



Shoreway Capital Projects Update

November 19, 2020 Board Meeting



A Public Agency

CIP Project Expense Budget

Bond Project Fund Projected Spend

2019 Bond Project Fund- beginning balance						\$ 20,000,000
MRF Phase I (including sales tax)				\$ 6,410,528		Completed
O2E Pilot (net of grant proceeds)				\$ 1,300,000		Completed
MRF Phase II Design & Assessment - CY2021 Budget				\$ 1,100,000		
O2E Full Scale Assessment - CY2021 Budget				\$ 160,000		
Projected Spend through CY2021						\$ 8,970,528
Projected Bond Project Fund Balance (December 31, 2021)						\$ 11,029,472

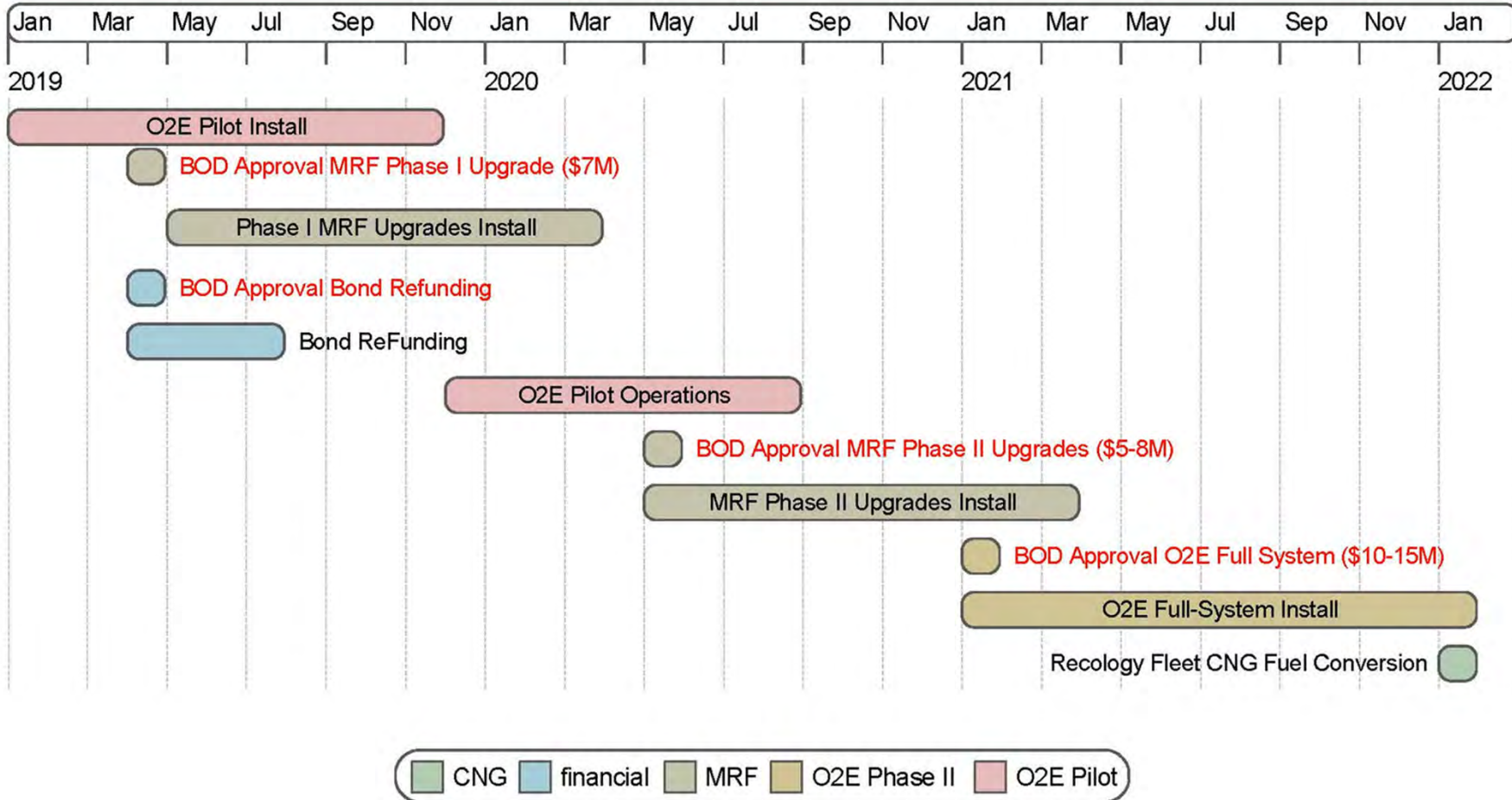
Slide 2

JL5 John/Hilary--Please match Phase I final costs (\$6,410,528) w/the total cited on slide 5 (\$6,073,263)--Needs to be the same number. Also please confirm if this total includes the RF Phase I.

Joe LaMariana, 11/4/2020

Originally presented to Board in 2018

Capital Project Approval & Implementation Schedule



(Excerpt from SBWMA BOD PACKET 01/24/2019)

“The MRF sort system is 10-years old and needs to be updated with highspeed optical sorting that can separate recyclables to meet the current commodity markets standards.

Phase I Upgrades have been designed and priced by BHS and are anticipated to be installed in 2019.

The cost of the Phase I Upgrades is approximately \$7M and the benefits of the upgrade are estimated at \$1.18M per year providing a ~5-year ROI.”

MRF Phase I Equipment

\$6,410,528 with BHS, Inc.



Equipment Installation
was completed:

- On-budget
- On-schedule

MRF Phase I – Project Schedule

Dates	Milestone
7/20/20	BHS install completed at scheduled completion date
8/1 - 10/24	MRF Phase I: MSW Sorting (O2E Pilot test); System “tuning”
11/16 -11/20/20	MRF Phase I: System Performance Test (Sloan/Vasquez)
11/2/2020	MRF Phase I: System Acceptance/Final Payment to BHS
Ongoing	MRF Phase I: System monitoring/metrics for Phase II design

MRF Phase I Goals

Phase 1 Goals

1. Battery Removal System - reduce battery-ignition risk by extracting batteries from the flow of recyclable materials at the front-end of sort system. Capturing 95% of batteries JL1
2. Upgrade Commercial Infeed System - to improve sorting efficiency and speed by evenly feed/space materials on the conveyor belt for sorters and screening equipment to process
3. New "Mid-Fraction" Sort Line with High-speed Optical Systems - to increasing system processing speed (through-put) and increased capture of cardboard and containers
4. Glass Cleanup System - to improve the glass sort system to improve glass quality

'SBR is monitoring the throughput (productivity)... After the installation of the BHS Phase I equipment, we recognized an improvement in material through-put of approximately 20%.'

Quote from Dwight Herring 9/14/2020

Slide 7

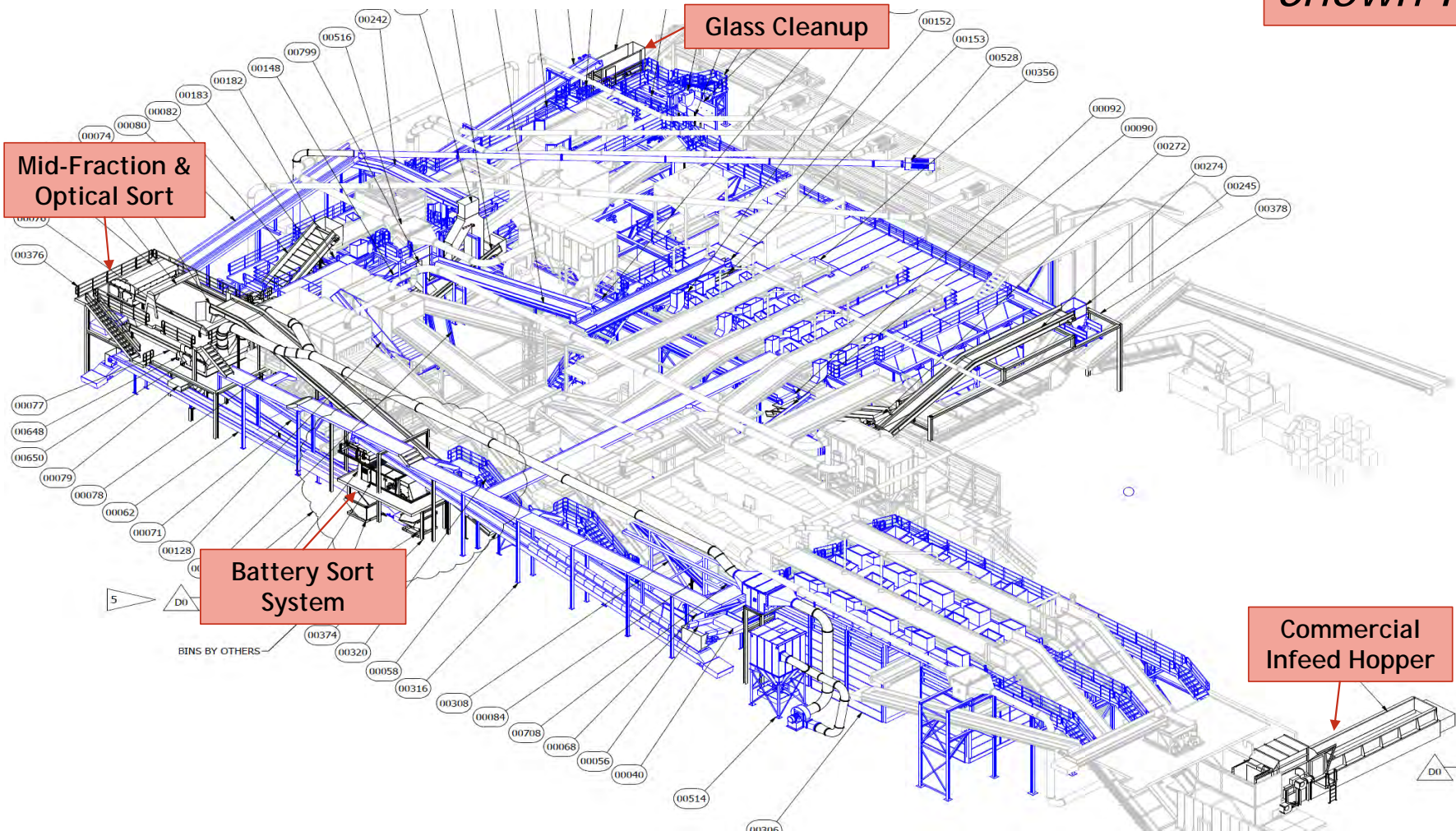
JL1

Hilary--this figure strongly suggests that our battery problem is solved in the entire facility. It's not. We need to express this highly encouraging step forward differently.

Joe LaMariana, 11/3/2020

MRF Sort System Overview

New Equipment Shown in Black



Equipment Operations Video

<https://youtu.be/g9VZpcKzvzQ>

- <https://youtu.be/g9VZpcKzvzQ>