



Hamilton

WOODWARD UPGRADES PHASE 1 CONSTRUCTION UPDATE

OCTOBER 2, 2023

OUTLINE

- **Woodward Upgrades Project Overview**
- **Construction Update**
- **Water Quality Update**
- **Project Challenges & Highlights**
- **Next Steps**
- **Questions**



Electrical Power Centre

Tertiary Treatment Facility

Chlorine Contact Tank/Outfall/Red Hill Creek

South Plant Expansion

Main Pumping Station

13.8kV Loop

Contract 1: Main Pumping Station

Contract Value: **\$87.6 Million (Current \$86.2M)**

Construction Began: **May 2017**

Substantial Performance: **August 31, 2022**

Work Performed to Date: **\$85.5 Million (99%)**



Contract 2: Electrical and Chlorination Upgrades

Contract Value: **\$60.9 Million (Current \$62.9M)**

Construction Began: **October 2017**

Substantial Performance: **November 11, 2022**

Work Performed to Date: **\$62.1 Million (99%)**



Contract 3: Tertiary Treatment Upgrades

Contract Value: **\$165.3 Million (Current \$184.5M)**

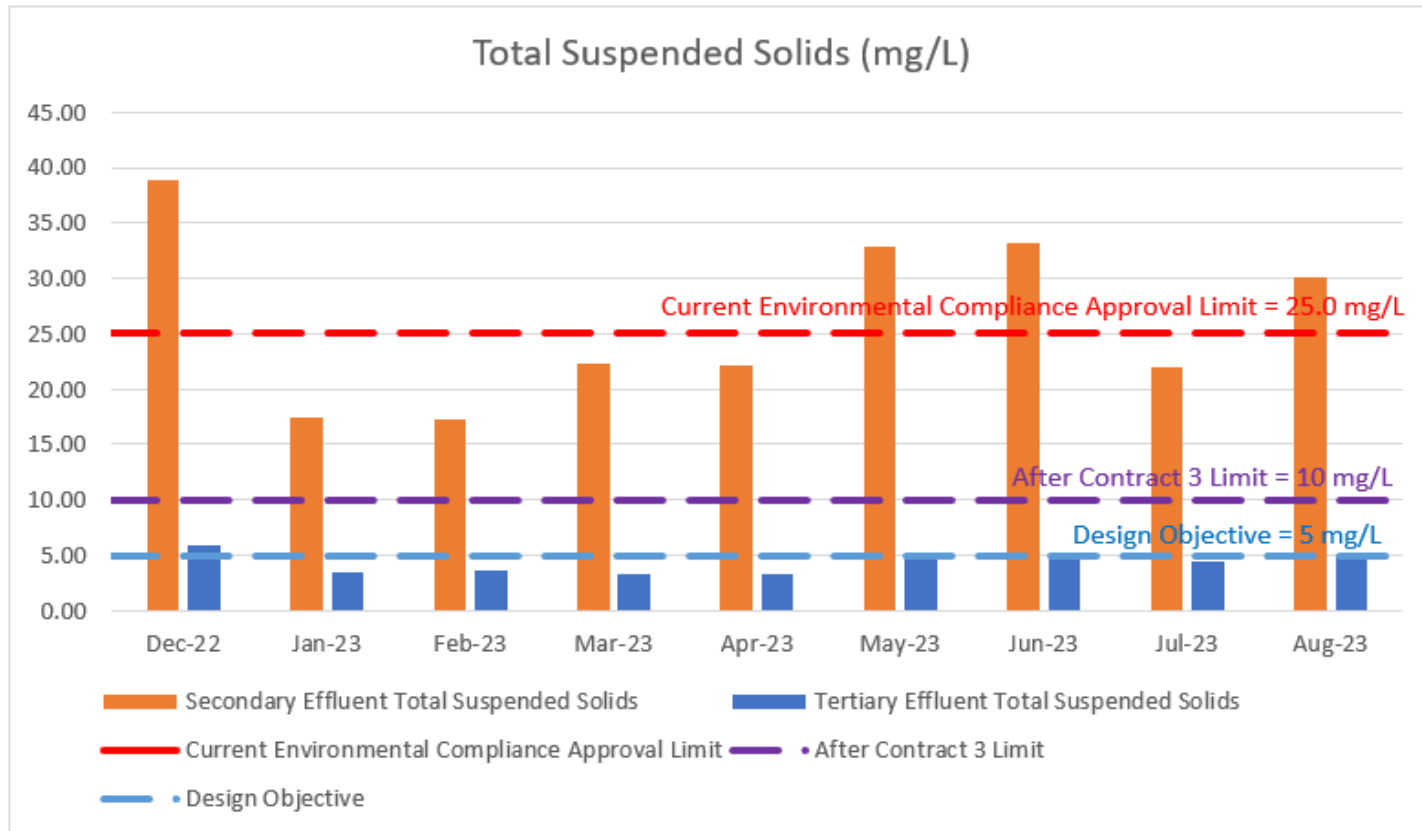
Construction Began: **May 2019**

Substantial Performance: **Expected Q4 2023**

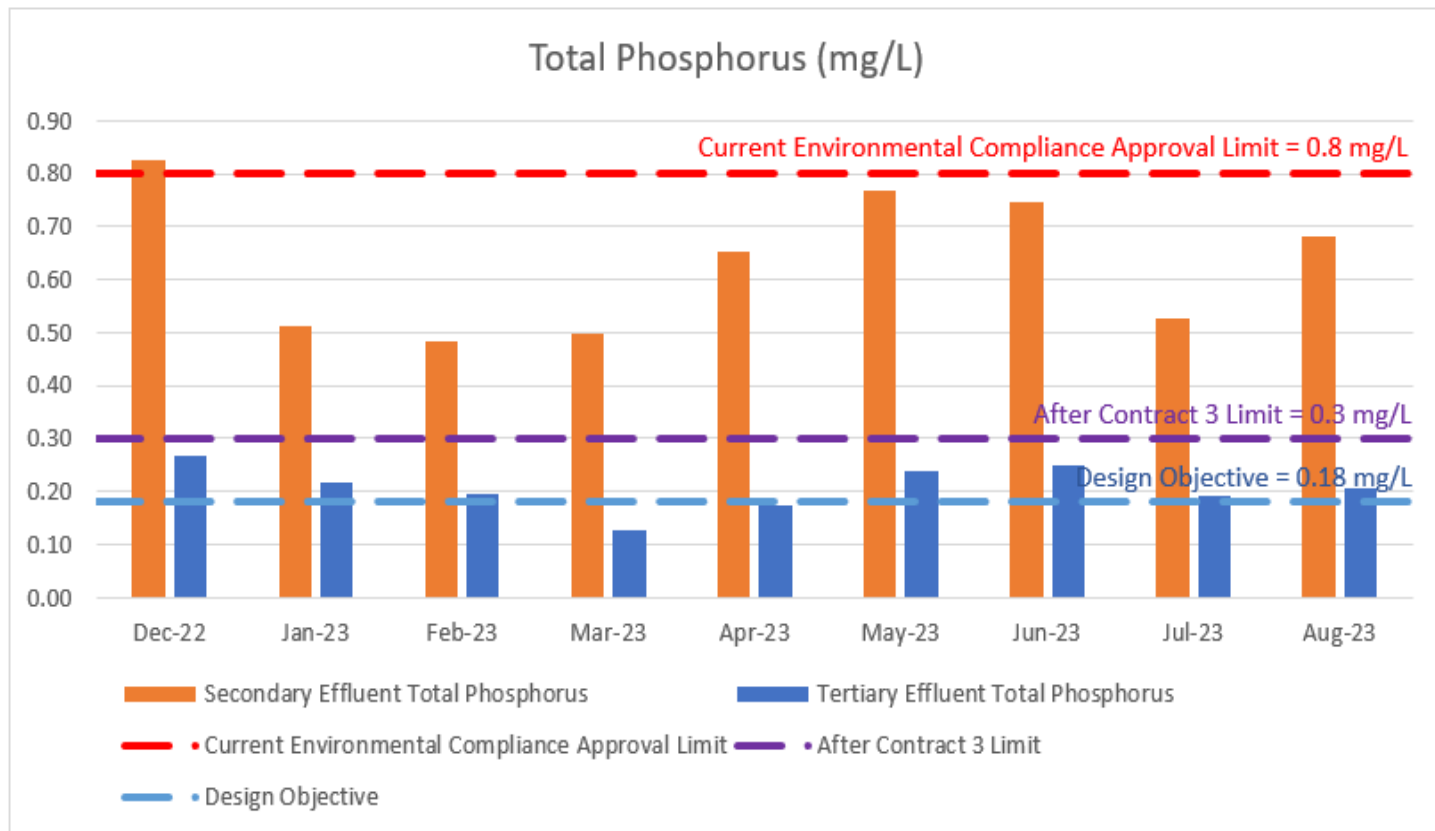
Work Performed to Date: **\$179.9 Million (98%)**



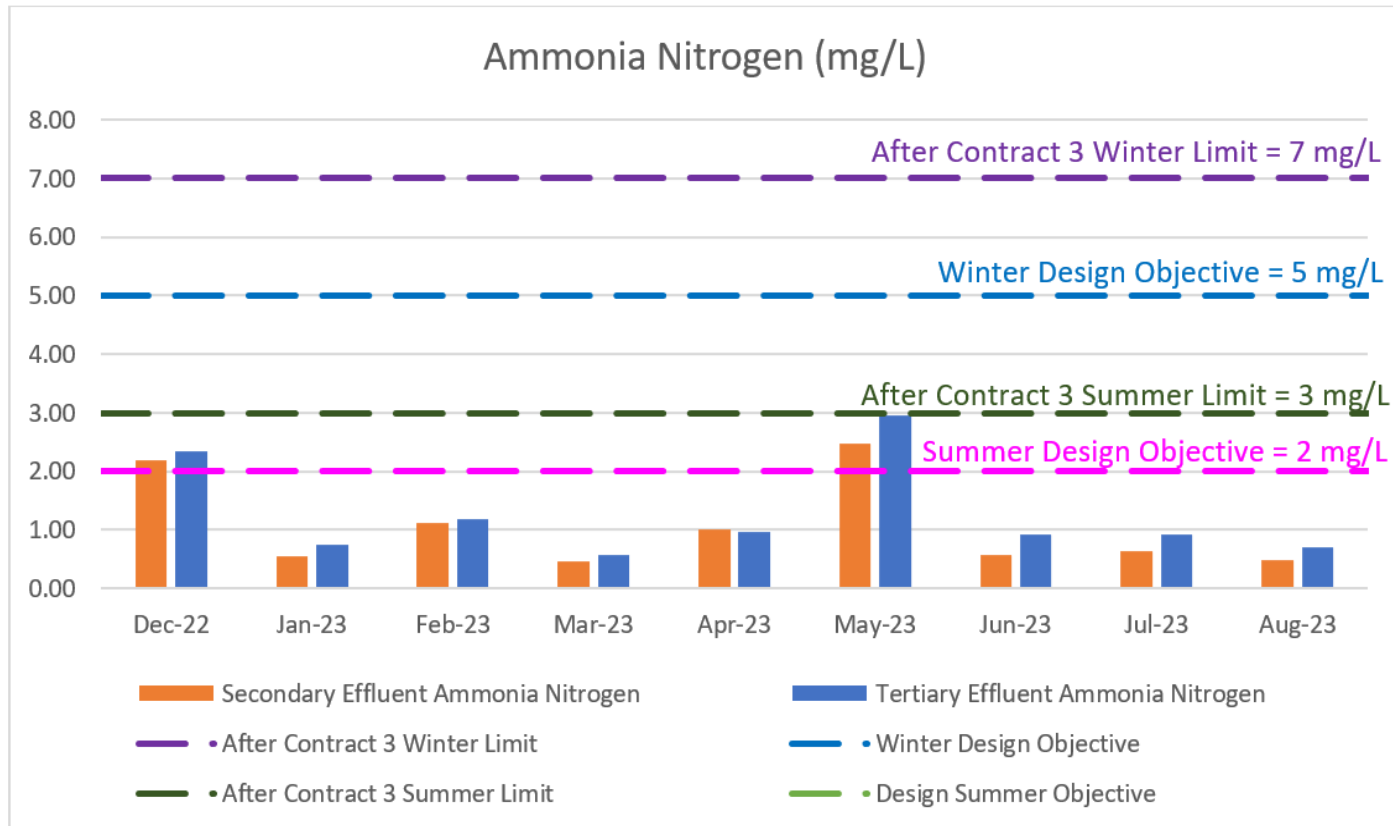
Total Suspended Solids



Total Phosphorus

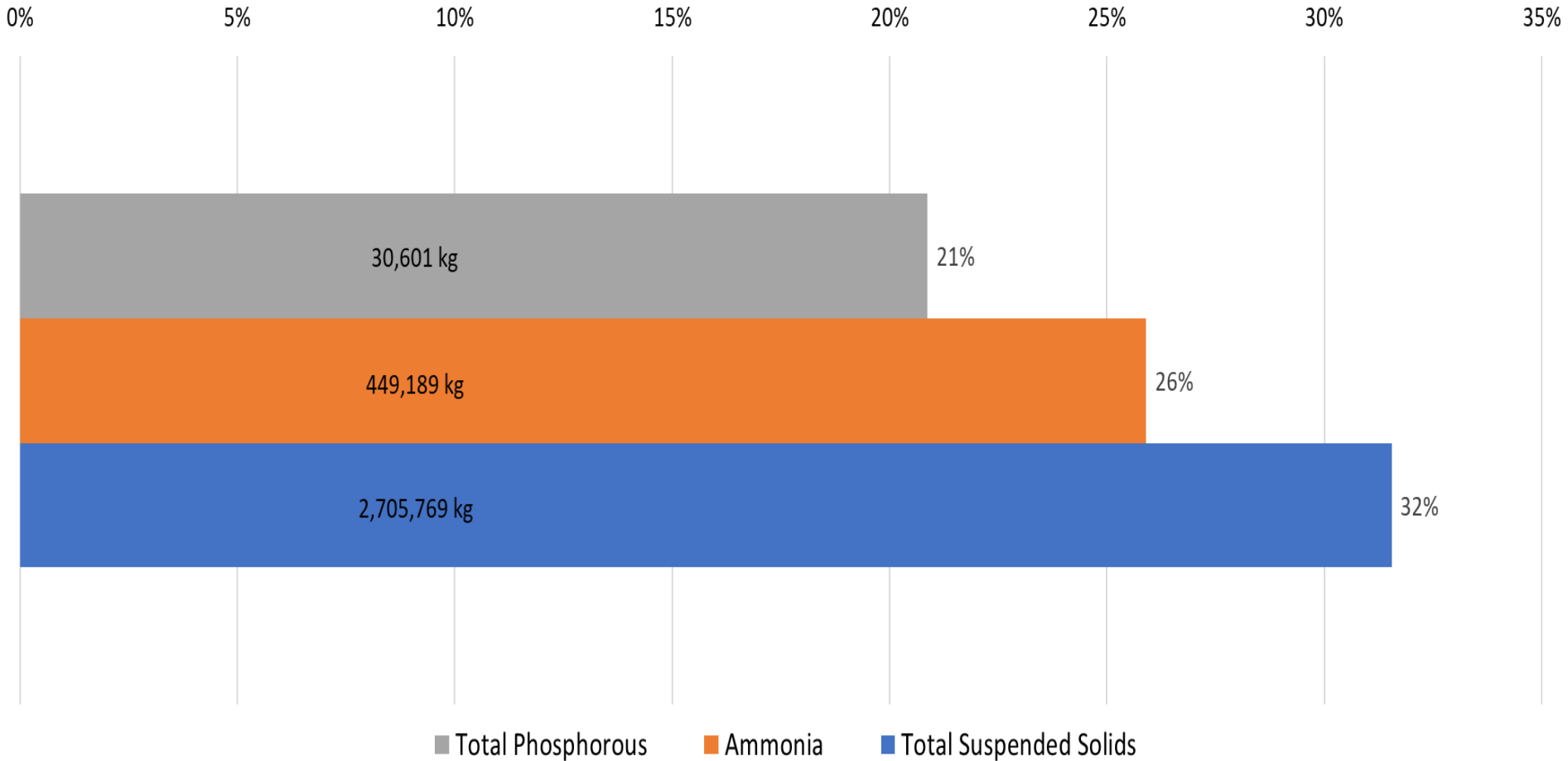


Ammonia Nitrogen



Additional Mass Loadings Removed Post Tertiary Treatment Upgrades

Percentage Additional Mass Removal (%)



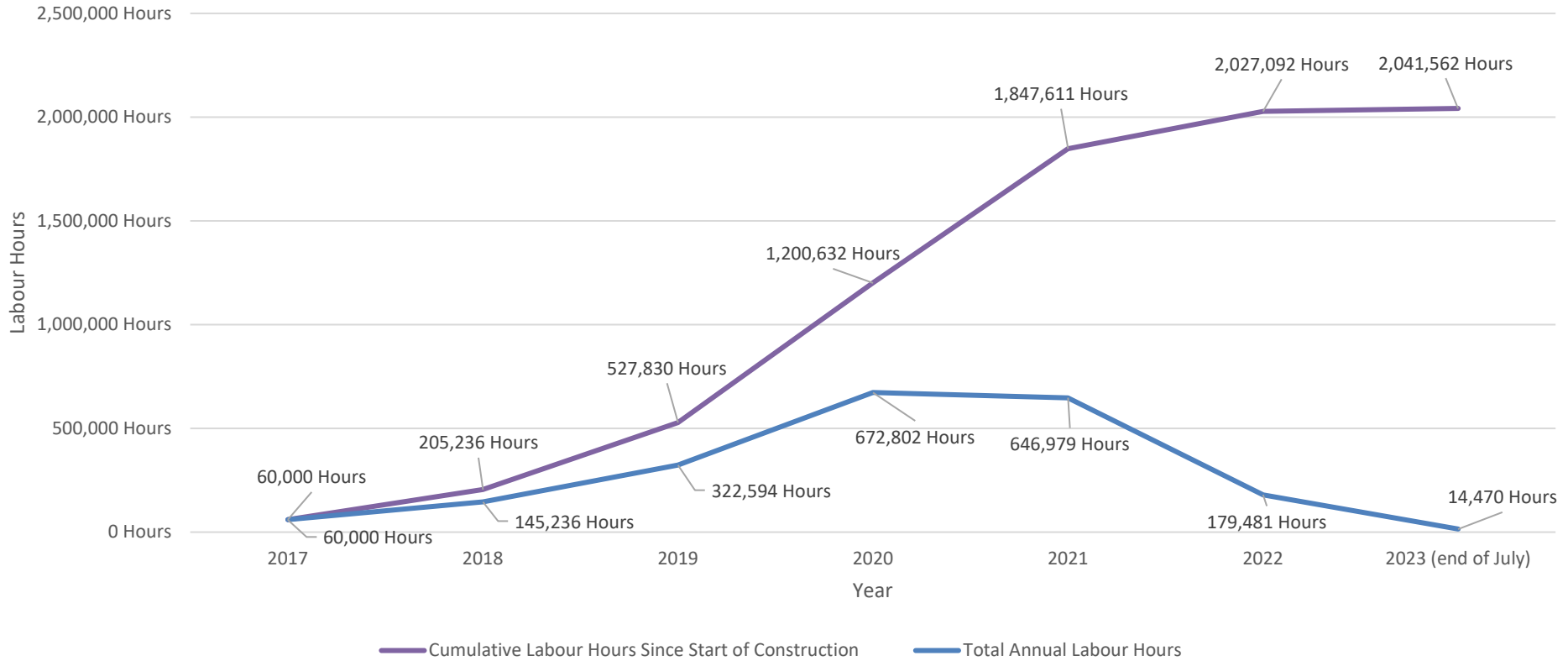
Note: This data set compares the difference in mass removed between Nov 2017 - Aug 2018 (pre-treatment upgrades) and Nov 2022 - Aug 2023 (post-treatment upgrades)

Woodward Upgrades Program

Excess Soil Management

Project / Location	Estimated Quantity (tonnes)	Estimated # of Trucks
[-] P3 Biosolids Management Project; Award Date: Mar 30, 2017	2550	130
[+] Soil (Clean) - OPS 180	2550	130
[-] MPS (C13-60-16); Award Date: Apr 26, 2017	132360	6618
[+] Soil (Clean) - OPS 180	132360	6618
[-] ELU (C13-36-17); Award Date: Sep 13, 2017	3240	162
[+] Soil (Clean) - OPS 180	3220	161
[+] Soil (Contaminated)	20	1
[-] TTU (C13-71-18); Award Date: Mar 26, 2019	245243	11997
[+] Soil (Clean) - OPS 180	142240	7112
[+] Soil (Contaminated)	90738	4537
[+] Soil (Hazardous)	12265	348
Grand Total	383393	18907

Construction Labour Hours Worked Across the Woodward Upgrades Contracts



Next Steps – Media Event

Date: Thursday, October 12th

Time: 9:30am

Location: Woodward Avenue
Wastewater Treatment Plant



Next Steps – Community Appreciation BBQ

Date: Saturday, Oct. 14th

Time: 11:00am – 2:00pm

Location: Steam Museum







QUESTIONS