



Energy Audit LED Pole-Arm Mounted Fixtures Project (CIP 17718)

Napa Sanitation District
Board of Directors Meeting
September 27, 2017



Background

- Mission:
 - Conserve energy
- 220 existing external lights
 - High intensity discharge
 - High Pressure Sodium
 - Metal Halide
 - Energy required 10-14 hours per day

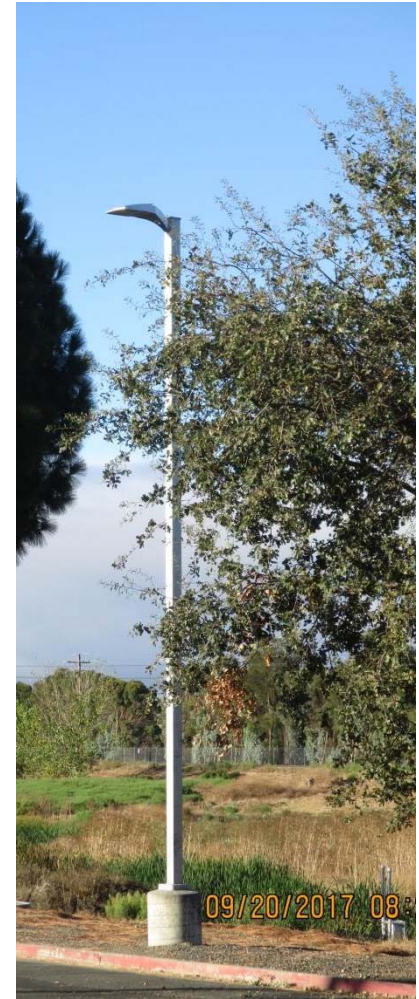
CIP 17718 LED Pole-Arm Mounted Fixture Project





Project Scope

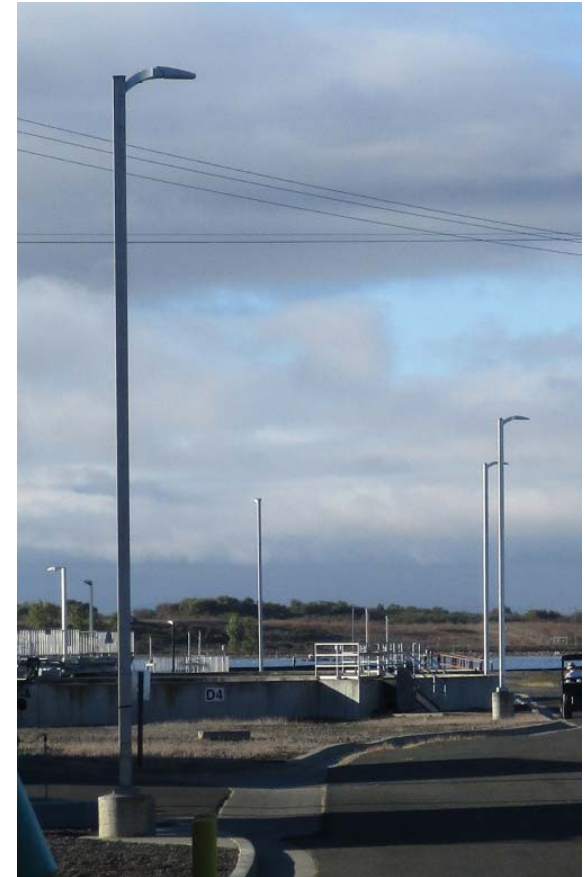
- Replace 112 older pole mounted lights with LED fixtures
 - Accessible wall mounts
 - Other poles installed 2013
- Future projects to replace other lights based on energy savings





Project Scope

- NapaSan furnished materials
- Vendor co-op pricing
 - Visionaire LED fixtures
 - \$64,700
- RFQ for labor contract



Energy Savings

- Wattage was reduced
 - 188W to 73W
 - 295W to 139W
- Photocell detects light
- Bi-level dimming
 - 30% dim (90% of the time)
 - 100% power (10% of the time)





Project Cost and Energy Savings

Item	Amount
Materials	\$64,000
Construction	\$13,200
Engineering Design	\$5,000
Energy Rebate	-\$6,900
TOTAL =	\$75,300

Estimated annual energy savings = \$11,000

Payback = 6.8 years



Questions?