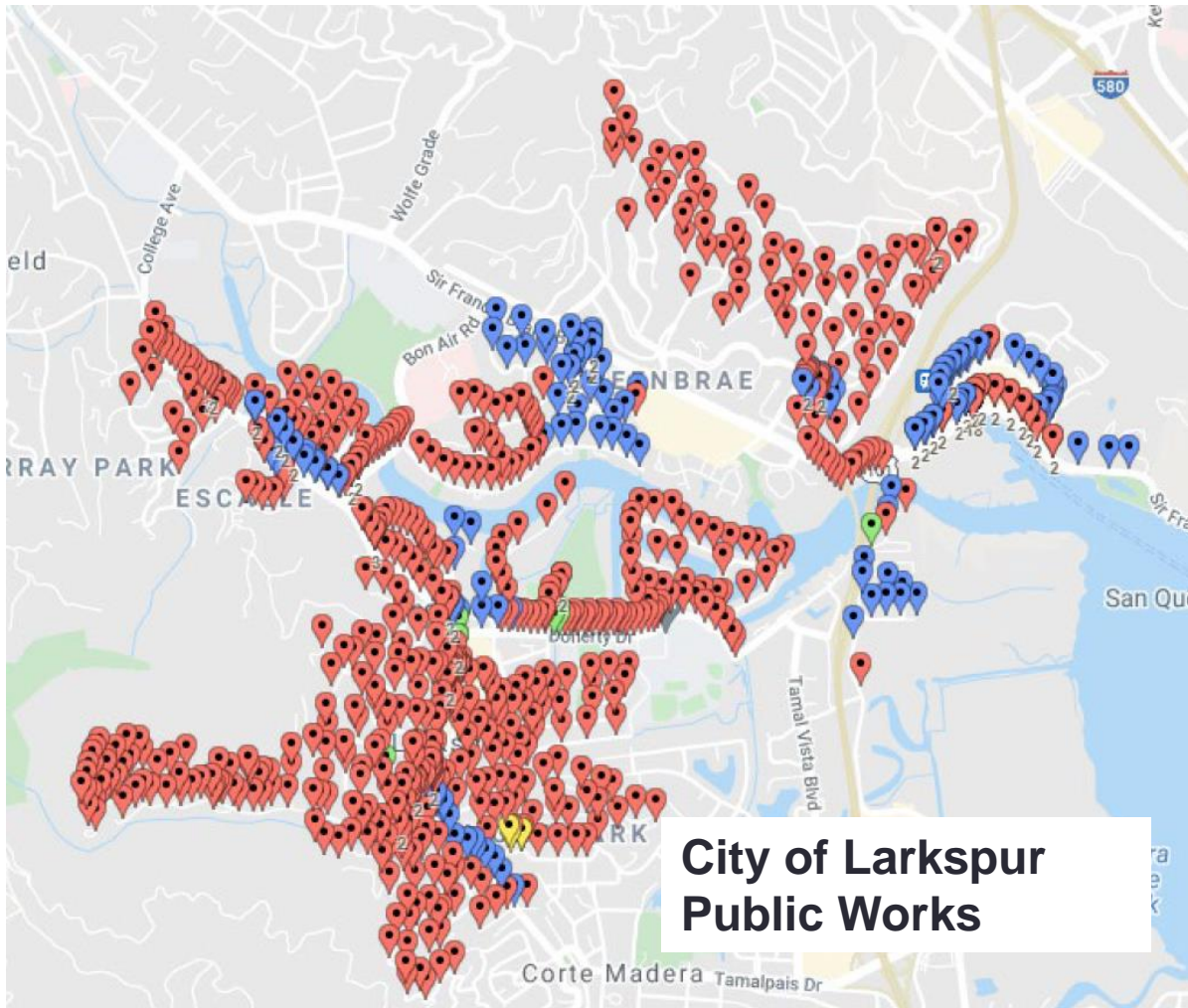


# CITY OF LARKSPUR

## LED Retrofit Project

### Project Initiation – Contract Award



# City Street Lights

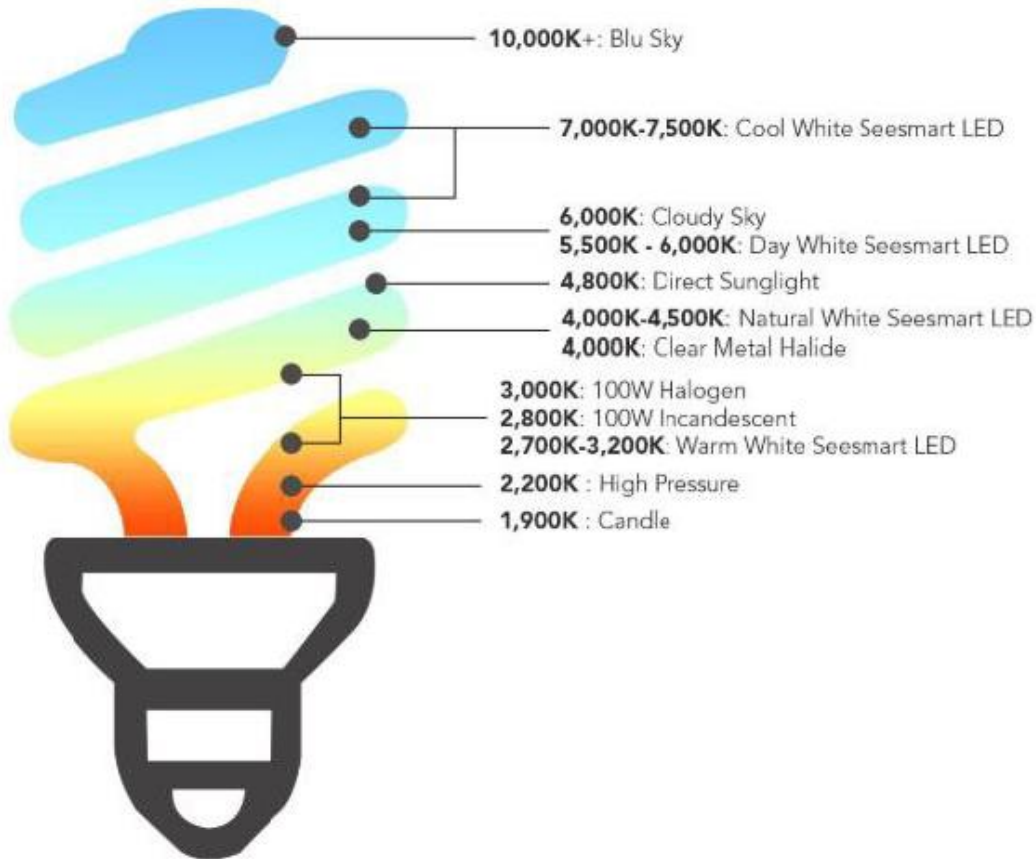
- 770 streetlights
- Mostly High-Pressure Sodium (HPS) bulbs
- 2012 Energy Retrofit Project
- Light Emitting Diode (LED)  
Predominant Technology

# Why Retrofit/ Convert



- **Less Energy Consumption**
  - Less Cost for Electricity
  - Reduce Greenhouse Gas Emission
- **Longer Lasting**
  - Less Maintenance Cost

# Issues – Concerns / Mitigations



- Bright (white/ blue) light – mitigated with on-going LED technology improvements

# Issues – Concerns / Mitigations



Light wash into residences – LED produces less wash than standard HPS bulbs

# Contract – Council Action



- Gov/ Code S4217.10 – 4217.18
- ‘an energy services contract is in the best interest of its agency’
- Tanko Lighting \$285,098

**4217.12.** (a) Notwithstanding any other provision of law, a public agency may enter into an **energy service contract** and any necessarily related facility ground lease on terms that its governing body determines are in the best interests of the public agency if the determination is made at a regularly scheduled public hearing, public notice of which is given at least two weeks in advance, and if the governing body finds:

(1) That the anticipated cost to the public agency for thermal or electrical energy or conservation services provided by the energy conservation facility under the contract will be less than the anticipated marginal cost to the public agency of thermal, electrical, or other energy that would have been consumed by the public agency in the absence of those purchases.

# Economics

	current	proposed	delta
energy	\$80,000	\$50,000	-\$30,000
maintenance	\$20,000	\$10,000	-\$10,000
total	\$100,000	\$60,000	-\$40,000

7-year return based on \$285,000 project cost

# Next Steps

- Inventory of streetlights
- Recommendation for retrofit/  
conversion
- Installation





# Questions

