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| **From:** | Sprague, Cheryl |
| **To:** | Fuller, Andrew |
| **Subject:** | RE: Derry Landfill & Lagoon - April 2018 PFAs Sampling |
| **Date:** | Monday, April 08, 2019 3:42:00 PM |
| **Attachments:** | EPA comment on NHDES draft cover letter approval for 199004008_GMP_Renewal_2019 (002).doc |

Sure – here it is.

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**From:** Fuller, Andrew <Andrew.Fuller@des.nh.gov>
**Sent:** Monday, April 08, 2019 1:44 PM
**To:** Sprague, Cheryl <sprague.cheryl@epa.gov>
**Subject:** RE: Derry Landfill & Lagoon - April 2018 PFAs Sampling

Cheryl,

Could I send me a copy of your comments on the DES letter with the renewed permit? Thanks.

-Andy

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**From:** Sprague, Cheryl [mailto:sprague.cheryl@epa.gov]
**Sent:** Monday, April 1, 2019 5:50 PM
**To:** Fuller, Andrew
**Subject:** FW: Derry Landfill & Lagoon - April 2018 PFAs Sampling

Just checking some older emails and read this one again – not sure how much ken shared with you ( do you have his emails?) anyway – this was the results for PFAS near the Derry WWTP.

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**From:** Richards, Kenneth <Kenneth.Richards@des.nh.gov>
**Sent:** Thursday, June 14, 2018 12:23 PM
**To:** Sprague, Cheryl <sprague.cheryl@epa.gov>
**Cc:** Robin Mongeon <Robin.Mongeon@des.nh.gov>
**Subject:** Derry Landfill & Lagoon - April 2018 PFAs Sampling

FYI: Report just posted to One Stop on June 11 – copy minus lab report is attached

**Landfill Results Summary**

All of the analytical results for the GMDP parameters were within respective historical ranges detected,
with most concentrations being near or below their respective mean concentrations. Monitoring wells
around the landfill continued to show exceedances of the respective Ambient Groundwater Quality

Standards (AGQS) or Secondary Maximum Contaminant Levels (SMCL) for iron, manganese, arsenic,
and pH at most downgradient wells.

PFAS compounds were detected in each of the five monitoring wells analyzed: MW-1, MW-2, MW-3,
MW-7, and MW-9. **All of the results for perfluorooctanoic Acid (PFOA), perfluorooctanesulfonic acid
(PFOS), or PFOA and PFOS combined were below the applicable AGQS of 70 nanograms per liter
(ng/l).** Total PFOA and PFOS concentrations ranged from 5.0 ng/l at MW-9 (upgradient) to 25.8 ng/l
(MW-1 downgradient). Up to five of the remaining seven PFAS compounds were detected in the
remaining wells except for MW-2 in which none were detected.

**Wastewater Lagoon Results Summary**

All the analytical results for the GMDP parameters were within respective historical ranges detected,
with most concentrations being near or below their respective mean concentrations. Groundwater from
each of the monitoring wells around the lagoons did not exceed any of the respective AGQS or SMCL
with the exception of pH at all locations which is consistently detected below its SMCL and 1,4-dioxane
at MW-7 which slightly exceeded the AGQS but was consistent with historical results.

PFAS compounds were detected in each of the four monitoring wells: W-1, W-5, W-6R, and W-7. **At
W-1, located immediately adjacent to and downgradient of unlined Lagoon 4, PFOS was detected above
the AGQS at 119 ng/l and the combined PFOA and PFOS results were 152.5 ng/l. PFOA at W-6R and
the combined PFOA and PFOS concentration at the remaining wells exceeded 50% of the AGQS.** Up to
six of the remaining PFAS compounds were detected in all sample locations.

**Kenneth A. Richards, P.G., P.E.**
**NH Department of Environmental Services**
**Waste Management Division**
**Hazardous Waste Remediation Bureau**
**29 Hazen Drive, P.O. Box 95**
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