

FACILITIES MANAGEMENT

AT COLORADO STATE UNIVERSITY

FM DAILY
COMMUNICATION

June 30, 2020

Issue 62

Dear FM Team,

CSU is a state institution—however, it is not exempt from regulations issued by other agencies. CSU must comply with regulations ranging from animal care in laboratories to humans as research subjects. FM is responsible for compliance with environmental regulations. Susanne Cordery in the Engineering and Capital Construction section leads our environmental regulatory compliance. She is helped by people in every FM section: Parking & Transportation Services, Campus Planning, Capital Design, RCS, Mapping, Operations, and Engineering and Capital Construction. As Susanne likes to say, regulatory compliance is like vacuuming the carpet, no one notices until it is not done! We monitor and report on:

- **Air emissions:** Stationary sources are equipment that emit air pollutants and, as the name implies, stay in one place. Boilers and standby generators make up the majority of CSU's stationary sources. Three heating plant boilers on Main Campus are CSU's largest stationary sources of air emissions, permitted to emit up to 127.7 tons of NOx (nitrous oxides) each year. Actual emissions are tracked and are a fraction of that amount. CSU owns 77 standby generators. That is a lot of stationary sources and emissions tracking!
- **Bridges:** Did you know CSU owns 28 bridges? Some are small while others are vehicular bridges over rivers. The Mountain Campus main entrance bridge requires an inspection every two years.
- **College Lake Dam:** CSU owns a 108-year-old earthen dam at College Lake on Foothills Campus, regulated by the Division of Water Resources - Dam Safety. An important aspect of CSU's irrigation operation and the College of Engineering's experiments, it is inspected and maintained because poor dam conditions have widespread implications on our landscapes and research.
- **Composting:** The Integrated Waste Systems group runs a composting facility on Foothills Campus. Regulations ensure the operation does not become a nuisance due to odors, vectors (birds and rodents), and to ensure good quality compost with no hazardous materials. FM manages the regulatory compliance, including operating plan and annual reporting.

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- **Drinking water:** Although CSU receives its drinking water from the City of Fort Collins, we own the distribution pipes and we are regulated by the state, which means we do our own drinking water monitoring. You might have seen the [Consumer Confidence Report](#) or lead reporting. The sampling, analysis, and reporting are all tasks performed or overseen by FM engineers.
- **Floodplain:** Do you remember the Fort Collins flood of 1997? It raged through Main Campus from west to east, destroying parts of 39 buildings, including the entire basements of the Lory Student Center and Morgan Library. In response CSU built flood protection structures, and mapped and managed our floodplain from Elizabeth and Shields Streets to College Ave. Check out a map of the floodplain and video of the mapped floodwaters movement [here](#). Part of managing the floodplain includes reviewing new construction in the floodplain to make sure it does not cause or worsen flooding in other parts of campus.
- **Stormwater pollution prevention:** CSU has a state permit and must add and inspect “Stormwater Control Measures” at construction sites and new buildings. CSU owns 78 permanent Stormwater Control Measures for removing pollutants from stormwater, including rain gardens, permeable pavers, and a green roof. The [stormwater program](#) and permit also require education, outreach, and good housekeeping (i.e. making sure trash and pollutants do not get into the gutter or storm drains).
- **Wastewater:** CSU owns and runs an entire wastewater treatment plant at Mountain Campus. As you can imagine, discharge from that plant must meet specific effluent limits before being discharged to the environment. FM, along with Housing & Dining Services, handles monthly monitoring and reporting of the quality of the effluent to the state environmental agency. Due to age and changing requirements, a new treatment plant is currently under construction to better treat the Mountain Campus wastewater.

Sincerely,



Tom Satterly, P.E.
Associate Vice President for Facilities Management

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