Pease/Lonza Mtg 5/18/18

*Antideg study for Potential Flow increase @ Pease due to expansion @ Lonza.

- 27 acre parcel next to adjacent facility.
- Still Building out existing 13 acre site.
- New site would be built in phases => about 1 each 5 years (3 buildings total).

379,000 GPD -> Max flow allowed by PDA to Lonza.
280-300,000 -> Existing flows.

Lonza => wants to take ownership of the new property in October => So want to know if more wastewater can be allowed by then.

PDA facility operated by Portsmouth

Portsmouth looking not only @ Lonza but also @ build out for PDA.

1.2 design flow => Averaging about .8 mgd

* Build out of current site expansion @ Lonza will increase the flow from Lonza by about 200,000 gpd.

Antideg => Can hold load increases @ 20% or below remaining assimilative capacity. or go over 20% RAC but have to demonstrate social + economic benefit to the areas surrounding the site.

Mammilian cell producer. Bioengineered mammilian cells produce proteins that are harvested

Cu + As => Potential Issues.

R.O. processes + distilling processes. @ Lonza.

DES => Has a Future Growth multiplier to look @ future flows + build outs.

→ How is improvement @ other POTW's taken into account. (Exeter, New market,

- Toxics —
- BOD — Use HydroQual Model to look @ DO sag. (HDR)
- Nitrogen —
- Shellfish —

2012-2014 → HDR Model =>

Terry will send summary of model + proposal for use to evaluate D.O.

River Sampling: Study being performed by Underwood.

- QAPP for Sampling + Field Work.
- Lab in Washington State being used for low metals analysis.
- 24 hr composite on effluent for priority pollutants.

June 4, 8
July 3, 4, or 5 } Possible Sampling dates.

Pretreatment @ Lonza. { Thermal Stabilization
BoDequalization
pH neutralization

Review Paper on fate of effluent derived DON.

Will separate POTW + Stormwater permit.

5/18/2018 - Pease/Lonza/DES/EPA/Portsmouth Meeting in Concord

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