

WELCOME TO THE SCCWRP COMMISSION MEETING

- **Commissioner participation**
 - All Commissioners will be unmuted, but asked to self-mute unless speaking
- **Voting**
 - All votes will be conducted via roll call (A Brown Act requirement for remote meetings)
 - We will vote on all motions during a single roll call at the end of the meeting
- **Audience participation**
 - We will take public comment associated with each agenda item, plus a comment period for non-agenda items as Agenda item 14
 - If you would like to comment, please enter your question/comment in the Q&A box
 - Please indicate if you would like to verbalize the comment yourself, or have it read for you

COVID SURVEILLANCE PROJECT

- **Our present means for assessing COVID prevalence is flawed**
 - Based on testing individuals, but those individuals are not randomly selected
- **Treatment plant influent provides a less-biased means for monitoring prevalence**
 - We know that people defecate the RNA signature
- **Goal: Develop scientific foundation to address four information needs**
 - Assess trends at a particular facility
 - Compare infection rates across sewersheds
 - Estimate absolute number of infected people in a sewershed
 - Track presence/density in sub-watersheds (e.g. college dormitories)

COVID SURVEILLANCE SCIENTIFIC CHALLENGES

- **Understanding and improving method sensitivity**
 - Collection methods (water vs. solids)
 - Preservation techniques
 - Extraction methods
 - Measurement methods (qPCR vs. Digital droplet PCR)
- **Quantifying defecation rates**
 - How does it vary by demographics (race, age, etc.)?
 - How does it vary over the course of the disease within an individual?
- **Modeling degradation rates and travel time in a sewershed**
 - Plus any influences of infiltration/exfiltration

STANFORD-LED PROJECT

- **Stanford project is a comprehensive one**
 - Goal is to build the model that captures all of those effects
 - Validate that model with companion projects that are randomly sampling infection rates in sewersheds
- **It is a large project**
 - Collecting at 49 facilities, 25 of which are in California
- **SCCWRP's roles**
 - Collect and process samples for eight Southern California facilities
 - Lead development/application of digital droplet PCR measurement methods
 - Comparing preservation techniques
 - Participate in the Water Research Foundation methods comparison study
- **Progress to date**
 - Stanford has been collecting since February in NorCal; we began SoCal in March
 - Focus is presently on measurement method assessment
 - Processing in earnest expected in July/August

ADDITIONAL GRANTS FOR CONSIDERATION

- **Three offerings came in after your contract list was prepared**
 - Two of them require Commission approval
 - The Brown Act has a process for considering late items
- **Microplastics in wastewater streams**
 - Ocean Protection Council (\$225,236)
- **Developing an eDNA benthic infaunal index**
 - Anonymous Philanthropic Foundation (\$532,284)
- **Developing a conceptual model for environmental fate of eDNA**
 - Anonymous Philanthropic Foundation (\$47,184)

MOTIONS FOR YOUR CONSIDERATION

- **Consent agenda**
 - Minutes of March Commission meeting
 - Quarterly financial statement
 - Quarterly statement of investments
 - Minutes of the CTAG meeting
- **Contract/grant acceptance**
 - Already voted on
- **Resolution establishing rules governing compensation, benefits, and personnel, policies and procedures**
- **Fiscal year 2020/2021 research plan and budget**

AGENDA ITEMS YOU HAD TENTATIVELY SCHEDULED

- **June (Biological assessment theme)**
 - Stormwater Monitoring Coalitions' 10-year stream biological assessment
 - Flow ecology (LA River plus some smaller projects in other regions)
 - Briefing on California statewide flow criteria development
 - Briefing on bioassessment implementation at State Board and Regional Board 9
- **September (Acidification theme)**
 - Bight'18: Ocean acidification portion
 - Model to quantify acidification/hypoxia effects of nutrient inputs
 - Acidification threshold workshop outcomes
 - Microplastics methods evaluation study
- **December (Microbiology theme)**
 - New microbial source tracking methods development
 - Sewer exfiltration study
 - Bight'18: Coliphage
 - Newport Bay shellfish pathogens study