","-99","NA","","IS","60.6","","-99","NA","YES","100","","0.118","0.001","-99",""
 "BPSI-TT-MW301I-20180918", "Modified EPA 537", "Initial", "1803120-05", "Vista", "13C2-8:2 FTS", "13C2-8:2
FTS","90.6","%R","","-99","NA","","IS","90.6","","-99","NA","YES","100","","0.118","0.001","-99",""
"BPSI-TT-MW301I-20180918", "Modified EPA 537", "Initial", "1803120-05", "Vista", "d3-MeFOSAA", "d3-M
MeFOSAA","59.4","%R","","-99","NA","","IS","59.4","","-99","NA","YES","100","","0.118","0.001","-99",""
"BPSI-TT-MW301I-20180918","Modified EPA 537","Initial","1803120-05","Vista","d5-EtFOSAA","d5-
EtFOSAA","64.3","%R","","-99","NA","","IS","64.3","","-99","NA","YES","100","","0.118","0.001","-99",""
"BPSI-TT-MW301I-20180918", "Modified EPA 537", "Initial", "1803120-05", "Vista", "13C2-PFUnA", "13C2
PFUnA","66.5","%R","","-99","NA","","IS","66.5","","-99","NA","YES","100","","0.118","0.001","-99",""
"BPSI-TT-MW301I-20180918", "Modified EPA 537", "Initial", "1803120-05", "Vista", "13C2-PFDoA", "13C2
PFDoA","73.3","%R","","-99","NA","","IS","73.3","","-99","NA","YES","100","","0.118","0.001","-99",""
"BPSI-TT-MW301I-20180918","Modified EPA 537","Initial","1803120-05","Vista","13C2-PFTeDA","13C2-
PFTeDA","90.0","%R","","-99","NA","","IS","90.0","","-99","NA","YES","100","","0.118","0.001","-99",""
 "BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "375-22-
4","PFBA","14.4","ng/L","","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
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"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "2706-90-
3","PFPeA","34.8","ng/L","","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "375-73-
5","PFBS","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "307-24-
4","PFHxA","24.4","ng/L","","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "375-85-
9","PFHpA","14.7","ng/L","","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "355-46-
4","PFHxS","4.62","ng/L","J,
Q","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "27619-97-2", "6:2
FTS","9.64","ng/L","","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "335-67-
1","PFOA","17.0","ng/L","","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "375-92-
8","PFHpS","5.25","ng/L","UÚ","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "375-95-
1","PFNA","6.97","ng/L","J","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "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-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "1763-23-
1","PFOS","11.1","ng/L","","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",""
"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "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-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "39108-34-4", "8:2
FTS", "4.88", "ng/L", "J", "2.87", "LOD", "", "TRG", "", "", "8.38", "LOQ", "YES", "-99", "", "0.119", "0.001", "5.25", ""
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9","MeFOSAA","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.2
"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "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-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "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-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "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-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "307-55-
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"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "72629-94-
8","PFTrDA","5.25","ng/L","ÚU","2.87","LOD","","TRG","","","8.38","LOQ","YES","-99","","0.119","0.001","5.25",
"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "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-MH-SW4001-20180918","Modified EPA 537","Initial","1803120-06","Vista","13C3-PFBA","13C3-
PFBA","95.9","%R","","-99","NA","","IS","95.9","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "13C3-PFPeA", "13C3-P
PFPeA","86.7","%R","","-99","NA","","IS","86.7","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "13C3-PFBS", "13C3-
PFBS","88.7","%R","","-99","NA","","IS","88.7","","-99","NA","YES","100","","0.119","0.001","-99",""
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"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "13C2-PFHxA", "13C2-
PFHxA","90.5","%R","","-99","NA","","IS","90.5","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "13C4-PFHpA", "13C4-P
PFHpA","98.8","%R","","-99","NA","","IS","98.8","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "1802-PFHxS", "1802-
PFHxS","99.1","%R","","-99","NA","","IS","99.1","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "13C2-6:2 FTS", "13C2-6:2
FTS","91.9","%R","","-99","NA","","IS","91.9","","-99","NA","YES","100","","0.119","0.001","-99",""
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"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "13C8-PFOSA", "13C8-P
PFOSA","10.4","%R","H","-99","NA","","IS","10.4","","-99","NA","YES","100","","0.119","0.001","-99",""
"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "13C8-PFOS", "13C
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"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "13C2-PFDA", "13C
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"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "13C2-8:2 FTS", "13C2-8:2
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"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "d3-MeFOSAA", "d3-MeFOSAAA", 
MeFOSAA","70.6","%R","","-99","NA","","IS","70.6","","-99","NA","YES","100","","0.119","0.001","-99",""
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"BP-MH-SW4001-20180918", "Modified EPA 537", "Initial", "1803120-06", "Vista", "13C2-PFDoA", "13C2-P
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 "BP-TT-SW4004-20180918", "Modified EPA 537", "Initial", "1803120-07", "Vista", "335-67-
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2","PFDA","5.39","ng/L","UU","2.96","LOD","","TRG","","","8.64","LOQ","YES","-99","","0.116","0.001","5.39",""
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9".""
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"BP-TT-SW4002-20180918","Modified EPA 537","Initial","1803120-08","Vista","375-73-
5","PFBS","5.34","ng/L","UU","2.94","LOD","","TRG","","","8.58","LOQ","YES","-99","","0.117","0.001","5.34",""
"BP-TT-SW4002-20180918","Modified EPA 537","Initial","1803120-08","Vista","307-24-
4","PFHxA","16.2","ng/L","","2.94","LOD","","TRG","","","8.58","LOQ","YES","-99","","0.117","0.001","5.34",""
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9","PFHpA","9.37","ng/L","","2.94","LOD","","TRG","","","8.58","LOQ","YES","-99","","0.117","0.001","5.34",""
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1","PFOA","11.2","ng/L","","2.94","LOD","","TRG","","","8.58","LOQ","YES","-99","","0.117","0.001","5.34",""
"BP-TT-SW4002-20180918", "Modified EPA 537", "Initial", "1803120-08", "Vista", "375-92-
8","PFHpS","5.34","ng/L","UU","2.94","LOD","","TRG","","","8.58","LOQ","YES","-99","","0.117","0.001","5.34",""
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1","PFOS","8.40","ng/L","J","2.94","LOD","","TRG","","","8.58","LOQ","YES","-99","","0.117","0.001","5.34",""
"BP-TT-SW4002-20180918", "Modified EPA 537", "Initial", "1803120-08", "Vista", "335-76-
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"BP-TT-SW4002-20180918", "Modified EPA 537", "Initial", "1803120-08", "Vista", "2355-31-
9","MeFOSAA","5.34","ng/L","UU","2.94","LOD","","TRG","","","8.58","LOQ","YES","-99","","0.117","0.001","5.3
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9","MeFOSAA","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.37","LOQ","YES","-99","","0.119","0.001","5.2
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"BPSI-TT-MW312I-20180918","Modified EPA 537","Initial","1803120-09","Vista","13C3-PFBS","13C3-
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"BPSI-TT-MW312I-20180918", "Modified EPA 537", "Initial", "1803120-09", "Vista", "13C2-PFHxA", "13C2
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"BPSI-TT-MW312I-20180918", "Modified EPA 537", "Initial", "1803120-09", "Vista", "13C4-PFHpA", "13C4
PFHpA","97.6","%R","","-99","NA","","IS","97.6","","-99","NA","YES","100","","0.119","0.001","-99",""
PFHxS","92.6","%R","","-99","NA","","IS","92.6","","-99","NA","YES","100","","0.119","0.001","-99",""
"BPSI-TT-MW312I-20180918", "Modified EPA 537", "Initial", "1803120-09", "Vista", "13C2-6:2 FTS", "13C2-6:2
FTS","90.7","%R","","-99","NA","","IS","90.7","","-99","NA","YES","100","","0.119","0.001","-99",""
"BPSI-TT-MW312I-20180918","Modified EPA 537","Initial","1803120-09","Vista","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","13C2-PFOA","1
PFOA","91.7","%R","","-99","NA","","IS","91.7","","-99","NA","YES","100","","0.119","0.001","-99","" "BPSI-TT-MW312I-20180918","Modified EPA 537","Initial","1803120-09","Vista","13C5-PFNA","13C5-
PFNA","81.2","%R","","-99","NA","","IS","81.2","","-99","NA","YES","100","","0.119","0.001","-99",""
"BPSI-TT-MW312I-20180918", "Modified EPA 537", "Initial", "1803120-09", "Vista", "13C8-PFOSA", "13C8
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"BPSI-TT-MW312I-20180918", "Modified EPA 537", "Initial", "1803120-09", "Vista", "13C2-8:2 FTS", "13C2-8:2
FTS","94.1","%R","","-99","NA","","IS","94.1","","-99","NA","YES","100","","0.119","0.001","-99",""
MeFOSAA","66.7","%R","","-99","NA","","IS","66.7","","-99","NA","YES","100","","0.119","0.001","-99",""
"BPSI-TT-MW312I-20180918", "Modified EPA 537", "Initial", "1803120-09", "Vista", "d5-EtFOSAA", "d5-
EtFOSAA","67.8","%R","","-99","NA","","IS","67.8","","-99","NA","YES","100","","0.119","0.001","-99",""
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"BPSI-TT-MW312I-20180918", "Modified EPA 537", "Initial", "1803120-09", "Vista", "13C2-PFDoA", "13C2
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"BPSI-TT-MW312I-20180918", "Modified EPA 537", "Initial", "1803120-09", "Vista", "13C2-PFTeDA", 
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"BPSI-TT-MW312S-20180918", "Modified EPA 537", "Initial", "1803120-10", "Vista", "375-22-
4","PFBA","20.2","ng/L","","2.99","LOD","","TRG","","","8.72","LOQ","YES","-99","","0.115","0.001","5.43",""
"BPSI-TT-MW312S-20180918","Modified EPA 537","Initial","1803120-10","Vista","2706-90-
3","PFPeA","42.3","ng/L","","2.99","LOD","","TRG","","","8.72","LOQ","YES","-99","","0.115","0.001","5.43",""
"BPSI-TT-MW312S-20180918", "Modified EPA 537", "Initial", "1803120-10", "Vista", "375-73-
5","PFBS","5.43","ng/L","UU","2.99","LOD","","TRG","","","8.72","LOQ","YES","-99","","0.115","0.001","5.43",""
 "BPSI-TT-MW312S-20180918", "Modified EPA 537", "Initial", "1803120-10", "Vista", "307-24-
4","PFHxA","26.3","ng/L","","2.99","LOD","","TRG","","","8.72","LOQ","YES","-99","","0.115","0.001","5.43",""
"BPSI-TT-MW312S-20180918", "Modified EPA 537", "Initial", "1803120-10", "Vista", "375-85-
9","PFHpA","14.4","ng/L","","2.99","LOD","","TRG","","","8.72","LOQ","YES","-99","","0.115","0.001","5.43",""
"BPSI-TT-MW312S-20180918", "Modified EPA 537", "Initial", "1803120-10", "Vista", "355-46-
4","PFHxS","3.01","ng/L","J","2.99","LOD","","TRG","","","8.72","LOQ","YES","-99","","0.115","0.001","5.43",""
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1","PFOA","10.3","ng/L","","2.99","LOD","","TRG","","","8.72","LOQ","YES","-99","","0.115","0.001","5.43",""
"BPSI-TT-MW312S-20180918", "Modified EPA 537", "Initial", "1803120-10", "Vista", "375-92-
8","PFHpS","5.43","ng/L","UU","2.99","LOD","","TRG","","","8.72","LOQ","YES","-99","","0.115","0.001","5.43",""
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1","PFNA","10.6","ng/L","","2.99","LOD","","TRG","","","8.72","LOQ","YES","-99","","0.115","0.001","5.43",""
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6","PFOSA","5.43","ng/L","UU<sup>"</sup>,"2.99","LOD","","TRG","","<sup>"</sup>,"8.72","LOQ<sup>"</sup>,"YES<sup>"</sup>,"-99","","0.115","0.001","5.43","
"BPSI-TT-MW312S-20180918", "Modified EPA 537", "Initial", "1803120-10", "Vista", "1763-23-
1","PFOS","9.05","ng/L","","2.99","LOD","","TRG","","","8.72","LOQ","YES","-99","","0.115","0.001","5.43",""
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2","PFDA","5.43","ng/L","UU","2.99","LOD","","TRG","","","8.72","LOQ","YES","-99","","0.115","0.001","5.43",""
"BPSI-TT-MW312S-20180918", "Modified EPA 537", "Initial", "1803120-10", "Vista", "39108-34-4", "8:2
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"BPSI-TT-MW312S-20180918", "Modified EPA 537", "Initial", "1803120-10", "Vista", "2355-31-
9","MeFOSAA","5.43","ng/L","UU","2.99","LOD","","TRG","","","8.72","LOQ","YES","-99","","0.115","0.001","5.4
 "BPSI-TT-MW312S-20180918", "Modified EPA 537", "Initial", "1803120-10", "Vista", "2991-50-
6","EtFOSAA","5.43","ng/L","UU","2.99","LOD","","TRG","","","8.72","LOQ","YES","-99","","0.115","0.001","5.43
"BPSI-TT-MW312S-20180918", "Modified EPA 537", "Initial", "1803120-10", "Vista", "2058-94-
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 "BPSI-TT-MW312S-20180918", "Modified EPA 537", "Initial", "1803120-10", "Vista", "307-55-
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 7","PFTeDA","5.43","ng/L","UU","2.99","LOD","","TRG","","","8.72","LOQ","YES","-99","","0.115","0.001","5.43",
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PFBA","96.3","%R","","-99","NA","","IS","96.3","","-99","NA","YES","100","","0.115","0.001","-99",""
"BPSI-TT-MW312S-20180918", "Modified EPA 537", "Initial", "1803120-10", "Vista", "13C3-PFPeA", "13C3
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 "BPSI-TT-MW312S-20180918", "Modified EPA 537", "Initial", "1803120-10", "Vista", "13C3-PFBS", "13C3-
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 "BPSI-TT-MW312S-20180918", "Modified EPA 537", "Initial", "1803120-10", "Vista", "13C2-PFHxA", "13C2
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"BPSI-TT-MW312S-20180918", "Modified EPA 537", "Initial", "1803120-10", "Vista", "13C2-PFOA", "1
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EtFOSAA","74.7","%R","","-99","NA","","IS","74.7","","-99","NA","YES","100","","0.115","0.001","-99",""
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4","PFBA","8.31","ng/L","J","2.86","LOD","","TRG","","","8.35","LOQ","YES","-99","","0.120","0.001","5.21",""
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 5","PFBS","5.21","ng/L","UU","2.86","LOD","","TRG","","","8.35","LOQ","YES","-99","","0.120","0.001","5.21",""
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1","PFOA","28.9","ng/L","","2.86","LOD","","TRG","","","8.35","LOQ","YES","-99","","0.120","0.001","5.21",""
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8","PFHpS","5.21","ng/L","UU","2.86","LOD","","TRG","","","8.35","LOQ","YES","-99","","0.120","0.001","5.21",""
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1","PFNA","4.59","ng/L","J","2.86","LOD","","TRG","","","8.35","LOQ","YES","-99","","0.120","0.001","5.21",""
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6","PFOSA","5.21","ng/L","UU","2.86","LOD","","TRG","","","8.35","LOQ","YES","-99","","0.120","0.001","5.21","
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1","PFOS","10.8","ng/L","","2.86","LOD","","TRG","","","8.35","LOQ","YES","-99","","0.120","0.001","5.21",""
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9","MeFOSAA","5.21","ng/L","UU","2.86","LOD","","TRG","","","8.35","LOQ","YES","-99","","0.120","0.001","5.2
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6","EtFOSAA","5.21","ng/L","UU","2.86","LOD","","TRG","","","8.35","LOQ","YES","-99","","0.120","0.001","5.21
"BPSI-TT-MW310S-20180919", "Modified EPA 537", "Initial", "1803120-11", "Vista", "2058-94-
8","PFUnA","5.21","ng/L","UU","2.86","LOD","","TRG","","","8.35","LOQ","YES","-99","","0.120","0.001","5.21","
"BPSI-TT-MW310S-20180919", "Modified EPA 537", "Initial", "1803120-11", "Vista", "335-77-
3","PFDS","5.21","ng/L","UU","2.86","LOD","","TRG","","","8.35","LOQ","YES","-99","","0.120","0.001","5.21",""
"BPSI-TT-MW310S-20180919", "Modified EPA 537", "Initial", "1803120-11", "Vista", "307-55-
1","PFDoA","5.21","ng/L","UU","2.86","LOD","","TRG","","","8.35","LOQ","YES","-99","","0.120","0.001","5.21","
"BPSI-TT-MW310S-20180919", "Modified EPA 537", "Initial", "1803120-11", "Vista", "72629-94-
8","PFTrDA","5.21","ng/L","UU","2.86","LOD","","TRG","","","8.35","LOQ","YES","-99","","0.120","0.001","5.21",
"BPSI-TT-MW310S-20180919", "Modified EPA 537", "Initial", "1803120-11", "Vista", "376-06-
7","PFTeDA","5.21","ng/L","UU","2.86","LOD","","TRG","","","8.35","LOQ","YES","-99","","0.120","0.001","5.21",
"BPSI-TT-MW310S-20180919", "Modified EPA 537", "Initial", "1803120-11", "Vista", "13C3-PFBA", "1
PFBA","96.5","%R","","-99","NA","","IS","96.5","","-99","NA","YES","100","","0.120","0.001","-99",""
"BPSI-TT-MW310S-20180919", "Modified EPA 537", "Initial", "1803120-11", "Vista", "13C3-PFPeA", "13C3-
PFPeA","86.8","%R","","-99","NA","","IS","86.8","","-99","NA","YES","100","","0.120","0.001","-99",""
"BPSI-TT-MW310S-20180919", "Modified EPA 537", "Initial", "1803120-11", "Vista", "13C3-PFBS", "1
PFBS","90.2","%R","","-99","NA","","IS","90.2","","-99","NA","YES","100","","0.120","0.001","-99",""
"BPSI-TT-MW310S-20180919", "Modified EPA 537", "Initial", "1803120-11", "Vista", "13C2-PFHxA", "13C2
PFHxA","92.7","%R","","-99","NA","","IS","92.7","","-99","NA","YES","100","","0.120","0.001","-99","" "BPSI-TT-MW310S-20180919","Modified EPA 537","Initial","1803120-11","Vista","13C4-PFHpA","13C4-
PFHpA","101","%R","","-99","NA","","IS","101","","-99","NA","YES","100","","0.120","0.001","-99",""
PFHxS","86.8","%R","","-99","NA","","IS","86.8","","-99","NA","YES","100","","0.120","0.001","-99",""
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"BPSI-TT-MW310S-20180919", "Modified EPA 537", "Initial", "1803120-11", "Vista", "13C2-6:2 FTS", "13C2-6:2
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"BPSI-TT-MW310S-20180919", "Modified EPA 537", "Initial", "1803120-11", "Vista", "13C5-PFNA", "1
PFNA","76.9","%R","","-99","NA","","IS","76.9","","-99","NA","YES","100","","0.120","0.001","-99",""
"BPSI-TT-MW310S-20180919", "Modified EPA 537", "Initial", "1803120-11", "Vista", "13C8-PFOSA", "13C8-PFOSA", "14.3", "%R", "H", "-99", "NA", "", "-99", "NA", "YES", "100", "", "0.120", "0.001", "-99", ""
"BPSI-TT-MW310S-20180919", "Modified EPA 537", "Initial", "1803120-11", "Vista", "13C8-PFOS", "1
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"BPSI-TT-MW310S-20180919", "Modified EPA 537", "Initial", "1803120-11", "Vista", "13C2-PFDA", "1
PFDA","65.7","%R","","-99","NA","","IS","65.7","","-99","NA","YES","100","","0.120","0.001","-99",""
 "BPSI-TT-MW310S-20180919", "Modified EPA 537", "Initial", "1803120-11", "Vista", "13C2-8:2 FTS", "13C2-8:2
FTS","89.6","%R","","-99","NA","","IS","89.6","","-99","NA","YES","100","","0.120","0.001","-99",""
"BPSI-TT-MW310S-20180919", "Modified EPA 537", "Initial", "1803120-11", "Vista", "d3-MeFOSAA", "d3-
MeFOSAA","69.1","%R","","-99","NA","","IS","69.1","","-99","NA","YES","100","","0.120","0.001","-99",""
 "BPSI-TT-MW310S-20180919", "Modified EPA 537", "Initial", "1803120-11", "Vista", "d5-EtFOSAA", "d5-
EtFOSAA","76.7","%R","","-99","NA","","IS","76.7","","-99","NA","YES","100","","0.120","0.001","-99",""
 "BPSI-TT-MW310S-20180919", "Modified EPA 537", "Initial", "1803120-11", "Vista", "13C2-PFUnA", "13C2
PFUnA","76.4","%R","","-99","NA","","IS","76.4","","-99","NA","YES","100","","0.120","0.001","-99",""
"BPSI-TT-MW310S-20180919", "Modified EPA 537", "Initial", "1803120-11", "Vista", "13C2-PFDoA", "13C2
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PFTeDA","105","%R","","-99","NA","","IS","105","","-99","NA","YES","100","","0.120","0.001","-99",""
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"BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "2706-90-
 3","PFPeA","13.8","ng/L","","2.89","LOD","","TRG","","","8.45","LOQ","YES","-99","","0.118","0.001","5.30",""
 "BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "375-73-
 5","PFBS","5.30","ng/L","UU","2.89","LOD","","TRG","","","8.45","LOQ","YES","-99","","0.118","0.001","5.30",""
 "BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "307-24-
4","PFHxA","13.3","ng/L","","2.89","LOD","","TRG","","","8.45","LOQ","YES","-99","","0.118","0.001","5.30","" "BPSI-TT-MW311S-20180919","Modified EPA 537","Initial","1803120-12","Vista","375-85-
 9","PFHpA","7.09","ng/L","J","2.89","LOD","","TRG","","","8.45","LOQ","YES","-99","","0.118","0.001","5.30",""
 "BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "355-46-
4","PFHxS","5.30","ng/L","UU","2.89","LOD","","TRG","","","8.45","LOQ","YES","-99","","0.118","0.001","5.30",""
 "BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "27619-97-2", "6:2
FTS","5.30","ng/L","UU","2.89","LOD","","TRG","","","8.45","LOQ","YES","-99","","0.118","0.001","5.30",""
"BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "335-67-
 1","PFOA","2.96","ng/L","J","2.89","LOD","","TRG","","","8.45","LOQ","YES","-99","","0.118","0.001","5.30",""
"BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "375-92-
 8","PFHpS","5.30","ng/L","UU","2.89","LOD","","TRG","","","8.45","LOQ","YES","-99","","0.118","0.001","5.30",""
"BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "375-95-
 1","PFNA","5.30","ng/L","UU","2.89","LOD","","TRG","","","8.45","LOQ","YES","-99","","0.118","0.001","5.30",""
 "BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "754-91-
 6","PFOSA","5.30","ng/L","UU","2.89","LOD","","TRG","","","8.45","LOQ","YES","-99","","0.118","0.001","5.30","
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 1","PFOS","5.30","ng/L","UU","2.89","LOD","","TRG","","","8.45","LOQ","YES","-99","","0.118","0.001","5.30",""
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 2","PFDA","5.30","ng/L","UU","2.89","LOD","","TRG","","","8.45","LOQ","YES","-99","","0.118","0.001","5.30",""
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 8","PFUnA","5.30","ng/L","UU","2.89","LOD","","TRG","","","8.45","LOQ","YES","-99","","0.118","0.001","5.30","
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 1","PFDoA","5.30","ng/L","UU","2.89","LOD","","TRG","","","8.45","LOQ","YES","-99","","0.118","0.001","5.30","
 "BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "72629-94-
8","PFTrDA","5.30","ng/L","UU","2.89","LOD","","TRG","","","8.45","LOQ","YES","-99","","0.118","0.001","5.30",
 "BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "376-06-
 7","PFTeDA","5.30","ng/L","UU","2.89","LOD","","TRG","","","8.45","LOQ","YES","-99","","0.118","0.001","5.30",
 "BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "13C3-PFBA", "1
PFBA","96.1","%R","","-99","NA","","IS","96.1","","-99","NA","YES","100","","0.118","0.001","-99",""
"BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "13C3-PFPeA", "13C3
PFPeA","90.7","%R","","-99","NA","","IS","90.7","","-99","NA","YES","100","","0.118","0.001","-99",""
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PFBS","88.0","%R","","-99","NA","","IS","88.0","","-99","NA","YES","100","","0.118","0.001","-99","" "BPSI-TT-MW311S-20180919","Modified EPA 537","Initial","1803120-12","Vista","13C2-PFHxA","13C2-
PFHxA","88.4","%R","","-99","NA","","IS","88.4","","-99","NA","YES","100","","0.118","0.001","-99",""
 "BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "13C4-PFHpA", "13C4
PFHpA","99.4","%R","","-99","NA","","IS","99.4","","-99","NA","YES","100","","0.118","0.001","-99",""
 "BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "1802-PFHxS", "1802-
PFHxS","89.7","%R","","-99","NA","","IS","89.7","","-99","NA","YES","100","","0.118","0.001","-99",""
"BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "13C2-6:2 FTS", "13C2-6:2
FTS","92.7","%R","","-99","NA","","IS","92.7","","-99","NA","YES","100","","0.118","0.001","-99",""
"BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "13C2-PFOA", "1
PFOA","89.9","%R","","-99","NA","","IS","89.9","","-99","NA","YES","100","","0.118","0.001","-99",""
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"BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "13C8-PFOS", "1
PFOS","94.9","%R","","-99","NA","","IS","94.9","","-99","NA","YES","100","","0.118","0.001","-99",""
"BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "13C2-PFDA", "1
PFDA","73.9","%R","","-99","NA","","IS","73.9","","-99","NA","YES","100","","0.118","0.001","-99","" "BPSI-TT-MW311S-20180919","Modified EPA 537","Initial","1803120-12","Vista","13C2-8:2 FTS","13C2-8:2
FTS","88.3","%R","","-99","NA","","IS","88.3","","-99","NA","YES","100","","0.118","0.001","-99",""
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 "BPSI-TT-MW311S-20180919", "Modified EPA 537", "Initial", "1803120-12", "Vista", "13C2-PFDoA", "13C2
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9","MeFOSAA","5.30","ng/L","UU","2.89","LOD","","TRG","","","8.45","LOQ","YES","-99","","0.118","0.001","5.3

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PFTeDA","111","%R","","-99","NA","","IS","111","","-99","NA","YES","100","","0.118","0.001","-99",""
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3","PFPeA","13.9","ng/L","","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
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4","PFHxA","14.6","ng/L","","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
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1","PFOA","12.2","ng/L","","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
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8","PFHpS","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
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1","PFOS","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
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2","PFDA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
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9","MeFOSAA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.3
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6","EtFOSAA","5.30","ng/L","ÚU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30
"BPSI-TT-MW311I-20180919", "Modified EPA 537", "Initial", "1803120-13", "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","
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3","PFDS","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",""
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1","PFDoA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30","
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8","PFTrDA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",
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7","PFTeDA","5.30","ng/L","UU","2.91","LOD","","TRG","","","8.49","LOQ","YES","-99","","0.118","0.001","5.30",
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EtFOSAA","72.2","%R","","-99","NA","","IS","72.2","","-99","NA","YES","100","","0.118","0.001","-99",""
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4","PFBA","9.79","ng/L","","2.92","LOD","","TRG","","","8.53","LOQ","YES","-99","","0.117","0.001","5.34",""
"BPSI-TT-MW314S-20180919", "Modified EPA 537", "Initial", "1803120-14", "Vista", "2706-90-
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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",""
"BPSI-TT-MW314S-20180919", "Modified EPA 537", "Initial", "1803120-14", "Vista", "307-24-
4","PFHxA","13.4","ng/L","","2.92","LOD","","TRG","","","8.53","LOQ","YES","-99","","0.117","0.001","5.34",""
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 9","PFHpA","37.4","ng/L","","2.92","LOD","","TRG","","","8.53","LOQ","YES","-99","","0.117","0.001","5.34",""
"BPSI-TT-MW314S-20180919", "Modified EPA 537", "Initial", "1803120-14", "Vista", "355-46-
4","PFHxS","5.34","ng/L","UU","2.92","LOD","","TRG","","","8.53","LOQ","YES","-99","","0.117","0.001","5.34",""
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"BB-TT-DUP06-20180920","Modified EPA 537","Initial","1803120-18","Vista","355-46-4","PFHxS","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.37","LOQ","YES","-99","","0.119","0.001","5.25",""
"BB-TT-DUP06-20180920", "Modified EPA 537", "Initial", "1803120-18", "Vista", "27619-97-2", "6:2
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1","PFOA","7.40","ng/L","J","2.87","LOD","","TRG","","","8.37","LOQ","YES","-99","","0.119","0.001","5.25",""
"BB-TT-DUP06-20180920", "Modified EPA 537", "Initial", "1803120-18", "Vista", "375-92-
8","PFHpS","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.37","LOQ","YES","-99","","0.119","0.001","5.25",""
"BB-TT-DUP06-20180920", "Modified EPA 537", "Initial", "1803120-18", "Vista", "375-95-
1","PFNA","3.75","ng/L","J","2.87","LOD","","TRG","","","8.37","LOQ","YES","-99","","0.119","0.001","5.25",""
"BB-TT-DUP06-20180920", "Modified EPA 537", "Initial", "1803120-18", "Vista", "754-91-
6","PFOSA","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.37","LOQ","YES","-99","","0.119","0.001","5.25","
"BB-TT-DUP06-20180920", "Modified EPA 537", "Initial", "1803120-18", "Vista", "1763-23-
1","PFOS","6.27","ng/L","J","2.87","LOD","","TRG","","","8.37","LOQ","YES","-99","","0.119","0.001","5.25",""
"BB-TT-DUP06-20180920", "Modified EPA 537", "Initial", "1803120-18", "Vista", "335-76-
2","PFDA","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.37","LOQ","YES","-99","","0.119","0.001","5.25",""
"BB-TT-DUP06-20180920", "Modified EPA 537", "Initial", "1803120-18", "Vista", "39108-34-4", "8:2
FTS","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.37","LOQ","YES","-99","","0.119","0.001","5.25",""
"BB-TT-DUP06-20180920", "Modified EPA 537", "Initial", "1803120-18", "Vista", "2355-31-
9","MeFOSAA","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.37","LOQ","YES","-99","","0.119","0.001","5.2
"BB-TT-DUP06-20180920", "Modified EPA 537", "Initial", "1803120-18", "Vista", "2991-50-
6","EtFOSAA","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.37","LOQ","YES","-99","","0.119","0.001","5.25
"BB-TT-DUP06-20180920", "Modified EPA 537", "Initial", "1803120-18", "Vista", "2058-94-
8","PFUnA","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.37","LOQ","YES","-99","","0.119","0.001","5.25","
"BB-TT-DUP06-20180920", "Modified EPA 537", "Initial", "1803120-18", "Vista", "335-77-
3","PFDS","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.37","LOQ","YES","-99","","0.119","0.001","5.25",""
"BB-TT-DUP06-20180920", "Modified EPA 537", "Initial", "1803120-18", "Vista", "307-55-
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"BB-TT-DUP06-20180920", "Modified EPA 537", "Initial", "1803120-18", "Vista", "72629-94-
8","PFTrDA","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.37","LOQ","YES","-99","","0.119","0.001","5.25",
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7","PFTeDA","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.37","LOQ","YES","-99","","0.119","0.001","5.25",
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PFBA","95.5","%R","","-99","NA","","IS","95.5","","-99","NA","YES","100","","0.119","0.001","-99",""
"BB-TT-DUP06-20180920", "Modified EPA 537", "Initial", "1803120-18", "Vista", "13C3-PFPeA", "13C3-PF
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 "BB-TT-DUP06-20180920", "Modified EPA 537", "Initial", "1803120-18", "Vista", "13C8-PFOS", "13C8-
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 "BB-TT-DUP06-20180920", "Modified EPA 537", "Initial", "1803120-18", "Vista", "13C2-PFDA", "13C2
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 "BB-TT-DUP06-20180920", "Modified EPA 537", "Initial", "1803120-18", "Vista", "13C2-8:2 FTS", "13C2-8:2
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EtFOSAA","56.4","%R","","-99","NA","","IS","56.4","","-99","NA","YES","100","","0.119","0.001","-99",""
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4","PFBA","4.06","ng/L","J","2.87","LOD","","TRG","","","8.39","LOQ","YES","-99","","0.119","0.001","5.25",""
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 3","PFPeA","9.74","ng/L","","2.87","LOD","","TRG","","","8.39","LOQ","YES","-99","","0.119","0.001","5.25",""
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 9","PFHpA","5.09","ng/L","J,
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 6","PFOSA","5.25","ng/L","UU","2.87","LOD","","TRG","","","8.39","LOQ","YES","-99","","0.119","0.001","5.25","
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5","PFBS","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-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","
"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-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","
"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-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",""
"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-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",""
"B8I0206-BLK1","Modified EPA 537","Initial","B8I0206-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",""
"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-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","" "B8I0206-BLK1","Modified EPA 537","Initial","B8I0206-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",""
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6","PFOSA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00","
"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-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",""
"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-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",""
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"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-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
"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-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
"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-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","
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3","PFDS","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",""
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"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-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",
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"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-BLK1", "Vista", "376-06-

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7","PFTeDA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",
 "B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-BLK1", "Vista", "13C3-PFBA", "13C3-
PFBA", "96.9", "\%R", "", "-99", "NA", "", "IS", "96.9", "", "-99", "NA", "YES", "100", "", "0.125", "0.001", "-99", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "100", "", "100", "100", "", "100", "100", "", "100", "100", "", "100", "100", "", "100", "100", "", "100", "100", "", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "1
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PFPeA","90.1","%R","","-99","NA","","IS","90.1","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-BLK1", "Vista", "13C3-PFBS", "13C3-PFBS"
PFBS","86.1","%R","","-99","NA","","IS","86.1","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-BLK1", "Vista", "13C2-PFHxA", 
PFHxA","93.9","%R","","-99","NA","","IS","93.9","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BLK1","Modified EPA 537","Initial","B8I0206-BLK1","Vista","13C4-PFHpA","13C4-
PFHpA","96.5","%R","","-99","NA","","IS","96.5","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-BLK1", "Vista", "18O2-PFHxS", "18O2-
PFHxS","103","%R","","-99","NA","","IS","103","","-99","NA","YES","100","","0.125","0.001","-99",""
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FTS","85.6","%R","","-99","NA","","IS","85.6","","-99","NA","YES","100","","0.125","0.001","-99",""
 "B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-BLK1", "Vista", "13C2-PFOA", "13C2-
PFOA","92.7","%R","","-99","NA","","IS","92.7","","-99","NA","YES","100","","0.125","0.001","-99",""
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"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-BLK1", "Vista", "13C8-PFOSA", "13C8-
PFOSA","9.30","%R","H","-99","NA","","IS","9.30","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-BLK1", "Vista", "13C8-PFOS", "13C8-
PFOS","85.2","%R","","-99","NA","","IS","85.2","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-BLK1", "Vista", "13C2-PFDA", "13C2-PFDA"
PFDA","72.4","%R","","-99","NA","","IS","72.4","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BLK1","Modified EPA 537","Initial","B8I0206-BLK1","Vista","13C2-8:2 FTS","13C2-8:2
FTS","81.6","%R","","-99","NA","","IS","81.6","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BLK1","Modified EPA 537","Initial","B8I0206-BLK1","Vista","d3-MeFOSAA","d3-
MeFOSAA","69.2","%R","","-99","NA","","IS","69.2","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-BLK1", "Vista", "d5-EtFOSAA", "d5-
EtFOSAA","72.3","%R","","-99","NA","","IS","72.3","","-99","NA","YES","100","","0.125","0.001","-99","" "B8I0206-BLK1","Modified EPA 537","Initial","B8I0206-BLK1","Vista","13C2-PFUnA","13C2-
PFUnA","68.8","%R","","-99","NA","","IS","68.8","","-99","NA","YES","100","","0.125","0.001","-99",""
 "B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-BLK1", "Vista", "13C2-PFDoA", "13C2-
PFDoA","79.6","%R","","-99","NA","","IS","79.6","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BLK1", "Modified EPA 537", "Initial", "B8I0206-BLK1", "Vista", "13C2-PFTeDA", "13C2-PFT
PFTeDA","82.9","%R","","-99","NA","","IS","82.9","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "375-22-
4","PFBA","69.4","ng/L","","2.74","LOD","","TRG","86.7","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
 "B8I0206-BS1","Modified EPA 537","Initial","B8I0206-BS1","Vista","2706-90-
3","PFPeA","72.6","ng/L","","2.74","LOD","","TRG","90.8","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "375-73-
5","PFBS","75.5","ng/L","","2.74","LOD","","TRG","94.4","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
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4","PFHxA","73.3","ng/L","","2.74","LOD","","TRG","91.6","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
 "B8I0206-BS1","Modified EPA 537","Initial","B8I0206-BS1","Vista","375-85-
9","PFHpA","72.9","ng/L","","2.74","LOD","","TRG","91.1","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
 "B8I0206-BS1","Modified EPA 537","Initial","B8I0206-BS1","Vista","355-46-
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4","PFHxS","75.9","ng/L","Q","2.74","LOD","","TRG","94.9","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00
11 1111
"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "27619-97-2", "6:2
FTS","74.2","ng/L","","2.74","LOD","","TRG","92.8","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",""
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1","PFOA","74.0","ng/L","","2.74","LOD","","TRG","92.5","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "375-92-
8","PFHpS","79.2","ng/L","","2.74","LOD","","TRG","99.0","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "375-95-
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6","PFOSA","72.1","ng/L","Q","2.74","LOD","","TRG","90.1","","8.00","LOQ","YES","80.0","","0.125","0.001","5.0
0",""
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2","PFDA","78.8","ng/L","","2.74","LOD","","TRG","98.5","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "39108-34-4", "8:2
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"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "2355-31-
9","MeFOSAA","75.6","ng/L","","2.74","LOD","","TRG","94.5","","8.00","LOQ","YES","80.0","","0.125","0.001","5.
00",""
"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "2991-50-
6","EtFOSAA","81.6","ng/L","","2.74","LOD","","TRG","102","","8.00","LOQ","YES","80.0","","0.125","0.001","5.0
0",""
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8","PFUnA","72.9","ng/L","","2.74","LOD","","TRG","91.1","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
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3","PFDS","75.6","ng/L","","2.74","LOD","","TRG","94.5","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
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"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "376-06-
7","PFTeDA","67.9","ng/L","","2.74","LOD","","TRG","84.8","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00
"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "13C3-PFBA", 
PFBA", "98.5", "\%R", "", "-99", "NA", "", "IS", "98.5", "", "-99", "NA", "YES", "100", "", "0.125", "0.001", "-99", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "", "100", "100", "", "100", "100", "", "100", "100", "", "100", "100", "", "100", "100", "", "100", "100", "", "100", "100", "", "100", "100", "", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100", "100"
"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "13C3-PFPeA", "13C3-
PFPeA","89.3","%R","","-99","NA","","IS","89.3","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BS1","Modified EPA 537","Initial","B8I0206-BS1","Vista","13C3-PFBS","13C3-
PFBS","89.0","%R","","-99","NA","","IS","89.0","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "13C2-PFHxA", "13C2-
PFHxA","93.8","%R","","-99","NA","","IS","93.8","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "13C4-PFHpA", "13C4-
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PFHxS","106","%R","","-99","NA","","IS","106","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "13C2-6:2 FTS", "13C2-6:2
FTS","94.6","%R","","-99","NA","","IS","94.6","","-99","NA","YES","100","","0.125","0.001","-99",""
 "B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "13C2-PFOA", "13C2-
PFOA","98.4","%R","","-99","NA","","IS","98.4","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "13C5-PFNA", 
PFNA","83.2","%R","","-99","NA","","IS","83.2","","-99","NA","YES","100","","0.125","0.001","-99",""
 "B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "13C8-PFOSA", "13C8-
PFOSA","17.6","%R","H","-99","NA","","IS","17.6","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "13C8-PFOS", "13C8-
PFOS","90.4","%R","","-99","NA","","IS","90.4","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "13C2-PFDA", 
PFDA","76.7","%R","","-99","NA","","IS","76.7","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BS1","Modified EPA 537","Initial","B8I0206-BS1","Vista","13C2-8:2 FTS","13C2-8:2
FTS", "89.0", "%R", "", "-99", "NA", "", "IS", "89.0", "", "-99", "NA", "YES", "100", "", "0.125", "0.001", "-99", ""
"B8I0206-BS1","Modified EPA 537","Initial","B8I0206-BS1","Vista","d3-MeFOSAA","d3-
MeFOSAA","72.1","%R","","-99","NA","","IS","72.1","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "d5-EtFOSAA", "d
EtFOSAA","74.4","%R","","-99","NA","","IS","74.4","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "13C2-PFUnA", "1
PFUnA","78.6","%R","","-99","NA","","IS","78.6","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "13C2-PFDoA", "1
PFDoA","76.9","%R","","-99","NA","","IS","76.9","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8I0206-BS1", "Modified EPA 537", "Initial", "B8I0206-BS1", "Vista", "13C2-PFTeDA", "13C2-PFTED
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"B8I0206-MS1", "Modified EPA 537", "Initial", "B8I0206-MS1", "Vista", "375-22-
4","PFBA","89.5","ng/L","","2.85","LOD","","TRG","89.8","","8.33","LOQ","YES","83.3","BPSI-TT-MW311I-
20180919","0.120","0.001","5.21",""
"B8I0206-MS1", "Modified EPA 537", "Initial", "B8I0206-MS1", "Vista", "2706-90-
3","PFPeA","94.5","ng/L","","2.85","LOD","","TRG","96.8","","8.33","LOQ","YES","83.3","BPSI-TT-MW311I-
20180919","0.120","0.001","5.21",""
"B8I0206-MS1", "Modified EPA 537", "Initial", "B8I0206-MS1", "Vista", "375-73-
5","PFBS","81.4","ng/L","","2.85","LOD","","TRG","96.6","","8.33","LOQ","YES","83.3","BPSI-TT-MW311I-
20180919","0.120","0.001","5.21",""
 "B8I0206-MS1", "Modified EPA 537", "Initial", "B8I0206-MS1", "Vista", "307-24-
4","PFHxA","94.9","ng/L","","2.85","LOD","","TRG","96.4","","8.33","LOQ","YES","83.3","BPSI-TT-MW311I-
20180919","0.120","0.001","5.21",""
 "B8I0206-MS1","Modified EPA 537","Initial","B8I0206-MS1","Vista","375-85-
9","PFHpA","85.1","ng/L","","2.85","LOD","","TRG","89.9","","8.33","LOQ","YES","83.3","BPSI-TT-MW311I-
20180919","0.120","0.001","5.21",""
"B8I0206-MS1", "Modified EPA 537", "Initial", "B8I0206-MS1", "Vista", "355-46-
4","PFHxS","90.9","ng/L","Q","2.85","LOD","","TRG","101","","8.33","LOQ","YES","83.3","BPSI-TT-MW311I-
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 "B8I0206-MS1", "Modified EPA 537", "Initial", "B8I0206-MS1", "Vista", "27619-97-2", "6:2
FTS","86.3","ng/L","","2.85","LOD","","TRG","104","","8.33","LOQ","YES","83.3","BPSI-TT-MW311I-20180919","0.120","0.001","5.21",""
"B8I0206-MS1", "Modified EPA 537", "Initial", "B8I0206-MS1", "Vista", "335-67-
1","PFOA","92.9","ng/L","","2.85","LOD","","TRG","96.9","","8.33","LOQ","YES","83.3","BPSI-TT-MW311I-
20180919","0.120","0.001","5.21",""
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8","PFHpS","85.3","ng/L","","2.85","LOD","","TRG","102","","8.33","LOQ","YES","83.3","BPSI-TT-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW311I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I-MW31I
20180919","0.120","0.001","5.21",""
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20180919","0.120","0.001","5.21",""
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6","PFOSA","71.7","ng/L","Q","2.85","LOD","","TRG","86.1","","8.33","LOQ","YES","83.3","BPSI-TT-MW311I-
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1","PFOS","88.1","ng/L","","2.85","LOD","","TRG","104","","8.33","LOQ","YES","83.3","BPSI-TT-MW311I-
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2","PFDA","78.1","ng/L","","2.85","LOD","","TRG","93.8","","8.33","LOQ","YES","83.3","BPSI-TT-MW311I-
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9","MeFOSAA","86.8","ng/L","","2.85","LOD","","TRG","104","","8.33","LOQ","YES","83.3","BPSI-TT-MW311I-
20180919","0.120","0.001","5.21",""
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6","EtFOSAA","90.5","ng/L","","2.85","LOD","","TRG","109","","8.33","LOQ","YES","83.3","BPSI-TT-MW311I-
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8","PFUnA","82.7","ng/L","","2.85","LOD","","TRG","99.2","","8.33","LOQ","YES","83.3","BPSI-TT-MW311I-
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3","PFDS","80.7","ng/L","","2.85","LOD","","TRG","96.9","","8.33","LOQ","YES","83.3","BPSI-TT-MW311I-
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20180919","0.120","0.001","5.21",""
"B8I0206-MS1", "Modified EPA 537", "Initial", "B8I0206-MS1", "Vista", "72629-94-
8","PFTrDA","81.4","ng/L","","2.85","LOD","","TRG","97.8","","8.33","LOQ","YES","83.3","BPSI-TT-MW311I-
20180919","0.120","0.001","5.21",""
"B8I0206-MS1", "Modified EPA 537", "Initial", "B8I0206-MS1", "Vista", "376-06-
7","PFTeDA","70.3","ng/L","","2.85","LOD","","TRG","84.4","","8.33","LOQ","YES","83.3","BPSI-TT-MW311I-
20180919","0.120","0.001","5.21",""
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20180919","0.120","0.001","-99",""
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20180919","0.120","0.001","-99",""
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20180919","0.120","0.001","-99",""
"B8I0206-MS1", "Modified EPA 537", "Initial", "B8I0206-MS1", "Vista", "13C4-PFHpA", "13C4-
PFHpA","103","%R","","-99","NA","","IS","103","","-99","NA","YES","100","BPSI-TT-MW311I-
20180919","0.120","0.001","-99",""
"B8I0206-MS1", "Modified EPA 537", "Initial", "B8I0206-MS1", "Vista", "18O2-PFHxS", "18O2-
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(770) 232-0130 (770) 232-5082 (Fax) www.datavalidator.com

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 12, 2019 DATA REVIEWER(S): Thomas B. Granat

SDG NUMBER: 1803120

SAMPLING DATE(S): September 18-20, 2018

SAMPLES:

Client Sample ID	<u>Laboratory ID</u>	<u>PFAS</u>
BPSI-TT-MW301S-20180918	1803120-01	X
BB-TT-DUP05-20180918	1803120-02	X
BP-HN-MW27I-20180918	1803120-03	X
BPSI-TT-MW301D-20180918	1803120-04	X
BPSI-TT-MW301I-20180918	1803120-05	X
BP-MH-SW4001-20180918	1803120-06	X
BP-TT-SW4004-20180918	1803120-07	X
BP-TT-SW4002-20180918	1803120-08	X
BPSI-TT-MW312I-20180918	1803120-09	X
BPSI-TT-MW312S-20180918	1803120-10	X
BPSI-TT-MW310S-20180919	1803120-11	X
BPSI-TT-MW311S-20180919	1803120-12	X
BPSI-TT-MW311I-20180919	1803120-13	X
BPSI-TT-MW314S-20180919	1803120-14	X
BPSI-TT-MW314D-20180919	1803120-15	X
BP-TT-EB03-20180919	1803120-16	X
BPSI-TT-MW313S-2018020	1803120-17	X
BB-TT-DUP06-20180920	1803120-18	X

Client Sample ID	<u>Laboratory ID</u>	<u>PFAS</u>
BPSI-TT-MW307D-2018020	1803120-19	X
BPSI-TT-MW311I-20180919	1803120-13MS	X
BPSI-TT-MW311I-20180919	1803120-13MSD	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: 1803120

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. Several sample COC IDs did not match sample Label IDs. The sample IDs were reported as listed on the COC. 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 equipment blank BP-TT-EB03-20180919. No data qualification was necessary.

Field Blanks:

There were no field blanks identified in this SDG. There were no detections in the associated field reagent blanks (analyzed in SDG 1803122). No data qualification was necessary.

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

MS / MSD analyses were performed on SDG sample BPSI-TT-MW311I-20180919. 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-MW311I-20180919. 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	<u>Duplicate Sample</u>	Analyte	<u>RPD</u>
BPSI-TT-MW301S-20180918	BB-TT-DUP05-20180918	PFBA	10.4
		PFPeA	7.7
		PFHxA	2.9
BPSI-TT-MW313S-2018020	BB-TT-DUP06-20180920	PFBA	0.0
		PFPeA	0.2
		PFHxA	0.7
		PFHpA	1.6
		PFOA	7.5
		PFNA	3.1
		PFOS	83

The RPDs were within the $\leq 30\%$ QC limit for water sample. 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	<u>Lab ID</u>	<u>Analyte</u>	ISTD %R	Qualifier	Code
BPSI-TT-MW301S-20180918	1803120-01	PFOSA	15.4	UJ	N
BB-TT-DUP05-20180918	1803120-02	PFOSA	11.5	UJ	N
BP-HN-MW27I-20180918	1803120-03	PFOSA	10.6	UJ	N
BPSI-TT-MW301D-20180918	1803120-04	PFOSA	15.9	UJ	N
BPSI-TT-MW301I-20180918	1803120-05	PFOSA	10.0	UJ	N
BP-MH-SW4001-20180918	1803120-06	PFOSA	10.4	UJ	N
BP-TT-SW4004-20180918	1803120-07	PFOSA	43.9	UJ	N
BP-TT-SW4002-20180918	1803120-08	PFOSA	17.7	UJ	N
BPSI-TT-MW312I-20180918	1803120-09	PFOSA	9.20	UJ	N
BPSI-TT-MW312S-20180918	1803120-10	PFOSA	12.9	UJ	N
BPSI-TT-MW310S-20180919	1803120-11	PFOSA	14.3	UJ	N
BPSI-TT-MW311S-20180919	1803120-12	PFOSA	11.2	UJ	N
BPSI-TT-MW311I-20180919	1803120-13	PFOSA	15.8	UJ	N
BPSI-TT-MW314S-20180919	1803120-14	PFOSA	27.7	UJ	N
BPSI-TT-MW314D-20180919	1803120-15	PFOSA	12.0	UJ	N
BP-TT-EB03-20180919	1803120-16	PFOSA	14.8	UJ	N
BPSI-TT-MW313S-2018020	1803120-17	PFOSA	11.9	UJ	N
BB-TT-DUP06-20180920	1803120-18	PFOSA	10.3	UJ	N
BPSI-TT-MW307D-2018020	1803120-19	PFOSA	10.2	UJ	N

The above associated analyte results 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	<u>Lab ID</u>	Analyte	Qualifier	Code
BP-HN-MW27I-20180918	1813120-03	PFHpA	J	Q
		PFUnA	J	Q
BPSI-TT-MW301I-20180918	1813120-05	PFHpA	J	Q
BP-MH-SW4001-20180918	1813120-06	PFHxS	J	Q
BPSI-TT-MW307D-2018020	1813120-19	PFHpA	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_RES	VAL_QUAL	VAL_REASON_CODE
BP-HN-MW27I-20180918	9/18/2018 0:00	1803120-03	PFHPA	3.24	J, Q	3.24	J	Q
BP-HN-MW27I-20180918	9/18/2018 0:00	1803120-03	PFOSA	5.48	UU	5.48	UJ	N
BP-HN-MW27I-20180918	9/18/2018 0:00	1803120-03	PFUNA	3.26	J, Q	3.26	J	Q
BP-MH-SW4001-20180918	9/18/2018 0:00	1803120-06	PFHXS	4.62	J, Q	4.62	J	Q
BP-MH-SW4001-20180918	9/18/2018 0:00	1803120-06	PFOSA	5.25	UU	5.25	UJ	N
BPS1-TT-MW301D-20180918	9/18/2018 0:00	1803120-04	PFOSA	5.25	UU	5.25	UJ	N
BPS1-TT-MW301I-20180918	9/18/2018 0:00	1803120-05	PFHPA	2.98	J, Q	2.98	J	Q
BPS1-TT-MW301I-20180918	9/18/2018 0:00	1803120-05	PFOSA	5.3	UU	5.3	UJ	N
BPS1-TT-MW301S-20180918	9/18/2018 0:00	1803120-01	PFOSA	5.53	UU	5.53	UJ	N
BPS1-TT-MW307D-2018020	9/20/2018 0:00	1803120-19	PFHPA	5.09	J, Q	5.09	J	Q
BPS1-TT-MW307D-2018020	9/20/2018 0:00	1803120-19	PFOS	7.15	J, Q	7.15	J	Q
BPS1-TT-MW307D-2018020	9/20/2018 0:00	1803120-19	PFOSA	5.25	UU	5.25	UJ	N
BPS1-TT-MW310S-20180919	9/19/2018 0:00	1803120-11	PFOSA	5.21	UU	5.21	UJ	N
BPS1-TT-MW311I-20180919	9/19/2018 0:00	1803120-13	PFOSA	5.3	UU	5.3	UJ	N
BPS1-TT-MW311S-20180919	9/19/2018 0:00	1803120-12	PFOSA	5.3	UU	5.3	UJ	N
BPS1-TT-MW312I-20180918	9/18/2018 0:00	1803120-09	PFOSA	5.25	UU	5.25	UJ	N
BPS1-TT-MW312S-20180918	9/18/2018 0:00	1803120-10	PFOSA	5.43	UU	5.43	UJ	N
BPS1-TT-MW313S-20180920	9/20/2018 0:00	1803120-17	PFOSA	5.43	UU	5.43	UJ	N
BPS1-TT-MW314D-20180919	9/19/2018 0:00	1803120-15	PFOSA	5.25	UU	5.25	UJ	N
BPS1-TT-MW314S-20180919	9/19/2018 0:00	1803120-14	PFOSA	5.34	UU	5.34	UJ	N
BP-TT-DUP05-20180918	9/18/2018 0:00	1803120-02	PFOSA	5.25	UU	5.25	UJ	N
BP-TT-DUP06-20180920	9/20/2018 0:00	1803120-18	PFOSA	5.25	UU	5.25	UJ	N
BP-TT-EB03-20180919	9/19/2018 0:00	1803120-16	PFOSA	5.25	UU	5.25	UJ	N
BP-TT-SW4002-20180918	9/18/2018 0:00	1803120-08	PFOSA	5.34	UU	5.34	UJ	N
BP-TT-SW4004-20180918	9/18/2018 0:00	1803120-07	PFOSA	5.39	UU	5.39	UJ	N

Appendix B

Laboratory Sample Results



Sample ID: BPSI-TT-MW301S-20180918 PFAS Isotope Dilution Method Client Data Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-01 Column: BEH C18 Project: Date Collected: Bethpage 18-Sep-18 10:45 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ Batch Extracted Samp Size **CAS Number Qualifiers** Dilution **Analyzed** Analyte **PFBA** 375-22-4 4.12 3.04 5.53 8.89 B8I0206 01-Oct-18 07-Oct-18 14:16 0.113 L **PFPeA** 2706-90-3 4.16 3.04 5.53 8.89 J B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 **PFBS** 5.53 U 375-73-5 ND 3.04 8.89 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 307-24-4 3.74 5.53 **PFHxA** 3.04 8.89 J B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 5.53 U **PFHpA** 375-85-9 ND 3.04 8.89 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 **PFHxS** 355-46-4 ND 3.04 5.53 8.89 U B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 5.53 U 6:2 FTS 27619-97-2 ND 3.04 8.89 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 **PFOA** 335-67-1 5.53 U ND 3.04 8.89 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 375-92-8 3.04 5.53 8.89 U **PFHpS** ND B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 PFNA 375-95-1 ND 3.04 5.53 8.89 U B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 **PFOSA** 754-91-6 ND 3.04 5.53 8.89 U B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 **PFOS** 1763-23-1 ND 3.04 5.53 8.89 U B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 **PFDA** 335-76-2 ND 3.04 5.53 8.89 U B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 8:2 FTS 39108-34-4 ND 3.04 5.53 8.89 U B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 MeFOSAA 2355-31-9 ND 3.04 5.53 8.89 U B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 U **EtFOSAA** 2991-50-6 ND 3.04 5.53 8.89 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 ND 5.53 U **PFUnA** 2058-94-8 3.04 8.89 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 U **PFDS** 335-77-3 ND 3.04 5.53 8.89 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 3.04 5.53 8.89 U 01-Oct-18 **PFDoA** 307-55-1 ND B8I0206 0.113 L 07-Oct-18 14:16 **PFTrDA** 72629-94-8 ND 3.04 5.53 8.89 U B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 U **PFTeDA** 376-06-7 ND 3.04 5.53 8.89 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 98.7 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 1 13C3-PFPeA IS 90.0 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 13C3-PFBS IS 96.8 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 1 IS 91.5 50 - 150 B8I0206 13C2-PFHxA 01-Oct-18 0.113 L 07-Oct-18 14:16 IS 104 13C4-PFHpA 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 IS 109 18O2-PFHxS 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 IS 50 - 150 13C2-6:2 FTS 96.4 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 IS 13C2-PFOA 95.0 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 IS 13C5-PFNA 85.9 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 IS 13C8-PFOSA 15.4 50 - 150 Η B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 IS 13C8-PFOS 98.4 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 1 13C2-PFDA IS 75.7 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 13C2-8:2 FTS IS 91.5 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 1 d3-MeFOSAA IS 70.1 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 d5-EtFOSAA IS 79.2 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 1 13C2-PFUnA IS 81.2 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16

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Sample ID: BPSI-TT-MW301S-20180918 PFAS Isotope Dilution Method

Client Data Laboratory Data

Tetra Tech Matrix: Lab Sample: Name: Groundwater 1803120-01 Column: BEH C18

Date Collected: 18-Sep-18 10:45 Project: Bethpage Date Received: 21-Sep-18 09:09

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFDoA	IS	85.3	50 - 150		B8I0206	01-Oct-18	0.113 L	07-Oct-18 14:16	1
13C2-PFTeDA	IS	95.1	50 - 150		B8I0206	01-Oct-18	0.113 L	07-Oct-18 14:16	1

DL - Detection Limit

LOD - Limit of Detection

Results reported to the DL. LOQ - Limit of quantitation

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

analytes.

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BEH C18

Column:

Sample ID: BB-TT-DUP05-20180918 PFAS Isotope Dilution Method

Laboratory Data

Name: Tetra Tech

Client Data

Matrix: Lab Sample: QC Water 1803120-02

Project: Bethpage Date Collected: 18-Sep-18 12:00 Date Received: 21-Sep-18 09:09

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	4.57	2.88	5.25	8.42	J	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	5 1
PFPeA	2706-90-3	3.85	2.88	5.25	8.42	J	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	5 1
PFBS	375-73-5	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	, 1
PFHxA	307-24-4	3.85	2.88	5.25	8.42	J	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26) 1
PFHpA	375-85-9	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	, 1
PFHxS	355-46-4	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26) 1
6:2 FTS	27619-97-2	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	1
PFOA	335-67-1	3.32	2.88	5.25	8.42	J	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	j 1
PFHpS	375-92-8	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	1
PFNA	375-95-1	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26) 1
PFOSA	754-91-6	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	1
PFOS	1763-23-1	2.91	2.88	5.25	8.42	J	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	5 1
PFDA	335-76-2	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	1
8:2 FTS	39108-34-4	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	j 1
MeFOSAA	2355-31-9	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	1
EtFOSAA	2991-50-6	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	5 1
PFUnA	2058-94-8	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	, 1
PFDS	335-77-3	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	5 1
PFDoA	307-55-1	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	1
PFTrDA	72629-94-8	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	5 1
PFTeDA	376-06-7	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	1
Labeled Standards	Type	% Recovery		Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	96.9	50 - 150		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	, 1
13C3-PFPeA	IS	89.0	50 - 150		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	1
13C3-PFBS	IS	89.9	50 - 150		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	1
13C2-PFHxA	IS	97.1	50 - 150		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	, 1
13C4-PFHpA	IS	105	50 - 150		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	1
18O2-PFHxS	IS	96.8	50 - 150		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	, 1
13C2-6:2 FTS	IS	93.5	50 - 150		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	1
13C2-PFOA	IS	91.3	50 - 150		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	1
13C5-PFNA	IS	73.2	50 - 150		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	5 1
13C8-PFOSA	IS	11.5	50 - 150	Н	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	1
13C8-PFOS	IS	93.7	50 - 150		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	1
13C2-PFDA	IS	63.9	50 - 150		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	, 1
13C2-8:2 FTS	IS	87.2	50 - 150		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	1
d3-MeFOSAA	IS	64.7	50 - 150		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	, 1
d5-EtFOSAA	IS	70.9	50 - 150		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26) 1
13C2-PFUnA	IS	67.5	50 - 150		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:26	1
1									

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Sample ID: BB-TT-DUP05-20180918 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: QC Water Lab Sample: 1803120-02 Column: BEH C18

Project: Bethpage Date Collected: 18-Sep-18 12:00 Date Received: 21-Sep-18 09:09

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 78.4 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 13C2-PFTeDA IS 87.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26

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.

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Sample ID: BP-HN-MW27I-	20180918								PFAS Iso	tope Dilution I	Method
Client Data Name: Tetra Tech Project: Bethpage		Matrix: Date Colle		ndwater ep-18 08:55	Lab S	oratory Data Sample: Received:	1803120-03 21-Sep-18 09:09		Column:	ВЕН С18	
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	4.85	2.99	5.48	8.74	J	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFPeA	2706-90-3	5.31	2.99	5.48	8.74	J	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	
PFBS	375-73-5	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	
PFHxA	307-24-4	4.68	2.99	5.48	8.74	J	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	
PFHpA	375-85-9	3.24	2.99	5.48	8.74	J, Q	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	
PFHxS	355-46-4	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	
6:2 FTS	27619-97-2	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	
PFOA	335-67-1	4.09	2.99	5.48	8.74	J	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	
PFHpS	375-92-8	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	
PFNA	375-95-1	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	
PFOSA	754-91-6	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	
PFOS	1763-23-1	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	
PFDA	335-76-2	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	
3:2 FTS	39108-34-4	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
MeFOSAA	2355-31-9	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
EtFOSAA	2991-50-6	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	
PFUnA	2058-94-8	3.26	2.99	5.48	8.74	J, Q	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFDS	335-77-3	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	
PFDoA	307-55-1	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFTrDA	72629-94-8	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFTeDA	376-06-7	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
Labeled Standards	Type	% Recovery		Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	97.1		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C3-PFPeA	IS	86.2		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C3-PFBS	IS	94.0		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C2-PFHxA	IS	93.5		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C4-PFHpA	IS	105		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
18O2-PFHxS	IS	100		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C2-6:2 FTS	IS	93.8		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C2-PFOA	IS	91.9		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C5-PFNA	IS	75.2		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C8-PFOSA	IS	10.6		50 - 150		Н	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C8-PFOS	IS	93.6		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C2-PFDA	IS	67.9		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C2-8:2 FTS	IS	89.5		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
d3-MeFOSAA	IS	65.9		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
d5-EtFOSAA	IS	71.1		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C2-PFUnA	IS	73.4		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1

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Sample ID: BP-HN-MW27I-20180918 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-03 Column: BEH C18

Project: Bethpage Date Collected: 18-Sep-18 08:55 Date Received: 21-Sep-18 09:09

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 83.9 50 - 150 B8I0206 01-Oct-18 0.114 L 07-Oct-18 14:37 13C2-PFTeDA IS 92.5 50 - 150 B8I0206 01-Oct-18 0.114 L 07-Oct-18 14:37

DL - Detection Limit LOD - Limit of Detection Results reported to the DL.

LOQ - Limit of quantitation

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

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Sample ID: BPSI-TT-MW301D-20180918 PFAS Isotope Dilution Method Client Data Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-04 Column: BEH C18 Project: Date Collected: Bethpage 18-Sep-18 12:10 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ Batch Extracted Samp Size **CAS Number Qualifiers** Dilution **Analyzed** Analyte **PFBA** 375-22-4 13.3 2.88 5.25 8.42 B8I0206 01-Oct-18 07-Oct-18 14:48 0.119 L **PFPeA** 2706-90-3 36.6 2.88 5.25 8.42 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 **PFBS** 8.42 375-73-5 ND 2.88 5.25 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 307-24-4 25.3 5.25 8.42 **PFHxA** 2.88 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 5.25 8.42 **PFHpA** 375-85-9 15.3 2.88 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 **PFHxS** 355-46-4 3.91 2.88 5.25 8.42 J B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 U 6:2 FTS 27619-97-2 ND 2.88 5.25 8.42 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 **PFOA** 335-67-1 13.9 2.88 5.25 8.42 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 375-92-8 ND 2.88 5.25 8.42 U B8I0206 **PFHpS** 01-Oct-18 0.119 L 07-Oct-18 14:48 PFNA 375-95-1 7.92 2.88 5.25 8.42 J B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 1 **PFOSA** 754-91-6 ND 2.88 5.25 8.42 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 **PFOS** 1763-23-1 10.1 2.88 5.25 8.42 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 **PFDA** 335-76-2 ND 2.88 5.25 8.42 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 8:2 FTS 39108-34-4 ND 2.88 5.25 8.42 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 MeFOSAA 2355-31-9 ND 2.88 5.25 8.42 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 **EtFOSAA** 2991-50-6 ND 2.88 5.25 8.42 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 ND 2.88 5.25 8.42 U **PFUnA** 2058-94-8 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 U **PFDS** 335-77-3 ND 2.88 5.25 8.42 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 2.88 8.42 U 01-Oct-18 **PFDoA** 307-55-1 ND 5.25 B8I0206 0.119 L 07-Oct-18 14:48 **PFTrDA** 72629-94-8 ND 2.88 5.25 8.42 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 U **PFTeDA** 376-06-7 ND 2.88 5.25 8.42 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 94.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 1 13C3-PFPeA IS 88.0 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 13C3-PFBS IS 90.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 1 IS 90.4 50 - 150 B8I0206 13C2-PFHxA 01-Oct-18 0.119 L 07-Oct-18 14:48 IS 102 13C4-PFHpA 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 IS 98.4 18O2-PFHxS 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 IS 92.5 50 - 150 13C2-6:2 FTS B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 IS 87.0 13C2-PFOA 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 IS 13C5-PFNA 78.4 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48

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13C8-PFOS

13C2-PFDA

13C2-8:2 FTS

d3-MeFOSAA

d5-EtFOSAA

13C2-PFUnA



Sample ID: BPSI-TT-MW301D-20180918 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-04 Column: BEH C18

Project: Bethpage Date Collected: 18-Sep-18 12:10 Date Received: 21-Sep-18 09:09

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 87.5 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48 13C2-PFTeDA IS 95.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:48

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.

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Sample ID: BPSI-TT-MW301I-20180918 PFAS Isotope Dilution Method Client Data Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-05 Column: BEH C18 Project: Date Collected: Bethpage 18-Sep-18 10:40 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ Batch Extracted Samp Size **CAS Number Qualifiers** Dilution **Analyzed** Analyte **PFBA** 375-22-4 3.69 2.91 5.30 8.50 B8I0206 01-Oct-18 07-Oct-18 14:58 0.118 L **PFPeA** 2706-90-3 3.65 2.91 5.30 8.50 J B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 **PFBS** 5.30 U 375-73-5 ND 2.91 8.50 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 307-24-4 3.80 5.30 **PFHxA** 2.91 8.50 J B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 5.30 **PFHpA** 375-85-9 2.98 2.91 8.50 J, O B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 **PFHxS** 355-46-4 ND 2.91 5.30 8.50 U B8I0206 01-Oct-18 0.118 L07-Oct-18 14:58 U 6:2 FTS 27619-97-2 ND 2.91 5.30 8.50 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 **PFOA** 335-67-1 U ND 2.91 5.30 8.50 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 375-92-8 2.91 5.30 8.50 U **PFHpS** ND B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 PFNA 375-95-1 ND 5.30 8.50 U B8I0206 01-Oct-18 0.118 L 2.91 07-Oct-18 14:58 1 **PFOSA** 754-91-6 ND 2.91 5.30 8.50 U B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 **PFOS** 1763-23-1 ND 5.30 8.50 U B8I0206 01-Oct-18 0.118 L 2.91 07-Oct-18 14:58 **PFDA** 335-76-2 ND 2.91 5.30 8.50 U B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 8:2 FTS 39108-34-4 ND 2.91 5.30 8.50 U B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 MeFOSAA 2355-31-9 ND 2.91 5.30 8.50 U B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 U **EtFOSAA** 2991-50-6 ND 2.91 5.30 8.50 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 ND 2.91 5.30 U **PFUnA** 2058-94-8 8.50 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 U **PFDS** 335-77-3 ND 2.91 5.30 8.50 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 2.91 8.50 U **PFDoA** 307-55-1 ND 5.30 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 0.118 L **PFTrDA** 72629-94-8 ND 2.91 5.30 8.50 U B8I0206 01-Oct-18 07-Oct-18 14:58 U **PFTeDA** 376-06-7 ND 2.91 5.30 8.50 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 97.1 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 1 13C3-PFPeA IS 88.8 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 13C3-PFBS IS 90.2 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 1 IS 94.0 50 - 150 B8I0206 13C2-PFHxA 01-Oct-18 0.118 L 07-Oct-18 14:58 IS 107 13C4-PFHpA 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 IS 18O2-PFHxS 98.2 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 IS 93.9 50 - 150 13C2-6:2 FTS B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 IS 13C2-PFOA 89.1 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 IS 13C5-PFNA 74.0 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 13C8-PFOSA IS 10.0 50 - 150 Η B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 IS 13C8-PFOS 94.0 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 1 13C2-PFDA IS 60.6 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 13C2-8:2 FTS IS 90.6 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 1 d3-MeFOSAA IS 59.4 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 d5-EtFOSAA IS 64.3 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 1 13C2-PFUnA IS 66.5 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58

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Sample ID: BPSI-TT-MW301I-20180918 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-05 Column: BEH C18

Project: Bethpage Date Collected: 18-Sep-18 10:40 Date Received: 21-Sep-18 09:09

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 73.3 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58 13C2-PFTeDA IS 90.0 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 14:58

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.

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Sample ID: BP-MH-SW4001-20180918 **PFAS Isotope Dilution Method Client Data** Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-06 Column: BEH C18 Project: Date Collected: Bethpage 18-Sep-18 12:15 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ Batch Extracted Samp Size **CAS Number Qualifiers** Dilution **Analyzed** Analyte **PFBA** 375-22-4 14.4 2.87 5.25 8.38 B8I0206 01-Oct-18 07-Oct-18 15:09 0.119 L **PFPeA** 2706-90-3 34.8 2.87 5.25 8.38 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 **PFBS** 5.25 375-73-5 ND 2.87 8.38 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 307-24-4 2.87 5.25 **PFHxA** 24.4 8.38 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 5.25 **PFHpA** 375-85-9 14.7 2.87 8.38 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 J, O **PFHxS** 355-46-4 4.62 2.87 5.25 8.38 B8I0206 01-Oct-18 0.119 L07-Oct-18 15:09 9.64 6:2 FTS 27619-97-2 2.87 5.25 8.38 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 **PFOA** 335-67-1 17.0 2.87 5.25 8.38 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 1 375-92-8 2.87 5.25 8.38 U B8I0206 **PFHpS** ND 01-Oct-18 0.119 L 07-Oct-18 15:09 PFNA 375-95-1 6.97 2.87 5.25 8.38 J B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 1 **PFOSA** 754-91-6 ND 2.87 5.25 8.38 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 **PFOS** 1763-23-1 2.87 5.25 8.38 B8I0206 01-Oct-18 0.119 L 11.1 07-Oct-18 15:09 **PFDA** 335-76-2 ND 2.87 5.25 8.38 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 8:2 FTS 39108-34-4 4.88 2.87 5.25 8.38 B8I0206 01-Oct-18 0.119 L J 07-Oct-18 15:09 MeFOSAA 2355-31-9 ND 2.87 5.25 8.38 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 U **EtFOSAA** 2991-50-6 ND 2.87 5.25 8.38 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 ND 2.87 5.25 8.38 U **PFUnA** 2058-94-8 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 U **PFDS** 335-77-3 ND 2.87 5.25 8.38 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 2.87 8.38 U 01-Oct-18 **PFDoA** 307-55-1 ND 5.25 B8I0206 0.119 L 07-Oct-18 15:09 **PFTrDA** 72629-94-8 ND 2.87 5.25 8.38 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 U **PFTeDA** 376-06-7 ND 2.87 5.25 8.38 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 95.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 1 13C3-PFPeA IS 86.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 13C3-PFBS IS 88.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 1 IS 90.5 50 - 150 B8I0206 13C2-PFHxA 01-Oct-18 0.119 L 07-Oct-18 15:09 IS 98.8 13C4-PFHpA 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 IS 18O2-PFHxS 99.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 IS 91.9 50 - 150 13C2-6:2 FTS B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 IS 13C2-PFOA 90.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09

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13C5-PFNA

13C8-PFOSA

13C8-PFOS

13C2-PFDA

13C2-8:2 FTS

d3-MeFOSAA

d5-EtFOSAA

13C2-PFUnA



Sample ID: BP-MH-SW4001-20180918 **PFAS Isotope Dilution Method**

Client Data Laboratory Data

Lab Sample: Name: Tetra Tech Matrix: Groundwater 1803120-06 Column: BEH C18

Project: Bethpage Date Collected: 18-Sep-18 12:15 Date Received: 21-Sep-18 09:09

% Recovery Limits Samp Size **Labeled Standards** Type Qualifiers **Batch** Extracted Analyzed Dilution IS 13C2-PFDoA 84.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09 13C2-PFTeDA IS 99.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:09

DL - Detection Limit LOD - Limit of Detection Results reported to the DL.

LOQ - Limit of quantitation

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

analytes.

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Sample ID: BP-TT-SW4004-20180918 **PFAS Isotope Dilution Method Client Data** Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-07 Column: BEH C18 Project: Date Collected: Bethpage 18-Sep-18 12:50 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ Batch Extracted Samp Size **CAS Number Qualifiers Analyzed** Dilution Analyte U **PFBA** 375-22-4 ND 2.96 5.39 8.64 B8I0206 01-Oct-18 07-Oct-18 15:19 0.116 L **PFPeA** 2706-90-3 ND 2.96 5.39 8.64 U B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 **PFBS** 5.39 U 375-73-5 ND 2.96 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 307-24-4 5.39 0.116 L **PFHxA** 5.44 2.96 8.64 J B8I0206 01-Oct-18 07-Oct-18 15:19 5.39 U **PFHpA** 375-85-9 ND 2.96 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 U **PFHxS** 355-46-4 ND 2.96 5.39 8.64 B8I0206 01-Oct-18 0.116 L07-Oct-18 15:19 5.39 U 6:2 FTS 27619-97-2 ND 2.96 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 **PFOA** U 335-67-1 ND 2.96 5.39 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 375-92-8 5.39 U **PFHpS** ND 2.96 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 PFNA 375-95-1 ND 2.96 5.39 8.64 U B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 1 **PFOSA** 754-91-6 ND 2.96 5.39 8.64 U B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 **PFOS** 1763-23-1 ND 5.39 8.64 U B8I0206 01-Oct-18 0.116 L 2.96 07-Oct-18 15:19 **PFDA** 335-76-2 ND 2.96 5.39 8.64 U B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 8:2 FTS 39108-34-4 ND 5.39 8.64 U B8I0206 01-Oct-18 0.116 L 2.96 07-Oct-18 15:19 MeFOSAA 2355-31-9 ND 2.96 5.39 8.64 U B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 U **EtFOSAA** 2991-50-6 ND 2.96 5.39 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 ND 5.39 U **PFUnA** 2058-94-8 2.96 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 U **PFDS** 335-77-3 ND 2.96 5.39 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 2.96 U **PFDoA** 307-55-1 ND 5.39 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 **PFTrDA** 72629-94-8 ND 2.96 5.39 8.64 U B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 U **PFTeDA** 376-06-7 ND 2.96 5.39 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 94.4 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 1 13C3-PFPeA IS 90.5 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 13C3-PFBS IS 86.1 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 1 IS 90.1 50 - 150 B8I0206 13C2-PFHxA 01-Oct-18 0.116 L 07-Oct-18 15:19 IS 100 13C4-PFHpA 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 IS 92.3 18O2-PFHxS 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 IS 95.0 50 - 150 13C2-6:2 FTS B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 IS 13C2-PFOA 90.8 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 IS 13C5-PFNA 87.6 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 13C8-PFOSA IS 43.9 50 - 150 Η B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 IS 13C8-PFOS 103 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 1 13C2-PFDA IS 72.0 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 13C2-8:2 FTS IS 94.1 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 1 d3-MeFOSAA IS 68.6 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 d5-EtFOSAA IS 76.2 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 1 13C2-PFUnA IS 80.4 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19

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Sample ID: BP-TT-SW4004-20180918 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-07 Column: BEH C18

Project: Bethpage Date Collected: 18-Sep-18 12:50 Date Received: 21-Sep-18 09:09

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 80.6 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 13C2-PFTeDA IS 50 - 150

analytes.

3C2-PFTeDA IS 102 50 - 150 B810206 01-Oct-18 0.116 L 07-Oct-18 15:19

DL - Detection Limit LOD - Limit of Detection Results reported to the DL. LOQ - Limit of quantitation LOQ - Limit of quantitation Results reported to the DL.

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Sample ID: BP-TT-SW4002-20180918 **PFAS Isotope Dilution Method Client Data** Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-08 Column: BEH C18 Project: Date Collected: Bethpage 18-Sep-18 13:20 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ Batch Extracted Samp Size **CAS Number Qualifiers** Dilution **Analyzed** Analyte **PFBA** 375-22-4 12.0 2.94 5.34 8.58 B8I0206 01-Oct-18 07-Oct-18 15:30 0.117 L **PFPeA** 2706-90-3 14.9 2.94 5.34 8.58 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 **PFBS** 5.34 375-73-5 ND 2.94 8.58 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 307-24-4 2.94 5.34 8.58 **PFHxA** 16.2 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 9.37 5.34 **PFHpA** 375-85-9 2.94 8.58 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 8.58 U **PFHxS** 355-46-4 ND 2.94 5.34 B8I0206 01-Oct-18 0.117 L07-Oct-18 15:30 5.34 6:2 FTS 27619-97-2 5.02 2.94 8.58 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 **PFOA** 335-67-1 5.34 11.2 2.94 8.58 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 375-92-8 ND 2.94 5.34 8.58 U B8I0206 **PFHpS** 01-Oct-18 0.117 L 07-Oct-18 15:30 PFNA 375-95-1 4.71 2.94 5.34 8.58 J B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 1 **PFOSA** 754-91-6 ND 2.94 5.34 8.58 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 **PFOS** 1763-23-1 8.40 5.34 8.58 B8I0206 01-Oct-18 0.117 L 2.94 J 07-Oct-18 15:30 **PFDA** 335-76-2 ND 2.94 5.34 8.58 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 8:2 FTS 39108-34-4 5.52 2.94 5.34 8.58 B8I0206 01-Oct-18 0.117 L J 07-Oct-18 15:30 MeFOSAA 2355-31-9 ND 2.94 5.34 8.58 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 U **EtFOSAA** 2991-50-6 ND 2.94 5.34 8.58 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 ND 2.94 5.34 8.58 U **PFUnA** 2058-94-8 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 U **PFDS** 335-77-3 ND 2.94 5.34 8.58 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 ND 2.94 5.34 8.58 U 01-Oct-18 **PFDoA** 307-55-1 B8I0206 0.117 L 07-Oct-18 15:30 **PFTrDA** 72629-94-8 ND 2.94 5.34 8.58 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 U **PFTeDA** 376-06-7 ND 2.94 5.34 8.58 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 94.4 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 1 13C3-PFPeA IS 91.6 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 13C3-PFBS IS 86.6 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 1 IS 94.0 50 - 150 B8I0206 13C2-PFHxA 01-Oct-18 0.117 L 07-Oct-18 15:30 IS 106 13C4-PFHpA 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 IS 90.7 18O2-PFHxS 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 IS 89.8 50 - 150 13C2-6:2 FTS B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 IS 13C2-PFOA 96.2 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 IS 13C5-PFNA 82.1 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 13C8-PFOSA IS 17.7 50 - 150 Η B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30

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50 - 150

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50 - 150

B8I0206

B8I0206

B8I0206

B8I0206

B8I0206

B8I0206

01-Oct-18

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07-Oct-18 15:30

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07-Oct-18 15:30

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IS

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IS

IS

96.4

66.5

85.2

65.3

68.2

73.2

13C8-PFOS

13C2-PFDA

13C2-8:2 FTS

d3-MeFOSAA

d5-EtFOSAA

13C2-PFUnA



Sample ID: BP-TT-SW4002-20180918 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-08 Column: BEH C18

Project: Bethpage Date Collected: 18-Sep-18 13:20 Date Received: 21-Sep-18 09:09

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 77.9 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 13C2-PFTeDA IS 101 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30

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.

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Sample ID: BPSI-TT-MW312I-20180918 PFAS Isotope Dilution Method

Client Data

Name: Tetra Tech Droject: Dathpaga

Laboratory Data Lab Sample: Matrix: Groundwater

Data Pagairead Date Collected: 19 San 19 16:00 21-Sep-18 00:00

1803120-09

Column: BEH C18

PFBA 375-22-4 15.1 2.87 5.28 8.37 B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFPCA 2706-90-3 45.5 2.87 5.25 8.37 B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFBS 375-73-5 ND 2.87 5.25 8.37 U B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFILA 307-24-4 29.9 2.87 5.25 8.37 B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFILA 307-24-4 29.9 2.87 5.25 8.37 B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFILA 375-85-9 20.9 2.87 5.25 8.37 B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFILA 375-85-9 20.9 2.87 5.25 8.37 B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFILA 375-85-9 20.9 2.87 5.25 8.37 U B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFILA 375-85-9 20.9 2.87 5.25 8.37 U B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFILA 375-85-8 ND 2.87 5.25 8.37 U B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFOA 335-67-1 16.4 2.87 5.25 8.37 U B81026 01-Qct-18 15.41 1 PFILA 375-92-8 ND 2.87 5.25 8.37 U B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFILA 375-92-8 ND 2.87 5.25 8.37 U B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFOA 375-92-8 ND 2.87 5.25 8.37 U B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFOA 375-92-1 14.7 2.87 5.25 8.37 U B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFOA 385-76-2 ND 2.87 5.25 8.37 U B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFDA 385-76-2 ND 2.87 5.25 8.37 U B81026 01-Qct-18 15.41 1 PFDA 385-77-3 ND 2.87 5.25 8.37 U B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFUBA 2058-94-8 ND 2.87 5.25 8.37 U B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFUBA 305-77-3 ND 2.87 5.25 8.37 U B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFUBA 305-67 ND 2.87 5.25 8.37 U B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFUBA 305-67-7 ND 2.87 5.25 8.37 U B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFUBA 305-67-7 ND 2.87 5.25 8.37 U B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFUBA 305-67-7 ND 2.87 5.25 8.37 U B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFUBA 305-67-7 ND 2.87 5.25 8.37 U B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFUBA 305-67-7 ND 2.87 5.25 8.37 U B81026 01-Qct-18 0.119.1 07-Oct-18 15.41 1 PFUBA 18 9.98 18 9.90 01-Qct-18 0.109.1 07-Qct-18 15.4	Project: Bethpage		Date Col	lected: 18-S	Sep-18 16:00	Date	Received:	21-Sep-18	3 09:09			
PFPCA 2706-90-3 45.5 2.87 5.25 8.37	Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS 375-73-5 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFHA 372-44 29.9 2.87 5.25 8.37 B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFHA 375-85-9 20.9 2.87 5.25 8.37 B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFHA 375-85-9 20.9 2.87 5.25 8.37 J B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFHA 375-85-9 20.9 2.87 5.25 8.37 J B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFHA 335-46-4 3.04 2.87 5.25 8.37 J B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFHA 335-95-1 16.4 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFHA 375-95-1 9.88 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFNA 375-95-1 9.88 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFNA 375-95-1 14.7 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFNA 375-95-1 14.7 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFNA 375-95-1 14.7 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFNA 335-76-2 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFNA 335-76-2 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFNA 325-1 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFNA 325-1 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFNA 325-1 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFNA 325-1 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFNA 325-1 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFNA 325-1 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFNA 325-1 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFNA 325-1 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFNA 325-1 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFNA 325-1 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFNA 325-1 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFNA 325-1 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 I PFNA 325-1 ND 2.87 5.25 8.37 U B81020	PFBA	375-22-4	15.1	2.87	5.25	8.37		B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
PFHAA 307-24-4 29.9 2.87 5.25 8.37 B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFHAA 375-88-9 20.9 2.87 5.25 8.37 B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFHAS 355-46-4 3.04 2.87 5.25 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFOA 335-67-1 16.4 2.87 5.25 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFHAA 375-95-1 9.88 2.87 5.25 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFDA 375-95-1 9.88 2.87 5.25 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFOA 375-95-1 9.88 2.87 5.25 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFOA 375-95-1 9.88 2.87 5.25 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFOA 375-95-1 9.88 2.87 5.25 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFOA 335-76-2 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFOA 335-76-2 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFOA 335-76-2 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFOA 2.87 2.52 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFOA 2.87 2.52 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFOA 2.87 5.25 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFOA 2.87 5.25 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFOA 2.87 5.25 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFOA 2.87 5.25 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFOA 2.87 5.25 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFOA 2.87 5.25 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFOA 2.87 5.25 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 PFOA 2.87 5.25 8.37 U B810206 01-0ct-18 0.1191 07-0ct-18 15:41 1 1 07-	PFPeA	2706-90-3	45.5	2.87	5.25	8.37		B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
PFHpA 375-85-9 20.9 2.87 5.25 8.37				2.87	5.25		U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
PFHS 355-46-4 3.04 2.87 5.25 8.37 J B810206 O1-Oct-18 0.119 L O7-Oct-18 15-41 1 1 1 1 1 1 1 1 1	PFHxA		29.9		5.25			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
62 FTS	PFHpA	375-85-9	20.9	2.87	5.25	8.37		B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
PFOA 335-67-1 16.4 2.87 5.25 8.37 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	PFHxS	355-46-4	3.04	2.87	5.25	8.37	J	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
PFHNA 375-92-8 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 U 07-Oct-18 15:41 1 1 1 1 1 1 1 1 1	6:2 FTS	27619-97-2	ND	2.87	5.25	8.37	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
PFNA 375-95-1 9.88 2.87 5.25 8.37 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFOSA 754-91-6 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFOS 1763-23-1 14.7 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFDA 335-76-2 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFDA 335-76-2 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 MeFOSAA 2355-31-9 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 EHOSAA 2991-50-6 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 EHOSAA 2991-50-6 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFUMA 2088-94-8 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFUMA 2088-94-8 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFDS 335-77-3 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFDA 307-55-1 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFTDA 307-65-1 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFTDA 376-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFTDA 376-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFTDA 376-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFTDA 376-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFTDA 376-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFTDA 376-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFTDA 376-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFTDA 376-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFTDA 376-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFTDA 376-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFTDA 376-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFTDA 380-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFTDA 380-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-	PFOA	335-67-1	16.4	2.87	5.25	8.37		B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
PFOSA 75.491-6 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 1 1 1 1 1 1 1 1	PFHpS	375-92-8	ND	2.87	5.25	8.37	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
PFOS 1763-23-1	PFNA	375-95-1	9.88	2.87	5.25	8.37		B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
PFDA 335-76-2 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15.41 1	PFOSA	754-91-6	ND	2.87	5.25	8.37	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
Ref	PFOS	1763-23-1	14.7	2.87	5.25	8.37		B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
Ref	PFDA	335-76-2	ND	2.87	5.25	8.37	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
MeFOSAA 2355-31-9 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15-41 1	8:2 FTS	39108-34-4					U	B8I0206	01-Oct-18	0.119 L		
EFFOSAA 2991-50-6 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFUNA 2058-94-8 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFDOA 305-75-1 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFTDA 72629-94-8 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFTDA 72629-94-8 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PFTDA 376-67 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 L	MeFOSAA	2355-31-9					U	B8I0206	01-Oct-18			
PFURA 2058-94-8 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	EtFOSAA											
PFDS 335-77-3 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	PFUnA	2058-94-8					U	B8I0206	01-Oct-18	0.119 L		
PFDOA 307-55-1 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	PFDS		ND				U	B8I0206		0.119 L		
PFTrDA 72629-94-8 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	PFDoA						U	B8I0206				
PFTeDA 376-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	PFTrDA											
Labeled Standards Type % Recovery Limits Qualifiers Batch Extracted Samp Size Analyzed Dilution Dil												
13C3-PFPeA IS 87.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C3-PFBS IS 86.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFHxA IS 88.4 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C4-PFHpA IS 97.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 1802-PFHxS IS 92.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-FFX IS 90.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFOA IS 91.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOSA IS 91.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOSA IS 9.20 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1							Qualifiers					Dilution
13C3-PFBS IS 86.9 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFHxA IS 88.4 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C4-PFHpA IS 97.6 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 18O2-PFHxS IS 92.6 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-6:2 FTS IS 90.7 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFOA IS 91.7 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOSA IS 81.2 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOSA IS 9.20 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 70.9 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C3-PFBA	IS	93.8		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
13C2-PFHxA IS 88.4 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C4-PFHpA IS 97.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 18O2-PFHxS IS 92.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-6:2 FTS IS 90.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFOA IS 91.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C5-PFNA IS 81.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOSA IS 9.20 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 96.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 70.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C3-PFPeA	IS	87.7		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
13C4-PFHpA IS 97.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 18O2-PFHxS IS 92.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-6:2 FTS IS 90.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFOA IS 91.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C5-PFNA IS 81.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOSA IS 9.20 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 96.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 70.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-8:2 FTS IS 94.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C3-PFBS	IS	86.9		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
13C4-PFHpA IS 97.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 18O2-PFHxS IS 92.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-6:2 FTS IS 90.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFOA IS 91.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C5-PFNA IS 81.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOSA IS 9.20 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 96.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 70.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-8:2 FTS IS 94.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C2-PFHxA	IS	88.4		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
13C2-6:2 FTS IS 90.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFOA IS 91.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C5-PFNA IS 81.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOSA IS 9.20 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFOS IS 96.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 70.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-8:2 FTS IS 94.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d3-MeFOSAA IS 66.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d5-EtFOSAA IS 67.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C4-PFHpA		97.6		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
13C2-6:2 FTS IS 90.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFOA IS 91.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C5-PFNA IS 81.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOSA IS 9.20 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFOS IS 96.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 70.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-8:2 FTS IS 94.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d3-MeFOSAA IS 66.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d5-EtFOSAA IS 67.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	18O2-PFHxS	IS	92.6		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
13C2-PFOA IS 91.7 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C5-PFNA IS 81.2 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOSA IS 9.20 50 - 150 H B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOS IS 96.2 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 70.9 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-8:2 FTS IS 94.1 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d3-MeFOSAA IS 66.7 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d5-EtFOSAA IS 67.8 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C2-6:2 FTS		90.7		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
13C5-PFNA IS 81.2 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOSA IS 9.20 50 - 150 H B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOS IS 96.2 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 70.9 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-8:2 FTS IS 94.1 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d3-MeFOSAA IS 66.7 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d5-EtFOSAA IS 67.8 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C2-PFOA		91.7		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
13C8-PFOS IS 96.2 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 70.9 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-8:2 FTS IS 94.1 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d3-MeFOSAA IS 66.7 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d5-EtFOSAA IS 67.8 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C5-PFNA	IS	81.2					B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
13C2-PFDA IS 70.9 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-8:2 FTS IS 94.1 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d3-MeFOSAA IS 66.7 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d5-EtFOSAA IS 67.8 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C8-PFOSA	IS	9.20		50 - 150		Н	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1
13C2-PFDA IS 70.9 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-8:2 FTS IS 94.1 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d3-MeFOSAA IS 66.7 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d5-EtFOSAA IS 67.8 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C8-PFOS		96.2					B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	1
13C2-8:2 FTS IS 94.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d3-MeFOSAA IS 66.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d5-EtFOSAA IS 67.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C2-PFDA		70.9					B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	1
d3-MeFOSAA IS 66.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d5-EtFOSAA IS 67.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C2-8:2 FTS											
d5-EtFOSAA IS 67.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1												
	13C2-PFUnA	IS	79.6		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	

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Sample ID: BPSI-TT-MW312I-20180918 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-09 Column: BEH C18

Project: Bethpage Date Collected: 18-Sep-18 16:00 Date Received: 21-Sep-18 09:09

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 87.3 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 13C2-PFTeDA IS 99.3 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41

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.

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Sample ID: BPSI-TT-MW312S-20180918 **PFAS Isotope Dilution Method Client Data** Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-10 Column: BEH C18 Project: Bethpage Date Collected: 18-Sep-18 15:25 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ **Qualifiers Batch** Extracted Samp Size **CAS Number** Dilution Analyte Analyzed **PFBA** 375-22-4 20.2 2.99 5.43 8.72 B8I0206 01-Oct-18 07-Oct-18 15:51 0.115 L **PFPeA** 2706-90-3 42.3 8.72 2.99 5.43 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 PFBS 5.43 375-73-5 ND 2.99 8.72 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 307-24-4 26.3 5.43 8.72 **PFHxA** 2.99 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 5.43 8.72 **PFHpA** 375-85-9 14.4 2.99 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 **PFHxS** 355-46-4 3.01 2.99 5.43 8.72 J B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 5.43 U 6:2 FTS 27619-97-2 ND 2.99 8.72 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 PFOA 335-67-1 10.3 2.99 5.43 8.72 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 1 375-92-8 ND 2.99 5.43 8.72 U B8I0206 **PFHpS** 01-Oct-18 0.115 L 07-Oct-18 15:51 PFNA 375-95-1 10.6 2.99 5.43 8.72 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 1 **PFOSA** 754-91-6 ND 2.99 5.43 8.72 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 **PFOS** 1763-23-1 9.05 5.43 8.72 B8I0206 01-Oct-18 0.115 L 2.99 07-Oct-18 15:51 1 PFDA 335-76-2 ND 2.99 5.43 8.72 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 8:2 FTS 39108-34-4 2.99 5.43 8.72 U B8I0206 01-Oct-18 0.115 L ND 07-Oct-18 15:51 1 MeFOSAA 2355-31-9 ND 2.99 5.43 8.72 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51

5.43

5.43

5.43

5.43

5.43

8.72

8.72

8.72

8.72

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B8I0206

B8I0206

B8I0206

B8I0206

B8I0206

01-Oct-18

01-Oct-18

01-Oct-18

01-Oct-18

01-Oct-18

0.115 L

0.115 L

0.115 L

0.115 L

0.115 L

07-Oct-18 15:51

07-Oct-18 15:51

07-Oct-18 15:51

07-Oct-18 15:51

07-Oct-18 15:51

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PFTeDA	376-06-7	ND	2.99	5.43	8.72	U	B8I0206	01-Oct-18	0.115 L	07-Oct-18 15:51	1
Labeled Standards	Type	% Recovery		Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	96.3		50 - 150			B8I0206	01-Oct-18	0.115 L	07-Oct-18 15:51	1
13C3-PFPeA	IS	84.8		50 - 150			B8I0206	01-Oct-18	0.115 L	07-Oct-18 15:51	1
13C3-PFBS	IS	89.7		50 - 150			B8I0206	01-Oct-18	0.115 L	07-Oct-18 15:51	1
13C2-PFHxA	IS	90.9		50 - 150			B8I0206	01-Oct-18	0.115 L	07-Oct-18 15:51	1
13C4-PFHpA	IS	101		50 - 150			B8I0206	01-Oct-18	0.115 L	07-Oct-18 15:51	1
18O2-PFHxS	IS	101		50 - 150			B8I0206	01-Oct-18	0.115 L	07-Oct-18 15:51	1
13C2-6:2 FTS	IS	88.3		50 - 150			B8I0206	01-Oct-18	0.115 L	07-Oct-18 15:51	1
13C2-PFOA	IS	93.7		50 - 150			B8I0206	01-Oct-18	0.115 L	07-Oct-18 15:51	1
13C5-PFNA	IS	84.4		50 - 150			B8I0206	01-Oct-18	0.115 L	07-Oct-18 15:51	1
13C8-PFOSA	IS	12.9		50 - 150		Н	B8I0206	01-Oct-18	0.115 L	07-Oct-18 15:51	1
13C8-PFOS	IS	96.2		50 - 150			B8I0206	01-Oct-18	0.115 L	07-Oct-18 15:51	1
13C2-PFDA	IS	66.5		50 - 150			B8I0206	01-Oct-18	0.115 L	07-Oct-18 15:51	1
13C2-8:2 FTS	IS	92.6		50 - 150			B8I0206	01-Oct-18	0.115 L	07-Oct-18 15:51	1
d3-MeFOSAA	IS	67.8		50 - 150			B8I0206	01-Oct-18	0.115 L	07-Oct-18 15:51	1
d5-EtFOSAA	IS	74.7		50 - 150			B8I0206	01-Oct-18	0.115 L	07-Oct-18 15:51	1
13C2-PFUnA	IS	79.2		50 - 150			B8I0206	01-Oct-18	0.115 L	07-Oct-18 15:51	1

EtFOSAA

PFUnA

PFDoA

PFTrDA

PFDS

2991-50-6

2058-94-8

335-77-3

307-55-1

72629-94-8

ND

ND

ND

ND

ND

2.99

2.99

2.99

2.99

2.99

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Sample ID: BPSI-TT-MW312S-20180918 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-10 Column: BEH C18

Project: Bethpage Date Collected: 18-Sep-18 15:25 Date Received: 21-Sep-18 09:09

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 85.0 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 13C2-PFTeDA IS 101 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51

DL - Detection Limit

LOD - Limit of Detection

Results reported to the DL.

LOQ - Limit of quantitation

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

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Sample ID: BPSI-TT-MW31	0S-20180919								PFAS Iso	tope Dilution N	Method
Client Data					Labo	oratory Data					
Name: Tetra Tech		Matrix:	Grou	ndwater	Lab S	Sample:	1803120-	11	Column:	BEH C18	
Project: Bethpage		Date Collected: 19-S				Received:	21-Sep-18 09:09		0 0 3 4 3 3 3 3 3	DEIT CTO	
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	8.31	2.86	5.21	8.35	J	B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
PFPeA	2706-90-3	6.60	2.86	5.21	8.35	J	B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
PFBS	375-73-5	ND	2.86	5.21	8.35	U	B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
PFHxA	307-24-4	6.87	2.86	5.21	8.35	J	B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
PFHpA	375-85-9	10.9	2.86	5.21	8.35		B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
PFHxS	355-46-4	ND	2.86	5.21	8.35	U	B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
6:2 FTS	27619-97-2	ND	2.86	5.21	8.35	U	B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
PFOA	335-67-1	28.9	2.86	5.21	8.35		B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
PFHpS	375-92-8	ND	2.86	5.21	8.35	U	B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
PFNA	375-95-1	4.59	2.86	5.21	8.35	J	B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
PFOSA	754-91-6	ND	2.86	5.21	8.35	U	B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
PFOS	1763-23-1	10.8	2.86	5.21	8.35		B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
PFDA	335-76-2	ND	2.86	5.21	8.35	U	B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
8:2 FTS	39108-34-4	ND	2.86	5.21	8.35	U	B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
MeFOSAA	2355-31-9	ND	2.86	5.21	8.35	U	B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
EtFOSAA	2991-50-6	ND	2.86	5.21	8.35	U	B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
PFUnA	2058-94-8	ND	2.86	5.21	8.35	U	B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
PFDS	335-77-3	ND	2.86	5.21	8.35	U	B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
PFDoA	307-55-1	ND	2.86	5.21	8.35	U	B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
PFTrDA	72629-94-8	ND	2.86	5.21	8.35	U	B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
PFTeDA	376-06-7	ND	2.86	5.21	8.35	U	B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
Labeled Standards	Туре	% Recovery		Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	96.5		50 - 150			B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
13C3-PFPeA	IS	86.8		50 - 150			B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
13C3-PFBS	IS	90.2		50 - 150			B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
13C2-PFHxA	IS	92.7		50 - 150			B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
13C4-PFHpA	IS	101		50 - 150			B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
18O2-PFHxS	IS	86.8		50 - 150			B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
13C2-6:2 FTS	IS	89.4		50 - 150			B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
13C2-PFOA	IS	92.2		50 - 150			B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
13C5-PFNA	IS	76.9		50 - 150			B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
13C8-PFOSA	IS	14.3		50 - 150		Н	B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
13C8-PFOS	IS	92.9		50 - 150			B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
13C2-PFDA	IS	65.7		50 - 150			B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
13C2-8:2 FTS	IS	89.6		50 - 150			B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
d3-MeFOSAA	IS	69.1		50 - 150			B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
d5-EtFOSAA	IS	76.7		50 - 150			B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1
13C2-PFUnA	IS	76.4		50 - 150			B8I0206	01-Oct-18	0.120 L	07-Oct-18 16:23	1

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Sample ID: BPSI-TT-MW310S-20180919 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-11 Column: BEH C18

Project: Bethpage Date Collected: 19-Sep-18 10:30 Date Received: 21-Sep-18 09:09

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 88.6 50 - 150 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 13C2-PFTeDA IS 105 50 - 150 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23

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.

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Sample ID: BPSI-TT-MW311S-20180919 PFAS Isotope Dilution Method Client Data Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-12 Column: BEH C18 Project: Date Collected: Bethpage 19-Sep-18 11:10 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ **Batch** Extracted Samp Size **CAS Number Qualifiers** Dilution **Analyzed** Analyte **PFBA** 375-22-4 9.88 2.89 5.30 8.45 B8I0206 01-Oct-18 07-Oct-18 16:34 0.118 L **PFPeA** 2706-90-3 2.89 5.30 8.45 13.8 B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 **PFBS** 5.30 375-73-5 ND 2.89 8.45 U B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 307-24-4 13.3 5.30 **PFHxA** 2.89 8.45 B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 7.09 5.30 **PFHpA** 375-85-9 2.89 8.45 J B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 **PFHxS** 355-46-4 ND 2.89 5.30 8.45 U B8I0206 01-Oct-18 0.118 L07-Oct-18 16:34 U 6:2 FTS 27619-97-2 ND 2.89 5.30 8.45 B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 **PFOA** 335-67-1 2.96 2.89 5.30 8.45 J B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 375-92-8 2.89 5.30 8.45 U **PFHpS** ND B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 PFNA 375-95-1 ND 2.89 5.30 8.45 U B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 1 **PFOSA** 754-91-6 ND 2.89 5.30 8.45 U B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 **PFOS** 1763-23-1 ND 2.89 5.30 8.45 U B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 **PFDA** 335-76-2 ND 2.89 5.30 8.45 U B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 8:2 FTS 39108-34-4 ND 2.89 5.30 8.45 U B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 MeFOSAA 2355-31-9 ND 2.89 5.30 8.45 U B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 U **EtFOSAA** 2991-50-6 ND 2.89 5.30 8.45 B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 ND 2.89 5.30 U **PFUnA** 2058-94-8 8.45 B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 U **PFDS** 335-77-3 ND 2.89 5.30 8.45 B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 2.89 U **PFDoA** 307-55-1 ND 5.30 8.45 B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 0.118 L **PFTrDA** 72629-94-8 ND 2.89 5.30 8.45 U B8I0206 01-Oct-18 07-Oct-18 16:34 U **PFTeDA** 376-06-7 ND 2.89 5.30 8.45 B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 96.1 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 1 13C3-PFPeA IS 90.7 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 13C3-PFBS IS 88.0 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 1 IS 88.4 50 - 150 B8I0206 13C2-PFHxA 01-Oct-18 0.118 L 07-Oct-18 16:34 IS 99.4 13C4-PFHpA 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 IS 18O2-PFHxS 89.7 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 IS 92.7 50 - 150 13C2-6:2 FTS B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 IS 89.9 13C2-PFOA 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 IS 13C5-PFNA 84.4 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 13C8-PFOSA IS 11.2 50 - 150 Η B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34

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50 - 150

50 - 150

50 - 150

50 - 150

50 - 150

50 - 150

B8I0206

B8I0206

B8I0206

B8I0206

B8I0206

B8I0206

01-Oct-18

01-Oct-18

01-Oct-18

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01-Oct-18

01-Oct-18

0.118 L

0.118 L

0.118 L

0.118 L

0.118 L

0.118 L

07-Oct-18 16:34

07-Oct-18 16:34

07-Oct-18 16:34

07-Oct-18 16:34

07-Oct-18 16:34

07-Oct-18 16:34

1

1

1

IS

IS

IS

IS

IS

IS

94.9

73.9

88.3

73.3

76.0

78.6

13C8-PFOS

13C2-PFDA

13C2-8:2 FTS

d3-MeFOSAA

d5-EtFOSAA

13C2-PFUnA



Sample ID: BPSI-TT-MW311S-20180919 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-12 Column: BEH C18

Bethpage Date Collected: 19-Sep-18 11:10 Date Received: 21-Sep-18 09:09

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 95.6 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 13C2-PFTeDA IS 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:34 111

DL - Detection Limit

Project:

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.

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Sample ID: BPSI-TT-MW311I-20180919 Client Data Name: Tetra Tech Matrix: Groundwater PFAS Isotope Dilution Method Laboratory Data Lab Sample: 1803120-13 Column: BEH C18

Name. Tetta Tech		Mauix.		illuwatei		Sample.	1003120-		Column:	BEH C18	
Project: Bethpage		Date Col	lected: 19-S	Sep-18 11:10	Date	Received:	21-Sep-18	3 09:09			
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	14.7	2.91	5.30	8.49		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	. 1
PFPeA	2706-90-3	13.9	2.91	5.30	8.49		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	. 1
PFBS	375-73-5	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	1
PFHxA	307-24-4	14.6	2.91	5.30	8.49		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	. 1
PFHpA	375-85-9	10.2	2.91	5.30	8.49		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	- 1
PFHxS	355-46-4	7.11	2.91	5.30	8.49	J	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	. 1
6:2 FTS	27619-97-2	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	. 1
PFOA	335-67-1	12.2	2.91	5.30	8.49		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	1
PFHpS	375-92-8	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	1
PFNA	375-95-1	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	1
PFOSA	754-91-6	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
PFOS	1763-23-1	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
PFDA	335-76-2	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	1
8:2 FTS	39108-34-4	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
MeFOSAA	2355-31-9	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
EtFOSAA	2991-50-6	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
PFUnA	2058-94-8	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
PFDS	335-77-3	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
PFDoA	307-55-1	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
PFTrDA	72629-94-8	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
PFTeDA	376-06-7	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
Labeled Standards	Туре	% Recovery		Limits	0,1,5	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	94.5		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	1
13C3-PFPeA	IS	88.6		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C3-PFBS	IS	90.7		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C2-PFHxA	IS	91.1		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C4-PFHpA	IS	104		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
18O2-PFHxS	IS	84.2		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C2-6:2 FTS	IS	88.5		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C2-PFOA	IS	92.7		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C5-PFNA	IS	80.7		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C8-PFOSA	IS	15.8		50 - 150		Н	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C8-PFOS	IS	99.2		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C2-PFDA	IS	65.8		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C2-8:2 FTS	IS	99.3		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
d3-MeFOSAA	IS	63.2		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
d5-EtFOSAA	IS	72.2		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C2-PFUnA	IS	72.6		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
1502 11 01111	10	72.0		30 - 130			D010200	01 001-10	0.110 L	07 000-10 10.44	1

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Sample ID: BPSI-TT-MW311I-20180919 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-13 Column: BEH C18

Project: Bethpage Date Collected: 19-Sep-18 11:10 Date Received: 21-Sep-18 09:09

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 84.7 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:44 13C2-PFTeDA IS 106 50 - 150 B8I0206 01-Oct-18 0.118 L 07-Oct-18 16:44

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 applytes.

analytes.

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Sample ID: BPSI-TT-MW314S-20180919 PFAS Isotope Dilution Method Client Data Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-14 Column: BEH C18 Project: Date Collected: Bethpage 19-Sep-18 14:40 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ Batch Extracted Samp Size **CAS Number Qualifiers** Dilution **Analyzed** Analyte **PFBA** 375-22-4 9.79 2.92 5.34 8.53 B8I0206 01-Oct-18 07-Oct-18 16:55 0.117 L **PFPeA** 2706-90-3 18.7 2.92 5.34 8.53 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 **PFBS** 5.34 375-73-5 ND 2.92 8.53 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 307-24-4 2.92 5.34 8.53 **PFHxA** 13.4 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 5.34 **PFHpA** 375-85-9 37.4 2.92 8.53 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 2.92 8.53 U **PFHxS** 355-46-4 ND 5.34 B8I0206 01-Oct-18 0.117 L07-Oct-18 16:55 5.34 6:2 FTS 27619-97-2 3.75 2.92 8.53 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 **PFOA** 335-67-1 98.8 5.34 2.92 8.53 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 375-92-8 2.92 5.34 8.53 U B8I0206 **PFHpS** ND 01-Oct-18 0.117 L 07-Oct-18 16:55 PFNA 375-95-1 ND 2.92 5.34 8.53 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 **PFOSA** 754-91-6 ND 2.92 5.34 8.53 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 **PFOS** 1763-23-1 ND 2.92 5.34 8.53 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 **PFDA** 335-76-2 ND 2.92 5.34 8.53 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 8:2 FTS 39108-34-4 ND 2.92 5.34 8.53 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 MeFOSAA 2355-31-9 ND 2.92 5.34 8.53 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 U **EtFOSAA** 2991-50-6 ND 2.92 5.34 8.53 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 ND 2.92 5.34 8.53 U **PFUnA** 2058-94-8 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 U **PFDS** 335-77-3 ND 2.92 5.34 8.53 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 2.92 5.34 8.53 U 01-Oct-18 **PFDoA** 307-55-1 ND B8I0206 0.117 L 07-Oct-18 16:55 **PFTrDA** 72629-94-8 ND 2.92 5.34 8.53 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 U **PFTeDA** 376-06-7 ND 2.92 5.34 8.53 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 94.9 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 1 13C3-PFPeA IS 85.6 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 13C3-PFBS IS 91.6 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 1 IS 91.5 50 - 150 B8I0206 13C2-PFHxA 01-Oct-18 0.117 L 07-Oct-18 16:55 IS 102 13C4-PFHpA 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 IS 18O2-PFHxS 88.5 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 IS 88.5 13C2-6:2 FTS 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 IS 13C2-PFOA 95.4 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 IS 13C5-PFNA 81.0 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 IS 13C8-PFOSA 27.7 50 - 150 Η B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 IS 13C8-PFOS 91.3 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 1 13C2-PFDA IS 74.2 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 13C2-8:2 FTS IS 87.7 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 1 d3-MeFOSAA IS 68.9 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55

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50 - 150

50 - 150

B8I0206

B8I0206

01-Oct-18

01-Oct-18

0.117 L

0.117 L

07-Oct-18 16:55

07-Oct-18 16:55

1

d5-EtFOSAA

13C2-PFUnA

IS

IS

73.0

78.4



Sample ID: BPSI-TT-MW314S-20180919 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-14 Column: BEH C18

Project: Bethpage Date Collected: 19-Sep-18 14:40 Date Received: 21-Sep-18 09:09

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 86.5 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 13C2-PFTeDA IS 104 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55

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.

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Sample ID: BPSI-TT-MW314D-20180919 PFAS Isotope Dilution Method

Client Data

Name: Tetra Tech Project: Bethnage

Laboratory Data Matrix:

Lab Sample: Groundwater 1803120-15 19-Sep-18 16:20

Column: BEH C18

Name. Tetra Tech		Mauix.		illuwatei		Sample.	1003120-		Column:	BEH C18	
Project: Bethpage		Date Col	lected: 19-S	ep-18 16:20	Date	e Received:	21-Sep-18	3 09:09			
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	14.2	2.87	5.25	8.38		B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	5 1
PFPeA	2706-90-3	44.7	2.87	5.25	8.38		B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	j 1
PFBS	375-73-5	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	5 1
PFHxA	307-24-4	28.9	2.87	5.25	8.38		B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	5 1
PFHpA	375-85-9	15.9	2.87	5.25	8.38		B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	5 1
PFHxS	355-46-4	3.43	2.87	5.25	8.38	J	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	5 1
6:2 FTS	27619-97-2	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	5 1
PFOA	335-67-1	14.8	2.87	5.25	8.38		B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	5 1
PFHpS	375-92-8	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	5 1
PFNA	375-95-1	8.11	2.87	5.25	8.38	J	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	5 1
PFOSA	754-91-6	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	5 1
PFOS	1763-23-1	9.72	2.87	5.25	8.38		B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	5 1
PFDA	335-76-2	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	5 1
8:2 FTS	39108-34-4	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	5 1
MeFOSAA	2355-31-9	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	5 1
EtFOSAA	2991-50-6	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	5 1
PFUnA	2058-94-8	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	
PFDS	335-77-3	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	
PFDoA	307-55-1	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	5 1
PFTrDA	72629-94-8	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	5 1
PFTeDA	376-06-7	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	
Labeled Standards	Type	% Recovery		Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	95.9		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	<u> </u>
13C3-PFPeA	IS	86.5		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	
13C3-PFBS	IS	91.8		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	
13C2-PFHxA	IS	90.0		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	
13C4-PFHpA	IS	112		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	
18O2-PFHxS	IS	88.9		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	
13C2-6:2 FTS	IS	91.5		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	
13C2-PFOA	IS	93.9		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	
13C5-PFNA	IS	79.5		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	
13C8-PFOSA	IS	12.0		50 - 150		Н	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	
13C8-PFOS	IS	91.6		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	
13C2-PFDA	IS	69.1		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	
13C2-8:2 FTS	IS	84.3		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	
d3-MeFOSAA	IS	66.3		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	
d5-EtFOSAA	IS	75.0		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	
13C2-PFUnA	IS	81.0		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	
	15	01.0		23 130			2010200	01 000 10	V.117 L	57 000 10 17.00	•

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Sample ID: BPSI-TT-MW314D-20180919 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-15 Column: BEH C18

Project: Bethpage Date Collected: 19-Sep-18 16:20 Date Received: 21-Sep-18 09:09

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 84.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 13C2-PFTeDA IS 105 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06

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.

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Sample ID: BP-TT-EB03-20180919 PFAS Isotope Dilution Method Client Data **Laboratory Data**

Name: Tetra Tech Project: Bethpage		Matrix: Date Colle	Aque ected: 19-S	eous lep-18 15:00	Lab	Sample: Received:	1803120-1 21-Sep-18		Column:	BEH C18	
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFPeA	2706-90-3	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFBS	375-73-5	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFHxA	307-24-4	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFHpA	375-85-9	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFHxS	355-46-4	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
6:2 FTS	27619-97-2	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFOA	335-67-1	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFHpS	375-92-8	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFNA	375-95-1	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFOSA	754-91-6	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFOS	1763-23-1	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFDA	335-76-2	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
8:2 FTS	39108-34-4	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
MeFOSAA	2355-31-9	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
EtFOSAA	2991-50-6	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFUnA	2058-94-8	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFDS	335-77-3	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFDoA	307-55-1	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFTrDA	72629-94-8	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFTeDA	376-06-7	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
Labeled Standards	Type	% Recovery		Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	94.7		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
13C3-PFPeA	IS	83.2		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
13C3-PFBS	IS	91.4		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
13C2-PFHxA	IS	91.4		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
13C4-PFHpA	IS	105		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
18O2-PFHxS	IS	84.2		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
13C2-6:2 FTS	IS	95.1		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
13C2-PFOA	IS	91.3		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
13C5-PFNA		00.4		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
	IS	80.4		30 - 130							
13C8-PFOSA	IS IS	80.4 14.8		50 - 150		Н	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
13C8-PFOSA 13C8-PFOS						Н		01-Oct-18 01-Oct-18			1 1
	IS IS	14.8		50 - 150		Н	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16 07-Oct-18 17:16	•
13C8-PFOS 13C2-PFDA	IS IS IS	14.8 96.9 68.7		50 - 150 50 - 150 50 - 150		Н	B8I0206 B8I0206	01-Oct-18 01-Oct-18	0.119 L 0.119 L 0.119 L	07-Oct-18 17:16 07-Oct-18 17:16 07-Oct-18 17:16	•
13C8-PFOS 13C2-PFDA 13C2-8:2 FTS	IS IS	14.8 96.9		50 - 150 50 - 150 50 - 150 50 - 150		Н	B8I0206 B8I0206 B8I0206	01-Oct-18	0.119 L 0.119 L	07-Oct-18 17:16 07-Oct-18 17:16	1
13C8-PFOS	IS IS IS IS	14.8 96.9 68.7 91.8		50 - 150 50 - 150 50 - 150		Н	B8I0206 B8I0206 B8I0206 B8I0206	01-Oct-18 01-Oct-18 01-Oct-18	0.119 L 0.119 L 0.119 L 0.119 L	07-Oct-18 17:16 07-Oct-18 17:16 07-Oct-18 17:16 07-Oct-18 17:16	1 1 1

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Sample ID: BP-TT-EB03-20180919 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: Aqueous Lab Sample: 1803120-16 Column: BEH C18

Project: Bethpage Date Collected: 19-Sep-18 15:00 Date Received: 21-Sep-18 09:09

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 77.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:16 13C2-PFTeDA IS 95.4 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:16

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.

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Sample ID: BPSI-TT-MW313S-2018020 PFAS Isotope Dilution Method Client Data Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-17 Column: BEH C18 Project: Date Collected: Bethpage 20-Sep-18 09:45 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ **Batch** Extracted Samp Size **CAS Number Qualifiers** Dilution **Analyzed** Analyte **PFBA** 375-22-4 17.5 2.97 5.43 8.67 B8I0206 01-Oct-18 07-Oct-18 17:33 0.115 L **PFPeA** 2706-90-3 2.97 5.43 8.67 44.4 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 **PFBS** ND 5.43 375-73-5 2.97 8.67 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 307-24-4 2.97 5.43 **PFHxA** 27.5 8.67 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 5.43 **PFHpA** 375-85-9 18.2 2.97 8.67 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 U **PFHxS** 355-46-4 ND 2.97 5.43 8.67 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 5.43 U 6:2 FTS 27619-97-2 ND 2.97 8.67 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 **PFOA** 335-67-1 5.43 7.98 2.97 8.67 J B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 375-92-8 2.97 5.43 8.67 U **PFHpS** ND B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 PFNA 375-95-1 3.87 5.43 8.67 B8I0206 01-Oct-18 0.115 L 2.97 J 07-Oct-18 17:33 1 **PFOSA** 754-91-6 ND 2.97 5.43 8.67 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 **PFOS** 1763-23-1 5.77 5.43 8.67 B8I0206 01-Oct-18 0.115 L 2.97 J 07-Oct-18 17:33 **PFDA** 335-76-2 ND 2.97 5.43 8.67 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 8:2 FTS 39108-34-4 ND 2.97 5.43 8.67 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 MeFOSAA 2355-31-9 ND 2.97 5.43 8.67 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 U **EtFOSAA** 2991-50-6 ND 2.97 5.43 8.67 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 ND 2.97 5.43 U **PFUnA** 2058-94-8 8.67 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 U **PFDS** 335-77-3 ND 2.97 5.43 8.67 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 2.97 U **PFDoA** 307-55-1 ND 5.43 8.67 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 **PFTrDA** 72629-94-8 ND 2.97 5.43 8.67 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 U **PFTeDA** 376-06-7 ND 2.97 5.43 8.67 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 94.5 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 1 13C3-PFPeA IS 85.7 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 13C3-PFBS IS 89.8 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 1 IS 92.7 50 - 150 B8I0206 13C2-PFHxA 01-Oct-18 0.115 L 07-Oct-18 17:33 IS 102 13C4-PFHpA 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 IS 18O2-PFHxS 84.2 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 IS 82.3 50 - 150 13C2-6:2 FTS B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 IS 91.5 13C2-PFOA 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 IS 13C5-PFNA 79.7 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 IS 13C8-PFOSA 11.9 50 - 150 Η B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 IS 13C8-PFOS 89.2 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 1 13C2-PFDA IS 68.4 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 1 13C2-8:2 FTS IS 92.7 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 1

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50 - 150

50 - 150

50 - 150

B8I0206

B8I0206

B8I0206

01-Oct-18

01-Oct-18

01-Oct-18

0.115 L

0.115 L

0.115 L

07-Oct-18 17:33

07-Oct-18 17:33

07-Oct-18 17:33

1

d3-MeFOSAA

d5-EtFOSAA

13C2-PFUnA

IS

IS

IS

61.2

67.2

77.3



Sample ID: BPSI-TT-MW313S-2018020 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-17 Column: BEH C18

Project: Bethpage Date Collected: 20-Sep-18 09:45 Date Received: 21-Sep-18 09:09

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 84.8 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 13C2-PFTeDA IS 105 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33

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.

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Sample ID: BB-TT-DUP06-20180920 PFAS Isotope Dilution Method Client Data Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-18 Column: BEH C18 Project: Date Collected: Bethpage 20-Sep-18 12:00 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ Batch Extracted Samp Size **CAS Number Qualifiers** Dilution **Analyzed** Analyte **PFBA** 375-22-4 17.5 2.87 5.25 8.37 B8I0206 01-Oct-18 07-Oct-18 17:43 0.119 L **PFPeA** 2706-90-3 44.5 2.87 5.25 8.37 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 **PFBS** ND 5.25 375-73-5 2.87 8.37 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 307-24-4 2.87 5.25 8.37 **PFHxA** 27.7 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 5.25 **PFHpA** 375-85-9 18.5 2.87 8.37 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 U **PFHxS** 355-46-4 ND 2.87 5.25 8.37 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 U 6:2 FTS 27619-97-2 ND 2.87 5.25 8.37 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 **PFOA** 335-67-1 7.40 2.87 5.25 8.37 J B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 375-92-8 2.87 5.25 8.37 B8I0206 **PFHpS** ND U 01-Oct-18 0.119 L 07-Oct-18 17:43 PFNA 375-95-1 3.75 2.87 5.25 B8I0206 01-Oct-18 0.119 L 8.37 J 07-Oct-18 17:43 1 **PFOSA** 754-91-6 ND 2.87 5.25 8.37 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 **PFOS** 1763-23-1 6.27 2.87 5.25 8.37 B8I0206 01-Oct-18 0.119 L J 07-Oct-18 17:43 **PFDA** 335-76-2 ND 2.87 5.25 8.37 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 8:2 FTS 39108-34-4 2.87 5.25 8.37 U B8I0206 01-Oct-18 0.119 L ND 07-Oct-18 17:43 MeFOSAA 2355-31-9 ND 2.87 5.25 8.37 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 U **EtFOSAA** 2991-50-6 ND 2.87 5.25 8.37 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 ND 2.87 5.25 8.37 U **PFUnA** 2058-94-8 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 **PFDS** 335-77-3 ND 2.87 5.25 8.37 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 2.87 8.37 U 01-Oct-18 **PFDoA** 307-55-1 ND 5.25 B8I0206 0.119 L 07-Oct-18 17:43 **PFTrDA** 72629-94-8 ND 2.87 5.25 8.37 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 U **PFTeDA** 376-06-7 ND 2.87 5.25 8.37 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 95.5 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 1 13C3-PFPeA IS 84.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 13C3-PFBS IS 92.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 1 IS 92.3 50 - 150 B8I0206 13C2-PFHxA 01-Oct-18 0.119 L 07-Oct-18 17:43 IS 103 13C4-PFHpA 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 IS 18O2-PFHxS 85.5 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 IS 65.9 50 - 150 13C2-6:2 FTS B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 IS 13C2-PFOA 93.0 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 IS 13C5-PFNA 78.3 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 IS 13C8-PFOSA 10.3 50 - 150 Η B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 IS 92.7 13C8-PFOS 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 1 13C2-PFDA IS 63.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 1 13C2-8:2 FTS IS 73.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 1 d3-MeFOSAA IS 53.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 d5-EtFOSAA IS 56.4 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 1 13C2-PFUnA IS 72.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43

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Sample ID: BB-TT-DUP06-20180920 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-18 Column: BEH C18

Project: Bethpage Date Collected: 20-Sep-18 12:00 Date Received: 21-Sep-18 09:09

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 80.4 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 13C2-PFTeDA IS 105 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43

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

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

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Sample ID: BPSI-TT-MW30	07D-2018020								PFAS Iso	tope Dilution N	Method
Client Data Name: Tetra Tech Project: Bethpage		Matrix: Date Col		ndwater ep-18 15:20	Lab S	oratory Data Sample: Received:	1803120-1 21-Sep-18		Column:	BEH C18	
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	4.06	2.87	5.25	8.39	J	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	1
PFPeA	2706-90-3	9.74	2.87	5.25	8.39		B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	1
PFBS	375-73-5	ND	2.87	5.25	8.39	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	1
PFHxA	307-24-4	6.36	2.87	5.25	8.39	J	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	1
PFHpA	375-85-9	5.09	2.87	5.25	8.39	J, Q	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	1
PFHxS	355-46-4	ND	2.87	5.25	8.39	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
6:2 FTS	27619-97-2	ND	2.87	5.25	8.39	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
PFOA	335-67-1	8.89	2.87	5.25	8.39		B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
PFHpS	375-92-8	ND	2.87	5.25	8.39	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
PFNA	375-95-1	3.33	2.87	5.25	8.39	J	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
PFOSA	754-91-6	ND	2.87	5.25	8.39	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	1
PFOS	1763-23-1	7.15	2.87	5.25	8.39	J, Q	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	1
PFDA	335-76-2	3.09	2.87	5.25	8.39	J	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
8:2 FTS	39108-34-4	ND	2.87	5.25	8.39	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
MeFOSAA	2355-31-9	ND	2.87	5.25	8.39	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
EtFOSAA	2991-50-6	ND	2.87	5.25	8.39	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
PFUnA	2058-94-8	ND	2.87	5.25	8.39	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
PFDS	335-77-3	ND	2.87	5.25	8.39	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
PFDoA	307-55-1 72629-94-8	ND	2.87	5.25	8.39	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
PFTrDA		ND ND	2.87	5.25	8.39	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
PFTeDA Labeled Standards	376-06-7		2.87	5.25 Limits	8.39	U Qualifiers	B8I0206 Batch	01-Oct-18 Extracted	0.119 L	07-Oct-18 17:54	Dilution
	Туре	% Recovery				Quanners			Samp Size	·	
13C3-PFBA	IS	98.2 90.9		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
13C3-PFPeA 13C3-PFBS	IS IS	90.9		50 - 150 50 - 150			B8I0206	01-Oct-18 01-Oct-18	0.119 L	07-Oct-18 17:54	
13C2-PFHxA	IS IS	97.3		50 - 150			B8I0206 B8I0206	01-Oct-18	0.119 L 0.119 L	07-Oct-18 17:54 07-Oct-18 17:54	
13C4-PFHpA	IS	104		50 - 150			B8I0206	01-Oct-18	0.119 L 0.119 L	07-Oct-18 17:54 07-Oct-18 17:54	
18O2-PFHxS	IS	85.8		50 - 150			B8I0206	01-Oct-18	0.119 L 0.119 L	07-Oct-18 17:54	
13C2-6:2 FTS	IS	64.2		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
13C2-PFOA	IS	96.6		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
13C5-PFNA	IS	84.3		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
13C8-PFOSA	IS	10.2		50 - 150		Н	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
13C8-PFOS	IS	92.9		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
13C2-PFDA	IS	71.2		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
				50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:54	
	IS	/1.4		30 - 130							
13C2-8:2 FTS	IS IS	71.4 55.6									
	IS IS IS	55.6 59.3		50 - 150 50 - 150 50 - 150			B8I0206 B8I0206	01-Oct-18 01-Oct-18	0.119 L 0.119 L	07-Oct-18 17:54 07-Oct-18 17:54	1

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Sample ID: BPSI-TT-MW307D-2018020 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-19 Column: BEH C18

Project: Bethpage Date Collected: 20-Sep-18 15:20 Date Received: 21-Sep-18 09:09

% Recovery Limits Extracted Samp Size **Labeled Standards** Type Qualifiers **Batch** Analyzed Dilution IS 13C2-PFDoA 94.0 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 13C2-PFTeDA IS 105 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54

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.

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Appendix C

Support Documents

A. Documents Supporting Qualifications

SDG: 1803120 7



Sample ID: BPSI-TT-MW301S-20180918 PFAS Isotope Dilution Method Client Data Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-01 Column: BEH C18 Project: Date Collected: Bethpage 18-Sep-18 10:45 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ **Batch** Extracted Samp Size **CAS Number Qualifiers** Dilution **Analyzed** Analyte **PFBA** 375-22-4 4.12 3.04 5.53 8.89 B8I0206 01-Oct-18 07-Oct-18 14:16 0.113 L **PFPeA** 2706-90-3 4.16 3.04 5.53 8.89 J B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 **PFBS** 5.53 U 375-73-5 ND 3.04 8.89 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 307-24-4 3.74 5.53 **PFHxA** 3.04 8.89 J B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 5.53 U **PFHpA** 375-85-9 ND 3.04 8.89 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 **PFHxS** 355-46-4 ND 3.04 5.53 8.89 U B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 5.53 U 6:2 FTS 27619-97-2 ND 3.04 8.89 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 **PFOA** 335-67-1 5.53 U ND 3.04 8.89 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 375-92-8 3.04 5.53 8.89 U **PFHpS** ND B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 PFNA 375-95-1 ND 3.04 5.53 8.89 U B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 **PFOSA** 754-91-6 ND 3.04 5.53 8.89 U B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 **PFOS** 1763-23-1 ND 3.04 5.53 8.89 U B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 **PFDA** 335-76-2 ND 3.04 5.53 8.89 U B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 8:2 FTS 39108-34-4 ND 3.04 5.53 8.89 U B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 MeFOSAA 2355-31-9 ND 3.04 5.53 8.89 U B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 U **EtFOSAA** 2991-50-6 ND 3.04 5.53 8.89 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 ND 5.53 U **PFUnA** 2058-94-8 3.04 8.89 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 U **PFDS** 335-77-3 ND 3.04 5.53 8.89 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 3.04 5.53 8.89 U 01-Oct-18 **PFDoA** 307-55-1 ND B8I0206 0.113 L 07-Oct-18 14:16 **PFTrDA** 72629-94-8 ND 3.04 5.53 8.89 U B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 U **PFTeDA** 376-06-7 ND 3.04 5.53 8.89 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 98.7 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 1 13C3-PFPeA IS 90.0 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 13C3-PFBS IS 96.8 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 1 IS 91.5 50 - 150 B8I0206 13C2-PFHxA 01-Oct-18 0.113 L 07-Oct-18 14:16 IS 104 13C4-PFHpA 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 IS 109 18O2-PFHxS 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 IS 50 - 150 13C2-6:2 FTS 96.4 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 IS 50 - 150 13C2-PFOA 95.0 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 IS 13C5-PFNA 85.9 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 IS H 13C8-PFOSA 15.4 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 IS 50 - 150 13C8-PFOS 98.4 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 1 13C2-PFDA IS 75.7 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 13C2-8:2 FTS IS 91.5 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 1 d3-MeFOSAA IS 70.1 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 d5-EtFOSAA IS 79.2 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16 1 13C2-PFUnA IS 81.2 50 - 150 B8I0206 01-Oct-18 0.113 L 07-Oct-18 14:16

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Sample ID: BB-TT-DUP05-20180918 PFAS Isotope Dilution Method Client Data Laboratory Data Name: Tetra Tech Matrix: OC Water Lab Sample: 1803120-02 Column: BEH C18 Project: Date Collected: 18-Sep-18 12:00 Bethpage Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ **Batch** Extracted Samp Size **CAS Number Qualifiers** Dilution **Analyzed** Analyte **PFBA** 375-22-4 4.57 2.88 5.25 8.42 B8I0206 01-Oct-18 07-Oct-18 14:26 0.119 L **PFPeA** 2706-90-3 3.85 2.88 5.25 8.42 J B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 **PFBS** 8.42 U 375-73-5 ND 2.88 5.25 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 307-24-4 3.85 5.25 **PFHxA** 2.88 8.42 J B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 5.25 U **PFHpA** 375-85-9 ND 2.88 8.42 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 **PFHxS** 355-46-4 ND 2.88 5.25 8.42 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 U 6:2 FTS 27619-97-2 ND 2.88 5.25 8.42 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 **PFOA** 335-67-1 3.32 2.88 5.25 8.42 J B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 375-92-8 ND 2.88 5.25 8.42 U **PFHpS** B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 PFNA 375-95-1 ND 2.88 5.25 8.42 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 **PFOSA** 754-91-6 ND 2.88 5.25 8.42 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 **PFOS** 1763-23-1 2.91 2.88 5.25 8.42 B8I0206 01-Oct-18 0.119 L J 07-Oct-18 14:26 **PFDA** 335-76-2 ND 2.88 5.25 8.42 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 8:2 FTS 39108-34-4 ND 2.88 5.25 8.42 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 MeFOSAA 2355-31-9 ND 2.88 5.25 8.42 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 U **EtFOSAA** 2991-50-6 ND 2.88 5.25 8.42 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 ND 2.88 5.25 8.42 U **PFUnA** 2058-94-8 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 U **PFDS** 335-77-3 ND 2.88 5.25 8.42 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 2.88 8.42 U **PFDoA** 307-55-1 ND 5.25 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 **PFTrDA** 72629-94-8 ND 2.88 5.25 8.42 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 U **PFTeDA** 376-06-7 ND 2.88 5.25 8.42 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 96.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 1 13C3-PFPeA IS 89.0 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 13C3-PFBS IS 89.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 1 IS 97.1 50 - 150 B8I0206 13C2-PFHxA 01-Oct-18 0.119 L 07-Oct-18 14:26 IS 105 13C4-PFHpA 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 IS 18O2-PFHxS 96.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 IS 93.5 50 - 150 13C2-6:2 FTS B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 IS 91.3 13C2-PFOA 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 IS 13C5-PFNA 73.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 IS H 13C8-PFOSA 11.5 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 IS 93.7 50 - 150 13C8-PFOS B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 1 13C2-PFDA IS 63.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 1 13C2-8:2 FTS IS 87.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 14:26 1

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50 - 150

50 - 150

50 - 150

B8I0206

B8I0206

B8I0206

01-Oct-18

01-Oct-18

01-Oct-18

0.119 L

0.119 L

0.119 L

07-Oct-18 14:26

07-Oct-18 14:26

07-Oct-18 14:26

1

d3-MeFOSAA

d5-EtFOSAA

13C2-PFUnA

IS

IS

IS

64.7

70.9

67.5



Sample ID: BP-HN-MW27I-	20180918								PFAS Iso	tope Dilution N	Method
Client Data Name: Tetra Tech Project: Bethpage		Matrix: Date Col		ndwater ep-18 08:55	Lab S	oratory Data Sample: Received:	1803120-0 21-Sep-18		Column:	BEH C18	
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	4.85	2.99	5.48	8.74	J	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFPeA	2706-90-3	5.31	2.99	5.48	8.74	J	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFBS	375-73-5	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFHxA	307-24-4	4.68	2.99	5.48	8.74	J	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFHpA	375-85-9	3.24	2.99	5.48	8.74	J, Q	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFHxS	355-46-4	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
6:2 FTS	27619-97-2	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFOA	335-67-1	4.09	2.99	5.48	8.74	J	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFHpS	375-92-8	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFNA	375-95-1	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFOSA	754-91-6	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFOS	1763-23-1	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFDA	335-76-2	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
8:2 FTS	39108-34-4	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
MeFOSAA	2355-31-9	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
EtFOSAA	2991-50-6	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFUnA	2058-94-8	3.26	2.99	5.48	8.74	J, Q	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFDS	335-77-3	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFDoA	307-55-1	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFTrDA	72629-94-8	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
PFTeDA	376-06-7	ND	2.99	5.48	8.74	U	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
Labeled Standards	Type	% Recovery		Limits		Qualifiers	Batch	Extracted	Samp Size		Dilution
13C3-PFBA	IS	97.1		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C3-PFPeA	IS	86.2		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C3-PFBS	IS	94.0		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C2-PFHxA	IS	93.5		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C4-PFHpA	IS	105		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
18O2-PFHxS	IS	100		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C2-6:2 FTS	IS	93.8		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C2-PFOA	IS	91.9		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C5-PFNA	IS	75.2		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C8-PFOSA	IS	10.6		50 - 150		H	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
		93.6		50 - 150		11	B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
	18			20 120							
13C8-PFOS	IS IS			50 - 150			BXIO206	() _()ct_ X	() 4	() /_()cf_ IX IA·X/	
13C8-PFOS 13C2-PFDA	IS	67.9		50 - 150 50 - 150			B8I0206	01-Oct-18	0.114 L 0.114 L	07-Oct-18 14:37	1
13C8-PFOS 13C2-PFDA 13C2-8:2 FTS	IS IS	67.9 89.5		50 - 150			B8I0206	01-Oct-18	0.114 L	07-Oct-18 14:37	1
13C8-PFOS 13C2-PFDA 13C2-8:2 FTS d3-MeFOSAA d5-EtFOSAA	IS	67.9									1 1 1

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PFAS Isotope Dilution Method Sample ID: BPSI-TT-MW301D-20180918

Client Data

Laboratory Data Lab Sample: Matrix: Groundwater

Name: Tetra Tech Project: Bethpage		Matrix: Date Coll		ep-18 12:10		Sample: Received:	1803120-0 21-Sep-18		Column:	BEH C18	
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	13.3	2.88	5.25	8.42		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
PFPeA	2706-90-3	36.6	2.88	5.25	8.42		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
PFBS	375-73-5	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
PFHxA	307-24-4	25.3	2.88	5.25	8.42		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
PFHpA	375-85-9	15.3	2.88	5.25	8.42		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
PFHxS	355-46-4	3.91	2.88	5.25	8.42	J	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
6:2 FTS	27619-97-2	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
PFOA	335-67-1	13.9	2.88	5.25	8.42		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
PFHpS	375-92-8	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
PFNA	375-95-1	7.92	2.88	5.25	8.42	J	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
PFOSA	754-91-6	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
PFOS	1763-23-1	10.1	2.88	5.25	8.42		B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
PFDA	335-76-2	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
8:2 FTS	39108-34-4	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
MeFOSAA	2355-31-9	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
EtFOSAA	2991-50-6	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
PFUnA	2058-94-8	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
PFDS	335-77-3	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
PFDoA	307-55-1	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
PFTrDA	72629-94-8	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
PFTeDA	376-06-7	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
Labeled Standards	Type	% Recovery		Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	94.1		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
13C3-PFPeA	IS	88.0		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
13C3-PFBS	IS	90.9		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
13C2-PFHxA	IS	90.4		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
13C4-PFHpA	IS	102		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	1
18O2-PFHxS								01 0 4 10	0.119 L	07-Oct-18 14:48	1
	IS	98.4		50 - 150			B8I0206	01-Oct-18	U.119 L	0, 000 10 10	
13C2-6:2 FTS	IS IS	98.4 92.5		50 - 150 50 - 150			B8I0206 B8I0206	01-Oct-18	0.119 L 0.119 L	07-Oct-18 14:48	1
											1 1
13C2-6:2 FTS	IS IS	92.5		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 14:48	
13C2-6:2 FTS 13C2-PFOA	IS	92.5 87.0		50 - 150 50 - 150		H	B8I0206 B8I0206	01-Oct-18 01-Oct-18	0.119 L 0.119 L	07-Oct-18 14:48 07-Oct-18 14:48	1
13C2-6:2 FTS 13C2-PFOA 13C5-PFNA	IS IS IS	92.5 87.0 78.4		50 - 150 50 - 150 50 - 150		H	B8I0206 B8I0206 B8I0206	01-Oct-18 01-Oct-18 01-Oct-18	0.119 L 0.119 L 0.119 L	07-Oct-18 14:48 07-Oct-18 14:48 07-Oct-18 14:48	1 1
13C2-6:2 FTS 13C2-PFOA 13C5-PFNA 13C8-PFOSA	IS IS IS IS	92.5 87.0 78.4 (15.9)		50 - 150 50 - 150 50 - 150 50 - 150		H	B8I0206 B8I0206 B8I0206 B8I0206	01-Oct-18 01-Oct-18 01-Oct-18 01-Oct-18	0.119 L 0.119 L 0.119 L 0.119 L	07-Oct-18 14:48 07-Oct-18 14:48 07-Oct-18 14:48 07-Oct-18 14:48	1 1 1
13C2-6:2 FTS 13C2-PFOA 13C5-PFNA 13C8-PFOSA 13C8-PFOS	IS IS IS IS IS	92.5 87.0 78.4 15.9 90.0		50 - 150 50 - 150 50 - 150 50 - 150 50 - 150		H	B8I0206 B8I0206 B8I0206 B8I0206	01-Oct-18 01-Oct-18 01-Oct-18 01-Oct-18 01-Oct-18	0.119 L 0.119 L 0.119 L 0.119 L 0.119 L	07-Oct-18 14:48 07-Oct-18 14:48 07-Oct-18 14:48 07-Oct-18 14:48 07-Oct-18 14:48	1 1 1
13C2-6:2 FTS 13C2-PFOA 13C5-PFNA 13C8-PFOSA 13C8-PFOS 13C2-PFDA	IS IS IS IS	92.5 87.0 78.4 15.9 90.0 71.0		50 - 150 50 - 150 50 - 150 50 - 150 50 - 150 50 - 150		H	B810206 B810206 B810206 B810206 B810206 B810206	01-Oct-18 01-Oct-18 01-Oct-18 01-Oct-18 01-Oct-18 01-Oct-18	0.119 L 0.119 L 0.119 L 0.119 L 0.119 L 0.119 L	07-Oct-18 14:48 07-Oct-18 14:48 07-Oct-18 14:48 07-Oct-18 14:48 07-Oct-18 14:48 07-Oct-18 14:48	1 1 1 1 1
13C2-6:2 FTS 13C2-PFOA 13C5-PFNA 13C8-PFOSA 13C8-PFOS 13C2-PFDA 13C2-8:2 FTS	IS IS IS IS IS IS IS	92.5 87.0 78.4 15.9 90.0 71.0 90.2		50 - 150 50 - 150 50 - 150 50 - 150 50 - 150 50 - 150 50 - 150		H	B8I0206 B8I0206 B8I0206 B8I0206 B8I0206 B8I0206	01-Oct-18 01-Oct-18 01-Oct-18 01-Oct-18 01-Oct-18 01-Oct-18 01-Oct-18	0.119 L 0.119 L 0.119 L 0.119 L 0.119 L 0.119 L 0.119 L	07-Oct-18 14:48 07-Oct-18 14:48 07-Oct-18 14:48 07-Oct-18 14:48 07-Oct-18 14:48 07-Oct-18 14:48	1 1 1 1 1

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Sample ID: BPSI-TT-MW30	1I-20180918								PFAS Iso	tope Dilution N	Method
Client Data Name: Tetra Tech Project: Bethpage		Matrix: Date Colle		ndwater ep-18 10:40	Lab S	oratory Data Sample: Received:	1803120-0 21-Sep-18		Column:	BEH C18	
Pempage			10 5	ор 10 10.10	Butt	recorred.	21 Sep 10	. 07.07			
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	3.69	2.91	5.30	8.50	J	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	1
PFPeA	2706-90-3	3.65	2.91	5.30	8.50	J	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	1
PFBS	375-73-5	ND	2.91	5.30	8.50	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	1
PFHxA	307-24-4	3.80	2.91	5.30	8.50	J	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	1
PFHpA	375-85-9	2.98	2.91	5.30	8.50	J, <mark>Q</mark>	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	1
PFHxS	355-46-4	ND	2.91	5.30	8.50	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	1
6:2 FTS	27619-97-2	ND	2.91	5.30	8.50	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	1
PFOA	335-67-1	ND	2.91	5.30	8.50	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	1
PFHpS	375-92-8	ND	2.91	5.30	8.50	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	1
PFNA	375-95-1	ND	2.91	5.30	8.50	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	1
PFOSA	754-91-6	ND	2.91	5.30	8.50	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	1
PFOS	1763-23-1	ND	2.91	5.30	8.50	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	1
PFDA	335-76-2	ND	2.91	5.30	8.50	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	1
8:2 FTS	39108-34-4	ND	2.91	5.30	8.50	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
MeFOSAA	2355-31-9	ND	2.91	5.30	8.50	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	1
EtFOSAA	2991-50-6	ND	2.91	5.30	8.50	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
PFUnA	2058-94-8	ND	2.91	5.30	8.50	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
PFDS	335-77-3	ND	2.91	5.30	8.50	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
PFDoA	307-55-1	ND	2.91	5.30	8.50	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
PFTrDA	72629-94-8	ND	2.91	5.30	8.50	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
PFTeDA	376-06-7	ND	2.91	5.30	8.50	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
Labeled Standards	Type	% Recovery		Limits		Qualifiers	Batch	Extracted	Samp Size		Dilution
13C3-PFBA	IS	97.1		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	1
13C3-PFPeA	IS	88.8		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
13C3-PFBS	IS	90.2		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
13C2-PFHxA	IS	94.0		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
13C4-PFHpA	IS	107		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
18O2-PFHxS	IS	98.2		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
13C2-6:2 FTS	IS	93.9		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
13C2-PFOA	IS	89.1		50 - 150				01-Oct-18		07-Oct-18 14:58	
13C5-PFNA	IS	74.0		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
13C8-PFOSA	IS	10.0		50 - 150		H	B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
13C8-PFOS	IS	94.0		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
13C2-PFDA	IS	60.6		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
13C2-8:2 FTS	IS	90.6		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
d3-MeFOSAA	IS	59.4		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
d5-EtFOSAA	IS	64.3		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 14:58	
	10	UT.J		20 - 120			1010200	01 001-10	U.11U L	0/ 001 10 17.30	1

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Sample ID: BP-MH-SW4001-20180918 **PFAS Isotope Dilution Method Client Data Laboratory Data**

Name: Project:	Tetra Tech Bethpage		Matrix: Date Colle		indwater ep-18 12:15		Sample: Received:	1803120-0 21-Sep-18		Column:	BEH C18	
Analyte		CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA		375-22-4	14.4	2.87	5.25	8.38		B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	1
PFPeA		2706-90-3	34.8	2.87	5.25	8.38		B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	1
PFBS		375-73-5	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	
PFHxA		307-24-4	24.4	2.87	5.25	8.38		B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	1
PFHpA		375-85-9	14.7	2.87	5.25	8.38		B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	1
PFHxS		355-46-4	4.62	2.87	5.25	8.38	J, <mark>Q</mark>	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	1
6:2 FTS		27619-97-2	9.64	2.87	5.25	8.38		B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	
PFOA		335-67-1	17.0	2.87	5.25	8.38		B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	1
PFHpS		375-92-8	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	1
PFNA		375-95-1	6.97	2.87	5.25	8.38	J	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	
PFOSA		754-91-6	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	
PFOS		1763-23-1	11.1	2.87	5.25	8.38		B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	
PFDA		335-76-2	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	
8:2 FTS		39108-34-4	4.88	2.87	5.25	8.38	J	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	
MeFOSAA		2355-31-9	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	
EtFOSAA		2991-50-6	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	
PFUnA		2058-94-8	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	
PFDS		335-77-3	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	
PFDoA		307-55-1	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	
PFTrDA		72629-94-8	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	
PFTeDA		376-06-7	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	
Labeled Standar	rds	Туре	% Recovery		Limits		Qualifiers	Batch	Extracted	Samp Size		Dilution
13C3-PFBA		IS	95.9		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09) 1
13C3-PFPeA		IS	86.7		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	1
13C3-PFBS		IS	88.7		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	1
13C2-PFHxA		IS	90.5		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	1
13C4-PFHpA		IS	98.8		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	1
18O2-PFHxS		IS	99.1		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	
13C2-6:2 FTS		IS	91.9		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	1
13C2-PFOA		IS	90.6		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	1
13C5-PFNA		IS	78.7		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	
13C8-PFOSA		IS	10.4		50 - 150		H	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	1
13C8-PFOS		IS	94.5		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	1
13C2-PFDA		IS	70.7		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:09	
								B8I0206	01-Oct-18	0.119 L		
13C2-8:2 FTS		IS	93.5		50 - 150			D010200	01-061-18	U.119 L	07-Oct-18 15:09	
d3-MeFOSAA		IS IS	93.5 70.6		50 - 150 50 - 150			B8I0206	01-Oct-18	0.119 L 0.119 L	07-Oct-18 15:09 07-Oct-18 15:09	
												1

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Sample ID: BP-TT-SW4004-20180918 **PFAS Isotope Dilution Method Client Data** Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-07 Column: BEH C18 Project: Date Collected: Bethpage 18-Sep-18 12:50 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ **Batch** Extracted Samp Size **CAS Number Qualifiers Analyzed** Dilution Analyte U **PFBA** 375-22-4 ND 2.96 5.39 8.64 B8I0206 01-Oct-18 07-Oct-18 15:19 0.116 L **PFPeA** 2706-90-3 ND 2.96 5.39 8.64 U B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 **PFBS** 5.39 U 375-73-5 ND 2.96 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 307-24-4 5.39 0.116 L **PFHxA** 5.44 2.96 8.64 J B8I0206 01-Oct-18 07-Oct-18 15:19 5.39 U **PFHpA** 375-85-9 ND 2.96 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 U **PFHxS** 355-46-4 ND 2.96 5.39 8.64 B8I0206 01-Oct-18 0.116 L07-Oct-18 15:19 5.39 U 6:2 FTS 27619-97-2 ND 2.96 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 **PFOA** U 335-67-1 ND 2.96 5.39 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 375-92-8 5.39 U **PFHpS** ND 2.96 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 PFNA 375-95-1 ND 2.96 5.39 8.64 U B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 1 **PFOSA** 754-91-6 ND 2.96 5.39 8.64 U B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 **PFOS** 1763-23-1 ND 5.39 8.64 U B8I0206 01-Oct-18 0.116 L 2.96 07-Oct-18 15:19 **PFDA** 335-76-2 ND 2.96 5.39 8.64 U B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 8:2 FTS 39108-34-4 ND 5.39 8.64 U B8I0206 01-Oct-18 0.116 L 2.96 07-Oct-18 15:19 MeFOSAA 2355-31-9 ND 2.96 5.39 8.64 U B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 U **EtFOSAA** 2991-50-6 ND 2.96 5.39 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 ND 5.39 U **PFUnA** 2058-94-8 2.96 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 U **PFDS** 335-77-3 ND 2.96 5.39 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 2.96 U **PFDoA** 307-55-1 ND 5.39 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 **PFTrDA** 72629-94-8 ND 2.96 5.39 8.64 U B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 U **PFTeDA** 376-06-7 ND 2.96 5.39 8.64 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 94.4 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 1 13C3-PFPeA IS 90.5 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 13C3-PFBS IS 86.1 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 1 IS 90.1 50 - 150 B8I0206 13C2-PFHxA 01-Oct-18 0.116 L 07-Oct-18 15:19 IS 100 13C4-PFHpA 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 IS 92.3 18O2-PFHxS 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 IS 95.0 50 - 150 13C2-6:2 FTS B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 IS 13C2-PFOA 90.8 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 IS 13C5-PFNA 87.6 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 IS H 13C8-PFOSA 43.9 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 IS 103 50 - 150 13C8-PFOS B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 1 13C2-PFDA IS 72.0 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 13C2-8:2 FTS IS 94.1 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 1 d3-MeFOSAA IS 68.6 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 d5-EtFOSAA IS 76.2 50 - 150 B8I0206 01-Oct-18 0.116 L 07-Oct-18 15:19 1

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50 - 150

B8I0206

01-Oct-18

0.116 L

07-Oct-18 15:19

13C2-PFUnA

IS

80.4



Sample ID: BP-TT-SW4002-20180918 **PFAS Isotope Dilution Method Client Data** Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-08 Column: BEH C18 Project: Date Collected: Bethpage 18-Sep-18 13:20 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ Batch Extracted Samp Size **CAS Number Qualifiers** Dilution **Analyzed** Analyte **PFBA** 375-22-4 12.0 2.94 5.34 8.58 B8I0206 01-Oct-18 07-Oct-18 15:30 0.117 L **PFPeA** 2706-90-3 14.9 2.94 5.34 8.58 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 **PFBS** 5.34 375-73-5 ND 2.94 8.58 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 307-24-4 2.94 5.34 8.58 **PFHxA** 16.2 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 9.37 5.34 **PFHpA** 375-85-9 2.94 8.58 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 8.58 **PFHxS** 355-46-4 ND 2.94 5.34 U B8I0206 01-Oct-18 0.117 L07-Oct-18 15:30 5.34 6:2 FTS 27619-97-2 5.02 2.94 8.58 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 **PFOA** 335-67-1 5.34 11.2 2.94 8.58 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 375-92-8 ND 2.94 5.34 8.58 U B8I0206 **PFHpS** 01-Oct-18 0.117 L 07-Oct-18 15:30 PFNA 375-95-1 4.71 2.94 5.34 8.58 J B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 1 **PFOSA** 754-91-6 ND 2.94 5.34 8.58 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 **PFOS** 1763-23-1 8.40 5.34 8.58 B8I0206 01-Oct-18 0.117 L 2.94 J 07-Oct-18 15:30 **PFDA** 335-76-2 ND 2.94 5.34 8.58 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 8:2 FTS 39108-34-4 5.52 2.94 5.34 8.58 B8I0206 01-Oct-18 0.117 L J 07-Oct-18 15:30 MeFOSAA 2355-31-9 ND 2.94 5.34 8.58 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 U **EtFOSAA** 2991-50-6 ND 2.94 5.34 8.58 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 ND 2.94 5.34 8.58 U **PFUnA** 2058-94-8 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 U **PFDS** 335-77-3 ND 2.94 5.34 8.58 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 2.94 5.34 8.58 U 01-Oct-18 **PFDoA** 307-55-1 ND B8I0206 0.117 L 07-Oct-18 15:30 **PFTrDA** 72629-94-8 ND 2.94 5.34 8.58 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 U **PFTeDA** 376-06-7 ND 2.94 5.34 8.58 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 94.4 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 1 13C3-PFPeA IS 91.6 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 13C3-PFBS IS 86.6 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 1 IS 94.0 50 - 150 B8I0206 13C2-PFHxA 01-Oct-18 0.117 L 07-Oct-18 15:30 IS 106 13C4-PFHpA 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 IS 90.7 18O2-PFHxS 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 IS 89.8 50 - 150 13C2-6:2 FTS B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 IS 13C2-PFOA 96.2 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 IS 13C5-PFNA 82.1 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 IS H 13C8-PFOSA 17.7 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 IS 50 - 150 13C8-PFOS 96.4 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 1 13C2-PFDA IS 66.5 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 13C2-8:2 FTS IS 85.2 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 15:30 1

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50 - 150

50 - 150

50 - 150

B8I0206

B8I0206

B8I0206

01-Oct-18

01-Oct-18

01-Oct-18

0.117 L

0.117 L

0.117 L

07-Oct-18 15:30

07-Oct-18 15:30

07-Oct-18 15:30

1

d3-MeFOSAA

d5-EtFOSAA

13C2-PFUnA

IS

IS

IS

65.3

68.2

73.2



Sample ID: BPSI-TT-MW312I-20180918 PFAS Isotope Dilution Method

Client Data

Name: Tetra Tech Project: Bethnage

Laboratory Data Lab Sample: Matrix: Groundwater

Date Collected: 18-Sep-18 16:00 Date Received

1803120-09 Column: BEH C18 21-Sep-18 09:09

PPPRA 2706-90-3 45.5 2.87 5.25 8.37 U B80026 01-Oct-18 0.119 L 07-Oct-18 15-41 1	Project: Bethpage	Date Collected: 18-Sep-18 16:00 Date Received: 21-Sep-18 09:09											
PPPRA 2706-90-3 45.5 2.87 5.25 8.37 U BRI0206 01-0ct-18 0.119 L 07-0ct-18 15-41 1	Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PEBS 375-73-5 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEHDA 307-244 299 2.87 5.25 8.37 B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEHDA 375-85-9 209 2.87 5.25 8.37 B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEHDA 375-85-9 209 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEDA 335-64-4 3.04 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEDA 335-67-1 16.4 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEHDA 335-67-1 16.4 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEHDA 375-92-8 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEPDA 375-92-8 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEPDA 375-92-8 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEPDA 335-76-2 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEPDA 335-76-2 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEPDA 335-76-2 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEPDA 235-31-9 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEPDA 235-31-9 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEPDA 235-31-9 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEPDA 335-73 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEPDA 335-73 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEPDA 305-51 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEPDA 305-51 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEPDA 305-51 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEPDA 305-51 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEPDA 305-51 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEPDA 305-51 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEPDA 305-51 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEPDA 305-51 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15-41 1 PEPDA 305-5	PFBA	375-22-4	15.1	2.87	5.25	8.37		B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1	
PFHAA 307-244 299 287 5.25 8.37 B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PFHAS 375-85-9 209 2.87 5.25 8.37 B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PFHAS 355-46-4 3.04 2.87 5.25 8.37 U B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PFOA 335-67-1 16.4 2.87 5.25 8.37 U B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PFHA 375-95-1 9.88 2.87 5.25 8.37 U B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PFOA 375-95-1 9.88 2.87 5.25 8.37 U B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PFOA 375-95-1 9.88 2.87 5.25 8.37 U B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PFOA 375-95-1 9.88 2.87 5.25 8.37 U B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PFOA 375-95-1 9.88 2.87 5.25 8.37 U B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PFOA 375-95-1 9.88 2.87 5.25 8.37 U B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PFOA 375-96-2 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PEDA 335-76-2 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PFOA 2.87 2.52 8.37 U B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PFOA 2.87 2.52 8.37 U B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PFOA 2.87 2.52 8.37 U B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PFOA 2.87 2.52 8.37 U B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PFOA 2.87 2.52 8.37 U B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PFOA 307-55-1 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PFOA 375-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PFOA 375-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.1191_ 07-Oct-18 15.41 1 PFOA 375-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0	PFPeA	2706-90-3	45.5	2.87	5.25	8.37		B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1	
PFHDA 375-85-9 20.9 2.87 5.25 8.37 B810206 01-0ct-18 0.119 L 07-0ct-18 15.41 1	PFBS	375-73-5	ND	2.87	5.25	8.37	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1	
PFILS	PFHxA	307-24-4	29.9	2.87	5.25	8.37		B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1	
Capta Capt	PFHpA	375-85-9	20.9	2.87	5.25	8.37		B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1	
PFOA 335-67-1 16.4 2.87 5.25 8.37 B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFNA 375-92-8 ND 2.87 5.25 8.37 U B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFNA 375-91-6 ND 2.87 5.25 8.37 U B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFOSA 754-91-6 ND 2.87 5.25 8.37 U B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFOS 1763-23-1 14.7 2.87 5.25 8.37 U B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFDA 335-76-2 ND 2.87 5.25 8.37 U B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFDA 335-76-2 ND 2.87 5.25 8.37 U B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFDA 335-76-2 ND 2.87 5.25 8.37 U B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFDA 335-76-2 ND 2.87 5.25 8.37 U B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFDA 335-77-3 ND 2.87 5.25 8.37 U B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFDA 2088-94-8 ND 2.87 5.25 8.37 U B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFDA 335-77-3 ND 2.87 5.25 8.37 U B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFDA 335-77-3 ND 2.87 5.25 8.37 U B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFDA 335-77-3 ND 2.87 5.25 8.37 U B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFDA 336-0c-7 ND 2.87 5.25 8.37 U B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFTDA 72629-94-8 ND 2.87 5.25 8.37 U B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFTDA 72629-94-8 ND 2.87 5.25 8.37 U B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFTDA 72629-94-8 ND 2.87 5.25 8.37 U B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFTDA 72629-94-8 ND 2.87 5.25 8.37 U B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFTDA 1363-PFBA 1S 93.8 50-150 B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFT-DA 1362-PFDA 1S 93.8 50-150 B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFT-DA 1362-PFDA 1S 93.8 50-150 B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFT-DA 1362-PFDA 1S 94.1 50-150 B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFT-DA 1362-PFDA 1S 94.1 50-150 B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFT-DA 1362-PFDA 1S 94.1 50-150 B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFT-DA 1362-PFDA 1S 94.1 50-150 B81026 01-Oct-18 0.119 L 07-Oct-18 15.41 1 PFT-DA 1362-PFDA 1S 94.1 50-150 B81026 01-	PFHxS	355-46-4	3.04	2.87	5.25	8.37	J	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1	
PFHS 375-92-8	6:2 FTS	27619-97-2	ND	2.87	5.25	8.37	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1	
PPNA 375-9-1 9.88 2.87 5.25 8.37	PFOA	335-67-1	16.4	2.87	5.25	8.37		B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1	
PFOSA 754-91-6 ND 2.87 5.25 8.37 U B810206 01-0ct-18 0.119 L 07-0ct-18 15:41 1	PFHpS	375-92-8	ND	2.87	5.25	8.37	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1	
PFOS	PFNA	375-95-1	9.88	2.87	5.25	8.37		B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1	
PFDA 335-76-2 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	PFOSA	754-91-6	ND	2.87	5.25	8.37	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1	
PFDA 335-76-2 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	PFOS	1763-23-1			5.25			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1	
Reference	PFDA	335-76-2					U	B8I0206	01-Oct-18	0.119 L			
MeFOSAA 2355-31-9 ND 2.87 5.25 8.37 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	8:2 FTS	39108-34-4	ND	2.87	5.25	8.37	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1	
EFFOSAA 2991-50-6 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PPFUAA 2088-94-8 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PPFDS 335-77-3 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PPFDAA 307-55-1 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PPFTDA 72629-94-8 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PPFTDA 376-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PPFTDA 376-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 PSFTDA 150 150 150 150 150 150 150 150 150 150	MeFOSAA	2355-31-9	ND		5.25	8.37	U	B8I0206	01-Oct-18	0.119 L			
PFURA 2058-94-8 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	EtFOSAA												
PFDS 335-77-3 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	PFUnA												
PFDOA 307-55-1 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	PFDS						U						
PFTrDA 72629-94-8 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	PFDoA						U						
PFTeDA 376-06-7 ND 2.87 5.25 8.37 U B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	PFTrDA	72629-94-8					U						
Labeled Standards Type % Recovery Limits Qualifiers Batch Extracted Samp Size Analyzed Dilution	PFTeDA	376-06-7						B8I0206		0.119 L			
13C3-PFPeA	Labeled Standards						Qualifiers						
13C3-PFBS	13C3-PFBA	IS	93.8		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	. 1	
13C2-PFHxA IS 88.4 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C4-PFHpA IS 97.6 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 18O2-PFHxS IS 92.6 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-6:2 FTS IS 90.7 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFOA IS 91.7 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C5-PFNA IS 81.2 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOSA IS 9.20 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 96.2 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 70.9 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C3-PFPeA	IS	87.7		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	1	
13C2-PFHxA IS 88.4 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C4-PFHpA IS 97.6 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 18O2-PFHxS IS 92.6 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-6:2 FTS IS 90.7 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFOA IS 91.7 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C5-PFNA IS 81.2 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOSA IS 9.20 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 96.2 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 70.9 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C3-PFBS	IS	86.9		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	1	
13C4-PFHpA IS 97.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 18O2-PFHxS IS 92.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-6:2 FTS IS 90.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFOA IS 91.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C5-PFNA IS 81.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOSA IS 9.20 50 - 150 H B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 96.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 70.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-8:2 FTS IS 94.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41	13C2-PFHxA		88.4		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	1	
13C2-6:2 FTS IS 90.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFOA IS 91.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C5-PFNA IS 81.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOSA IS 9.20 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFOS IS 96.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 70.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-8:2 FTS IS 94.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d3-MeFOSAA IS 66.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d5-EtFOSAA IS 67.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C4-PFHpA		97.6		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	1	
13C2-6:2 FTS IS 90.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFOA IS 91.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C5-PFNA IS 81.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOSA IS 9.20 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFOS IS 96.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 70.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-8:2 FTS IS 94.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d3-MeFOSAA IS 66.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d5-EtFOSAA IS 67.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	18O2-PFHxS	IS	92.6		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	1	
13C5-PFNA IS 81.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOSA IS 9.20 50 - 150 H B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOS IS 96.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 70.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-8:2 FTS IS 94.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d3-MeFOSAA IS 66.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d5-EtFOSAA IS 67.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C2-6:2 FTS		90.7		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	1	
13C5-PFNA IS 81.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOSA IS 9.20 50 - 150 H B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOS IS 96.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 70.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-8:2 FTS IS 94.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d3-MeFOSAA IS 66.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d5-EtFOSAA IS 67.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C2-PFOA		91.7					B8I0206	01-Oct-18	0.119 L			
I3C8-PFOSA IS 9.20 50 - 150 H B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C8-PFOS IS 96.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 70.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-8:2 FTS IS 94.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d3-MeFOSAA IS 66.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d5-EtFOSAA IS 67.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C5-PFNA		81.2		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	1	
13C8-PFOS IS 96.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-PFDA IS 70.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-8:2 FTS IS 94.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d3-MeFOSAA IS 66.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d5-EtFOSAA IS 67.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C8-PFOSA						H	B8I0206	01-Oct-18	0.119 L	07-Oct-18 15:41	1	
13C2-PFDA IS 70.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 13C2-8:2 FTS IS 94.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d3-MeFOSAA IS 66.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d5-EtFOSAA IS 67.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C8-PFOS												
13C2-8:2 FTS IS 94.1 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d3-MeFOSAA IS 66.7 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d5-EtFOSAA IS 67.8 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C2-PFDA												
d3-MeFOSAA IS 66.7 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1 d5-EtFOSAA IS 67.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1	13C2-8:2 FTS												
d5-EtFOSAA IS 67.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 15:41 1													
	d5-EtFOSAA												
	13C2-PFUnA	IS	79.6		50 - 150			B8I0206	01-Oct-18	0.119 L			

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Sample ID: BPSI-TT-MW312S-20180918 PFAS Isotope Dilution Method Client Data Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-10 Column: BEH C18 Project: Date Collected: Bethpage 18-Sep-18 15:25 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ Batch Extracted Samp Size **CAS Number Qualifiers Analyzed** Dilution Analyte **PFBA** 375-22-4 20.2 2.99 5.43 8.72 B8I0206 01-Oct-18 07-Oct-18 15:51 0.115 L **PFPeA** 2706-90-3 42.3 2.99 5.43 8.72 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 **PFBS** 5.43 375-73-5 ND 2.99 8.72 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 307-24-4 26.3 5.43 8.72 **PFHxA** 2.99 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 5.43 8.72 **PFHpA** 375-85-9 14.4 2.99 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 8.72 **PFHxS** 355-46-4 3.01 2.99 5.43 J B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 5.43 U 6:2 FTS 27619-97-2 ND 2.99 8.72 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 **PFOA** 335-67-1 5.43 10.3 2.99 8.72 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 375-92-8 ND 2.99 5.43 8.72 U B8I0206 **PFHpS** 01-Oct-18 0.115 L 07-Oct-18 15:51 PFNA 375-95-1 10.6 2.99 5.43 8.72 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 1 **PFOSA** 754-91-6 ND 2.99 5.43 8.72 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 **PFOS** 1763-23-1 9.05 5.43 8.72 B8I0206 01-Oct-18 0.115 L 2.99 07-Oct-18 15:51 1 **PFDA** 335-76-2 ND 2.99 5.43 8.72 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 8:2 FTS 39108-34-4 2.99 5.43 8.72 U B8I0206 01-Oct-18 0.115 L ND 07-Oct-18 15:51 MeFOSAA 2355-31-9 ND 2.99 5.43 8.72 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 **EtFOSAA** 2991-50-6 ND 2.99 5.43 8.72 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 ND 2.99 5.43 8.72 U **PFUnA** 2058-94-8 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 **PFDS** 335-77-3 ND 2.99 5.43 8.72 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 2.99 8.72 U **PFDoA** 307-55-1 ND 5.43 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 **PFTrDA** 72629-94-8 ND 2.99 5.43 8.72 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 U **PFTeDA** 376-06-7 ND 2.99 5.43 8.72 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 96.3 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 1 13C3-PFPeA IS 84.8 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 13C3-PFBS IS 89.7 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 1 IS 90.9 50 - 150 B8I0206 13C2-PFHxA 01-Oct-18 0.115 L 07-Oct-18 15:51 IS 101 13C4-PFHpA 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 IS 18O2-PFHxS 101 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 IS 88.3 50 - 150 13C2-6:2 FTS B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 IS 13C2-PFOA 93.7 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 IS 13C5-PFNA 84.4 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 IS H 13C8-PFOSA 12.9 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 IS 50 - 150 13C8-PFOS 96.2 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 1 13C2-PFDA IS 66.5 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 1 13C2-8:2 FTS IS 92.6 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 1 d3-MeFOSAA IS 67.8 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 d5-EtFOSAA IS 74.7 50 - 150 B8I0206 01-Oct-18 0.115 L 07-Oct-18 15:51 1

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50 - 150

B8I0206

01-Oct-18

0.115 L

07-Oct-18 15:51

13C2-PFUnA

IS

79.2



Sample ID: BPSI-TT-MW310S-20180919 PFAS Isotope Dilution Method Client Data Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-11 Column: BEH C18 Project: Date Collected: Bethpage 19-Sep-18 10:30 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ **Batch** Extracted Samp Size **CAS Number Qualifiers** Dilution **Analyzed** Analyte **PFBA** 375-22-4 8.31 2.86 5.21 8.35 B8I0206 01-Oct-18 07-Oct-18 16:23 0.120 L **PFPeA** 2706-90-3 6.60 5.21 8.35 2.86 J B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 **PFBS** U 375-73-5 ND 2.86 5.21 8.35 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 307-24-4 6.87 5.21 8.35 **PFHxA** 2.86 J B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 5.21 **PFHpA** 375-85-9 10.9 2.86 8.35 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 **PFHxS** 355-46-4 ND 2.86 5.21 8.35 U B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 U 6:2 FTS 27619-97-2 ND 2.86 5.21 8.35 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 **PFOA** 335-67-1 28.9 2.86 5.21 8.35 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 375-92-8 ND 5.21 8.35 U B8I0206 0.120 L **PFHpS** 2.86 01-Oct-18 07-Oct-18 16:23 PFNA 375-95-1 4.59 2.86 5.21 J B8I0206 01-Oct-18 0.120 L 8.35 07-Oct-18 16:23 **PFOSA** 754-91-6 ND 2.86 5.21 8.35 U B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 **PFOS** 1763-23-1 10.8 5.21 8.35 B8I0206 01-Oct-18 0.120 L 2.86 07-Oct-18 16:23 **PFDA** 335-76-2 ND 2.86 5.21 8.35 U B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 8:2 FTS 39108-34-4 2.86 5.21 8.35 U B8I0206 01-Oct-18 0.120 L ND 07-Oct-18 16:23 MeFOSAA 2355-31-9 ND 2.86 5.21 8.35 U 0.120 L B8I0206 01-Oct-18 07-Oct-18 16:23 **EtFOSAA** 2991-50-6 ND 2.86 5.21 8.35 U B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 ND 5.21 8.35 U **PFUnA** 2058-94-8 2.86 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 **PFDS** 335-77-3 ND 2.86 5.21 8.35 U B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 5.21 8.35 U 01-Oct-18 **PFDoA** 307-55-1 ND 2.86 B8I0206 0.120 L 07-Oct-18 16:23 **PFTrDA** 72629-94-8 ND 2.86 5.21 8.35 U B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 U **PFTeDA** 376-06-7 ND 2.86 5.21 8.35 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 96.5 50 - 150 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 1 13C3-PFPeA IS 86.8 50 - 150 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 13C3-PFBS IS 90.2 50 - 150 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 1 IS 92.7 50 - 150 B8I0206 13C2-PFHxA 01-Oct-18 0.120 L 07-Oct-18 16:23 IS 101 13C4-PFHpA 50 - 150 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 IS 18O2-PFHxS 86.8 50 - 150 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 IS 50 - 150 13C2-6:2 FTS 89.4 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 IS 92.2 13C2-PFOA 50 - 150 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 IS 13C5-PFNA 76.9 50 - 150 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 IS H 13C8-PFOSA 14.3 50 - 150 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 IS 92.9 50 - 150 13C8-PFOS B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 1 13C2-PFDA IS 65.7 50 - 150 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 1 13C2-8:2 FTS IS 89.6 50 - 150 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 1 d3-MeFOSAA IS 69.1 50 - 150 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 d5-EtFOSAA IS 76.7 50 - 150 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23 1 13C2-PFUnA IS 76.4 50 - 150 B8I0206 01-Oct-18 0.120 L 07-Oct-18 16:23

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Sample ID: BPSI-TT-MW311S-20180919 Client Data Laboratory Data

Name: Tetra Tech Project: Bethpage Matrix: Groundwater
Date Collected: 19-Sep-18 11:10

Laboratory DataLab Sample: 1803120-12

Date Received: 21-Sep-18 09:09

Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	9.88	2.89	5.30	8.45		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
PFPeA	2706-90-3	13.8	2.89	5.30	8.45		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
PFBS	375-73-5	ND	2.89	5.30	8.45	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
PFHxA	307-24-4	13.3	2.89	5.30	8.45		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
PFHpA	375-85-9	7.09	2.89	5.30	8.45	J	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
PFHxS	355-46-4	ND	2.89	5.30	8.45	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
6:2 FTS	27619-97-2	ND	2.89	5.30	8.45	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
PFOA	335-67-1	2.96	2.89	5.30	8.45	J	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
PFHpS	375-92-8	ND	2.89	5.30	8.45	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
PFNA	375-95-1	ND	2.89	5.30	8.45	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
PFOSA	754-91-6	ND	2.89	5.30	8.45	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
PFOS	1763-23-1	ND	2.89	5.30	8.45	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
PFDA	335-76-2	ND	2.89	5.30	8.45	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
8:2 FTS	39108-34-4	ND	2.89	5.30	8.45	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
MeFOSAA	2355-31-9	ND	2.89	5.30	8.45	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
EtFOSAA	2991-50-6	ND	2.89	5.30	8.45	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
PFUnA	2058-94-8	ND	2.89	5.30	8.45	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
PFDS	335-77-3	ND	2.89	5.30	8.45	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
PFDoA	307-55-1	ND	2.89	5.30	8.45	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
PFTrDA	72629-94-8	ND	2.89	5.30	8.45	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
PFTeDA	376-06-7	ND	2.89	5.30	8.45	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
Labeled Standards	Type	% Recovery	•	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution

Labeled Standards	Туре	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	96.1	50 - 150		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
13C3-PFPeA	IS	90.7	50 - 150		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
13C3-PFBS	IS	88.0	50 - 150		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
13C2-PFHxA	IS	88.4	50 - 150		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	. 1
13C4-PFHpA	IS	99.4	50 - 150		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
18O2-PFHxS	IS	89.7	50 - 150		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
13C2-6:2 FTS	IS	92.7	50 - 150		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
13C2-PFOA	IS	89.9	50 - 150		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
13C5-PFNA	IS	84.4	50 - 150		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
13C8-PFOSA	IS	11.2	50 - 150	H	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
13C8-PFOS	IS	94.9	50 - 150		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
13C2-PFDA	IS	73.9	50 - 150		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
13C2-8:2 FTS	IS	88.3	50 - 150		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
d3-MeFOSAA	IS	73.3	50 - 150		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
d5-EtFOSAA	IS	76.0	50 - 150		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1
13C2-PFUnA	IS	78.6	50 - 150		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:34	1

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Sample ID: BPSI-TT-MW311I-20180919 PFAS Isotope Dilution Method Client Data **Laboratory Data** Lab Sample: Tetra Tech Matrix: Name: Groundwater 1803120-13 Column: BEH C18

Name. Tetta Tech		Mauix.		iiiuwatei		Sample.	1003120-		Column:	BEH C18	
Project: Bethpage		Date Col	lected: 19-S	ep-18 11:10	Date	e Received:	21-Sep-18	3 09:09			
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	14.7	2.91	5.30	8.49		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	1
PFPeA	2706-90-3	13.9	2.91	5.30	8.49		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	1
PFBS	375-73-5	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	1
PFHxA	307-24-4	14.6	2.91	5.30	8.49		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	1
PFHpA	375-85-9	10.2	2.91	5.30	8.49		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	1
PFHxS	355-46-4	7.11	2.91	5.30	8.49	J	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	1
6:2 FTS	27619-97-2	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	1
PFOA	335-67-1	12.2	2.91	5.30	8.49		B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	1
PFHpS	375-92-8	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	1 1
PFNA	375-95-1	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	1
PFOSA	754-91-6	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
PFOS	1763-23-1	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
PFDA	335-76-2	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
8:2 FTS	39108-34-4	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
MeFOSAA	2355-31-9	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
EtFOSAA	2991-50-6	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
PFUnA	2058-94-8	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
PFDS	335-77-3	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
PFDoA	307-55-1	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
PFTrDA	72629-94-8	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
PFTeDA	376-06-7	ND	2.91	5.30	8.49	U	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
Labeled Standards	Type	% Recovery		Limits		Qualifiers	Batch	Extracted		Analyzed	Dilution
13C3-PFBA	IS	94.5		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	1
13C3-PFPeA	IS	88.6		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C3-PFBS	IS	90.7		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C2-PFHxA	IS	91.1		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C4-PFHpA	IS	104		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
18O2-PFHxS	IS	84.2		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C2-6:2 FTS	IS	88.5		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C2-PFOA	IS	92.7		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C5-PFNA	IS	80.7		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C8-PFOSA	IS	15.8		50 - 150		H	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C8-PFOS	IS	99.2		50 - 150		11	B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C2-PFDA	IS	65.8		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C2-8:2 FTS	IS	99.3		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
d3-MeFOSAA	IS	63.2		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
d5-EtFOSAA	IS	72.2		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C2-PFUnA	IS	72.6		50 - 150			B8I0206	01-Oct-18	0.118 L	07-Oct-18 16:44	
13C2-11 UIIA	13	12.0		30 - 130			D010200	01-001-10	0.116 L	07-001-10 10.44	1

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Sample ID: BPSI-TT-MW314S-20180919 PFAS Isotope Dilution Method Client Data Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-14 Column: BEH C18 Project: Date Collected: Bethpage 19-Sep-18 14:40 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ Batch Extracted Samp Size **CAS Number Qualifiers** Dilution **Analyzed** Analyte **PFBA** 375-22-4 9.79 2.92 5.34 8.53 B8I0206 01-Oct-18 07-Oct-18 16:55 0.117 L **PFPeA** 2706-90-3 18.7 2.92 5.34 8.53 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 **PFBS** 5.34 375-73-5 ND 2.92 8.53 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 307-24-4 2.92 5.34 8.53 **PFHxA** 13.4 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 5.34 **PFHpA** 375-85-9 37.4 2.92 8.53 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 2.92 8.53 U **PFHxS** 355-46-4 ND 5.34 B8I0206 01-Oct-18 0.117 L07-Oct-18 16:55 5.34 6:2 FTS 27619-97-2 3.75 2.92 8.53 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 **PFOA** 335-67-1 98.8 5.34 2.92 8.53 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 375-92-8 2.92 5.34 8.53 U B8I0206 **PFHpS** ND 01-Oct-18 0.117 L 07-Oct-18 16:55 PFNA 375-95-1 ND 2.92 5.34 8.53 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 **PFOSA** 754-91-6 ND 2.92 5.34 8.53 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 **PFOS** 1763-23-1 ND 2.92 5.34 8.53 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 **PFDA** 335-76-2 ND 2.92 5.34 8.53 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 8:2 FTS 39108-34-4 ND 2.92 5.34 8.53 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 MeFOSAA 2355-31-9 ND 2.92 5.34 8.53 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 U **EtFOSAA** 2991-50-6 ND 2.92 5.34 8.53 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 ND 2.92 5.34 8.53 U **PFUnA** 2058-94-8 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 U **PFDS** 335-77-3 ND 2.92 5.34 8.53 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 2.92 5.34 8.53 U 01-Oct-18 **PFDoA** 307-55-1 ND B8I0206 0.117 L 07-Oct-18 16:55 **PFTrDA** 72629-94-8 ND 2.92 5.34 8.53 U B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 U **PFTeDA** 376-06-7 ND 2.92 5.34 8.53 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 94.9 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 1 13C3-PFPeA IS 85.6 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 13C3-PFBS IS 91.6 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 1 IS 91.5 50 - 150 B8I0206 13C2-PFHxA 01-Oct-18 0.117 L 07-Oct-18 16:55 IS 102 13C4-PFHpA 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 IS 18O2-PFHxS 88.5 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 IS 88.5 50 - 150 13C2-6:2 FTS B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 IS 95.4 13C2-PFOA 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55 IS 13C5-PFNA 81.0 50 - 150 B8I0206 01-Oct-18 0.117 L 07-Oct-18 16:55

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50 - 150

50 - 150

50 - 150

50 - 150

50 - 150

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50 - 150

H

B8I0206

B8I0206

B8I0206

B8I0206

B8I0206

B8I0206

B8I0206

01-Oct-18

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0.117 L

07-Oct-18 16:55

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1

IS

IS

IS

IS

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IS

IS

27.7

91.3

74.2

87.7

68.9

73.0

78.4

13C8-PFOSA

13C8-PFOS

13C2-PFDA

13C2-8:2 FTS

d3-MeFOSAA

d5-EtFOSAA

13C2-PFUnA



Sample ID: BPSI-TT-MW314D-20180919 PFAS Isotope Dilution Method

Client Data

Laboratory Data
Lab Sample:

PFPCA 2706-90-3	Name: Tetra Tech Project: Bethpage		Matrix: Date Coll		ndwater ep-18 16:20		Sample: Received:	1803120-1 21-Sep-18		Column:	BEH C18	
PFPEA	Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFPCA 2706-90-3 44.7 2.87 5.25 8.38 B810206 01-Oct-18 0.119 0.7-Oct-18 17-06 1	PFBA	375-22-4	14.2	2.87	5.25	8.38		B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	1
PFHAA 307-24-4 28.9 2.87 5.25 8.38 B81020 01-Oct-18 0.119 0.7-Oct-18 17.06 1	PFPeA	2706-90-3	44.7			8.38		B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	1
PFHAC 375-85-9 15.9 2.87 5.25 8.38 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1	PFBS	375-73-5	ND	2.87	5.25	8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	1
PFINS 355-46-4 3.43 2.87 5.25 8.38 J B810206 01-Oct-18 0.119 L 07-Oct-18 17:06 1	PFHxA	307-24-4	28.9		5.25			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	1
PFINS 355-46-4 3.43 2.87 5.25 8.38 J B810206 01-Oct-18 0.119 L 07-Oct-18 17:06 1	PFHpA	375-85-9	15.9		5.25	8.38		B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	1
PFOA 335-67-1 14.8 2.87 5.25 8.38 B810206 01-Oct-18 0.119 L 07-Oct-18 17-06 1	PFHxS						J	B8I0206				
PFHS 375-92-8 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 PFOSA 754-91-6 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 PFOSA 754-91-6 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 PFOSA 754-91-6 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 PFOSA 355-76-2 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R2 PFOA 355-76-2 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R2 PFOA 355-76-2 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R2 PFOA 355-76-2 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R2 PFOA 355-76-2 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R2 PFOA 355-71-9 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R2 PFOA 355-71-9 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R2 PFOA 355-71-9 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R2 PFOA 307-55-1 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R2 PFOA 307-60-7 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R2 PFOA 307-60-7 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R2 PFOA 307-60-7 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R2 PFOA 307-60-7 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R2 PFOA 307-60-7 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R2 PFOA 307-60-7 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R3 PFOA 307-60-7 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R3 PFOA 307-60-7 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R3 PFOA 307-60-7 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R3 PFOA 307-60-7 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R3 PFOA 307-60-7 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R3 PFOA 307-60-7 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 R3 PFOA 307-60-7 ND 2.87 5.25 8.38 U 880206 01-Oct-18 0.	6:2 FTS	27619-97-2				8.38	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	1
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Labeled Standards Type % Recovery Limits Qualifiers Batch Extracted Samp Size Analyzed Dilution												
13C3-PFPeA							Qualifiers					
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13C2-PFOA IS 93.9 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 13C5-PFNA IS 79.5 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 13C8-PFOSA IS 12.0 50 - 150 H B810206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 13C8-PFOSA IS 91.6 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 13C2-PFDA IS 69.1 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 13C2-8:2 FTS IS 84.3 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 d3-MeFOSAA IS 66.3 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 d5-EtFOSAA IS 75.0 50 - 150 B810206 01-Oct-18 0.119 L 07-Oct-18 17:06 1	13C2-6:2 FTS		91.5					B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	1
13C5-PFNA IS 79.5 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 13C8-PFOSA IS 12.0 50 - 150 H B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 13C8-PFOS IS 91.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 13C2-PFDA IS 69.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 13C2-8:2 FTS IS 84.3 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 d3-MeFOSAA IS 66.3 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 d5-EtFOSAA IS 75.0 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1	13C2-PFOA		93.9		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:06	1
13C8-PFOSA IS 12.0 50 - 150 H B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 13C8-PFOS IS 91.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 13C2-PFDA IS 69.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 13C2-8:2 FTS IS 84.3 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 d3-MeFOSAA IS 66.3 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 d5-EtFOSAA IS 75.0 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1												
13C8-PFOS IS 91.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 13C2-PFDA IS 69.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 13C2-8:2 FTS IS 84.3 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 d3-MeFOSAA IS 66.3 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 d5-EtFOSAA IS 75.0 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1	13C8-PFOSA						H	B8I0206	01-Oct-18	0.119 L		
13C2-PFDA IS 69.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 13C2-8:2 FTS IS 84.3 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 d3-MeFOSAA IS 66.3 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 d5-EtFOSAA IS 75.0 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1												
13C2-8:2 FTS IS 84.3 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 d3-MeFOSAA IS 66.3 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 d5-EtFOSAA IS 75.0 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1	13C2-PFDA											
d3-MeFOSAA IS 66.3 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1 d5-EtFOSAA IS 75.0 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1												
d5-EtFOSAA IS 75.0 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:06 1												

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Sample ID: BP-TT-EB03-20180919 PFAS Isotope Dilution Method

Client Data

Name: Tetra Tech Matrix: Aqueous **Laboratory Data**

Lab Sample: 1803120-16

Column: BEH C18

rame. Tetta Teen		Matrix.	7 Iqui			sample.	1003120-		Column.	BEH C18	
Project: Bethpage		Date Col	lected: 19-S	ep-18 15:00	Date	Received:	21-Sep-18	3 09:09			
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFPeA	2706-90-3	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFBS	375-73-5	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFHxA	307-24-4	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFHpA	375-85-9	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFHxS	355-46-4	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
6:2 FTS	27619-97-2	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFOA	335-67-1	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFHpS	375-92-8	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFNA	375-95-1	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	5 1
PFOSA	754-91-6	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFOS	1763-23-1	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
PFDA	335-76-2	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
8:2 FTS	39108-34-4	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
MeFOSAA	2355-31-9	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
EtFOSAA	2991-50-6	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
PFUnA	2058-94-8	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
PFDS	335-77-3	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
PFDoA	307-55-1	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
PFTrDA	72629-94-8	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
PFTeDA	376-06-7	ND	2.88	5.25	8.42	U	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
Labeled Standards	Type	% Recovery		Limits		Qualifiers	Batch	Extracted		Analyzed	Dilution
13C3-PFBA	IS	94.7		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
13C3-PFPeA	IS	83.2		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
13C3-PFBS	IS	91.4		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	5 1
13C2-PFHxA	IS	91.4		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	1
13C4-PFHpA	IS	105		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
18O2-PFHxS	IS	84.2		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
13C2-6:2 FTS	IS	95.1		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	5 1
13C2-PFOA	IS	91.3		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
13C5-PFNA	IS	80.4		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
13C8-PFOSA	IS	14.8		50 - 150		H	B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
13C8-PFOS	IS	96.9		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
13C2-PFDA	IS	68.7		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
13C2-8:2 FTS	IS	91.8		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
d3-MeFOSAA	IS	63.6		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
d5-EtFOSAA	IS	65.0		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
13C2-PFUnA	IS	73.5		50 - 150			B8I0206	01-Oct-18	0.119 L	07-Oct-18 17:16	
	10	73.3		23 120			2010200	0. 000 10	V17 L	3, 300 10 17.10	•

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Sample ID: BPSI-TT-MW313S-2018020 PFAS Isotope Dilution Method Client Data Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-17 Column: BEH C18 Project: Date Collected: 20-Sep-18 09:45 Date Received: Bethpage 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ **Batch** Extracted Samp Size **CAS Number Qualifiers** Analyzed Dilution Analyte **PFBA** 375-22-4 17.5 2.97 5.43 8.67 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 **PFPeA** 2706-90-3 44.4 2.97 5.43 8.67 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 **PFBS** 375-73-5 ND 2.97 5.43 8.67 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 5.43 **PFHxA** 307-24-4 27.5 2.97 8.67 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 **PFHpA** 375-85-9 18.2 2.97 5.43 8.67 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 **PFHxS** 355-46-4 ND 2.97 5.43 8.67 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 U 6:2 FTS 27619-97-2 ND 2.97 5.43 8.67 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 **PFOA** 335-67-1 7.98 2.97 5.43 8.67 J B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 1 **PFHpS** 375-92-8 ND 2.97 5.43 8.67 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 375-95-1 3.87 5.43 B8I0206 01-Oct-18 0.115 L PFNA 2.97 8.67 J 07-Oct-18 17:33 1 **PFOSA** 754-91-6 ND 2.97 5.43 8.67 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 **PFOS** 1763-23-1 5.43 B8I0206 5.77 2.97 8.67 J 01-Oct-18 0.115 L 07-Oct-18 17:33 1 **PFDA** 335-76-2 ND 2.97 5.43 8.67 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 8:2 FTS 39108-34-4 5.43 B8I0206 01-Oct-18 0.115 L ND 2.97 8.67 U 07-Oct-18 17:33 1 MeFOSAA ND 2.97 5.43 U 2355-31-9 8.67 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 **EtFOSAA** 2991-50-6 ND 2.97 5.43 8.67 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 2.97 U **PFUnA** 2058-94-8 ND 5.43 8.67 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 PFDS 335-77-3 ND 2.97 5.43 8.67 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 2.97 U PFDoA 307-55-1 ND 5.43 8.67 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 **PFTrDA** 72629-94-8 ND 2.97 5.43 8.67 U B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 5.43 U **PFTeDA** 376-06-7 ND 2.97 8.67 B8I0206 01-Oct-18 0.115 L 07-Oct-18 17:33 Labeled Standards Tyne Limite Extracted Samn Size Dilution Qualifiers Ratch Analyzed % Decovery

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzea	Dilution
13C3-PFBA	IS	94.5	50 - 150		B8I0206	01-Oct-18	0.115 L	07-Oct-18 17:33	1
13C3-PFPeA	IS	85.7	50 - 150		B8I0206	01-Oct-18	0.115 L	07-Oct-18 17:33	1
13C3-PFBS	IS	89.8	50 - 150		B8I0206	01-Oct-18	0.115 L	07-Oct-18 17:33	1
13C2-PFHxA	IS	92.7	50 - 150		B8I0206	01-Oct-18	0.115 L	07-Oct-18 17:33	1
13C4-PFHpA	IS	102	50 - 150		B8I0206	01-Oct-18	0.115 L	07-Oct-18 17:33	1
18O2-PFHxS	IS	84.2	50 - 150		B8I0206	01-Oct-18	0.115 L	07-Oct-18 17:33	1
13C2-6:2 FTS	IS	82.3	50 - 150		B8I0206	01-Oct-18	0.115 L	07-Oct-18 17:33	1
13C2-PFOA	IS	91.5	50 - 150		B8I0206	01-Oct-18	0.115 L	07-Oct-18 17:33	1
13C5-PFNA	IS	79.7	50 - 150		B8I0206	01-Oct-18	0.115 L	07-Oct-18 17:33	1
13C8-PFOSA	(IS)	11.9	50 - 150	H	B8I0206	01-Oct-18	0.115 L	07-Oct-18 17:33	1
13C8-PFOS	IS	89.2	50 - 150		B8I0206	01-Oct-18	0.115 L	07-Oct-18 17:33	1
13C2-PFDA	IS	68.4	50 - 150		B8I0206	01-Oct-18	0.115 L	07-Oct-18 17:33	1
13C2-8:2 FTS	IS	92.7	50 - 150		B8I0206	01-Oct-18	0.115 L	07-Oct-18 17:33	1
d3-MeFOSAA	IS	61.2	50 - 150		B8I0206	01-Oct-18	0.115 L	07-Oct-18 17:33	1
d5-EtFOSAA	IS	67.2	50 - 150		B8I0206	01-Oct-18	0.115 L	07-Oct-18 17:33	1
13C2-PFUnA	IS	77.3	50 - 150		B8I0206	01-Oct-18	0.115 L	07-Oct-18 17:33	1

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Sample ID: BB-TT-DUP06-20180920 PFAS Isotope Dilution Method Client Data Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-18 Column: BEH C18 Project: Date Collected: Bethpage 20-Sep-18 12:00 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ Batch Extracted Samp Size **CAS Number Qualifiers** Dilution **Analyzed** Analyte **PFBA** 375-22-4 17.5 2.87 5.25 8.37 B8I0206 01-Oct-18 07-Oct-18 17:43 0.119 L **PFPeA** 2706-90-3 44.5 2.87 5.25 8.37 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 **PFBS** ND 5.25 375-73-5 2.87 8.37 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 307-24-4 2.87 5.25 8.37 **PFHxA** 27.7 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 5.25 **PFHpA** 375-85-9 18.5 2.87 8.37 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 U **PFHxS** 355-46-4 ND 2.87 5.25 8.37 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 U 6:2 FTS 27619-97-2 ND 2.87 5.25 8.37 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 **PFOA** 335-67-1 7.40 2.87 5.25 8.37 J B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 375-92-8 2.87 5.25 8.37 B8I0206 **PFHpS** ND U 01-Oct-18 0.119 L 07-Oct-18 17:43 PFNA 375-95-1 3.75 2.87 5.25 B8I0206 01-Oct-18 0.119 L 8.37 J 07-Oct-18 17:43 1 **PFOSA** 754-91-6 ND 2.87 5.25 8.37 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 **PFOS** 1763-23-1 6.27 2.87 5.25 8.37 B8I0206 01-Oct-18 0.119 L J 07-Oct-18 17:43 **PFDA** 335-76-2 ND 2.87 5.25 8.37 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 8:2 FTS 39108-34-4 2.87 5.25 8.37 U B8I0206 01-Oct-18 0.119 L ND 07-Oct-18 17:43 MeFOSAA 2355-31-9 ND 2.87 5.25 8.37 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 U **EtFOSAA** 2991-50-6 ND 2.87 5.25 8.37 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 ND 2.87 5.25 8.37 U **PFUnA** 2058-94-8 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 **PFDS** 335-77-3 ND 2.87 5.25 8.37 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 2.87 8.37 U 01-Oct-18 **PFDoA** 307-55-1 ND 5.25 B8I0206 0.119 L 07-Oct-18 17:43 **PFTrDA** 72629-94-8 ND 2.87 5.25 8.37 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 U **PFTeDA** 376-06-7 ND 2.87 5.25 8.37 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 95.5 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 1 13C3-PFPeA IS 84.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 13C3-PFBS IS 92.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 1 IS 92.3 50 - 150 B8I0206 13C2-PFHxA 01-Oct-18 0.119 L 07-Oct-18 17:43 IS 103 13C4-PFHpA 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 IS 18O2-PFHxS 85.5 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 IS 65.9 50 - 150 13C2-6:2 FTS B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 IS 13C2-PFOA 93.0 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 IS 13C5-PFNA 78.3 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 IS H 13C8-PFOSA 10.3 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 IS 92.7 50 - 150 13C8-PFOS B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 1 13C2-PFDA IS 63.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 1 13C2-8:2 FTS IS 73.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 1 d3-MeFOSAA IS 53.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 d5-EtFOSAA IS 56.4 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43 1 13C2-PFUnA IS 72.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:43

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Sample ID: BPSI-TT-MW307D-2018020 PFAS Isotope Dilution Method Client Data Laboratory Data Name: Tetra Tech Matrix: Groundwater Lab Sample: 1803120-19 Column: BEH C18 Project: Date Collected: Bethpage 20-Sep-18 15:20 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ **Batch** Extracted Samp Size **CAS Number Qualifiers** Dilution **Analyzed** Analyte **PFBA** 375-22-4 4.06 2.87 5.25 8.39 B8I0206 01-Oct-18 07-Oct-18 17:54 0.119 L **PFPeA** 2706-90-3 9.74 2.87 5.25 8.39 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 **PFBS** 5.25 375-73-5 ND 2.87 8.39 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 307-24-4 6.36 2.87 5.25 8.39 J **PFHxA** B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 5.25 J. O **PFHpA** 375-85-9 5.09 2.87 8.39 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 **PFHxS** 355-46-4 ND 2.87 5.25 8.39 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 U 6:2 FTS 27619-97-2 ND 2.87 5.25 8.39 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 **PFOA** 335-67-1 8.89 2.87 5.25 8.39 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 375-92-8 2.87 5.25 8.39 U B8I0206 **PFHpS** ND 01-Oct-18 0.119 L 07-Oct-18 17:54 PFNA 375-95-1 3.33 2.87 5.25 8.39 J B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 1 **PFOSA** 754-91-6 ND 2.87 5.25 8.39 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 **PFOS** 1763-23-1 7.15 2.87 5.25 8.39 J, Q B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 **PFDA** 335-76-2 3.09 2.87 5.25 8.39 J B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 8:2 FTS 39108-34-4 ND 2.87 5.25 8.39 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 MeFOSAA 2355-31-9 ND 2.87 5.25 8.39 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 U **EtFOSAA** 2991-50-6 ND 2.87 5.25 8.39 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 ND 2.87 5.25 8.39 U **PFUnA** 2058-94-8 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 U **PFDS** 335-77-3 ND 2.87 5.25 8.39 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 2.87 8.39 U **PFDoA** 307-55-1 ND 5.25 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 **PFTrDA** 72629-94-8 ND 2.87 5.25 8.39 U B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 U **PFTeDA** 376-06-7 ND 2.87 5.25 8.39 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 98.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 1 13C3-PFPeA IS 90.9 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 13C3-PFBS IS 92.1 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 1 IS 97.3 50 - 150 B8I0206 13C2-PFHxA 01-Oct-18 0.119 L 07-Oct-18 17:54 IS 104 13C4-PFHpA 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 IS 18O2-PFHxS 85.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 IS 50 - 150 13C2-6:2 FTS 64.2 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 IS 13C2-PFOA 96.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 IS 13C5-PFNA 84.3 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 IS H 13C8-PFOSA 10.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 IS 92.9 50 - 150 13C8-PFOS B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 1 13C2-PFDA IS 71.2 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 13C2-8:2 FTS IS 71.4 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 1 d3-MeFOSAA IS 55.6 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 d5-EtFOSAA IS 59.3 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54 1 13C2-PFUnA IS 76.8 50 - 150 B8I0206 01-Oct-18 0.119 L 07-Oct-18 17:54

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Appendix C

Support Documents

B. Chain of Custody (COC)

SDG: 1803120 8

Chain of Custody Record

Vista opoc 1104 Windfield Way 803120 El Dorado Hills, CA 95762 (916) 673-1520 • Fax (916)673-0106 □RCRA. Regulatory Program: DW ☑Dther: Vista Analytical Laboratory Client Contact Project Manager: David Brayack Site Contact: Chuck Meyer COC No: TetraTech Tel/Fax: (757) 466-4909 Lab Contact: Jade White Page 1 of 1 Carrier: FedEx 5700 Lake Wright Dr Suite 102 Analysis Turnaround Time Chuck Meyer CALENDAR DAYS Norfolk, VA 23502 ☐WORKING DAYS For Lab Use Only: (757) 466-4909 PFAS (NYSDEC 21-Compo List) EPA 537 Modified TAT if different from Below 21 Walk-in Client 2 weeks Lab Sampling: Project Name: Bethpage 1 week 03 2 days Job / SDG No. 3)# PO# 1 day Type Sample Sample Sample Identification Date Time G=Grab) Matrix Cont. Sample Specific Notes: BP-TT-FRB08-20180918 9/18/2018 7:30 G QC 2 X Field Reagent Blank BPSI-TT-MW301S-20180918 9/18/2018 10:45 G GW 2 X BB-TT-DUP05-20180918 9/18/2018 Χ 12:00 G QC 2 Duplicate BP-HN-MW27I-20180918 9/18/2018 8:55 G 2 X GW BPSI-TT-MW301D-20180918 9/18/2018 X 12:10 G GW 2 BPSI-TT-MW301I-20180918 9/18/2018 10:40 G GW 2 X BP-MH-SW4001-20180918 9/18/2018 2 X 12:15 G GW BP-TT-SW4004-20180918 X 9/18/2018 12:50 G GW 2 BP-TT-SW4002-20180918 9/18/2018 13:20 G GW 2 X BPSI-TT-MW312I-20180918 9/18/2018 16:00 2 X G GW BPSI-TT-MW312S-20180918 9/18/2018 15:25 G GW 2 X BP-TT-FRB09-20180919 9/19/2019 9:30 G QC 2 X Field Reagent Blank BPSI-TT-MW310S-20180919 9/19/2018 10:30 G 2 X GW BPSI-TT-MW311S-20180919 9/19/2018 11:10 G GW 2 X BPSI-TT-MW311I-20180919 9/19/2018 6 X 11:10 G GW BPSI-TT-MW314S-20180919 9/19/2018 14:40 G GW 2 X BPSI-TT-MW314D-20180919 9/19/2018 X 16:20 G GW 2 BP-TT-EB03-20180919 9/19/2018 15:00 G AQ 2 X BPSI-TT-MW313S-2018020 9/20/2018 9:45 G GW 2 X BB-TT-DUP06-20180920 9/20/2018 12:00 GW 2 X G Duplicate BP-TT-FRB10-20180920 920/2019 9:30 G QC 2 X Field Reagent Blank BPSI-TT-MW307D-2018020 920/2019 15:20 G GW 2 X Total # Containers 48 Preservation Used: 1= lce, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other: Trizma Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) 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. LPoison B 1 Unknown Parchive for ☑Non-Hazard CReturn to Client Months Disposal by Lab Fed Ex Tracking: 7732 8315 7719 Custody Seals Intact: ☐ Yes Cooler Temp. (°C): Obs'd: Corr'd: П № Custody Seal No .: Therm ID No. Company: Date/Time:15.30 Company: // Tetra Tech Relinguished by: Company: Date/Time: Company: Date/Time: Relinquished by: Company: Date/Time: Received in Laboratory by: Company: Date/Time:

Vista Analytical Laboratory

Appendix C

Support Documents

C. Calculations for Stage 4

SDG: 1803120 9

PFAS Calculations for SDG 1803120

INITIAL CALIBRATION

 $RF = \frac{Ac}{Ais} X \frac{Cis}{Cc}$ Ac = **PFBA** Ais = **13C3-PFBA**

Level	Ac	Ais	Conc. Is	Conc. C	RRF _{calc}
1	237.918	7528.36	12.5	0.250	1.5801
2	384.99	7394.414	12.5	0.500	1.3016
3	725.115	7353.266	12.5	1.000	1.2326
4	1552.302	7493.144	12.5	2.000	1.2948
5	3473.282	7482.005	12.5	5.000	1.1605
6	7296.688	7395.047	12.5	10.000	1.2334
7	37437.25	7795.221	12.5	50.000	1.2006
8	70356.43	7420.866	12.5	100.000	1.1851
9	189610.094	7118.04	12.5	250.000	1.3319
10	384033.688	7244.262	12.5	500.000	1.3253
				AVG RRF =	1.2846

SAMPLE QUANTITATION

Sample ID: BPSI-TT-MW301S-20180918

Laboratory ID: 1803120 Compound: PFBA

AREA c	AREA istd	CONC istd	Avg RF	Vo	Vs	DL
351	7550	12.5	1.2846	1	0.113	1

Calculated Conc	Reported Conc	%D	istd %R
4.07	4.12	-1.20	98.7

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	1803120 SITE 00001	SITE 00001	BP-MH-SW4001	Surface water body - nonspecific	1125361.861	215372.779	N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-MH-SW4001-20180918	Ground water	Normal (Regular)	18-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC BETHPAGE_NWIRP	1803120 SITE 00001	SITE 00001	BP-TT-SW4002	Surface water body - nonspecific	1125242.847	215038.8825	N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-TT-SW4002-20180918	Ground water	Normal (Regular)	18-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC BETHPAGE_NWIRP	1803120 SITE 00001	SITE 00001	BP-TT-SW4002	Surface water body - nonspecific	1125242.847	215038.8825	N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-TT-SW4004-20180918	Ground water	Normal (Regular)	18-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC BETHPAGE_NWIRP	1803120						N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-TT-EB03-20180919	Water for QC samples	Equipment blank	19-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC BETHPAGE_NWIRP	1803120 SITE 00001	SITE 00001	BPHNMW27I	Monitoring well	1124951.944	214408.498	N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-HN-MW27I-20180918	Ground water	Normal (Regular)	18-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC BETHPAGE_NWIRP	1803120 SITE 00001	SITE 00001	BPS1-TT-MW301D	Monitoring well	1124880.908	214562.648	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW301D-20180918	Ground water	Normal (Regular)	18-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC BETHPAGE_NWIRP	1803120 SITE 00001	SITE 00001	BPS1-TT-MW301I	Monitoring well	1124906.201	214566.279	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW301I-20180918	Ground water	Normal (Regular)	18-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC BETHPAGE_NWIRP	1803120 SITE 00001	SITE 00001	BPS1-TT-MW301S	Monitoring well	1124865.194	214560.42	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW301S-20180918	Ground water	Normal (Regular)	18-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC BETHPAGE_NWIRP	1803120 SITE 00001	SITE 00001	BPS1-TT-MW301S	Monitoring well	1124865.194	214560.42	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW301S-20180918-D	Ground water	Field duplicate	18-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC BETHPAGE_NWIRP	1803120 SITE 00001	SITE 00001	BPS1-TT-MW307D	Monitoring well	1124926.918	213357.307	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW307D-20180920	Ground water	Normal (Regular)	20-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC BETHPAGE_NWIRP	1803120 SITE 00002	SITE 00002	BPS1-TT-MW312I	Monitoring well	1125165.865	215327.647	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW312I-20180918	Ground water	Normal (Regular)	18-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC BETHPAGE_NWIRP	1803120 SITE 00002	SITE 00002	BPS1-TT-MW312S	Monitoring well	1125165.285	215322.312	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW312S-20180918	Ground water	Normal (Regular)	18-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC BETHPAGE_NWIRP	1803120 SITE 00002	SITE 00002	BPS1-TT-MW313S	Monitoring well	1125592.428	215154.779	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW313S-20180920	Ground water	Normal (Regular)	20-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC BETHPAGE_NWIRP	1803120 SITE 00002	SITE 00002	BPS1-TT-MW313S	Monitoring well	1125592.428	215154.779	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW313S-20180920-D	Ground water	Field duplicate	20-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC BETHPAGE_NWIRP	1803120 SITE 00002	SITE 00002	BPS1-TT-MW314I	Monitoring well	1125572.683	214550.46	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW314I-20180919	Ground water	Normal (Regular)	19-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC BETHPAGE_NWIRP	1803120 SITE 00002	SITE 00002	BPS1-TT-MW314S	Monitoring well	1125571.008	214555.481	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW314S-20180919	Ground water	Normal (Regular)	19-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC BETHPAGE_NWIRP	1803120 SITE 00003	SITE 00003	BPS1-TT-MW310S	Monitoring well	1124093.163	215489.753	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW310S-20180919	Ground water	Normal (Regular)	19-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC BETHPAGE_NWIRP	1803120 SITE 00003	SITE 00003	BPS1-TT-MW311I	Monitoring well	1124599.099	215422.011	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW311I-20180919	Ground water	Normal (Regular)	19-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC BETHPAGE_NWIRP	1803120 SITE 00003	SITE 00003	BPS1-TT-MW311S	Monitoring well	1124594.444	215423.402	N6247016D9008	WE13	TETRA TECH NUS, INC.	BPS1-TT-MW311S-20180919	Ground water	Normal (Regular)	19-Sep-18	537_MOD	Perfluoroalkyl Compounds