AVAILABLE AIR MONITORING CAPABILITIES

Current ongoing monitoring in Richmond

- **Long-term**
  - Air District Stations
    - San Pablo: CO, NOx, UFP, SO2, O3, PM2.5, PM10, toxics, BEACO2N node
    - Point Richmond: H2S
    - 7th and Hensley: H2S, SO2, toxics
  - Chevron-operated
    - Ground level monitors: H2S, SO2
    - Fence-line: BTEX, CS2, H2S, O3, SO2
    - Community monitoring stations: BTEX, H2S, SO2, PM2.5, BC
- **Saturation**
  - BEACO2N: CO2, CO, NO2, O3, PM-count

Current Air District resources for use in studies of focus areas

- **Portable or Short-term**
  - Mini-Vol: PM2.5 collection on filters. Requires laboratory analysis for mass and/or chemical speciation
  - Evacuated canisters: grab samples of air for toxic pollutants. Requires laboratory analysis for volatile organic compounds (VOCs).
- **Short-term**
  - Super SASS: PM2.5 collection on filters; Requires laboratory analysis for mass and/or chemical speciation
  - Canister sampling systems: air sampling for toxic pollutants over a set period of time, typically 24 hours. Requires laboratory analysis for VOCs.

Future Resources

- **Mobile**
  - Aclima (targeting July or August if adopted by Steering Committee)
    - PM2.5, NO2, NO, O3, CO, and CO2
  - BAAQMD Mobile Lab (targeting fall 2019)
    - PM: concentrations, physical and chemical characteristics including non-regulatory mass concentration in different size bins, size distribution from 0.006 to 10 microns, and chemical speciation.
    - Air Toxics: Two methods for VOCs (some semi-volatile organic compounds)
    - Gaseous criteria pollutants (NO2, O3, CO, SO2)
    - Greenhouse gases (CO2, CH4)

Measured Air Pollutants

<table>
<thead>
<tr>
<th>BC – black carbon</th>
<th>NOx – oxides of nitrogen; NO2 and NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTEX – benzene, toluene,</td>
<td></td>
</tr>
<tr>
<td>ethylbenzene, and xylenes</td>
<td>O3 – ozone</td>
</tr>
<tr>
<td>CO – carbon monoxide</td>
<td></td>
</tr>
<tr>
<td>CO2 – carbon dioxide</td>
<td>PM2.5</td>
</tr>
<tr>
<td>H2S – hydrogen sulfide</td>
<td>PM10</td>
</tr>
<tr>
<td>CS2 – carbon disulfide</td>
<td>PM-count</td>
</tr>
<tr>
<td></td>
<td>Toxics –</td>
</tr>
<tr>
<td></td>
<td>SO2 – sulfur dioxide</td>
</tr>
<tr>
<td></td>
<td>UFP – ultrafine particulate matter</td>
</tr>
</tbody>
</table>