



CONTRA COSTA COUNTY

AGENDA

Hazardous Materials Commission

Thursday, September 11, 2025

4:00 PM

Administration Building

1025 Escobar Street

Martinez, CA 94553

Assembly Rm 100

cchealth.zoom.us/j/99537244542

Meeting ID: 715 921 4875

Public Forum: Hazardous Materials Safety for Residents

HOLD a public forum on hazardous materials safety for residents.

[25-3733](#)

Attachments: [2025-Hazardous Materials Commission Flyer](#)
[Information Tables Room Layout Sept 11 2025 Forum](#)
[HMC Public Forum Sept 11 2025 Planning rev 3](#)

RECEIVE a presentation from each of the five panelists: Contra Costa Hazardous Materials Program, Contra Costa Fire Protection District, Central Contra Costa Sanitary District, Community Warning System, and Bay Area Air District.

[25-3734](#)

Attachments: [CCH Forum Presentation](#)
[Con Fire Lithium Ion Batteries](#)
[CentralSan - CCCHMP Forum Presentation](#)
[2025 CWS Presentation - HazMat](#)
[Bay Area Air District Complaint Program](#)

PROVIDE additional information and resources for the Hazardous Materials Commission and some of the topics they have worked on. The Hazardous Materials Commission and the panelists will each have a table with pertinent information and resources available in Conference Room 110ABC.

[25-3735](#)

Attachments: [Hazardous Materials Commission Details](#)
[HMC Internship Flyer redacted](#)
[HazMat_Ombudsperson-Flyer](#)
[Lithium Ion Battery Safety](#)
[PFAS](#)
[North Richmond Living Levee](#)
[Living Levee Images](#)

The Committee will provide reasonable accommodations for persons with disabilities planning to attend the Committee meetings. Contact the staff person listed below at least 72 hours before the meeting. Any disclosable public records related to an open session item on a regular meeting agenda and distributed by the County to a majority of members of the Committee less than 96 hours prior to that meeting are available for public inspection at 1220 Morello Avenue, Suite 200, Martinez, CA 94553, during normal business hours. Staff reports related to items on the agenda are also accessible online at www.contracosta.ca.gov. If the Zoom connection malfunctions for any reason, the meeting may be paused while a fix is attempted. If the connection is not reestablished, the committee will continue the meeting in person without remote access. Public comment may be submitted via electronic mail on agenda items at least one full work day prior to the published meeting time.

For Additional Information Contact: Adam Springer at 925-655-3216



CONTRA COSTA COUNTY

1025 ESCOBAR STREET
MARTINEZ, CA 94553

Staff Report

File #: 25-3733

Agenda Date: 9/11/2025

Agenda #:

Advisory Board: Hazardous Materials Commission

Subject: Public Forum Flyer

Presenter: Hazardous Materials Commission

Information:

Attached to this agenda item is a flyer for the Hazardous Materials Commission's public forum: Hazardous Materials Safety for Residents and additional information about the forum.

Recommendation(s)/Next Step(s):

HOLD a public forum on hazardous materials safety for residents.

THE CONTRA COSTA COUNTY HAZARDOUS MATERIALS
COMMISSION PRESENTS A PUBLIC FORUM



Hazardous Materials Safety for Residents



Thursday, September 11, 2025 | 4 p.m. - 6 p.m.

LEARN ABOUT

- Household hazardous waste and pharmaceutical disposal
- Rechargeable batteries safety
- Hazardous Materials Incident Prevention and Response
- Community Warning System
- Reporting odors and air pollution

PANELISTS AND INFORMATION TABLES FROM

- Contra Costa County Hazardous Materials Program
- Contra Costa Fire Protection District
- Central Contra Costa Sanitary District
- Community Warning System
- Bay Area Air District



In-person at the Contra Costa County, Administration Building,
1025 Escobar Street, Martinez

Doors open at 3:30 p.m. Please arrive early; you will need to pass through a security checkpoint to enter the building.



Via Zoom at this link cchealth.zoom.us/j/99537244542

Pre-registration not required

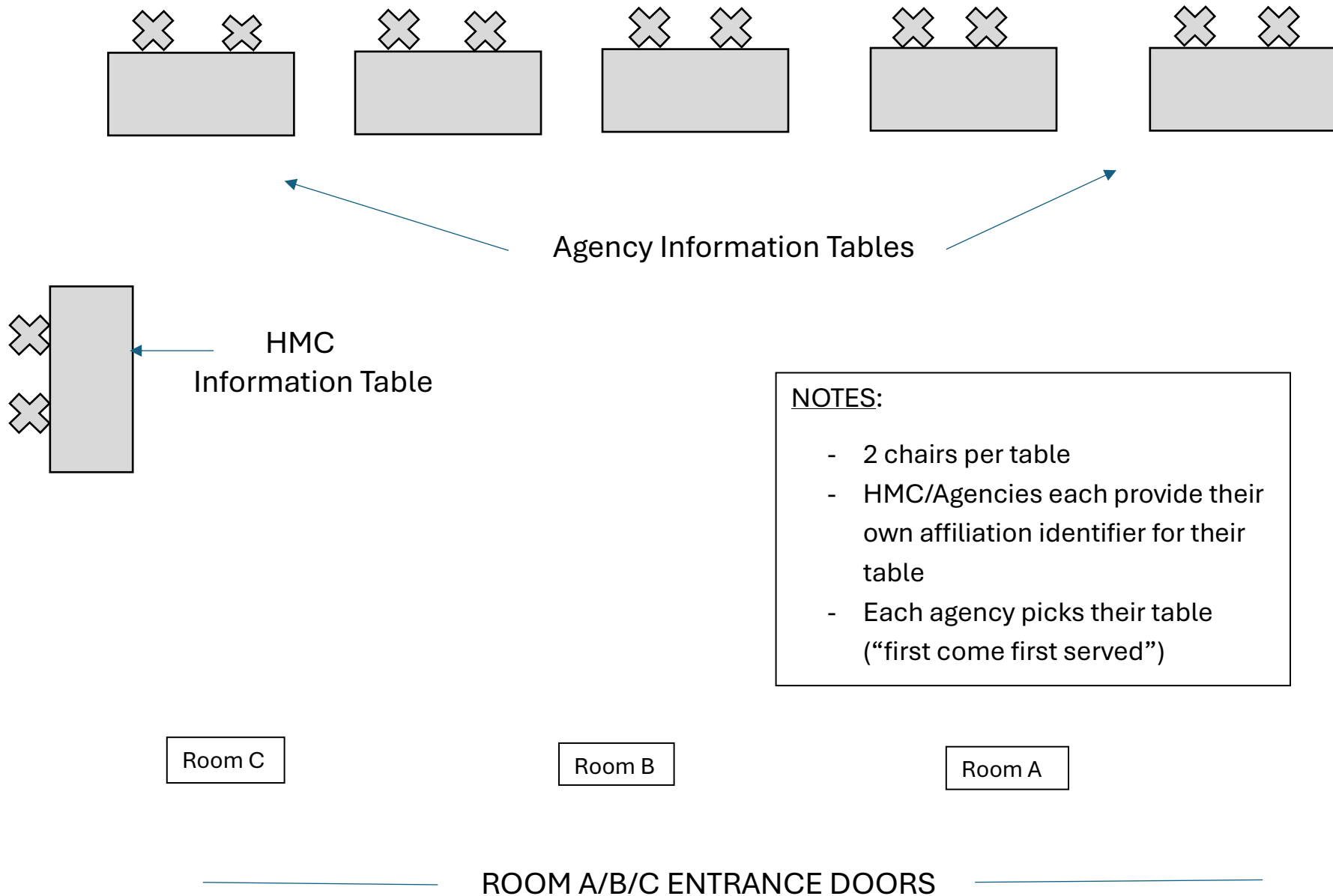


The forum will be recorded and the recording posted on the Contra Costa County Hazardous Materials Commission's webpage

cchealth.org/about-contra-costa-health/leadership/commissions-advisory-groups/hazardous-materials-commission



SEPT 11 FORUM INFORMATION TABLES ROOM LAYOUT



Proposed Forum agenda and some logistics

3:00 pm: HMC members and staff begin to arrive Room C to confirm responsibilities, set up the information tables, prepare for Forum attendees to arrive

3:15 pm: HMC members and staff arrive Room C no later than this time

3:30 pm: doors open for the public

3:30 -3:55 pm: people view/mingle at information tables or wait in the Forum main room

3:55-4:00 pm: HMC and staff herd people into the Forum main room

4:00-4:05 pm: HMC chair welcome, introductions, etc.

4:05-5:15 pm: the five panelists present/speak. Target 10-12 minutes each; 14 minutes max:

Panelist 1 4:05-4:19 pm

Panelist 2 4:19-4:33 pm

Panelist 3 4:33-4:47 pm

Panelist 4 4:47-5:01 pm

Panelist 5 5:01-5:15 pm

5:15-5:30 pm: moderated Q&A

5:30-6:00 pm: people view/mingle at information tables

[can adjust timeline based on amount of in-person attendance, e.g., longer Q&A seems wise]

No food or beverages provided

Attendee sign-in sheet at entrance: name, where live (city/town), elected official or their staff? (specify if yes), with an organization? (specify if yes), contact info (optional). HMC/staff use sign-in info to gauge interest in the Forum and identify which Supe Districts attendees are from (BOS would likely want to know).

In-room questions written on index cards, collected and then organized/combined/summarized by Q&A organizers/readers and read to panelists.

On Zoom webinar questions submitted via webinar Q&A feature. Staff writes submitted questions onto index cards and gives the index cards to Q&A organizers/readers. Staff to do webinar dry run in advance, and invite Operations Committee's ad hoc committee to participate/observe.

Won't use Zoom chat feature; is too distracting.

In Room A/B/C (Information Tables room), Staff will log into the Forum's Zoom link so that the panel presentations (activities in the Forum main room) will be shown on screen in Room A/B/C.

HMC roles/jobs at the Forum (commissioners sign-up):

HMC Information table (2): Maureen, Lou

Greeters (2): Lisa, Fred (?) - manage sign-ins, provide directions to rooms

HMC Chair (1): Mark - opening remarks, intro panelists, moderate Q&A, adjourn Q&A

Q&A index card hand-outers/collectors (2): Lisa

Q&A questions organizer/reader to assist staff (1): Jamin

Timekeeper: Jim (Breanna will bring yellow, green, red folders to hold up--- to indicate each panelist's remaining time)

Floater (1): Madeline

Willing to do any role: Fred, Aaron, Jamin

Note: Commissioners could do multiple roles and roles can be adjusted as needed during the Forum.

County staff roles at the Forum: Coordinate the presenters. Zoom host and assistant. Liaison with County Tech/IT support and building security personnel. 1-2 people organize/read questions submitted during Q&A. Webinar assistant to write online questions submitted onto index cards and hand the index cards to Q&A organizers/readers.

Forum main room: BOS Chambers

Information tables: in separate room (Room A/B/C), located on first floor and across the entranceway from the BOS Chambers.

Note: Breanna has reserved the two rooms for 9/11/2025 and requested max. Tech/IT support. However, Rooms A & B have been reserved until 3:30 pm by/for someone else.

Have at the HMC information table:

Info/resources on select (five) issues the HMC has studied/is studying. Laminated stand-up frames to hold images and typed info (Maureen and Jamin have frames; Maureen to put items into frames). Few handouts. Forum flyers with QR codes at table for links to HMC and presenters' webpages (likewise have flyers at panelist organizations' tables). OK to have handouts from entities that have been invited presenters at HMC meetings if the entity asks.

- Pharma collection bin photo (Adam got)
- Li ion battery safety flyer (Marielle provided; also request ConFire to have flyer at their table)
- Sea level rise: graphic(s) from living levee presentation (Jamin prepared)
- PFAS (Jamin prepared)
- Brownfields redevelopment: Center for Creative Land Recycling tri-fold brochures (Maureen has one, requested 20 more)
- About the HMC: description, activities list (things noted in prior annual reports), meeting schedule, link to where videos of HMC meetings are posted (Adam obtained)
- HMC intern program application flyer (Breanna has)
- Contact info for the County Haz Mat ombudsperson, description of their role (Breanna getting)
- Invite current & past HMC interns to be at HMC table (Breanna did, thus far just Mylene coming)
- Invite the County Haz Mat ombudsperson to be at the HMC table (done; will attend)

Forum Welcome and Introduction talking points:

- Welcome
- What HMC is, report to the BOS, our priorities (inspirational, how important the HMC is)
- Thank BOS for sponsoring us
- Point out any elected officials/their staff present (get info from Forum sign-in sheet)
- Room safety, emergency exits
- Meeting logistics (agenda and time frames, include how will do Q&A: in room and Zoom, indicate if you want your question directed to a specific panelist)
- Note the meeting being recorded on Zoom and recording will be posted on HMC webpage

Forum To Do's Checklist (indicate who is responsible for having what done by when)

TASKS	WHO	BY WHEN	STATUS
Secure panelists: explain our expectations for their panelist talk (time limit, what we want them to cover), tell them they each will have an information table for their organization, relay any requests we have re their information table (eg, ConFire: Lithium ion battery safety handout, CWS: handout/means for people to sign-up for CWS, BAAD: what is flaring flyer, Central San: info/flyers re household HW drop-off locations in neighboring jurisdictions in the County)	Adam/staff	Next Operations Committee meeting (August 8, 2025)	Complete
Procure/create hand-out documents for HMC information table that need to be copied and email to ad hoc committee/Marielle	Various	Sept. 2	Complete
Provide hand-out documents for HMC information table to County staff (Adam) to make copies, 20 copies max each of items to be in frames at the HMC Information Table	Ad Hoc Committee collect and email in one email to Adam	Sept. 5	Complete
Make copies of documents for HMC information table	Adam	Sept. 10	Complete except for ConFire Li Ion Battery safety flyer Ombudsperson info

TASKS	WHO	BY WHEN	STATUS
Bring document copies for HMC information table to the Forum	Adam	Sept. 11	
Prepare and bring to Forum: flyer QR codes for display at Information Tables (HMC and agencies)	Staff	Sept. 11	
Prepare name/affiliation card stock inserts for dais identifier slots for panelists	Adam	Sept. 10	
Invite County Haz Mat ombudsperson to join HMC information table...also invite them to attend a HMC meeting (August 2025) so that HMC can meet them	Adam		Complete
Invite current and forum HMC interns to attend Forum and join HMC information table	Breanna	August 28	Complete
Get Forum info to County PIO so they can create Forum advert/flyer and advertise on social media, etc.	Breanna	Right after July 11, 2025 Operations Committee meeting	Complete
Review and comment on Forum advert/flyer draft	Operations Committee ad hoc committee (Lou, Maureen and Marielle)	Before August 1, 2025 –so can finalize at August 8, 2025 Operations Committee meeting	Complete
Confirm/finalize Forum advert/flyer. Are 3 flyers: English w QR codes, English w clickable links, Spanish	Operations Committee	Do at August 8, 2025 meeting	Complete
Provide electronic copy of Forum advert/flyer to HMC commissioners so commissioners can share with their organizations, etc.	Adam	Early August	Complete-English versions
County staffs (PIO, Haz Mat program) to disseminate Forum/advert flyer per their standard distribution lists and means. Distribution to include: public libraries, BOS offices, HMC interested parties, MACs, City Halls	Staff	PIO social media push typically done 1 week in advance	In progress
PIO pursue/consider alerting local News media (e.g., East Bay Times, KCBS) of the Forum	PIO		In progress—looking into doing a press release

TASKS	WHO	BY WHEN	STATUS
Assign a timekeeper to track time during the Forum and help keep Forum activities on schedule	HMC		Complete
Ensure means for simultaneous translation (closed captions with translation?) of the Forum (welcome/opening remarks, panelists and Q&A portions) available for Zoom attendees	Staff	Sept. 10	
Confirm/assign who organizes the Q&A questions (in room and on Zoom) and who reads questions to panelist(s)	Adam/staff		
Determine room layout for information tables, how many people could fit at HMC table, other logistics info (e.g., the rooms' safety info to state in Forum welcome, ask building security how to keep the entrance line moving—HMC greeters can help?).	Operations Committee	Do at August 8, 2025 Operations Committee meeting	Complete
Have HMC Commissioners sign-up for Forum roles	Adam/staff	Confirm at August 28, 2025 HMC meeting	Nearly complete-finalize on Sept 11
Procure and bring to the Forum: index cards and some pens/pencils for Q&A	Adam/staff	Sept. 11	Delivery ordered
Assign/confirm Zoom webinar host	Adam/Breanna		Complete
Set up information tables and chairs in Room A/B/C per prepared room layout	HMC and staff	Do on September 11, 2025	
Write HMC chair welcome/opening remarks (to be 5 minutes long max)	Jamin & Marielle	Draft by August 8, 2025 Operations Committee meeting. Finalize before Sept. 11	Complete
Ensure recording of ConFire presentation re Li ion battery safety made at HMC meeting can be easily found via HMC webpage. Also add NFPA video and webpage link re Li Ion battery safety to HMC webpage, in resources section	Adam/Breanna	Sept. 5	Complete
Have requested HMC webpage updates/edits done (as requested by	Adam	Sept. 5	Complete

TASKS	WHO	BY WHEN	STATUS
the Operations Committee on August 8)			
Do Zoom dry run: to confirm Forum room cameras function as desired, confirm how to use Q&A function, familiarity with Zoom webinar feature, etc.	Staff	During week of Sept. 1	
Procure and bring to the Forum: peel & stick name tags for HMC commissioners, staff, panelists to wear during the Forum	Adam/staff	Sept. 11	Name tags ordered
Prepare and bring to the Forum: attendee sign-in sheet	Adam/staff	Sept. 11	
Prepare webinar slides: Forum title slide, slide with QR codes and links for HMC webpage and agency websites	Staff	Zoom dry run date	
Post Forum recording on HMC webpage	Adam	After Sept. 11	



CONTRA COSTA COUNTY

1025 ESCOBAR STREET
MARTINEZ, CA 94553

Staff Report

File #: 25-3734

Agenda Date: 9/11/2025

Agenda #:

Advisory Board: Hazardous Materials Commission

Subject: Panelist Presentations

Presenter: Forum Panelists

Information:

Attached to this agenda item are PowerPoint presentations from each of the five public forum panelists.

Recommendation(s)/Next Step(s):

RECEIVE a presentation from each of the five panelists: Contra Costa Hazardous Materials Program, Contra Costa Fire Protection District, Central Contra Costa Sanitary District, Community Warning System, and Bay Area Air District.



cchealth.org

Certified Unified Program Agency

Contra Costa Health HazMat Forum Presentation

September 11, 2025

The Unified Program was established by California Senate Bill 1082 (Calderon) in 1993.

A Certified Unified Program Agency (CUPA) is a local agency certified by CalEPA to implement and enforce six state hazardous waste and hazardous materials regulatory management programs



CALEPA

CalEPA oversees California's Unified Program. The program protects Californians from hazardous waste and hazardous materials by ensuring local regulatory agencies consistently apply statewide standards when they issue permits, conduct inspections, and engage in enforcement activities.

Hazardous Waste Generator and Onsite Hazardous Waste Treatment (tiered permitting) Programs

Hazardous Materials Release Response Plans and Inventories (Business Plan)

California Accidental Release Prevention (CalARP) Program

Underground Storage Tank (UST) Program

Aboveground Petroleum Storage Act (APSA)

California Uniform Fire Code: Hazardous Material Management Plans and Hazardous Materials Inventory Statements

Six CUPA Programs



Contra Costa County CUPA

20 Specialists and 1 Technician

NH1

7 CalARP Engineers

1 Pollution Prevention Specialist

4 Supervisors

1 Hazardous Waste Reduction Manager

1 Assistant Director

1 Director

3 Clerical Staff



Elements of an Inspection

Conduct Routine Inspections at regular intervals

Usually Unannounced

An inspection report is generated after each inspection.

The inspection report will include any alleged violations

Publicly available for review

Process-Based Inspections

Documentation Review

APSA PROGRAM

Regulate tank facilities that have an aggregate storage capacity of 1320 gallons or more of petroleum.

Petroleum means crude oil or a fraction thereof that is liquid at 60 degrees Fahrenheit.



APSA INSPECTION HIGHLIGHTS

SPCC plan

Secondary
Containment

Overfill
Prevention

Tank Integrity
Testing

Inspections

Training

UNDERGROUND STORAGE TANKS

Regulate Underground Storage Tanks

Protects the public and environment from releases of petroleum and other hazardous substances from USTs.

Requires UST systems to install and maintain leak detection equipment.



INSPECTIONS

Witness Annual Monitoring Certification

Witness Testing of Leak detection Equipment

Plan Check

Construction/Modification Permits



CALARP AND INDUSTRIAL SAFETY ORDINANCES

Administer	Administer the California Accidental Release Prevention Program and the Industrial Safety Ordinance
Reduce	Goal is to reduce the likelihood of extremely hazardous materials releases.
Audit and Inspect	Audit and inspect facilities once every three years and document the results of each audit/inspection

HAZARDOUS MATERIALS BUSINESS PLAN

Businesses
provide chemical
inventory to
CUPA

Site Map

Emergency
Response Plan

Hazardous Waste Generator Program



Over 2500 permitted facilities

Any business that generates any amount of hazardous waste

- Large Quantity Generators
- Small Quantity Generator
- Very Small quantity generators

Tiered Permitting- Treatment of hazardous waste

3 Household Hazardous Waste Facilities

STORAGE AND HANDLING OF HAZARDOUS WASTE





Hazardous Waste Storage

Containers maintained closed and in good condition

Container material compatible with material stored

Properly Labeled

Inspected Weekly

HAZARDOUS WASTE LABELS

- The Words “Hazardous Waste”
- Contents of the Container
- Name and Address of the Generator
- Hazardous Properties of the Waste-
Flammable, Corrosive, Toxic...
- Physical State- (Gas, Liquid, Solid)
- Accumulation Start Date



Storage Times

Storage times for hazardous waste depend on the quantity being stored and the rate at which it is generated. The following guidelines apply:

- Large Quantity Generators (LQG): Waste can be stored for up to 90 days.
- Small Quantity Generators (SQG): Waste may be stored for a maximum of 180 days.
- Very Small Quantity Generators (VSQG): Once 100 kg of waste has accumulated, the total accumulation time must not exceed 180 days.

RECORDS



TRAINING



TANK INTEGRITY
TESTING



CONTINGENCY
PLAN



DISPOSAL RECORDS



WEEKLY/DAILY
INSPECTIONS

STANDARD WASTE STREAMS PRODUCED BY HAZARDOUS WASTE GENERATORS

REFINERIES

Oil Waste

Waste sludges

Spent Catalyst

Solvents

Tank Bottoms

Benzene

Laboratory waste chemicals



AUTOMOTIVE

Used Oil

Waste Antifreeze

Used oil Filters

Solvents- Parts washers









SCHOOLS



LABORATORY WASTES-
ACIDS/BASES



USED OIL



WASTE ANTIFREEZE



WASTE SPECIMENS



WASTE PAINT



VAPE PENS



USED PHOTO FIXER
WASTE





RETAIL MARKETS

Over the counter medications
Flammables-Lighting fluid, Perfumes
Household Cleaning products
Cosmetics
Lotions







MACHINE SHOP

Waste Oil

Water Soluble Coolant

Sludges with Metals

Bead Blast Media

Scrap Metals



LABORATORIES

Acids/Bases

Solvents

Toxics

Flammables

Lab Packs



PROGRESSIVE ENFORCEMENT

Inspections

Violations

- Minor
- Class II
- Class I

Notice of Violation

Formal Enforcement

- District Attorney
- Administrative Enforcement Order (AEO)



INCIDENT RESPONSE

Respond to chemical incidents throughout the county

Type 1 Team

Mitigate Spills

Community Air Monitoring

Drug Labs

Biological Agent Detection

Chemical Detection

Radiation detection

INCIDENT RESPONSE

6 Hazardous Materials Specialists available 24/7



1 CalARP Engineer



1 Supervisor



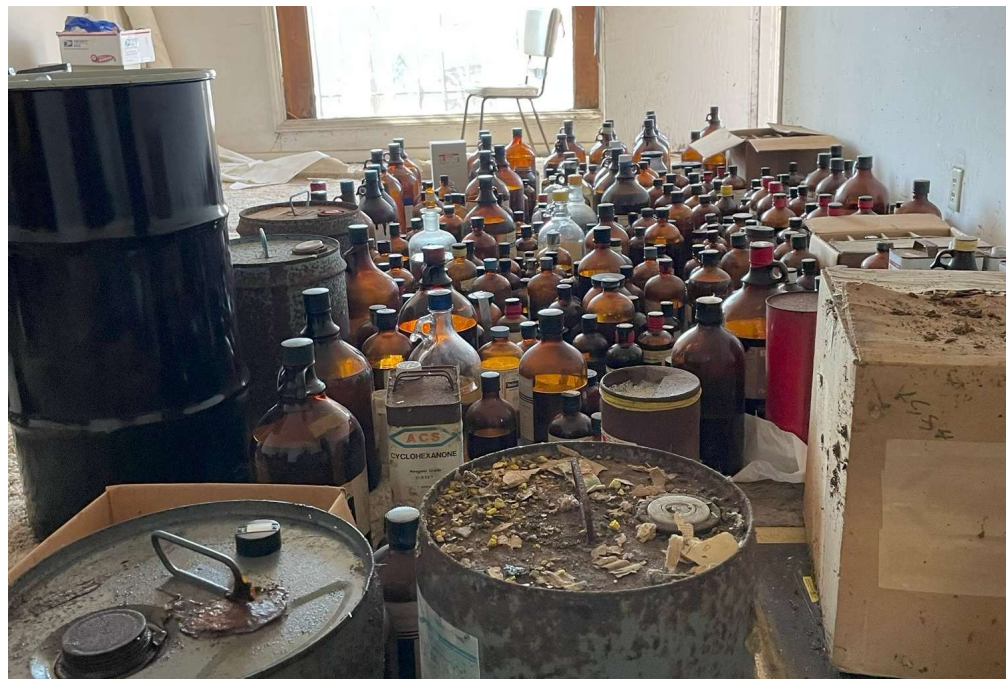
1 Manager







CHEMICAL HAZARDS







cchealth.org



CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT
FIRE • RESCUE • EMS

LITHIUM-ION BATTERY EMERGENCIES

Cody Clem
Captain Paramedic
Hazardous Materials Specialist
Contra Costa County Fire Protection District

Service • Leadership • Teamwork • Safety and Preparedness • Professionalism • Integrity



CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT FIRE • RESCUE • EMS

MEETING OBJECTIVES

This presentation will be a brief introduction about the growing risks linked to lithium-ion battery fires. I will briefly describe incidents from around the state of California as well as incidents that have happened in Contra Costa County. Concluding with the Take Charge campaign which is the focus of Fire Prevention Month 2025.



CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT
FIRE • RESCUE • EMS

EVERYDAY LITHIUM-ION BATTERY USE



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CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT
FIRE • RESCUE • EMS

EVERYDAY LITHIUM-ION BATTERY USE



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CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT
FIRE • RESCUE • EMS

EVERYDAY LITHIUM-ION BATTERY USE



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CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT
FIRE • RESCUE • EMS

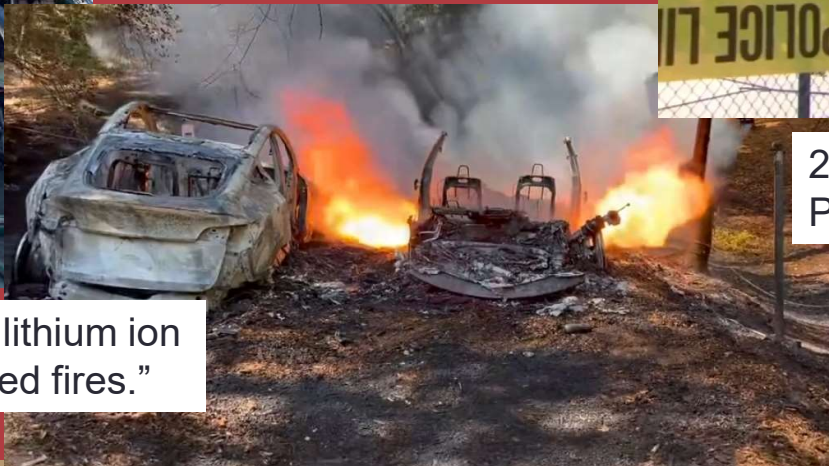
EVERYDAY USE = EVERYDAY PROBLEMS



Tesla Fire Hunsaker Canyon



2 critically injured in two-alarm
Pittsburg apartment fire



“Contra Costa Fire officials warn of lithium ion battery dangers after series of related fires.”

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CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT
FIRE • RESCUE • EMS

CYLINDRICAL CELLS



Cylindrical cells are commonly used in everything from vape pens, micro mobility devices like scooters and bikes, to commercial busses, trucks, and storage systems. One 18650 lithium-ion battery can produce eight liters of toxic/flammable gas. Many devices use several 18650 cells to work. In the case of a typical electric bike/scooter, the battery may contain between 50 and 130 cells. Some Tesla models have more than 7,000 cells.

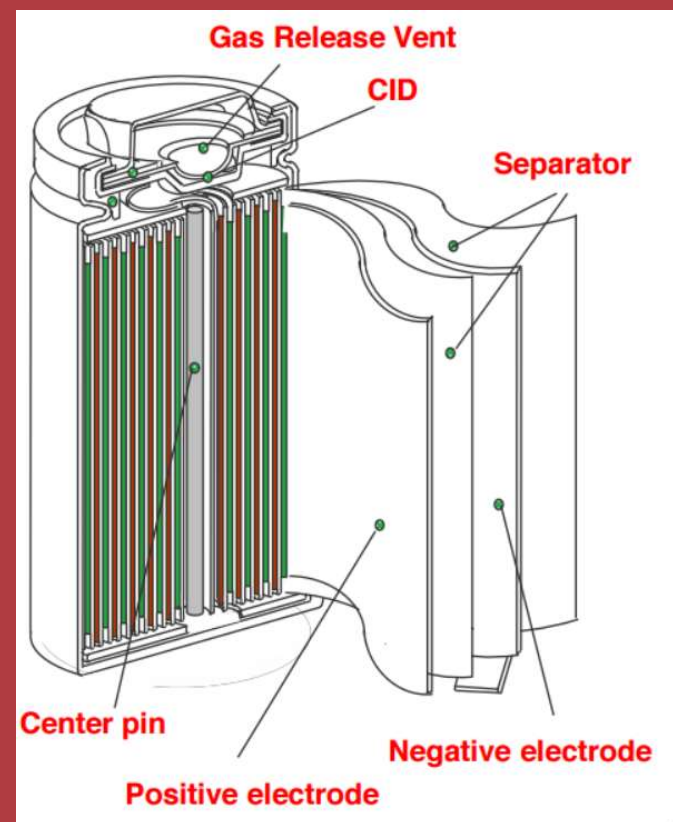
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CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT FIRE • RESCUE • EMS

CHEMICAL COMPOSITION

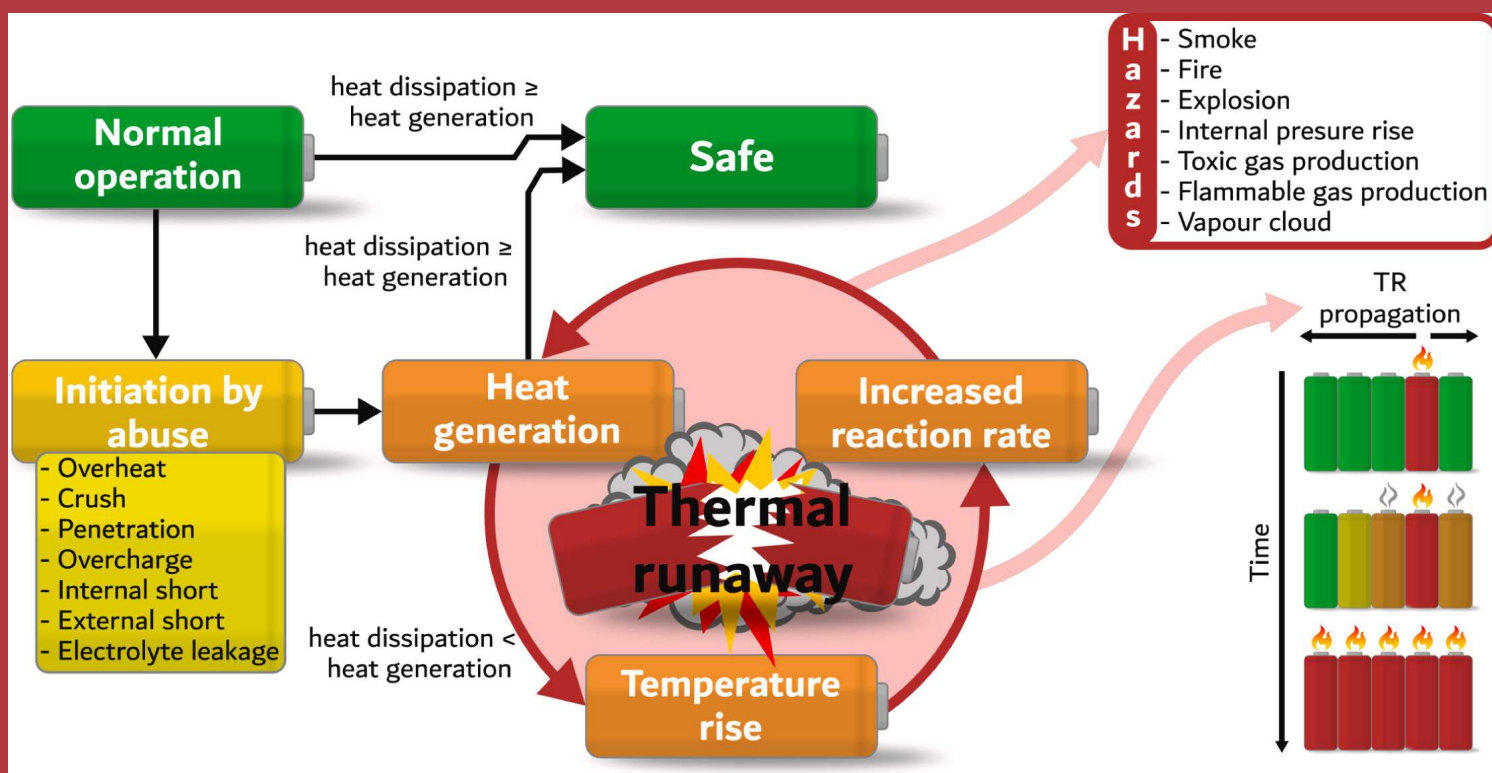
- The chemistry for lithium-ion batteries are numerous but the design is mostly the same. The most common ones in use are nickel manganese cobalt (NMC), nickel cobalt aluminum (NCA), and lithium iron phosphate (LFP) or (LiFePO_4). Each chemistry has a specific strength of application.





CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT FIRE • RESCUE • EMS

PROCESS OF THERMAL RUNAWAY



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CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT FIRE • RESCUE • EMS

WHAT TYPE OF GASSES?

- **Flammable**

- Carbon Monoxide
- Hydrogen
- Various Hydrocarbons
- Methane
- Ethane
- Ethylene
- Etc..

- **Toxic**

- Carbon Dioxide
- Hydrogen Fluoride
- Hydrogen Cyanide
- Hydrogen Chloride
- Nitrogen Dioxide
- Sulfur Dioxide
- Carbonyl Fluoride
- Phosphoryl Fluoride



CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT
FIRE • RESCUE • EMS

METAL PARTICULATE MATTER

- 12,000 – 17,000 times the EPA ambient standard for particulate matter
- Lithium
- Nickel
- Cobalt
- Manganese
- Copper



CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT
FIRE • RESCUE • EMS

BATTERY ENERGY STORAGE SYSTEMS

- Diablo Energy Storage 200Mw of energy.
- 1 Megawatt = 1,000 Kilowatts
- Average home uses 800-1000Kw a month.
- Multiple smaller systems have been installed in the county.



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CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT
FIRE • RESCUE • EMS

MOSS LANDING (MONTEREY CO)

- PG&E Energy Storage Facility
- Was not the first fire at this location (2021 & 2022)
- Evacuations of 1,700 people
- EPA utilized for air monitoring surveillance
- Initial concern is of HF but has evolved into long term effects of heavy metals



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The National



2018/07/29 17:31:54





INDEPENDENT



CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT
FIRE • RESCUE • EMS

OTAY MESA INCIDENT (SAN DIEGO CO.)

- Fire occurred in May of 2024
- Burned for over a week.
- Clean up is still on going at the site. Expected completion late 2025
- EPA utilized for air monitoring surveillance and water monitoring operations



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CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT FIRE • RESCUE • EMS

SEASIDE INCIDENT (LOS ANGELES)

- BESS during transport fell off truck.
- Mechanical / Physical Damage cause Thermal Runaway.
- Shut down major freeway for nearly 48 hours.
- Projected \$900,000,000 in Port revenue loss
- 6 Firefighters injured
- EPA utilized for air monitoring surveillance



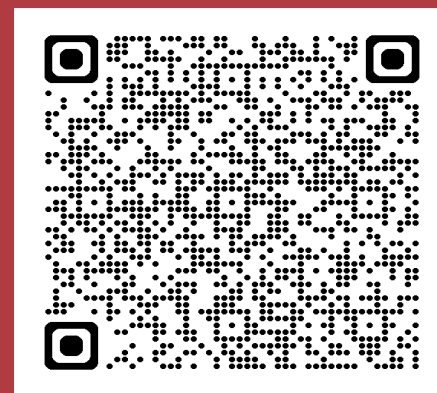




CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT FIRE • RESCUE • EMS

- C – Choose certified products
- H – Handle with care
- A – Always stay alert for warning signs
- R – Recycle batteries and devices properly
- G – Get out quickly if there's a fire
- E – Educate others about battery safety

TAKE CHARGE
OF BATTERY SAFETY



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9/11/2025

Central Contra Costa Sanitary District

Household Hazardous Waste (HHW)

Geoff Niswander

Senior HHW Technician



Contra Costa HHW Programs

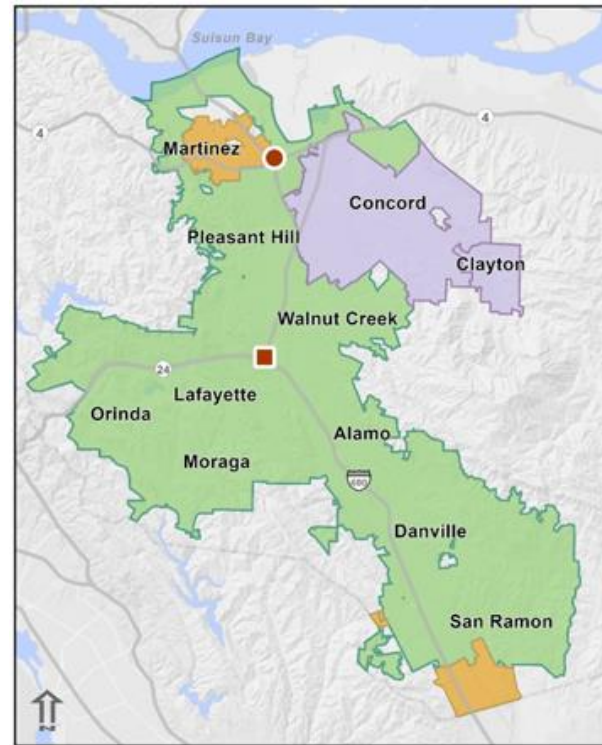
West County



RecycleMore

www.recyclemore.com/hazardous-waste/

Central County



Central San

www.centalsan.org/hhw

East County

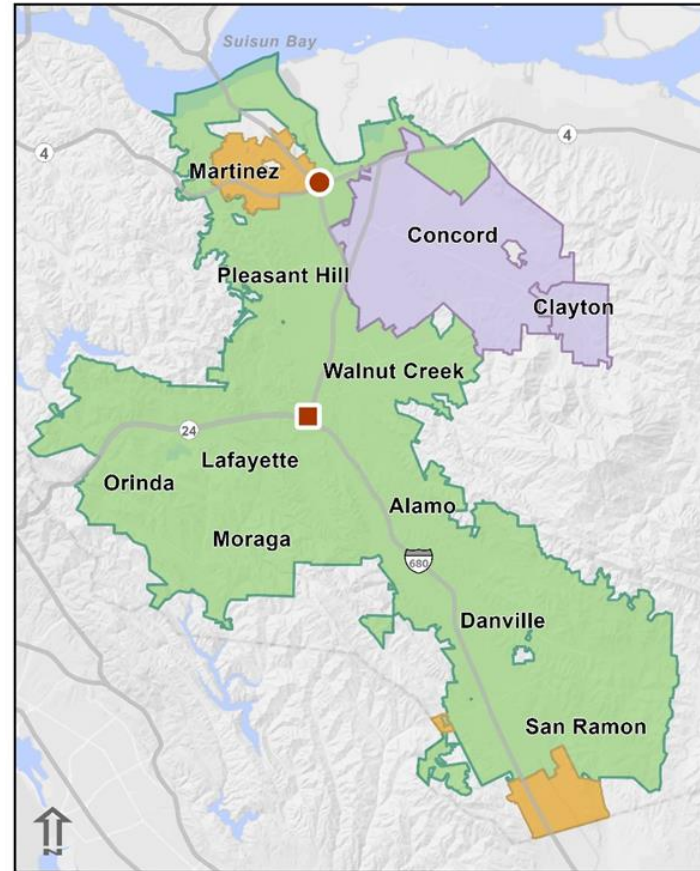


Delta Diablo HHW

www.deltadiablo.specialdistrict.org/household-hazardous-waste

Who Are We?

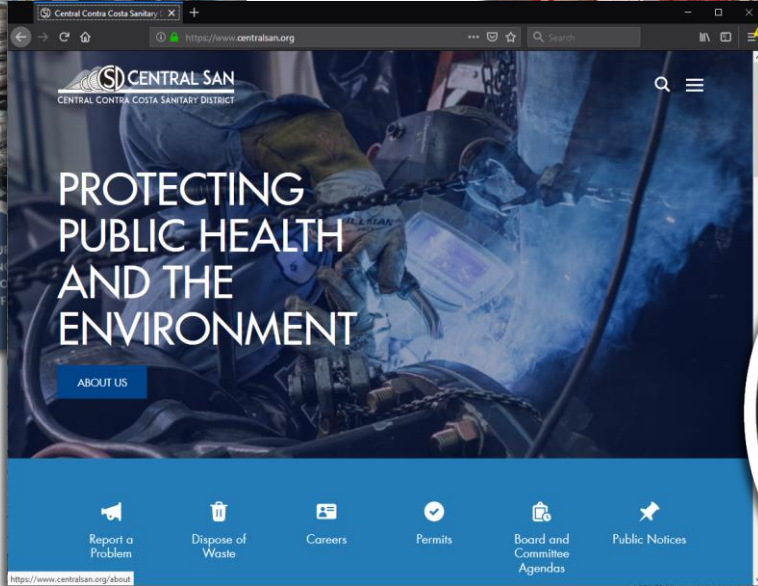
- Wastewater treatment
- ~1400 Miles of pipe
- ~199,700 Households
- ~32,000 HHW customers per year
- >52 Million Pounds of Waste
 - Since opening in 1997



Central San serves nearly 500,000 customers

- Sewage collection and wastewater treatment; Household Hazardous Waste (HHW) disposal for 485,040 people. These services are provided over a 145-square-mile area.
- Wastewater treatment & HHW disposal for 133,393 residents in Concord and Clayton by contract. These services are provided over a 30-square-mile area.
- HHW disposal only. These services are provided over a 9-square-mile area.
- Central San headquarters, treatment plant, HHW Facility and Residential Recycled Water Fill Station.
- Collection System Operations headquarters.

CENTRALSAN.ORG



webmail@centralsan.org

No Wipes Down Pipes



What is Household Hazardous Waste (HHW)???

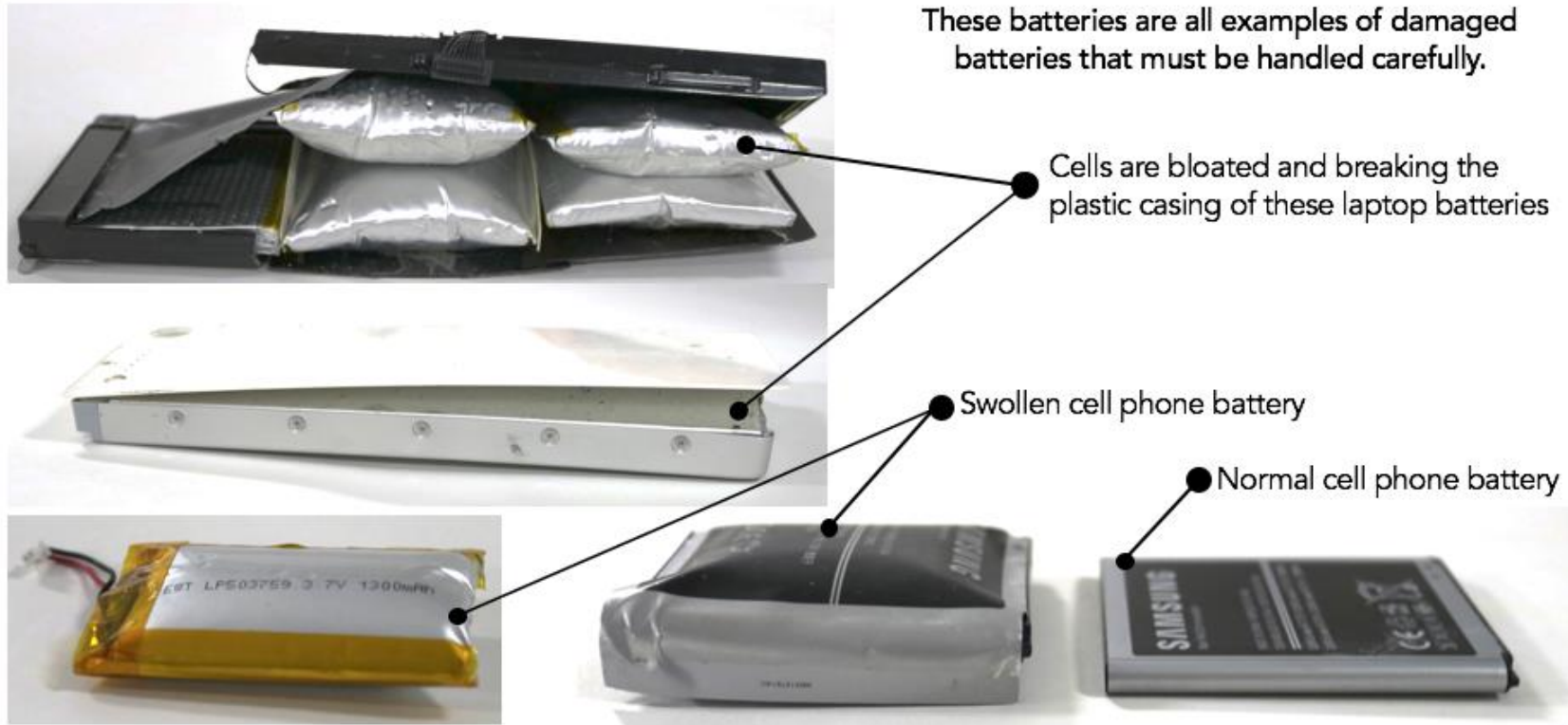
- Paint and related materials
- Lightbulbs
- Batteries
- Lawn/Garden Products
- Automotive Products
- Cleaning Products
- Personal Care Items (Not Pharmaceuticals/Sharps)



Let's talk about batteries!!



Damaged, Defective, or Recalled Batteries (DDR)



How to Safely Handle and Dispose of DDR Batteries

- DO NOT puncture the battery
- Do not use the device or battery
- Do not expose to water or liquids
- Tape battery terminals
- Place into a metal container. DO NOT seal the container
- Cover the battery with DRY and clean sand, dirt, or kitty litter.
- Secure the metal container in your vehicle (preferably in a truck bed or trunk) to prevent tipping or impact
- Bring <300Wh batteries to the HHW facility

Pharmaceuticals and Sharps

- Use FREE collection programs
 - [Medproject.org](https://www.medproject.org)
 - Located at most retail and Kaiser pharmacies
 - Mail-back option also available
 - [Sharpstakebackcalifornia.org](https://www.sharpstakebackcalifornia.org)
 - Mail-back only
 - Sharps containers and all postage included and FREE
 - Up to three containers per order



MED-Project[®]
Medication Education & Disposal

Residential Recycled Water Fill Station

- Co-Located with HHW Facility
- For use on landscaping and gardens **ONLY**
- Residents can take up to 300 gallons per visit
- Learn more at:
<https://www centralsan.org/post/residential-recycled-water-fill-station>



Thank you!!

Contact Info

[www.centralsan.org/HHW](http://www centralsan.org/HHW)

Residential HHW: (800) 646-1431 or HHWINFO@centralsan.org

Small Business Hazardous Waste: (800) 646-1431 Option 5 or CESQG@centralsan.org

Residential Recycled Water: (925) 335-7717 or RESIDENTIAL@centralsan.org





CONTRA COSTA COUNTY COMMUNITY WARNING SYSTEM

**Contra Costa County Office of the Sheriff
Emergency Services Division**



Community Warning System

CWS is an all-hazards mass notification system that alerts the community of action-based emergencies.

These include:

- ▶ Evacuation Orders/Evacuation Warnings
- ▶ Shelter in Place
- ▶ Law Enforcement Activity
- ▶ Avoid the Area
- ▶ Attempt to Locate Missing Person



CWS is used when...

There is an imminent hazard to human health or life & immediate protective action is required

- ▶ **Life-threatening**
- ▶ **Serious health risk**
- ▶ **Current risk**
- ▶ **Potential future risk due to current hazard**
- ▶ **Face-to-face notification is either unsafe or unrealistic due to size**

CWS Alert Activation Process



▼ Content

Severity: High Type: Other English (US)

Title * EVACUATION ORDER in San Pablo Davis Park due to FIRE. Info at CWSAlerts.com

Body

This is a message from the San Pablo Police Department. An IMMEDIATE EVACUATION ORDER has been issued due to a Fire at Davis Park.

This is an EVACUATION ORDER. LEAVE IMMEDIATELY and go to Contra Costa College Gymnasium. Take only essential items you have ready and can carry with you. Pets must be in a carrier or on a leash. Stay off the phone unless you must.

Response Options

Custom Response Options

1 Enter Response Text ☐ Call Bridge

Add Response Option

Add Bilingual Edit Español (México)

More Info Link <https://cwsalerts.com/> Test URL

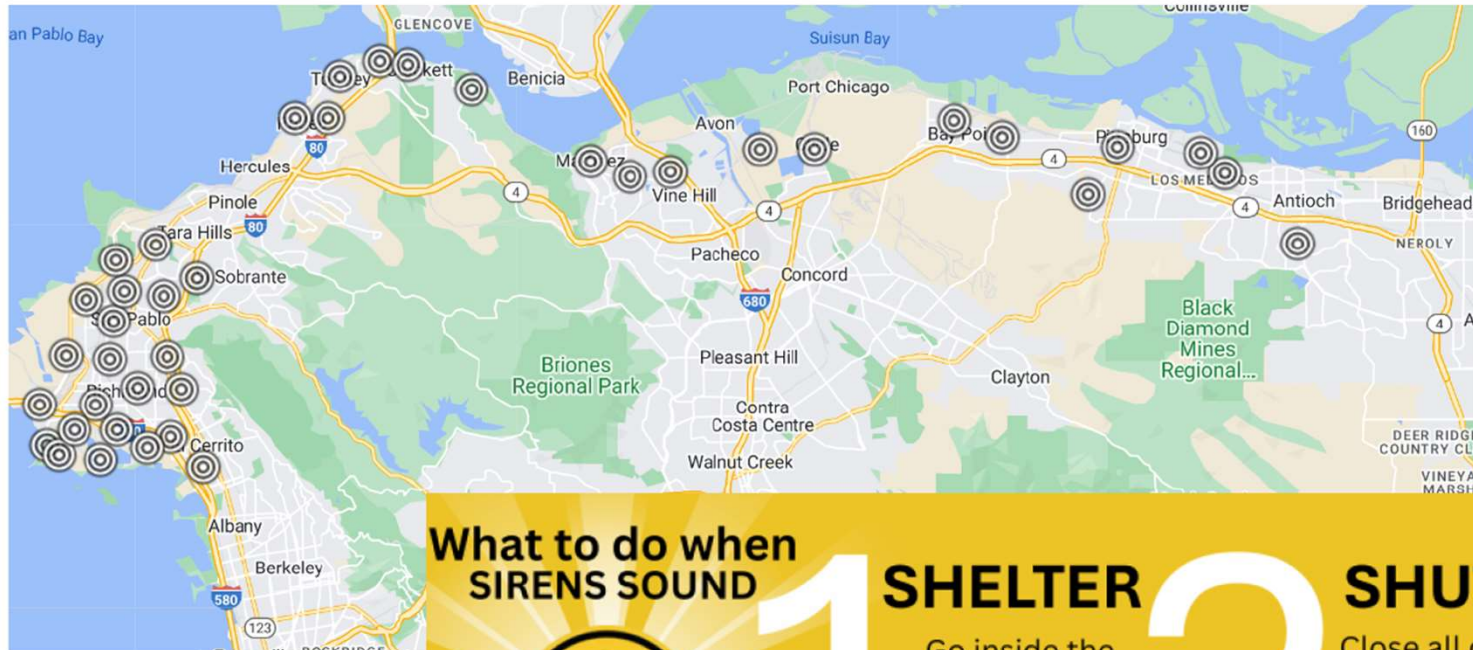
Location

Locations selected here will target all user geolocation attributes, plus Last Known Location Updated within the past 4 Hour(s)

CWS Notification Tools



CWS SIRENS



**What to do when
SIRENS SOUND**



1

SHELTER

Go inside the
nearest
building or
classroom

2

SHUT

Close all doors
and windows

3

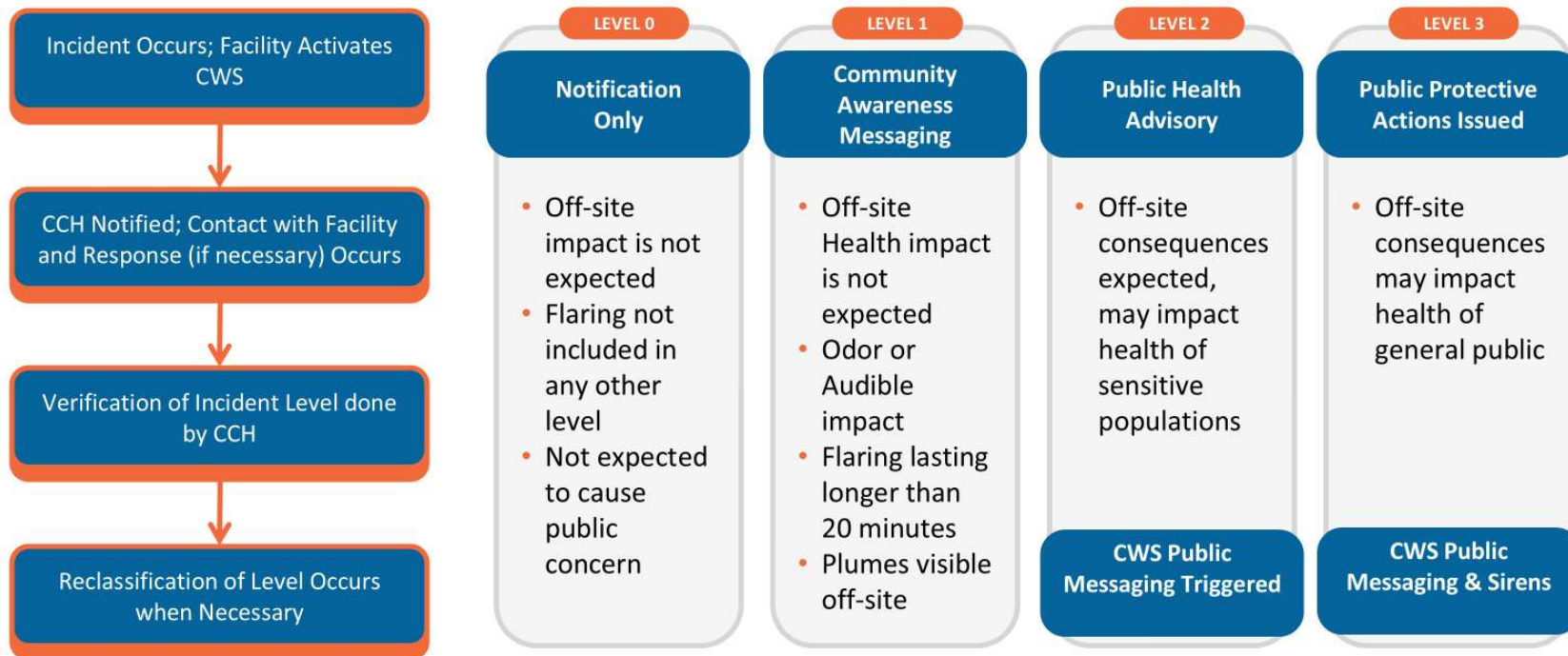
LISTEN

Check local TV
and Radio for
official
updates

CWS/Hazmat Notification Levels



Hazmat Notification



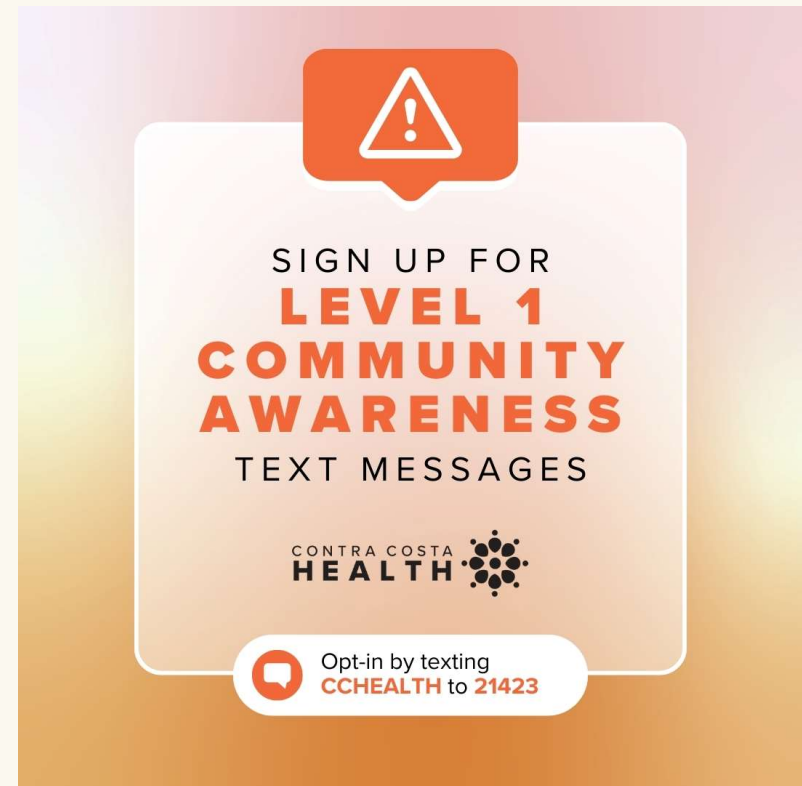
1

Community Awareness Messaging

Provides opt-in notifications for incidents that require no public action

To date, 690 users are registered

CCH has employed an outreach strategy and is working towards expanding outreach via partnership with CAER



Are You Registered?



- For More Information on the CWS, please go to: CWSAlerts.com
- If you would like to sign-up to receive alerts use your cellular device photo app, scan the QR code, and follow the prompts!



COMMUNITY WARNING SYSTEM

Contact us:
(925) 655-0111
CWSstaff@so.cccounty.us





Bay Area Air District Complaint Program Overview

Anais Tournier: Air Quality Specialist

McKenzie Rivera: Air Quality Specialist

September 11, 2025

Today's Goal

Provide overview on how to report odors and air pollution



Phone

1-800-334-ODOR(6367)

Online

myaironline.baaqmd.gov/account/complaints



Anonymous complaints accepted

About the Air District

~7 Million Population

9 Counties

18 Overburdened Communities

28 Air Monitoring Stations



Clean Air For All

Transparency

We are dedicated to full transparency toward holding ourselves accountable for our decisions and actions.

Partnership

We value our partners, fostering meaningful collaboration both internally and externally to achieve shared objectives.

Trust

We gain public trust by grounding our programs and policies in law, science, and the lived experience of our communities.

Equity

We commit to equity and ensuring that our organizational culture fosters a diverse workforce that reflects our communities.

Environmental Justice

We aim to integrate environmental justice principles into all aspects of our work, and we seek enhanced environmental justice outcomes for overburdened communities.

Integrity

We lead with integrity, serving as honest and responsible stewards of public resources, basing our actions in law and science, and pioneering effective and innovative solutions in partnership with the communities we serve.

What do we do?

- Monitor and forecast air quality
- Develop regulations
- Issue permits
- Offer climate grants
- Enforce rules
- Investigate complaints





Air Quality Complaint Program

Air Quality Complaint Program Objectives

- Open communication
- Timely response and early action
- Fact finding and thorough investigation
- Appropriate action and follow-up

Types of Air Quality Complaints

Emissions Under Air District Jurisdiction

ODORS

DUST/SMOKE/PARTICULATES

ASBESTOS

GAS STATIONS

ILLEGAL FIRES

WOOD SMOKE

SMOKING VEHICLE

OTHER

Types of Air Quality Complaints

Emissions Outside Air District Jurisdiction

AIRCRAFT CONTRAILS

INDOOR AIR QUALITY

RECREATIONAL BBQ

MOLD

NOISE

ODORS/DUST ASSOCAITED
WITH AGRICULTURE

COMPOSTING ODORS

VAPING/MARIJUANA/CIGARETTE

Reporting an Air Quality Complaint

Report complaints

- Phone: 1-800-334-ODOR(6367)
- Online: [Report an air quality complaint](#)

Confidentiality

- The Air District also accepts anonymous complaints

Language interpretation services

- Over 150 different languages

The screenshot shows the 'Odor Complaint Form' for the Bay Area Air District. The form is titled 'GENERAL COMPLAINT' and 'ODOR COMPLAINT FORM'. It includes a complaint ID '#CPM454947'. The form is divided into sections: 'GENERAL INFORMATION', 'LOCATION OF EMISSION SOURCE', 'CONTACT INFORMATION', and 'REVIEW & SUBMIT'. The 'GENERAL INFORMATION' section includes a 'Complaint Type' dropdown menu with 'Odor' selected, and a 'Description of the Complaint' section with a text area for 'Enter complaint description: *'. Below this is a section for 'When did this occur?' with a date/time picker and a question 'Are the emissions occurring right now?' with 'Yes' and 'No' radio buttons. The 'CONTACT INFORMATION' section includes a 'Contact Options' section with a question 'Do you want to be contacted?' and 'Yes, I am willing to share my contact information' and 'I choose to be anonymous' radio buttons. Navigation buttons 'PREVIOUS', 'CANCEL', and 'NEXT' are at the bottom.

Bay Area Air District
GENERAL COMPLAINT

BACK TO COMPLAINTS PORTAL / ODOR COMPLAINT FORM

GENERAL INFORMATION LOCATION OF EMISSION SOURCE CONTACT INFORMATION REVIEW & SUBMIT

*All fields are required unless marked as optional.

1. Complaint Type.
Odor

2. Description of the Complaint
Provide a detailed description of the emissions you observed. Please be as specific as possible with your information. ⓘ
Enter complaint description: *
Please be as specific as possible with your information.

3. When did this occur?
When did you observe the emissions?
Occurrence Date/Time ⓘ
Are the emissions occurring right now?
☐ Yes ☐ No

Contact Options
Do you want to be contacted?
☐ Yes, I am willing to share my contact information ⓘ ☐ I choose to be anonymous ⓘ

PREVIOUS CANCEL NEXT

Air Quality Complaint Investigation



COMMUNICATION

- Goal: Acquire additional information about the complainant's experience



INVESTIGATION

- Goal: Attempt to observe the emission and trace it back to a source



DOCUMENTATION

- Goal: Document observations and evidence for follow-up, reports or violations



INSPECTION

- Goal: Determine compliance of source with air quality permits and regulations



REPORT FINDINGS

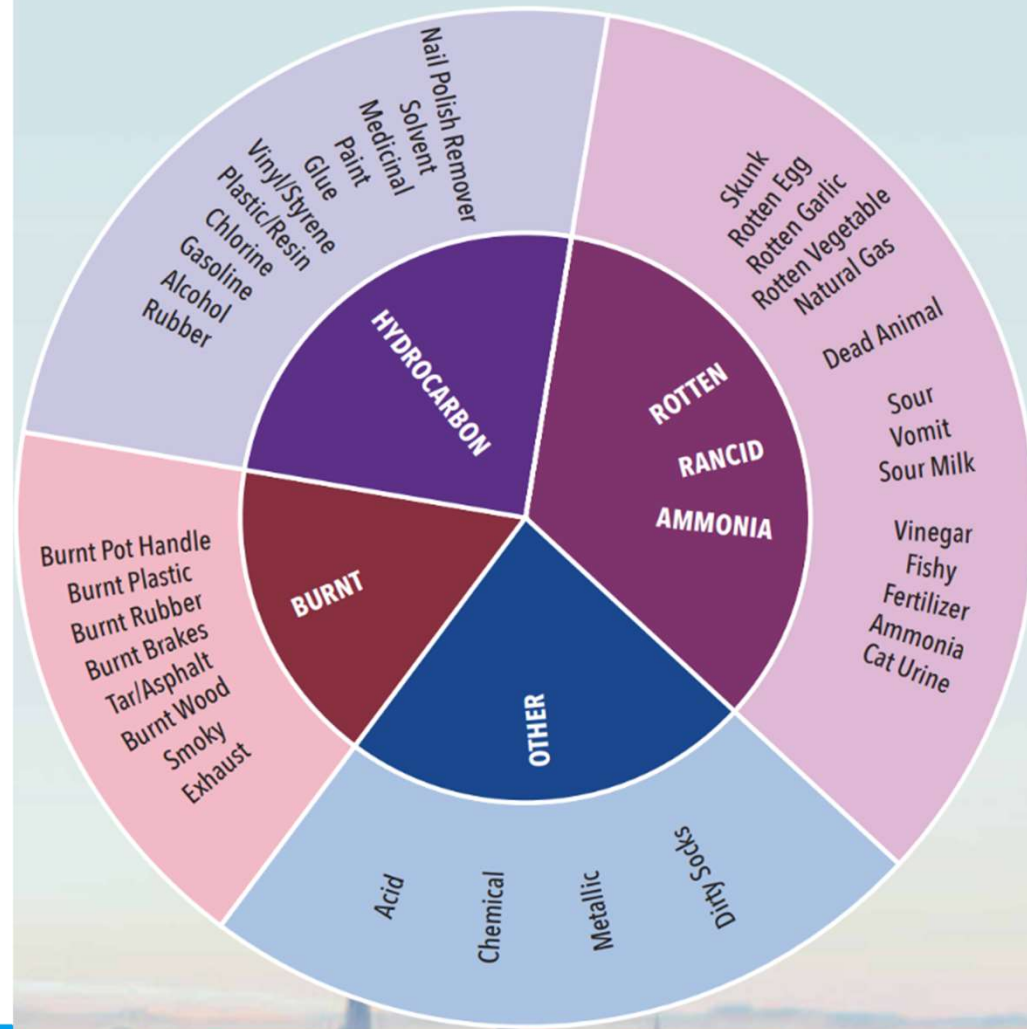
- Goal: Create a foundation of trust through transparency and accountability

11

Helpful Tips

- Report the complaint as soon as possible
- Be descriptive
- Provide closest location of the emissions
- Document your observations
- Share your contact information

Examples of Odor Descriptions for Refinery and Industrial Operations



Additional Resources

- Sign up for Air Quality Incident Notifications on our website
- Follow the Air District on Facebook, Instagram and Twitter @bayareaairdistrict
- Sign up for Spare the Air text & email alerts for local air quality updates



Today's Goal

Provide overview on how to report odors and air pollution



Phone

1-800-334-ODOR(6367)

Online

myaironline.baaqmd.gov/account/complaints



Anonymous complaints accepted



Questions?

Sign-Up for Air Quality Incident Notifications

Opt in to receive the Air District's Air Quality Incident Notifications via email and SMS texts.

Air Quality Incident Notifications will provide Bay Area residents with timely information about significant incidents affecting regional and local air quality.

Residents can sign up to register for emails and text alerts for incidents affecting specific counties or the entire Bay Area.

Please note: These Air Quality Incident Notifications are a courtesy service the Air District is providing to help Bay Area residents track notable air quality incidents in their communities. They are not a replacement for other important sources of air quality information - such as local Community Warning Systems, [Spare the Air Alerts](#), the [EPA Fire and Smoke Map](#), or local media coverage - and should not be relied on as a sole source of information about local air quality events.

SMS Air Quality Incident Notification System Terms of Use:


Message frequency will vary. Subscribers are expected to receive an estimated 1-15 texts per month, although potentially more, depending on the frequency of air quality incidents. Message and data rates may apply. Carriers are not liable for delayed or undelivered messages. See our Terms of Use web page for more information. Please refer to the Air District's [privacy policy](#) if you have questions about how we use the information you submit.

Reply HELP or contact: texthelp@baaqmd.gov for help or technical assistance.

Text STOP to opt out and stop receiving notifications.

Air Quality Incident Notifications

- Text or email notification of major incidents
- Sign up at:
www.baaqmd.gov/en/contact-us/sign-up-for-information/air-quality-incident-notifications

 Sign Up for Air Quality Incident Notifications

Select the counties you would like to subscribe to, enter your email and/or cell number, and click Subscribe.

Select Counties

Counties

All Counties ☐

Alameda ☐

Marin ☐

San Francisco ☐

Santa Clara ☐

Sonoma ☐

Contra Costa ☐

Napa ☐


San Mateo ☐

Solano ☐

Email Address

Mobile Phone for SMS

and/or

 SUBSCRIBE

Incidents and Advisories

- Timely preliminary reports on major incidents
- Reports can be found here:
www.baaqmd.gov/en/about-air-quality/incidents-and-advisories



CLEAN AIR FOR ALL

Compliance and Enforcement Division

INCIDENT REPORT

February 1, 2025

MRC Refinery, Site # A0011

3485 Pacheco Boulevard Martinez, California

Around 10:45 a.m., Bay Area Air District (Air District) received its first complaint about an oily refinery smell in Martinez CA. A second odor complaint was received at 11:56 a.m. alleging the Martinez Refining Company. At 1:05 p.m., the Air District received a third odor complaint, alleging oil and gas smell. At 1:45 p.m. the Air District had already initiated an incident response to these complaints. At 1:49 p.m., the Air District received a Contra Costa County Community Warning System (CWS) Level 2 alert filed by MRC regarding a fire in the Light Oil Processing (LOP) area of the refinery. The Air District contacted MRC and dispatched staff to the area to assess the situation. It was learned that a large fire was burning in the LOP area and flaring was also occurring.




Incident Response staff arrived in the area around 2:20 p.m. and observed a large black plume and flames from the affected process unit. Visible emissions were observed to be in excess of Air District Regulation 6, Rule 1 standards. Wind at the time was 5-15 mph from the south. Air District staff were in communication with MRC and Contra County Health Department throughout the event.

Around 5:00 p.m., Contra County Health increased the CWS Level 2 warning to Level 3. As of 7:30 p.m., Air District staff received and responded to 30 complaints from the community which were alleging odors and smoke related to the incident. Reports at this time from the refinery indicate that the source of the fuel for the fire has been isolated, and the fire is considerably smaller in size. Winds were expected to remain from the south throughout the evening.

The Air District's investigation of this event is ongoing, and we will provide additional updates when we obtain further information.

Other Helpful Tips

- Emission Log for documentation
- Bay Area Air District full Complaint Policy and Procedure is available here: www.baaqmd.gov/en/online-services/air-pollution-complaints/complaint-policy-and-procedures

 BAY AREA AIR QUALITY MANAGEMENT DISTRICT		Emissions Log <i>To Report a General Air Quality Complaint, call the 24-hr Toll-Free Complaint Line: 1-800-334-ODOR [6367] To Report a Woodsmoke Complaint: 1-877-4NO-BURN To Report a Smoking Vehicle Complaint: 1-800-EXHAUST</i>		
Name of Alleged Facility/Site: Address of Alleged Facility/Site (Cross Street or Landmark if address is unknown):				
Date & Time of Observations	Type of Emissions	Description of Emissions Observed	Emission Intensity (1-5)	Where You Observed the Emissions
Date & Time: Day of the Week:	<input type="checkbox"/> Odor <input type="checkbox"/> Smoke <input type="checkbox"/> Dust <input type="checkbox"/> Other			
Date & Time: Day of the Week:	<input type="checkbox"/> Odor <input type="checkbox"/> Smoke <input type="checkbox"/> Dust <input type="checkbox"/> Other			
Date & Time: Day of the Week:	<input type="checkbox"/> Odor <input type="checkbox"/> Smoke <input type="checkbox"/> Dust <input type="checkbox"/> Other			
Date & Time: Day of the Week:	<input type="checkbox"/> Odor <input type="checkbox"/> Smoke <input type="checkbox"/> Dust <input type="checkbox"/> Other			
Date & Time: Day of the Week:	<input type="checkbox"/> Odor <input type="checkbox"/> Smoke <input type="checkbox"/> Dust <input type="checkbox"/> Other			

Types of Air Quality Complaints

Partnering Agencies

Contra Costa County

- Environmental Health
- Hazardous Materials
- Agriculture/ Weights & Measures
- Code Enforcement
- Fire Protection District



CONTRA COSTA COUNTY

1025 ESCOBAR STREET
MARTINEZ, CA 94553

Staff Report

File #: 25-3735

Agenda Date: 9/11/2025

Agenda #:

Advisory Board: Hazardous Materials Commission

Subject: Public Forum Informational Resources

Information:

Attached to this agenda item are informational resources that will be available at the forum.

Recommendation(s)/Next Step(s):

PROVIDE additional information and resources for the Hazardous Materials Commission and some of the topics they have worked on. The Hazardous Materials Commission and the panelists will each have a table with pertinent information and resources available in Conference Room 110ABC.

Contra Costa County Hazardous Materials Commission

Mission & Purpose

- **Protect and promote** the health, safety, and well-being of Contra Costa residents in relation to hazardous materials and hazardous waste.
- **Serve as a consensus-building forum** on environmental issues tied to hazardous materials, fostering collaboration among stakeholders.
- **Advise** the Board of Supervisors, its committees, and staff on policy matters concerning the storage, use, and management of hazardous materials — including aspects of health, safety, environmental impact, land use planning, and economic considerations.

History & Background

- Established in **1983** by the Contra Costa County Board of Supervisors.
- Its core mission: to develop policy recommendations related to hazardous materials and waste and provide guidance to the Board, city and county officials, and staff.

Activities & Recommendations

The Commission has addressed a variety of topics through formal recommendations, including:

- Guidance on **community engagement and communication** strategies around Brownfields and other contaminated-site cleanup efforts.
- **Sea Level Rise**
- **County Legislative Platform**
- **General Plan Environmental Justice**
- Supportive input on **pipeline funding**
- **Treated Wood Waste** legislation feedback.

Organizational Structure & Operations

- All meetings are open to the public through Contra Costa County's Public Meetings website.
<https://contra-costa.legistar.com/Calendar.aspx>
- The Commission is structured with two main committees:
 - The **Operations Committee**, which oversees organizational functions, provides guidance on departmental programs and addresses public education and communication.
 - The **Planning and Policy Development Committee** provides technical support for land-use ordinance updates and other strategic, long-term policymaking.



Contra Costa County Meeting Calendar



Commission Website

Hazardous Materials Commission

PAID STUDENT INTERNSHIP

The Hazardous Materials Commission (HMC) is looking for **2** student interns (high school or college) who are passionate about the environment and interested in being a part of policy development on hazardous materials.

Be part of the change and participate in invaluable public meetings from [REDACTED] [APPLY TODAY!](#)

DEADLINE:

Interested? Apply at bit.ly/HMCapp23

Questions can be emailed to CareerPathways@ccchealth.org

Interviews will be held in-person or virtually on [REDACTED]

WHAT IS THE HMC?

The Hazardous Materials Commission (HMC) is an advisory body to the Contra Costa County Board of Supervisors on hazardous materials and hazardous waste issues. The HMC is made up of representatives from cities, labor groups, environmental groups, businesses, the League of Women Voters, and the general public.

The Commission advises the Board on new/existing policies, regulatory programs, educational programs, and legislation affecting the use, storage, transportation, and disposal of hazardous materials and waste.

STUDENT INTERN EXPECTATIONS:

- Complete 5-7 hours per month, for the duration of the 6-month internship to receive a \$700 stipend**
- Interns will research and present on a hazardous materials topic of personal or commission interest, conduct informational interviews, and attend Full Commission meetings.

Note: Full Commission meetings are held in-person in Martinez; with a Zoom option if needed. Interns are also encouraged to join optional subcommittees in Martinez.

**Position is not an official voting member on Commission*

***If applicable, this position may be used for practicum or internship credit at participating colleges/universities.*

**PREFERENCE WILL BE GIVEN TO APPLICANTS THAT LIVE AND/OR ATTEND
SCHOOL IN CONTRA COSTA COUNTY.**

ROLE OF THE HAZMAT OMBUDSPERSON



Single point of contact for people who live or work in Contra Costa regarding environmental health concerns, questions, and/or complaints about hazardous materials.



They are empowered to identify issues, make recommendations, and resolve problems.



The role includes investigating concerns, facilitating resolutions, and providing information about programs and procedures.



877-662-8376 (877-OMBUDSMAN)
hazmat.ombudsman@cchealth.org



- Independent advocate for the public
- Promotes transparency & accountability
- Liaison between the public & agencies



Lithium-Ion Battery Safety



Lithium-ion batteries supply power to many kinds of devices including smart phones, laptops, e-scooters and e-bikes, e-cigarettes, smoke alarms, toys, and even cars. If not used correctly, or if damaged, these batteries can catch on fire or explode.

The problem

- These batteries store a large amount of energy in a small amount of space.
- Sometimes batteries are not used the right way; batteries not designed for a specific use can be dangerous.
- Like any product, a small number of these batteries are defective. They can overheat, catch fire, or explode.

Safety Tips

- Purchase and use devices that are listed by a qualified testing laboratory.
- Always follow the manufacturer's instructions.
- Only use the battery that is designed for the device.
- Put batteries in the device the right way.
- Only use the charging cord that came with the device.
- Do not charge a device under your pillow, on your bed, or on a couch.
- Do not keep charging the device or device battery after it is fully charged.
- Keep batteries at room temperature when possible. Do not charge them at temperatures below 32°F (0°C) or above 105°F (40°C).
- Store batteries away from anything that can catch fire.

Signs of a Problem

Stop using the battery if you notice these problems: odor, change in color, too much heat, change in shape, leaking, or odd noises. If it is safe to do so, move the device away from anything that can catch fire. Call **9-1-1**.

Battery Disposal

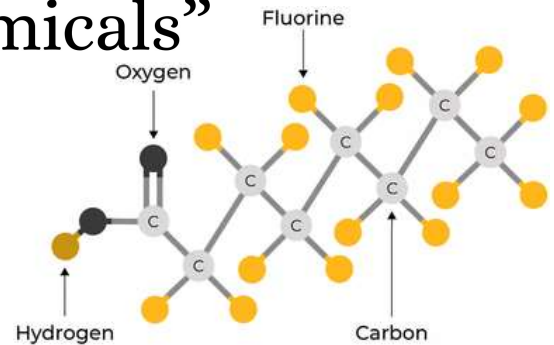
- Do not put lithium-ion batteries in the trash.
- Recycling is always the best option.
- Take them to a battery recycling location or contact your community for disposal instructions.
- Do not put discarded batteries in piles.

Charging an E-bike

Charge your battery in a flat, dry area away from children, direct sunlight, liquids, tripping hazards, and in a location where the e-bike is not at risk of falling.



PFAS: PolyEluoroAlkyL Substances the “Forever Chemicals”



What is PFAS?

PFAS, short for per- and polyfluoroalkyl substances, are a large group of manufactured substances that do not occur naturally in the environment and are a class of chemicals that are used to make products grease-proof, waterproof, and stain resistant. Due to the fact that PFAS have been widely used since the 1940s, and that they are nearly indestructible, PFAS have been found both in the environment and in blood samples of people tested. PFAS chemicals have been dubbed “forever chemicals”, because they are extremely persistent, believed that they will last for thousands of years. According to the Agency for Toxic Substances and Disease Registry, **Nearly every American tested has PFAS in their blood.**
<https://www.atsdr.cdc.gov/pfas/data-research/facts-stats/index.html>

What is the problem with

PFAS?



PFAS can cause many serious health problems.

Exposure to certain levels of some PFAS chemicals is linked to cancer and may increase risks for heart disease, birth defects, infertility, liver effects, low birth weights, hormonal imbalances, developmental delays, and higher-risk pregnancies. It is also linked to suppressed immune function.

PFAS-free product certification

There is no regulation of PFAS-free labeling. However you can look for these labels:



Scan for a robust list of PFAS-free products



How am I exposed to PFAS?

We can be exposed to PFAS through multiple sources:

- Drinking contaminated tap water
- Eating fish from polluted waters
- Consuming food packaged in grease-resistant wrappers (like fast food or microwave popcorn)
- Using nonstick cookware (e.g., Teflon pans)
- Wearing or handling water-resistant clothing and gear
- Using stain-resistant carpets, upholstery, or fabrics
- Applying certain cosmetics (like waterproof mascara or foundation)
- Using personal care products (e.g., dental floss, lotions with PFAS)
- Living near industrial sites or military bases
- Inhaling indoor dust from treated furniture or electronics

Image courtesy of the city of Riverside



Sources:

<https://www.epa.gov/pfas/pfas-explained>

<https://www.niehs.nih.gov/health/topics/agents/pfc>

Facing the Rising Tide: Sea Level Rise in North Richmond

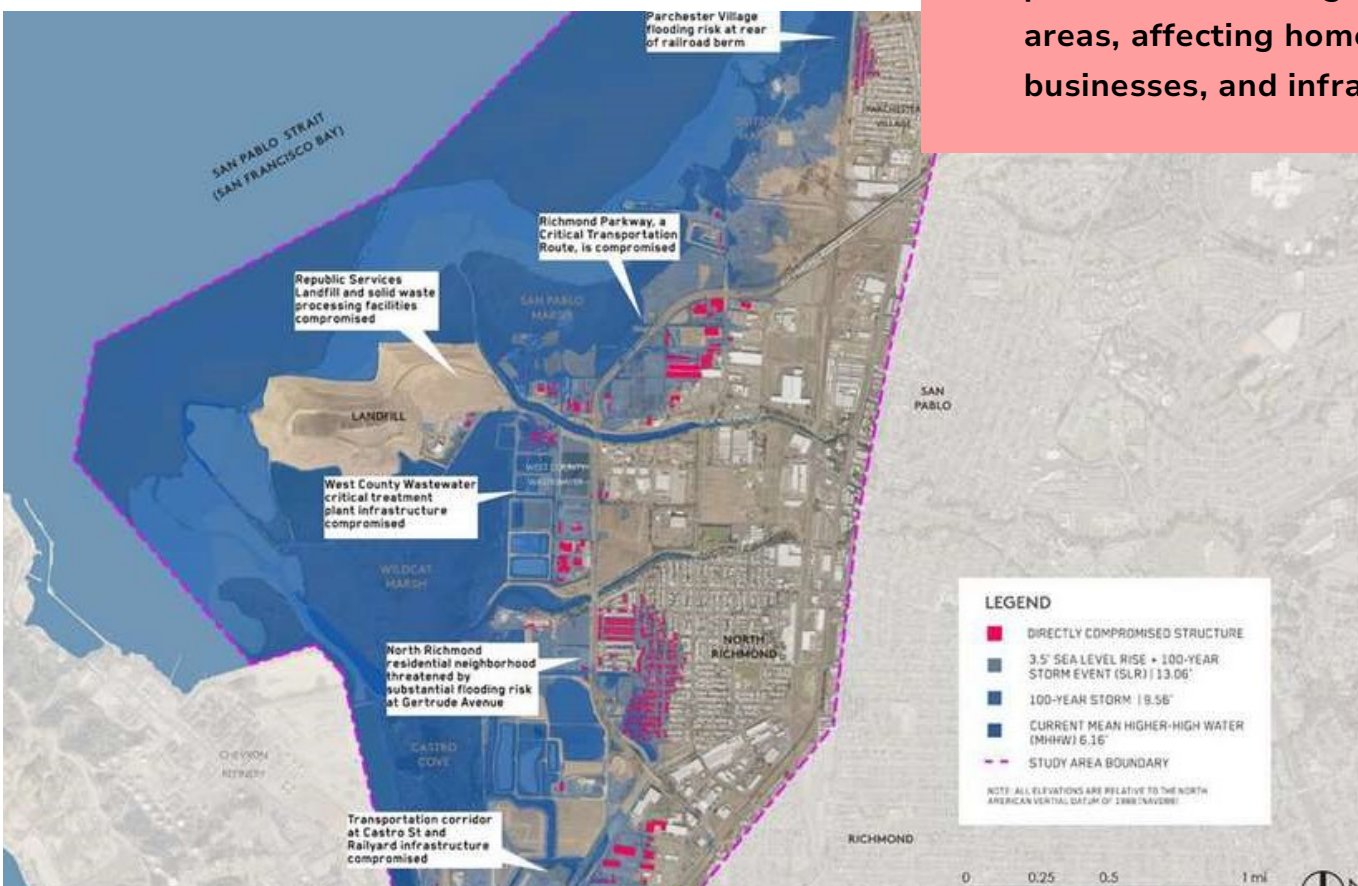
Understanding the Risks — and the Local Solutions Underway

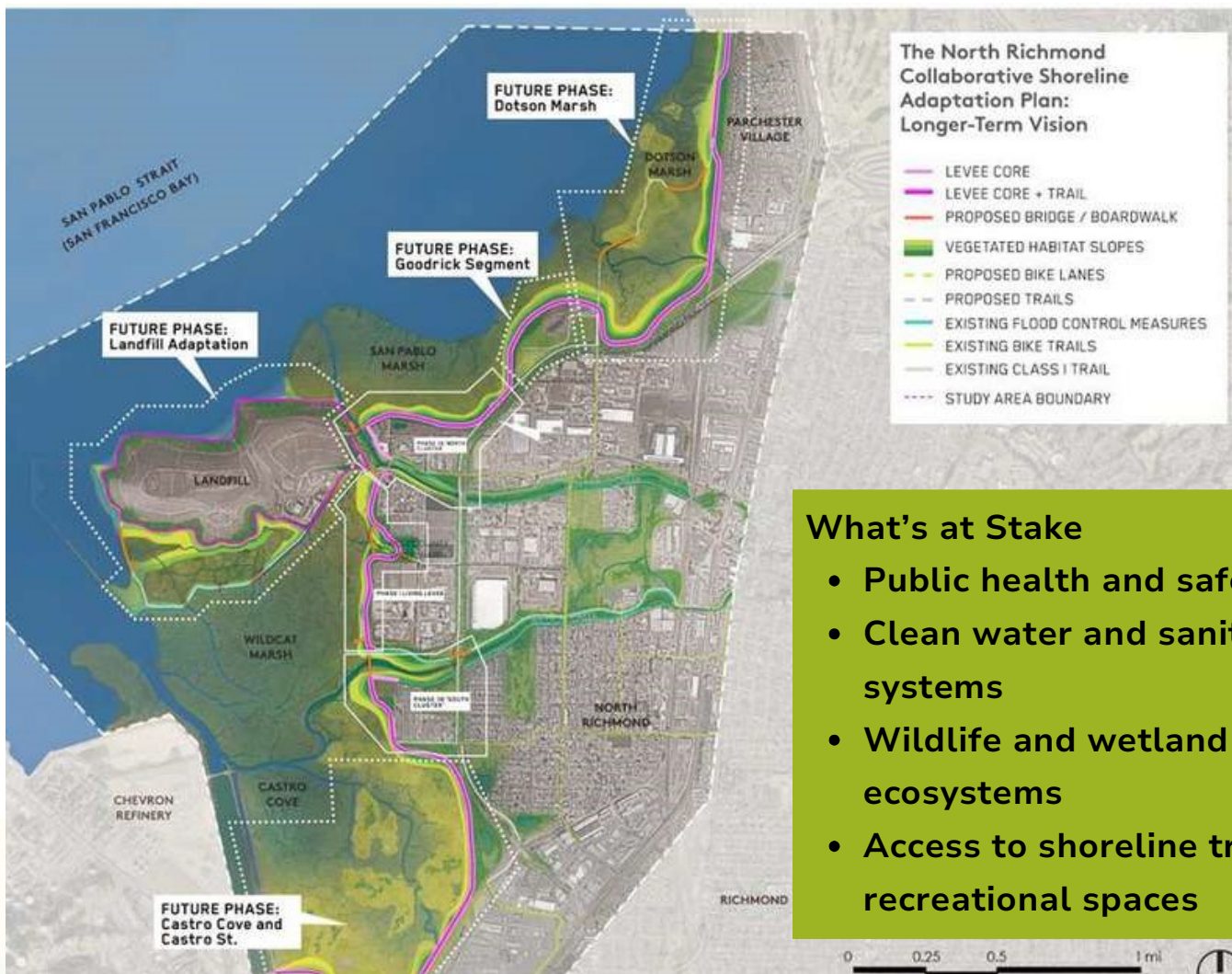
Why Sea Level Rise Matters in North Richmond

- Sea levels are rising. The shoreline around North Richmond faces flooding threats from storm surges and higher tides—today and even more in the future.
- Communities are at risk. Areas like Parchester Village, Parkway, Castro Street, and West County Wastewater facilities face increased danger of coastal flooding.
- Critical habitats are threatened. Wetlands and marshes that filter water and support wildlife may be underwater without action.

Projected Inundation Scenarios

- **+3.4 ft Sea Level Rise → 100-year coastal flood reaches inland neighborhoods**
- **+6.9 ft Sea Level Rise → permanent flooding in low-lying areas, affecting homes, businesses, and infrastructure**





What's at Stake

- Public health and safety
- Clean water and sanitation systems
- Wildlife and wetland ecosystems
- Access to shoreline trails and recreational spaces

Local Solutions Are Already Underway

North Richmond Collaborative Shoreline Plan (CSAP):

A multi-benefit, community-driven plan to create nature-based defenses and restore coastal resilience.

Phase 1: The Living Levee

- Constructed near West County Wastewater
- Combines flood protection with habitat restoration
- Designed to adapt over time to rising tides



What is a Living Levee?

- A Living Levee is a “soft” flood barrier built with native plants, gentle slopes, and wetlands. It:
- Absorbs wave energy
- Filters runoff
- Creates green spaces for wildlife and people

LIVING LEVEE EXAMPLE



Community Power in Action

- This plan is shaped by YOU.
- 20+ community members involved
- Paid workgroups & learning academies
- Tribal engagement and local workforce pathways
- Focus on equity, inclusion, and long-term local benefits



“WE ARE A
DISINVESTED, BUT
NOT A DISINTERESTED
COMMUNITY.”

Clean & Green Infrastructure Upgrades

- 1.1 MW of On-Site Solar Power Generation
- 3.1 MW of Battery Storage
- Creation of Microgrid
- LED Lighting and EV Chargers
- Resource Recovery Plant Optimization
- Grit Separation System, Rotary Drum Thickeners, High Efficiency Aeration Blower, New Digesters, 450 kW Cogeneration System, Sludge Dewatering System, Sludge Thermal Dryer System
- Equalization Basin Expansion
- Produce Class A Biosolids



How You Can Help

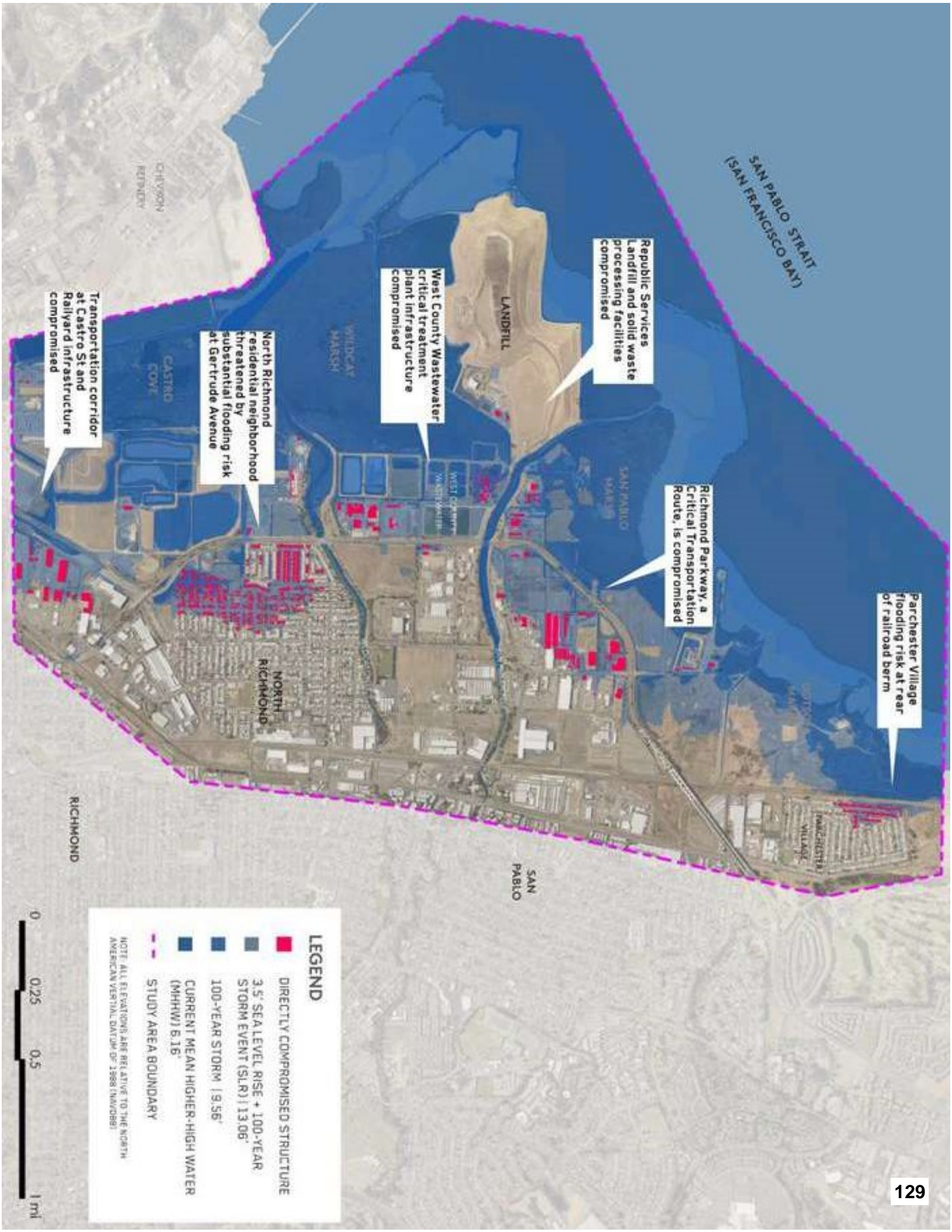
- Learn more about the North Richmond Shoreline Plan
- Join a workshop or community workgroup
- Advocate for climate investments that protect your neighborhood
- Support tribal and environmental justice leadership

BROUGHT TO YOU BY:
WEST COUNTY WASTEWATER, SAN FRANCISCO ESTUARY
PARTNERSHIP, CONTRA COSTA COUNTY HAZARDOUS
MATERIALS COMMISSION, AND COMMUNITY PARTNERS



**The North Richmond Collaborative Shoreline Adaptation Plan:
Longer-Term Vision**

- LEVEE CORE
- LEVEE CORE + TRAIL
- PROPOSED BRIDGE / BOARDWALK
- VEGETATED HABITAT SLOPES
- PROPOSED BIKE LANES
- PROPOSED TRAILS
- EXISTING FLOOD CONTROL MEASURES
- EXISTING BIKE TRAILS
- EXISTING CLASS I TRAIL
- STUDY AREA BOUNDARY



Can addressing flooding also provide key access to a continuous trail system and local amenities, while regenerating habitat on degraded sites?



FLOODING EXPOSURES

1. North Richmond neighborhoods will be inundated and disrupt access to local amenities
2. Flooding will have critical impacts and services to Overbrook Pump Station and related stormwater infrastructure
3. Community fire station will be inundated

ECOLOGICAL EXPOSURES

4. Flooding intrusion from Wildcat Creek
5. Existing marsh ecosystems will be disrupted by deeper and more frequent inundation
6. Certain ponds and facilities southwest of this site will experience inundation once known issues

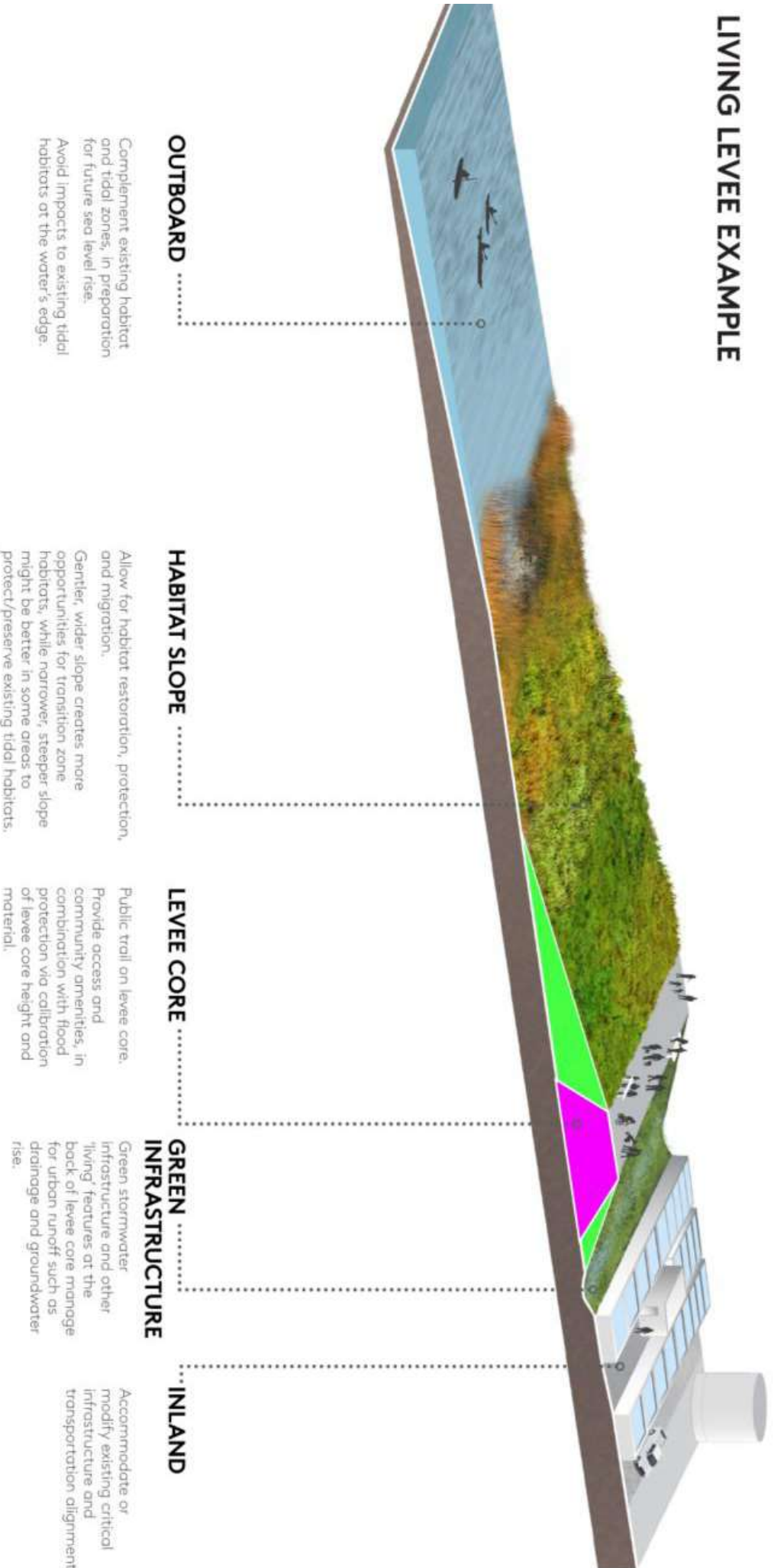
LEGEND

- APPARENT FLOODING PATTERNS
- CONVERTIBLE STRUCTURE
- 100 YEAR COASTAL FLOOD + 3.5' SEA LEVEL RISE (13.00')
- 100 YR COASTAL FLOOD (+5.50')
- MEAN HIGH WATER (+2.16')
- STUDY AREA BOUNDARY

NOTE: ALL ELEVATIONS ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD83)



LIVING LEVEE EXAMPLE



LEGEND

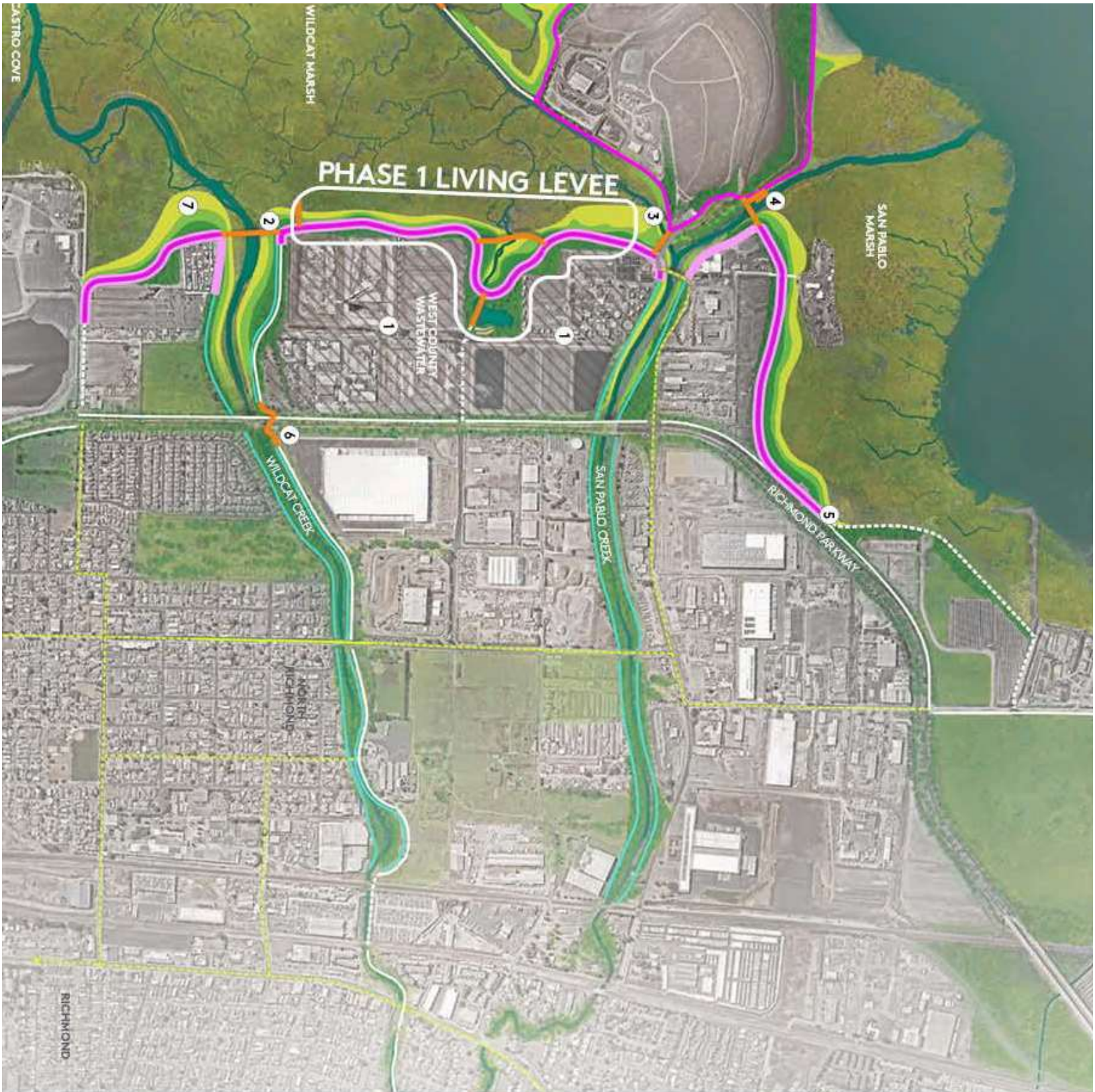
- ▲ Hazardous Waste Facilities (EnviroStor Results)
- Cleanup Sites (EnviroStor Results)
- Cleanup Program Sites (Geotracker Results)
- Leaking Underground Storage Tank (LUST) Sites (Geotracker Results)
- Richmond City Limits

PHASE 1A
NORTH CLUSTER

PHASE 1
LIVING LEVEE

PHASE 1B
SOUTH CLUSTER

As part of this scope of work, Mithun has included Kleinfelder on our team. Their background in analysis and design for contamination concerns will add critical nuance to the approach, particularly in the Phase 1A and 1B Cluster areas, where remediation strategies were an identified scope gap in the previous planning effort.



- 1 **CRITICAL INFRASTRUCTURE** facilities are protected at West County Wastewater (gray hatch)
- 2 **BOARDWALK & BRIDGE** connects North Richmond to Bay Trail and Flea Market, with new marsh and shoreline access amenities
- 3 **HYDROLOGIC RECONNECTION** via new bridge, that elevates landfill access for Republic Services via new ped/bike roadway, while opening historic reconnection of San Pablo creek to Wildcat Marsh
- 4 **SMALL-CRAFT BOAT LAUNCH** reintroduces waterfront access in North Richmond
- 5 **TRAILHEAD** at Richmond Parkway above Port Blvd opens landfill loop and water access to the community, while protecting Parkway from inundation
- 6 **CREEK TRAIL BRIDGE** safely connects neighborhood to Bay Trail, Flea Market and shoreline access
- 7 **HABITAT SLOPE** at Flea Market provides for flood protection, habitat migration, and continuous safe shoreline access from Gertrude Ave
- 8 **MARSH REGENERATION** and hydrologic reconnection at landfill site

- LEGEND**
- LEVEE CORE
 - LEVEE CORE + TRAIL
 - PROPOSED BRIDGE / BOARDWALK
 - VEGETATED HABITAT SLOPES
 - PROPOSED BIKE LANES
 - PROPOSED TRAILS
 - EXISTING FLOOD CONTROL MEASURES
 - EXISTING BIKE TRAILS
 - EXISTING CLASS I TRAIL