



AGENDA

CONTRA COSTA COUNTY Sustainability Commission

Chuck Leonard, Business Seat 1
Susan Hurl, Business Seat 2
Luz Gomez, Community Seat 1
Howdy Goudey, Community Seat 2
Shoshana Wechsler, District 1 Seat
Erin Levine, District 1 Alternate
Victoria Smith, District 2 Seat
Christopher Easter, District 2 Seat Alternate
Michael Moore, District 3 Seat
Norman Cohen, District 3 Seat Alternate
Brandon Matson, District 4 Seat
Wesley Sullens, District 4 Seat Alternate
Charles Davidson, District 5 Seat
Renee Fernandez-Lipp, District 5 Seat Alternate
Kimberly Hazard, Education/Research Seat
Kiara Pereira, Environmental Justice Seat 1
Sarah Foster, Environmental Justice Seat 2

Monday, April 29, 2024

4:00 PM

1025 Escobar St., Martinez, Rm 110

Joint Meeting with Hazardous Materials Commission from 4pm to 5:30pm
Regular Business of the Sustainability Commission will begin at 5:30pm

<https://cccounty-us.zoom.us/j/84209078212> | Call in: 888-278-0254, access code 841892

1. Roll Call and Introductions
2. Public comment on any item under the jurisdiction of the Commission(s) and not on this agenda (speakers may be limited to two minutes).
3. RECEIVE Presentation and DISCUSS Carbon Capture and Storage from invited panelists [24-1239](#)
4. APPROVE Record of Action for February 26, 2024, Sustainability Commission meeting [24-1240](#)
Attachments: [2024-02-26 Draft Sustainability Commission Minutes](#)
5. RECEIVE Report on Bay Area Regional Energy Network Programs [24-1241](#)
Attachments: [2024_04_29 BayREN 2024-27 Overview for Sustainability Commission](#)

6. RECEIVE Reports from Sustainability Commission members and alternates, and PROVIDE DIRECTION as needed [24-1242](#)
Attachments: [Pacific Refinery Cover Letter_041524](#)
[Pacific Refinery Presentation_042924](#)
7. RECEIVE Report on Staff Activities that Support Sustainability Goals [24-1243](#)
Attachments: [2024_04_29 Sust. Staff Report to Sust. CMSN](#)
8. RECEIVE Report from Sustainability Commission Chair and IDENTIFY TOPICS for next report to Ad Hoc Committee on Sustainability [24-1244](#)
9. The next meeting is currently scheduled for June 24, 2024
10. Adjourn

The Commission will provide reasonable accommodations for persons with disabilities planning to attend Commission 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 Commission less than 96 hours prior to that meeting are available for public inspection at 30 Muir Road, Martinez CA 94553, during normal business hours. Staff reports related to items on the agenda are also accessible on line at www.contracosta.ca.gov. 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: Commission Staff, Demian Hardman-Saldana, 925-655-2816, demian.hardman@dcd.cccounty.us



CONTRA COSTA COUNTY

1025 ESCOBAR STREET
MARTINEZ, CA 94553

Staff Report

File #: 24-1239

Agenda Date: 4/29/2024

Agenda #: 3.

Advisory Board: SUSTAINABILITY COMMISSION

Subject: Presentation on Carbon Capture and Storage from invited panelists

Presenter: Luz Gomez, Chair, Sustainability Commission

Contact: Commission Staff, Demian Hardman-Saldana,

925-655-

2816, demian.hardman@dcd.cccounty.us <<mailto:demian.hardman@dcd.cccounty.us>>

Referral History and Update:

Both the Sustainability Commission and Hazardous Materials Commission have an interest in learning more about Carbon Capture and Storage and how it relates to their purpose for each respective Commission. This item is scheduled as a joint meeting of both the Sustainability Commission and Hazardous Materials Commission.

The following panelist have been invited to this joint Commission meeting to have a discussion on Carbon Capture and Storage to present and discuss their work in this field:

- Kimberley (Kim) Mayfield, Principal Investigator, Lawrence Livermore National Laboratory (LLNL)
 - [People at LLNL | Kim Mayfield <https://people.llnl.gov/mayfield8>](https://people.llnl.gov/mayfield8)
- Mark Z. Jacobson, Director, Atmosphere/Energy Program, Department of Civil and Environmental Engineering
 - [Mark Jacobsons Profile | Stanford Profiles <https://profiles.stanford.edu/mark-jacobson>](https://profiles.stanford.edu/mark-jacobson)
- Sara Saltzer, Managing Director of the Standford Center for Carbon Storage
 - [Sarah Saltzer's Profile | Stanford Profiles <https://gcc02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fprofiles.stanford.edu%2Fsarah-saltzer%3B%2Furldefense.com%2Fv%2Fhttps%3A%2F%2Fprofiles.stanford.edu%2Fsarah-saltzer%3B%2F>](https://gcc02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fprofiles.stanford.edu%2Fsarah-saltzer%3B%2Furldefense.com%2Fv%2Fhttps%3A%2F%2Fprofiles.stanford.edu%2Fsarah-saltzer%3B%2F)
- Victoria Bogdan Tejada, Staff attorney, Climate Law Institute of the Center for Biological Diversity
 - [About staff | Center for Biological Diversity <https://www.biologicaldiversity.org/about/staff/>](https://www.biologicaldiversity.org/about/staff/)

Recommendation(s)/Next Step(s):

RECEIVE Presentation and DISCUSS Carbon Capture and Storage from invited panelists

Fiscal Impact (if any):

N/A



CONTRA COSTA COUNTY

1025 ESCOBAR STREET
MARTINEZ, CA 94553

Staff Report

File #: 24-1240

Agenda Date: 4/29/2024

Agenda #: 4.

Advisory Board: SUSTAINABILITY COMMISSION

Subject: Record of Action for February 26, 2024, Sustainability Commission Meeting

Presenter: Demian Hardman-Saldana, Principal Planner

Contact: (925) 655-2816, demian.hardman@dcd.cccounty.us <<mailto:demian.hardman@dcd.cccounty.us>>

Referral History and Update:

County Ordinance (Better Government Ordinance 95-6, Article 25-205, [d]) requires that each County Body keep a record of its meetings. Though the record need not be verbatim, it must accurately reflect the agenda and the decisions made in the meeting.

Any handouts or printed copies of testimony distributed at the meeting will be attached to this meeting record. Links to the agenda and minutes will be available at the Committee web page, to be announced.

Recommendation(s)/Next Step(s):

Staff recommends approval of the attached Record of Action for the February 26, 2024, Sustainability Commission Meeting with any necessary corrections.

Fiscal Impact (if any):

None.

Contra Costa County Sustainability Commission

Record of Action for February 26, 2024, 5:00 P.M.

Present: Luz Gomez
Chuck Leonard
Susan Hurl
Howdy Goudey
Shoshana Wechsler
Victoria Smith
Christopher Easter
Michael Moore
Norman Cohen
Brandon Matson
Charles Davidson
Renee Fernandez-Lipp (remote)
Kimberly Hazard
Sarah Foster

Absent: Wesley Sullens
Erin Levine
Kiara Pereira

Staff Present: Demian Hardman-Saldana, Principal Planner, Dept. of Conservation and Development;
Jody London, Sustainability Coordinator, Dept. of Conservation and Development;
Emily Groth, Planner, Department of Conservation and Development;
Adam Scarbrough, Planner, Dept. of Conservation and Development;
Will Nelson, Principal Planner, Dept. of Conservation and Development;
Jennifer Quallick, Deputy Chief of Staff, Supervisor Andersen

Attendees: Gaby Seltzer, Bruce "Ole" Ohlson, Samantha, Marti Roach, Valerie, Devin Jackson,
Mary-Kathryn Rueff, Denice Dennis, Derene Allen, Lisa Jackson

1. Roll Call and Introductions

Chair Gomez called the meeting to order at 5:02 p.m.

2. Public comment on any item under the jurisdiction of the Commission and not on this agenda (speakers may be limited to three minutes).

There was no public comment for items not on the Agenda.

3. APPROVE Record of Action for December 11, 2023, meeting

The Commission noted two minor edits to the Record of Action for December 11, 2023: "CALISO" should read "CAISO" and "help" should read "held" on page 7.

Matson moved to approve the Record of Action with the two minor edits. Second: Leonard.

The Record of Action was approved. Hazard abstained.

4. **ELECT OFFICERS for the Sustainability Commission for 2024**

Cohen arrived at 5:09 p.m.

Foster nominated herself for Vice Chair. Second: Moore. The Commission voted unanimously for Foster to become the new Sustainability Commission Vice Chair.

The Commission deliberated over electing the Chair for 2024. A motion was made to nominate a Commissioner for the position of Chair but was withdrawn due to limited capacity of that member. Hazard nominated Gomez for a second term as Chair. Second: Smith. The Commission voted unanimously for Gomez to become Sustainability Commission Chair.

5. **REVIEW and Possible ADOPTION of Draft 2023 Climate Action Plan Progress Report**

Jody London, Sustainability Coordinator, from the Department of Conservation and Development introduced the Draft 2023 Climate Action Plan (CAP) Progress Report, which reports on progress towards the 2023-2024 Interim Climate Action Work Plan. County departments provided the information included in the plan, and there were a few items on which staff were awaiting additional information. The 2023 CAP Progress Report will go to the Board on March 19.

Emily Groth, Planner, from the Department of Conservation and Development provided an overview of highlights in the Draft 2023 Climate Action Plan Progress Report. Highlights related to a clean and efficient built environment included continued participation in BayREN programs, including over \$788,000 rebates dispersed across 778 projects countywide through the Home+ Program; the completion of the Asthma Mitigation Project with 150 total clients served; the participation of 19 County facilities in distributed energy resource programs, receiving over \$20,000; and the County's continued pursuit of True Resource Use and Efficiency certification for the Administration Building and Jail Demolition and Redevelopment Project. Other highlights included the Board's acceptance of the Healthy Lands, Healthy People carbon sequestration feasibility study in October; continued implementation of Senate Bill 1383 organics collection requirements; the adoption of the updated Environmentally Preferable Purchasing Policy in September; and the California Department of Water Resources' approval of the East Contra Costa Subbasin Groundwater Sustainability Plan in July. The County received numerous grants to support clean transportation, including \$19 million for transportation infrastructure improvements and \$1.7 million to promote active transportation programming. The County also installed 55 electric vehicle (EV) charging ports and ordered 45 EVs. Work continued on the Just Transition Economic Revitalization Plan (JTERP), Green Empowerment Zone, and Northern Waterfront Economic Development Initiative. In pursuit of the County's Leadership goals, the Interdepartmental Climate Action Task Force met in February and September; the G3 Champions developed the G3 Champions Activity Guide; sustainability was the feature story of the Winter 2023 FOCUS newsletter; the County's Investment Policy and Debt Management Policies were both updated to support climate equity. Additional achievements included the Board's establishment of the Contra Costa Resilient Shoreline Ad Hoc Committee.

London noted that the Request for Proposal for support for the development of the JTERP would be going out in the coming weeks. The Commission requested the overview of the Draft 2023 Climate Action Plan Progress Report be included in the minutes.

The Commission discussed the history and application of the updates to the County's Investment Policy. The Commission expressed that it did not want the County to limit its ability to invest in projects that could potentially reduce carbon emissions, which the Commission later clarified was not related to this particular policy. The Commission also expressed a concern about the application of certain new technologies, including carbon sequestration and biofuels.

Additional Commission comments included a question about whether the Climate Action Plan (CAP) will be translated into Spanish, a request for the 2023 East Bay Municipal Utility District water use data when it becomes available, and a suggestion for the County's Environmentally Preferable Purchasing Policy to take into account circular economy principles.

Public comment noted that the Draft 2023 Climate Action Plan Progress Report did not mention incentivizing future graywater use, an updated County tree ordinance, or limiting artificial turf. London noted that these items are not included in the 2023 CAP Progress Report since they are not in the Interim CAP Work Plan, but individuals can comment on the draft Climate Action Plan by visiting EnvisionContraCosta2040.org or emailing Demian Hardman-Saldana from the Department of Conservation and Development directly.

Hazard made a motion to adopt the Draft 2023 Climate Action Plan Progress Report with a request to get the date of the Treasurer's presentation to the Commission on the County's Investment Policy, so the Commission can review the presentation and notes. Second: Moore. The motion passed unanimously.

6. **CONSIDER** proposed comments to submit from working group on the County Draft Climate Action Plan

The Commission discussed the process for finalizing the comments on the County Draft Climate Action Plan (CAP). A member of the Commission suggested evaluating the CAP strategies through the lenses of the environment, economics, and equity.

The working group began by providing a summary to the full Commission of the draft comments. The proposed comments covered the following topics: emphasizing coordination with other jurisdictions in the county; using easy-to-understand and specific language; providing resources to facilitate the use of Konveo; including more background information on progress since 2015 and how the CAP and General Plan fit together; including a more expansive greenhouse gas (GHG) inventory and explanation of the modeling; including more information on how to track progress; incorporating a more mathematical approach to the goals; including biogas in the GHG inventory; including more specifics on responsibilities and timeline for implementation; specifying emissions and cost savings; identifying sources of funding; identifying climate impacts in Board orders; and reducing minimum parking requirements to allow for more impervious surfaces.

The Commission discussed the following items for potential inclusion in the Commission's comment letter: developing a Spanish translation of the final CAP with summaries available in other languages; clarity on what is being counted in the greenhouse gas emissions inventory; embodied carbon; specific targets for per day water use; minimizing the use of offsets and focusing on local projects when offsets are used; reporting on building energy use; reducing the use of pesticides, herbicides, and fungicides on public lands to protect water supply; green chemistry; adding more specificity about solutions related to biofuels and carbon sequestration; protecting biological resources and eradicating invasive species; the frequency of conducting GHG emissions inventories; and the process for evaluating the GHG emissions reductions of development projects. A member of the Commission noted that the County has an integrated pest management (IPM) policy, which the IPM Advisory Committee is working on implementing. The Commission also noted that the California Air Resources Board website has information on GHG reduction protocols, expressed support for a dashboard to report progress, and asked about the cost GHG reduction verification.

Public comment noted that science has shown there is not a need to wait for technological advances to achieve GHG reductions and expressed a desire for the CAP to prioritize direct GHG reductions rather than using industrial carbon capture or offsets. Marti Roach from 350 Contra Costa Action noted a sign-on letter with thirteen organizations that includes suggested actions to reduce emissions to strengthen the CAP, some additional recommendations and context for performance targets, and support for a dashboard to report progress.

Moore moved that the working group meet one more time to clarify the draft comments and that the Commission will have a special meeting at the end of March to finalize the comments. Individual members of the Commission can send comments directly to Chair Gomez for consideration. Second: Matson. The motion passed unanimously.

Hardman-Saldana will coordinate with the Commission to schedule the special meeting.

7. RECEIVE Report on Training for Members of County Advisory Bodies

Demian Hardman-Saldana, Commission staff, from the Department of Conservation and Development noted that all information on the trainings for members of County Advisory Bodies is included in the staff report on page 72 of the Agenda Packet, including links to the required trainings. All members of County Advisory Bodies are required to complete the trainings and submit the Training Certification Form to Commission staff. Hardman-Saldana will be reaching out to Commissioners, including Alternates, individually about the requirements. Commissioners who serve on another advisory body need to submit proof that they have completed the trainings.

8. RECEIVE reports from Sustainability Commission members and alternates, and PROVIDE DIRECTION as needed

Chair Gomez moved item 8 to the end of the Agenda.

The Commission requested that Moore be granted 15 minutes at the next meeting to talk about his research on the remediation of the Pacific Refinery. The Commission also asked if there was interest in a report on the BlueGreen Alliance's study on Just Transition. Leonard noted that he

was nominated and elected as Second Vice Chair of the Green Empowerment Zone, which will have representatives from the California Air Resources Board (CARB) and California Energy Commission (CEC) speak from a regulatory level about roadblocks for low-carbon investments at its April meeting.

9. RECEIVE Report on Staff Activities that Support Sustainability Goals

Jody London from the Department of Conservation and Development noted that the County has been applying for grants to address sea level rise and hosting focus groups on the scope of a grant to develop a countywide tree plan. Additionally, the Bay Area Air Quality Management District is submitting a Climate Pollution Reduction Grant through BayREN, and Public Works received a \$15 million grant to install electric vehicle chargers at County libraries.

London also noted that the Board of Supervisors will be considering a recommendation to suspend the County's All-Electric Ordinance at the Board meeting the following day. The item is on the consent agenda (C.41) and is a response to the U.S. Court of Appeals for the 9th Circuit's decision invalidating a City of Berkeley ordinance that prohibited natural gas infrastructure in new buildings. Suspending the ordinance means it will not be enforced but will remain in the County's building code. The ordinance only applied to new construction, which is a relatively small number of buildings compared to existing buildings. Staff are considering other approaches to support transitions to all-electric, including actions by the State, pilot projects, and support for voluntary transitions. Hardman-Saldana noted that staff has started brainstorming what additional actions will need to be included in the draft CAP.

The Commission asked if staff had heard any information about what other jurisdictions are doing in response to the Court's decision.

10. RECEIVE Report from Sustainability Commission Chair and IDENTIFY TOPICS for next report to Ad Hoc Committee on Sustainability

Chair Gomez noted that there was no Sustainability Committee meeting in January; the next Committee meeting will be held on March 18.

The next Sustainability Commission meeting will be a joint meeting with the Hazardous Materials Commission on April 29 from 4:00 to 6:00 p.m. Mark Jacobson, a professor at Stanford, and Victoria Bogdan Tejada from the Center for Biological Diversity will be speaking about carbon capture and storage. Hardman-Saldana is looking for another speaker from the CEC.

The Commission requested that the speakers at the April 29 Commission meeting talk in layman's terms and represent diversity of thought and suggested a potential speaker from the technical advisory committee at the Air District.

11. The next meeting is currently scheduled for April 29th.

12. Adjourn

The meeting was adjourned at 7:01 p.m.



CONTRA COSTA COUNTY

1025 ESCOBAR STREET
MARTINEZ, CA 94553

Staff Report

File #: 24-1241

Agenda Date: 4/29/2024

Agenda #: 5.

Advisory Board: SUSTAINABILITY COMMISSION

Subject: Report on Bay Area Regional Energy Network Programs

Presenter: Demian Hardman-Saldana, Principal Planner

Contact: Demian Hardman-Saldana, 925-655-2816, demian.hardman@dcd.cccounty.us

[<mailto:demian.hardman@dcd.cccounty.us>](mailto:demian.hardman@dcd.cccounty.us)

Referral History and Update:

In July 2012, the County entered into a Memorandum of Understanding (MOU) establishing the Bay Area Regional Energy Network (BayREN), a collaborative partnership among the nine Bay Area counties and led by the Association of Bay Area Governments (ABAG), for the purpose of facilitating the implementation of energy efficiency programs throughout the Bay Area.

In late 2012, the CPUC approved BayREN as a pilot program (effective January 1, 2013) to implement Energy Efficiency (EE) Programs for the purpose of filling gaps in EE Program activities not being offered by the Investor-Owned Utility's (IOUs, such as PG&E) or Community Choice Aggregators (CCAs, such as MCE).

Since 2013, all BayREN counties have received CPUC funding each calendar year to provide marketing, education and outreach for various EE Programs offered through BayREN. On July 3, 2023, the CPUC approved, among other things, the BayREN business plan for 2024 through 2031 (Decision 23-06-055). The business plan allows BayREN to continue operating six existing programs and launch four new programs to fill gaps in energy efficiency services, pilot innovative programs, and serve hard-to-reach customers.

Sustainability staff will present a report on all BayREN Programs currently offered and new programs added in its 2024-2031 business plan.

Recommendation(s)/Next Step(s):

RECEIVE Report on Bay Area Regional Energy Network Programs

Fiscal Impact (if any):

N/A



Local Governments Empowering Our Communities

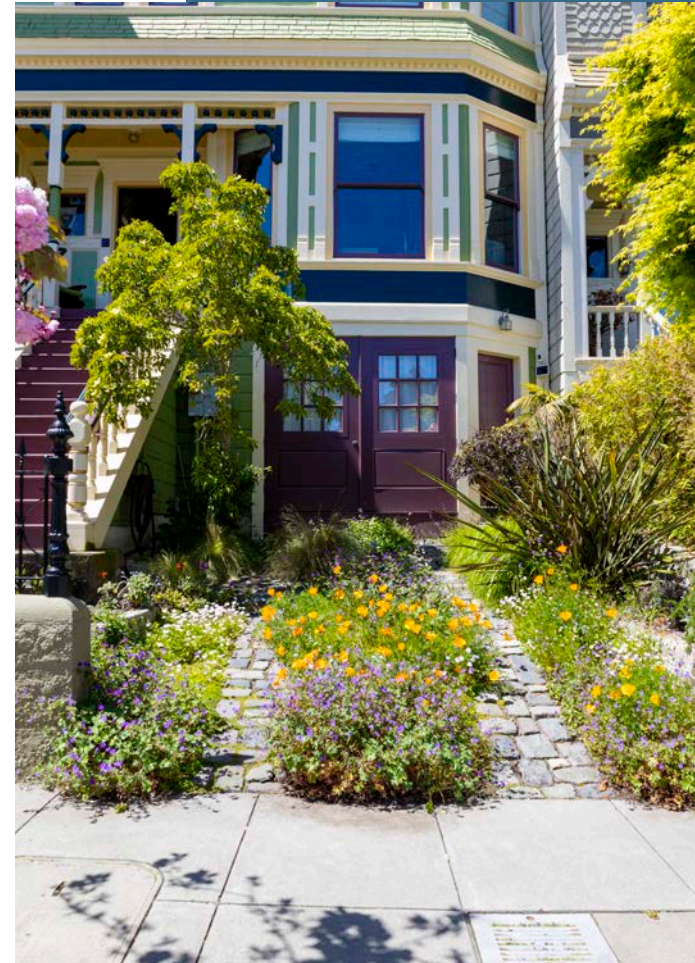
BayREN 2023 Year in Review & a look at BayREN Programs for 2024 – 2031

Sustainability Commission Report | April 29, 2024

Demian Hardman-Saldana, Principal Planner
Department of Conservation and Development

Presentation Content

- Overview
- Achievements to Date
- 2024 Program Offerings



What is BayREN?

The Bay Area Regional Energy Network (BayREN) is a **coalition** of the Bay Area's **nine counties** — a network of local governments and the Association of Bay Area Governments (ABAG) partnering to **promote energy, water and greenhouse gas reduction** for residents, small businesses and local governments.



Emphasis on Equity



A significant **60%** of the forthcoming four-year budget of **\$171 million** will be allocated to enhance equity initiatives for underserved residents.

Areas of Focus



BayREN serves the Bay Area with three priorities:

- Promote **healthy and energy efficient buildings** for residents and businesses
- **Build capacity** for local governments to increase their impact
- **Reduce GHG emissions** by catalyzing regional activities



156
million
tons of carbon
avoided



64
thousand
housing units
upgraded



ACHIEVEMENTS
TO DATE



12,777
new jobs
created



\$66
million
incentives
awarded

PROGRAM OFFERINGS



Residential

- Single Family Home+
- Bay Area Multifamily Building Enhancements Program (BAMBE)
- Green Labeling



Commercial

- BayREN Business
- BayREN Refrigerant Replacement Program (BRRR)



Public Sector

- Integrated Energy Services (IES)
- Targeted Decarbonization Services (TDS)



Cross Cutting

- Codes & Standards
- Climate Careers
- Water Upgrades Save

Single Family Home+

The program serves hard-to-reach and underserved households to promote resilience, health, comfort, safety, energy affordability, and/or energy savings.

2023 Overall Participation:

778

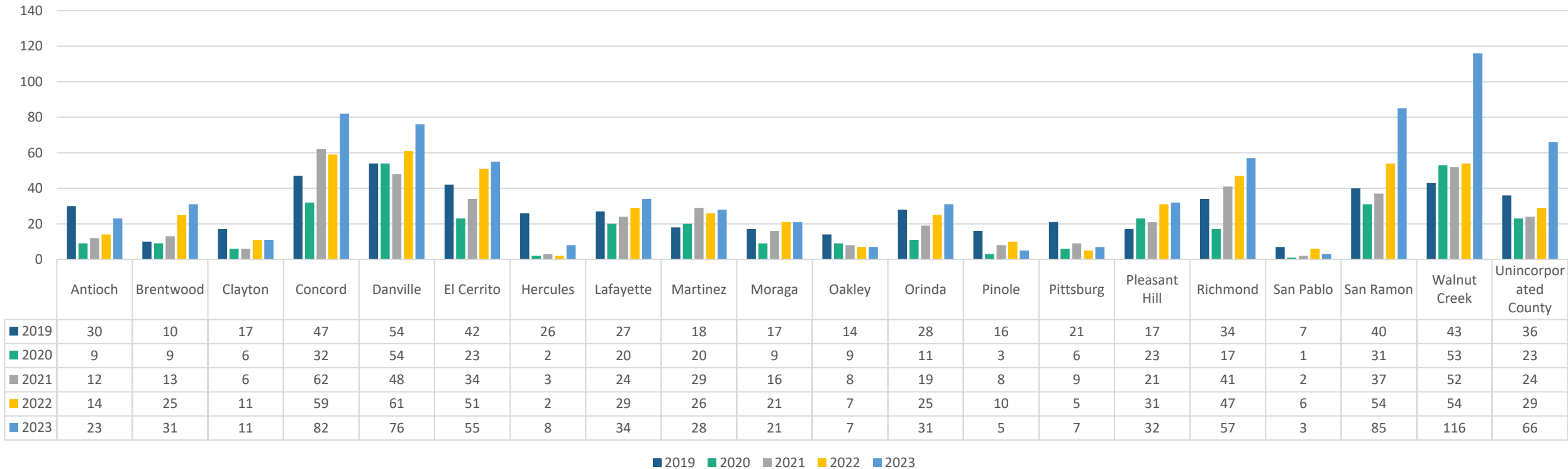
Homes were upgraded
in Contra Costa County

\$788,830.05

Rebates dispersed in
Contra Costa County

Home+ Program Participation

Home+ Program Participation by Community from 2019 through 2023



■ 2019 ■ 2020 ■ 2021 ■ 2022 ■ 2023



Green Labeling

The **Green Labeling** program oversees the Home Energy Score (HES) offering, providing residents with insights into their home's efficiency potential prior to undertaking home upgrade projects. BayREN has been approved to launch HES statewide.

The program also provides training and resources for real estate professionals to become green home experts.

1,779

2023 Total Homes scored
in Contra Costa County

\$424,200

Incentives paid in
Contra Costa County



Bay Area Multifamily Building Enhancements Program (BAMBE)

The program seeks to remove obstacles for improving multifamily buildings, promoting energy savings, and enhancing resident well-being.

33

2023 Total Projects
in Contra Costa
County

32

Projects in TA
representing 1,665
units in Contra
Costa County

1

Project representing
40 units that is
under construction
in Contra Costa
County



BayREN Business

The program supports local small, hard-to-reach businesses through energy efficiency projects to save energy and money.

9

2023 Total projects
(6 completed, 3 in-progress) in Contra Costa County

54,302 kWh

2023 Energy Savings
in Contra Costa County

\$152,370

2023 Incentives
in Contra Costa County



Codes & Standards

The program supports local governments with developing, adopting, and implementing energy policies, including reach codes and the California Energy Code.

16

Local government staff participating in Forums

32

Local government staff receiving Energy Code trainings



Water Upgrades Save

The program helps homeowners and renters install water and energy efficiency upgrades. The program is only available in participating jurisdictions.

BayREN Refrigerant Replacement Program (BRRR)

The program aims to replace environmentally harmful refrigerants with eco-friendlier options at low-to-no cost to food service sector businesses.



Integrated Energy Services (IES)

The program will assist local governments and special districts with finding and applying for funds to help improve their public buildings and will also provide a service to develop roadmaps for public building energy improvements.



Targeted Decarbonization Services (TDS)

The program will include a Decarbonization Showcase and will provide training and resources related to new equipment and technologies for decarbonizing public buildings.



Cross-Cutting



Climate Careers

The program will create job training opportunities in the green economy. Through an existing partnership with Rising Sun Center for Opportunity, BayREN has already supported youth with training and employment opportunities since 2019.



BAYREN

Local Governments Empowering Our Communities

For questions about the Single-Family Home+ Program:

Nicole Shimizu

Email: Nicole.Shimizu@dcd.cccounty.us

For questions on all other programs:

Adam Scarbrough

Email: Adam.Scarbrough@dcd.cccounty.us



Sign up for the BayREN Newsletter!



CONTRA COSTA COUNTY

1025 ESCOBAR STREET
MARTINEZ, CA 94553

Staff Report

File #: 24-1242

Agenda Date: 4/29/2024

Agenda #: 6.

Advisory Board: SUSTAINABILITY COMMISSION

Subject: Reports from Sustainability Commission Members and Alternates

Presenter: Demian Hardman-Saldana, Principal Planner

Contact: 925-655-2816, demian.hardman@dcd.cccounty.us <<mailto:demian.hardman@dcd.cccounty.us>>

Referral History and Update:

This is a standing item of the Commission. Commission members and alternates may provide updates to the full Commission.

Recommendation(s)/Next Step(s):

RECEIVE reports from Sustainability Commission members and alternates, and PROVIDE DIRECTION as needed.

Fiscal Impact (if any):

N/A

April 15, 2024

Luz Gomez
Sarah Foster
Demian Hardman

Re: Pacific Refinery Remediation Presentation

The Sustainability Commission is currently discussing and implementing the Climate Action Plan (CAP). As we become more successful in attaining the objectives of the CAP, those objectives may impact the fossil fuel industry in Contra Costa County. As we reduce greenhouse gases and decarbonize the transportation sector, there will be less demand for petroleum products. Contra Costa County has four petroleum refineries on its Northern Waterfront, two of which are converting to biofuels. By the time 2035 rolls around and no new gasoline automobiles are being sold in California, the demand for petroleum will be significantly decreased. Therefore, the four refineries may be forced to close, and the property remediated for uses other than producing petroleum products.

We have an example of refinery remediation right here in Contra Costa County that occurred 25 years ago in the City of Hercules. A historical analysis of what occurred during that remediation process may provide useful guidance of what to expect if one of our current refineries closes.

Attached you'll find my presentation to review and discuss with the entire Commission and the public during our meeting on April 29th.

Sincerely,

A handwritten signature in cursive script that reads "Mike Moore".

Mike Moore
Sustainability Commission Member



Pacific Refinery Remediation

1997 – 2001 Groundwater and Soil Remediation of the former
Petroleum Refinery in Contra Cost County

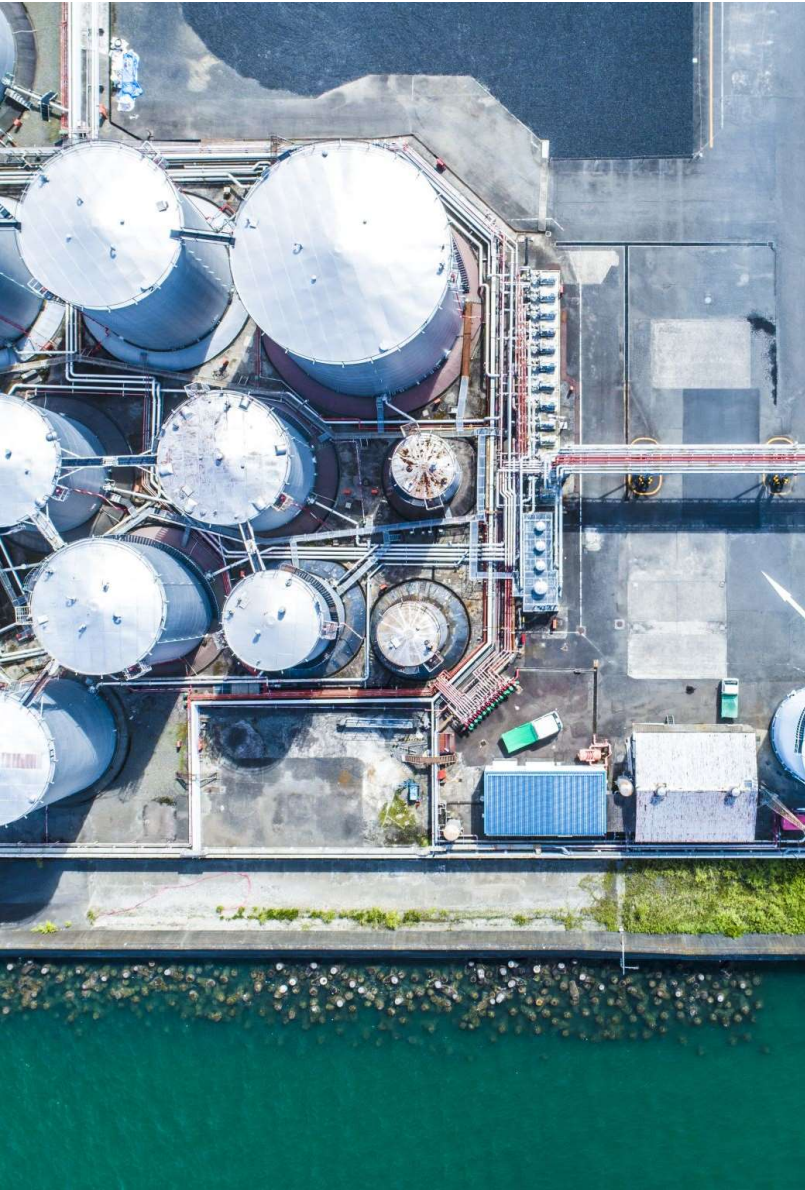
Mike Moore



FORMER REFINERY

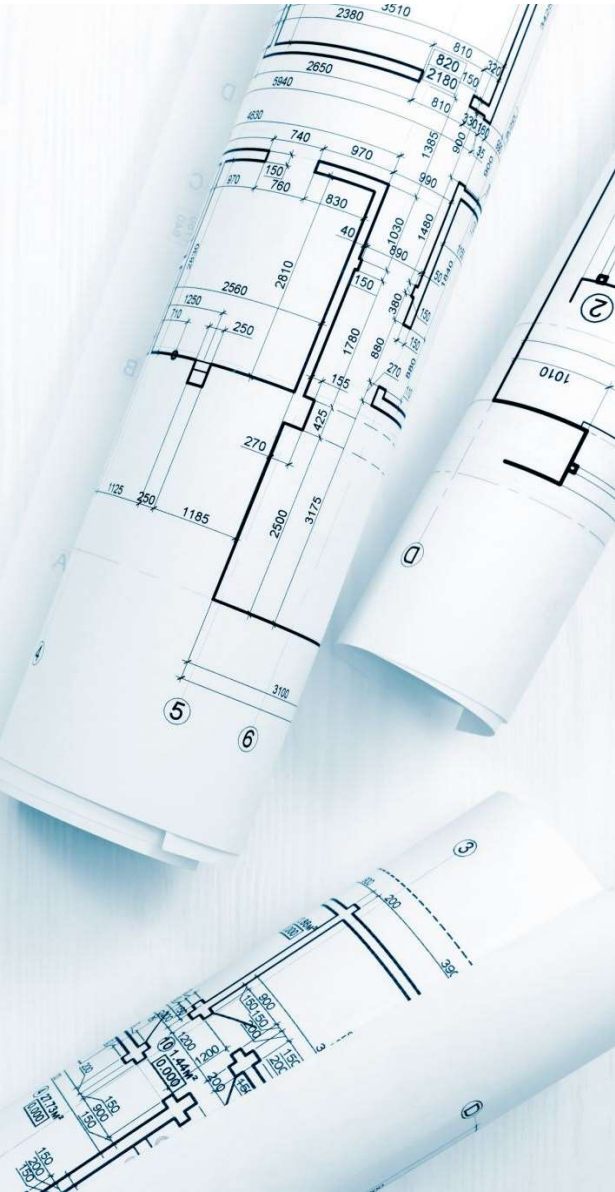


© 2015 Michael Lavefsky



Refinery Background

- Refinery was built in 1966
- The property was approximately 142 acres
- It refined crude oil delivered by tankers or rail into marketable petroleum products
- The Capacity of the refinery was 50,000 barrels per day – modest size
- It ceased producing petroleum products in July 1995 when it was converted to a petroleum terminal.

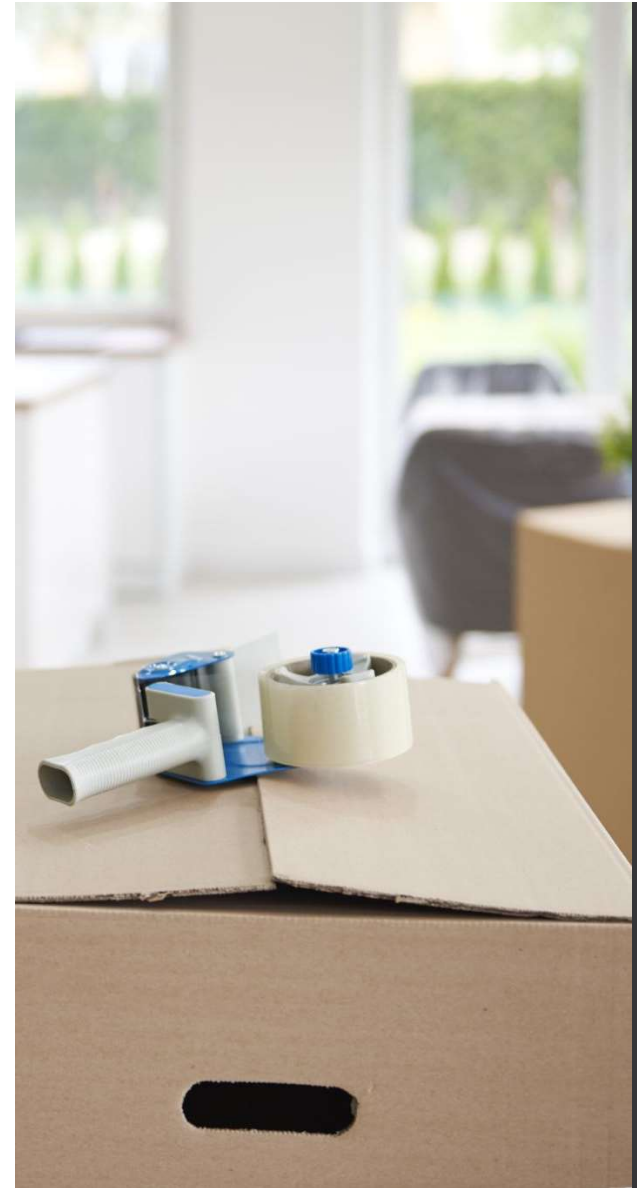


Prior Groundwater Assessment and Sale of Property for Residential Development

- Since early 1990's - On-going Site Assessment of gasoline-range hydrocarbons by the RWQCB
- Hercules City Council in March 1997 tentatively approved proposed sale of site to Developer for residential housing
- Groundwater and soil remediation standards were finalized on September 2, 1997 between RWQCB and Developer
- Property sold for \$4.7M on September 4, 1997
- Project designated as New Pacific Properties(NPP)
- NPP hired IT Corporation as Project Manager and Environ as Environmental Health Risk Manager to manage remediation

RWQCB Cleanup Standards – 9/2/97

- 1) Removal of free product, to the extent practicable, beneath this and adjacent properties
- 2) Removal of all secondary free product sources, to the extent practicable, from the capillary and vadose zones beneath the property
- 3) No migration and hydraulic containment of hydrocarbon plumes
- 4) Demonstration of dissolved phase plume stabilization
- 5) Met Risk Based Target Concentrations of contaminants





Groundwater Remediation Plan

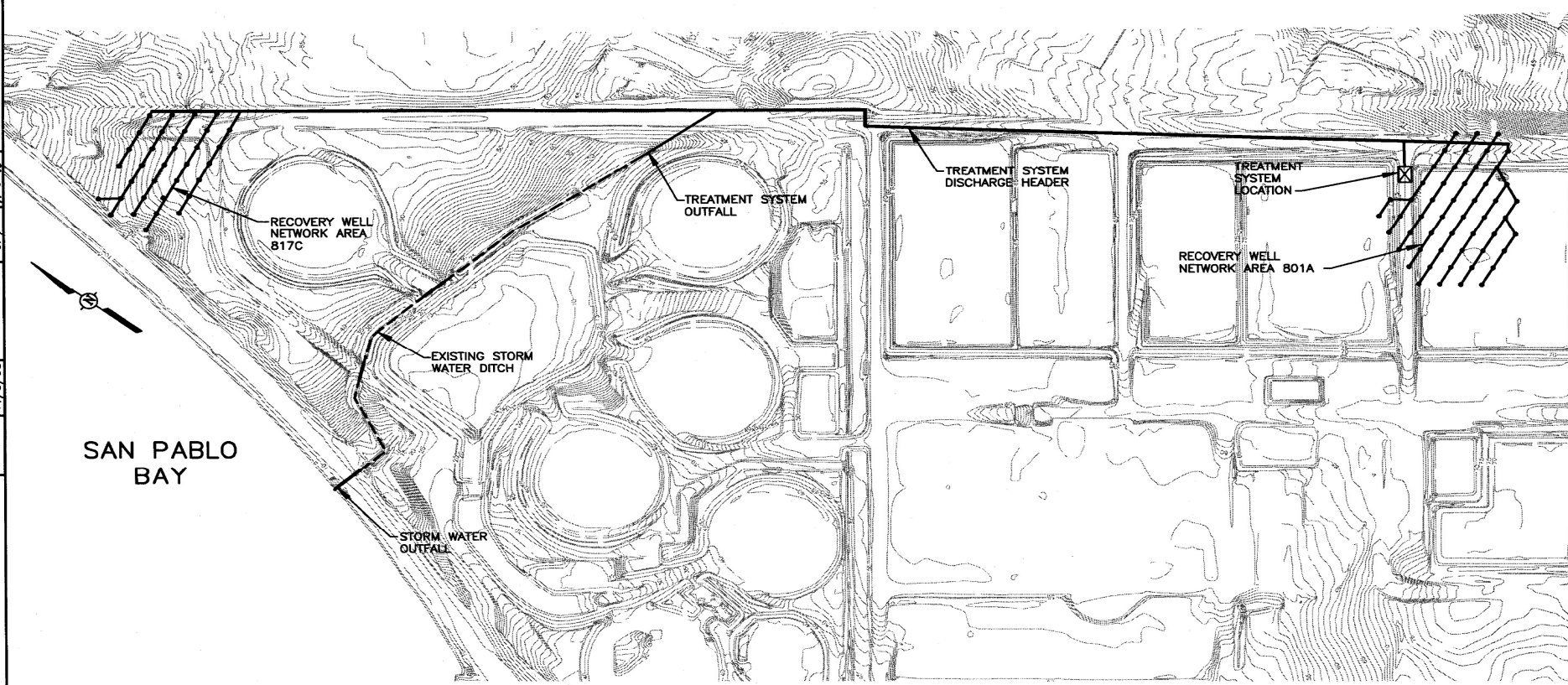
- The groundwater plumes were remediated by the pumping of total liquids (product and groundwater) in combination of soil vapor extraction
- The remediation system consisted of four subsystems:
 - Groundwater recovery system
 - Groundwater treatment system
 - Air injection system; and
 - Soil-vapor recovery and treatment systems
- Required Approval by BAAQMD to operate pneumatic pumps under their regulations - BAAQMD Application 19463 – Granted April 1999



Groundwater Remediation - Process

- From April 1999 until July 2000, soil vapor and groundwater were extracted from up to 93 recovery wells.
- The groundwater was treated then discharged through the existing refinery outfall, under the terms of RWQCB general National Pollutant Discharge Elimination System (NPDES) permit (96-078)
- The soil vapor was routed through an incinerator to be burned and consumed
- Quarterly monitoring reports were submitted for both the GW and NPDES permit.


DRAWING NUMBER 760340-B17
 CHECKED BY J.A.C. 11/3/98
 APPROVED BY J.F. 11/3/98
 DRAWN BY



LEGEND :
 ——— PIPE
 - - - DITCH

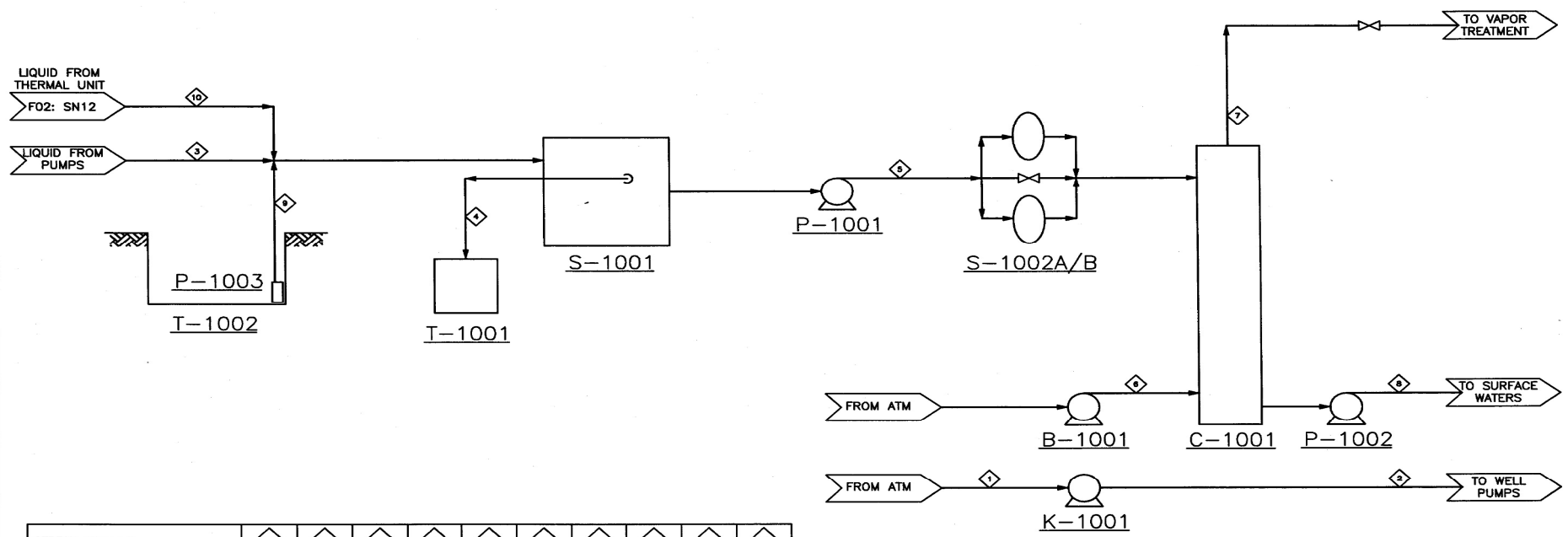
SCALE
 0 200 400 FEET

NPPMELD(NOV98)


FIGURE 16
 PIPING MANIFOLD AND
 EQUIPMENT LOCATION DIAGRAM
 PREPARED FOR
 NEW PACIFIC PROPERTIES
 HERCULES, CALIFORNIA

**INTERNATIONAL
 TECHNOLOGY
 CORPORATION**

DRAWING NUMBER 776952-B12
 11.2.98 11.2.98
 CHECKED BY JZ
 APPROVED BY JZ
 J.A.C. 10/12/98
 DRAWN BY

B-1001 BLOWER
 C-1001 AIR STRIPPER
 K-1001 RECIPROCATING AIR COMPRESSOR
 P-1001 CENTRIFUGAL TRANSFER PUMP
 P-1002 PROGRESSING CAVITY TRANSFER PUMP
 P-1003 SUMP PUMP
 S-1001 OIL/WATER SEPARATOR
 S-1002A/B CARTRIDGE FILTERS
 T-1001 PRODUCT TANK
 T-1002 CONTAINMENT SUMP



STREAM NUMBER	1	2	3	4	5	6	7	8	9	10
LIQUID FLOWRATE (GPM)	0.0	0.0	37.7	0.113	37.6	0	0	37.6	0	0.0500
VAPOR FLOWRATE (ACFM)	37.7	5.9	0	0	0	800	638	0	0	0
VAPOR FLOWRATE (SCFM)	37.7	37.7	0.0	0	0	635	635	0	0	0
PRESSURE (PSIA)	14.7	94.7	19.7	14.7	44.8	15.6	14.6	75.3	19.7	19.7
TEMPERATURE (°F)	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
MASS FLOWRATE (LB/HR)	170	170	18875	56.6	14678	2862	2862	18819	0	25

FIGURE 17
 PROCESS FLOW DIAGRAM
 LIQUID RECOVERY
 AND TREATMENT SYSTEM
 PREPARED FOR
 NEW PACIFIC PROPERTIES
 HERCULES, CALIFORNIA

 INTERNATIONAL
 TECHNOLOGY
 CORPORATION

NPPFDLRT(OCT98)

TABLE 6

Operating Data Summary
Groundwater and Soil Vapor Treatment Systems
New Pacific Properties, Hercules, CA

Date	Groundwater						Soil Vapor					Phase Separate Hydrocarbons (PSH)		Biodecay of Hydrocarbons				Total	
	Cumulative Uptime ¹	FQI-1001		Cumulative Treated	Cumulative Hydrocarbons Recovered ²	Hydrocarbons Recovery Rate ³	Cumulative Uptime ⁴	Flow Rate	Cumulative Treated ⁵	Cumulative Hydrocarbons Recovered ⁶	Hydrocarbons Recovery Rate ⁷	Cumulative Recovered ⁸	Recovery Rate ⁹	CO ₂	Soil Vapor Throughput	Cumulative Degradated ¹²	Degradation Rate	Cumulative Hydrocarbons Recovered	Hydrocarbons Recovery Rate
		Instantaneous Flow Rate	Totalizer																
5/12/00	8,094	7	3,079,282	3,074,212	3,009	0.0	8,233	540	321,446,246	429,479	3.1	18,630	0	0.496	916,262	60,746	6	511,864	9.1
5/22/00	8,334	7	3,187,140	3,182,070	3,018	0.0	8,473	378	326,880,446	430,003	2.2	18,630	0	0.496	6,413,833	61,749	4	513,400	6.4
5/23/00	8,358	8	3,199,160	3,194,090	3,018	0.0	8,497	300	327,321,446	430,045	1.7	18,630	0	0.496	509,034	61,829	3	513,522	5.1
5/24/00	8,390	12	3,215,408	3,210,338	3,020	0.1	8,521	488	327,995,358	430,110	2.7	18,630	0	0.496	794,084	61,953	5	513,712	7.9
5/26/00	8,421	7	3,232,054	3,226,984	3,021	0.0	8,560	383	328,873,187	430,195	2.2	18,630	0	0.496	1,034,365	62,114	4	513,960	6.5
5/30/00	8,512	12	3,298,180	3,293,110	3,026	0.1	8,656	354	330,912,227	430,391	2.0	18,630	0	0.496	2,402,842	62,490	4	514,537	6.0
5/31/00	8,536	11	3,314,005	3,308,935	3,027	0.0	8,680	253	331,275,957	430,419	1.2	18,630	0	0.235	428,590	62,522	1	514,598	2.5
6/1/00	8,560	12	3,330,771	3,325,701	3,028	0.0	8,704	307	332,157,882	430,490	1.6	18,630	0	0.235	520,827	62,560	2	514,672	3.1
6/2/00	8,583	3	3,385,248	3,330,178	3,028	0.0	8,727	346	333,493,509	430,590	1.4	18,630	0	0.235	565,260	62,715	2	514,967	3.0
6/5/00	8,655	12	3,396,193	3,391,123	3,031	0.0	8,799	300	334,403,445	430,660	1.5	18,630	0	0.235	1,072,196	62,795	2	515,118	3.2
6/7/00	8,703	11	3,417,108	3,412,038	3,033	0.0	8,847	316	334,935,914	430,701	1.7	18,630	0	0.235	627,419	62,841	2	515,206	3.7
6/8/00	8,727	11	3,432,348	3,427,278	3,034	0.0	8,871	370	335,357,632	430,734	1.4	18,630	0	0.235	496,919	62,878	2	515,277	2.9
6/9/00	8,751	10	3,447,260	3,442,190	3,035	0.0	8,895	293	337,839,472	430,925	2.7	18,630	0	0.235	2,924,403	63,094	3	515,686	5.7
6/12/00	8,823	7	3,479,155	3,474,085	3,037	0.0	8,967	575	338,628,146	430,986	2.5	18,630	0	0.235	929,310	63,163	3	515,817	5.4
6/13/00	8,847	6	3,488,485	3,483,415	3,037	0.0	8,991	548	339,426,323	431,048	2.6	18,630	0	0.235	940,509	63,233	3	515,948	5.5
6/14/00	8,871	8	3,499,835	3,494,765	3,038	0.0	9,015	554	340,231,211	431,110	2.6	18,630	0	0.235	948,418	63,303	3	516,081	5.5
6/15/00	8,895	8	3,511,115	3,506,045	3,038	0.0	9,039	559	340,959,218	431,166	2.3	18,630	0	0.235	857,825	63,367	3	516,202	5.0
6/16/00	8,919	8	3,522,180	3,517,110	3,039	0.0	9,063	508	343,919,930	431,394	3.2	18,630	0	0.235	3,488,667	63,625	4	516,689	6.8
6/19/00	8,991	3	3,535,815	3,530,745	3,040	0.0	9,183	639	345,759,760	431,536	3.0	18,630	0	0.235	2,167,910	63,785	3	516,902	6.3
6/21/00	9,034	7	3,563,110	3,558,040	3,041	0.0	9,207	563	346,570,566	431,599	2.6	18,630	0	0.235	955,390	63,856	3	517,126	6.0
6/22/00	9,058	8	3,584,226	3,559,156	3,042	0.0	9,231	813	347,740,811	431,689	3.8	18,630	0	0.235	1,378,923	63,958	4	517,319	6.1
6/23/00	9,082	8	3,576,215	3,571,145	3,044	0.0	9,303	728	350,884,346	431,931	3.4	18,630	0	0.235	3,704,091	64,232	4	517,838	7.2
6/28/00	9,154	8	3,609,635	3,604,565	3,044	0.0	9,351	770	353,101,773	432,102	3.6	18,630	0	0.235	2,612,840	64,426	4	518,202	7.6
6/28/00	9,202	1	3,612,919	3,607,849	3,044	0.0	9,375	735	354,159,885	432,184	3.4	18,630	0	0.235	1,246,795	64,518	4	518,377	7.3
6/29/00	9,226	8	3,624,545	3,619,475	3,045	0.0													

Notes:

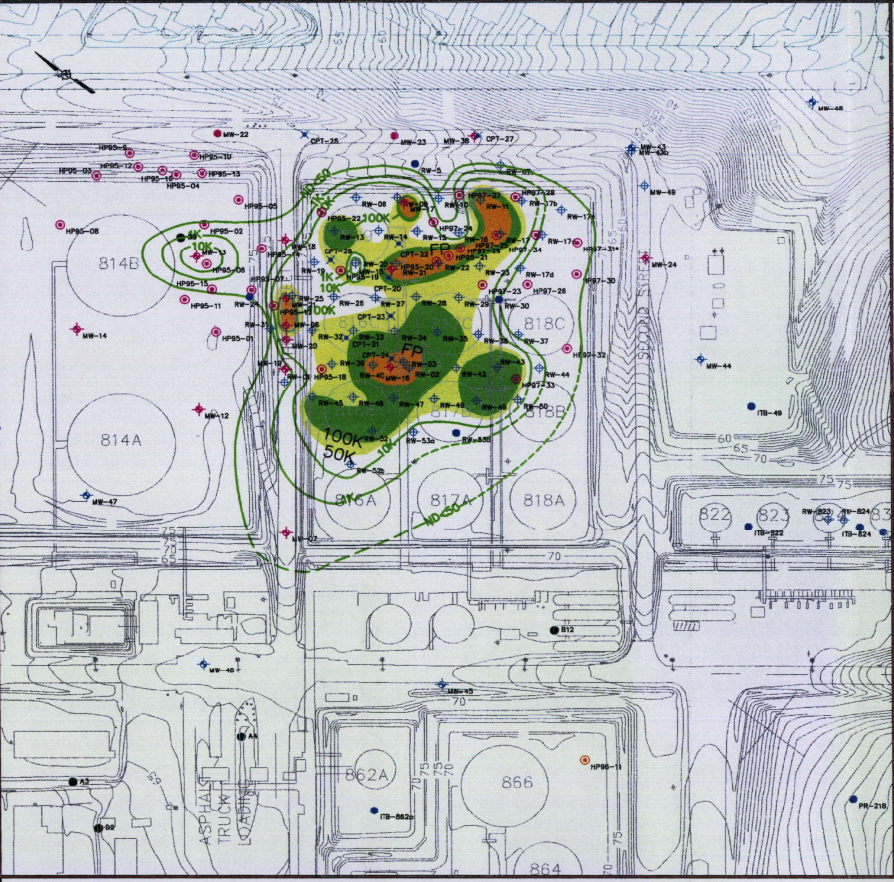
- Based on Table 7, ' Groundwater Treatment System Activity Log 1999.'
- $[\text{Table 1, Avg. Influent Concentration of Hydrocarbons (ug/l)}] * [\text{Cumulative GW Treated (gals)}] * [3.785332 (\text{lb/gal})] * [1/1000000(\text{g/ug})] * [0.00220462(\text{lbs/g})]$
- $\{[\text{Cumulative HC Recovered}_n - \text{Cumulative HC Recovered}_{n-1}] (\text{lbs})\} / \{[\text{Cumulative GW Uptime}_n - \text{Cumulative GW Uptime}_{n-1}] (\text{hr})\}$, where n = days
- Based on Table 8, ' Vapor Treatment System Activity Log 1999.'
- $\{[\text{Cumulative Vapor Uptime}_n - \text{Cumulative Vapor Uptime}_{n-1}] (\text{hrs})\} * [\text{Vapor Flow Rate (ft}^3/\text{min)}] * [60 (\text{min/hr})] + [\text{Cumulative Treated (ft}^3)]$, where n = days
- $[\text{Cumulative Treated (ft}^3)] * [\text{Soil Vapor Influent Concentration (Btu/ft}^3)] / [20750 (\text{Btu/lb-gasoline})]$
- $\{[\text{Cumulative HC Recovered}_n - \text{Cumulative HC Recovered}_{n-1}] (\text{lbs})\} / \{[\text{Cumulative Vapor Uptime}_n - \text{Cumulative Vapor Uptime}_{n-1}] (\text{hr})\}$, where n = days
- $[\text{PSH Recovered During Table 5 Accumulation Period (lbs)}] / [\text{Total GW Uptime During Accumulation Period (hrs)}] * \{[\text{Cumulative GW Uptime}_n - \text{Cumulative GW Uptime}_{n-1}] (\text{hr})\} + [\text{Cumulative PSH Recovered}_{n-1} (\text{lbs})]$, where n=days
- $\{[\text{Cumulative PSH Recovered}_n - \text{Cumulative PSH Recovered}_{n-1}] (\text{lbs})\} / \{[\text{Cumulative GW Uptime}_n - \text{Cumulative GW Uptime}_{n-1}] (\text{hr})\}$, where n = days
- lbs/hr_{gw} = pounds per hour of groundwater uptime
- NR = Not recorded
- Biodecay calculation based on approximately 3.1 mg CO₂ produced for each mg Hexane degraded.

Handwritten calculations:

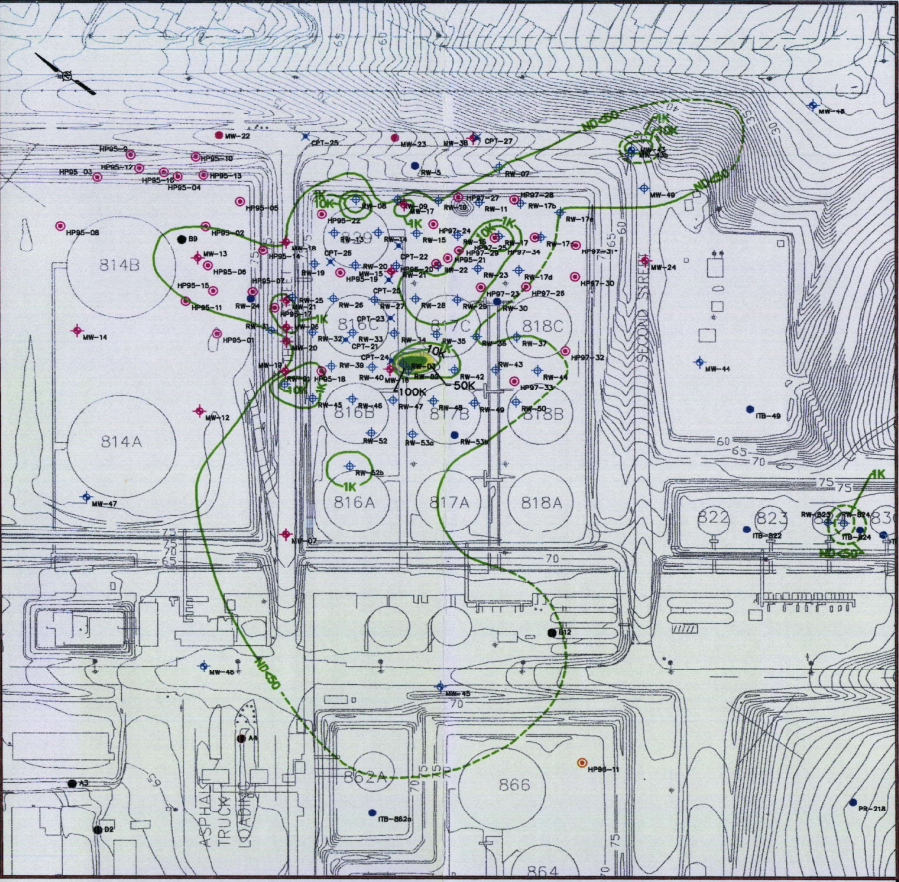
$$\frac{2.91}{\text{min}} = \frac{1 \text{ lb}}{\text{min}} \times \frac{10 \text{ lbs}}{10 \times 10^6 \text{ lbs}} \times \frac{1}{\text{min}}$$

= GW⁻⁴ 10 / hr.

DRAWING NUMBER 776952-B148
 APPROVED BY S. L. [Signature]
 CHECKED BY [Signature]
 DRAWN BY [Signature]
 DATE 8/25/00
 OFFICE Concord
 X-REF NP8351E
 IMAGE



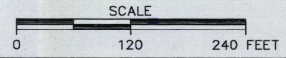
1st QUARTER 1999



2nd/3rd QUARTER 2000

LEGEND :

- | | | |
|---|--|---|
| <ul style="list-style-type: none"> ⊕ MONITORING WELL BY IT CORPORATION ⊕ RECOVERY SYSTEM WELL BY IT CORPORATION ● BORING/TEMPORARY WELL BY IT CORPORATION ✕ CONE PENETRATION TEST (CPT) BY IT CORPORATION ⊕ MONITORING WELL BY ALTON GEOSCIENCE ● BORING/TEMPORARY WELL BY ALTON GEOSCIENCE | <ul style="list-style-type: none"> ⊕ HYDROPUNCH BY ALTON GEOSCIENCE ⊕ HYDROPUNCH BY ENVIRONMENTAL SCIENCE AND ENGINEERING, INC. ● BORING BY WOODWARD-CLYDE — REFINERY TOPOGRAPHY (1ft., C.I.) — TPHg ISOCONCENTRATION CONTOUR | <ul style="list-style-type: none"> ■ >50K µg/l TPHg ■ >100K µg/l TPHg ■ FP (FREE PRODUCT GASOLINE) |
|---|--|---|



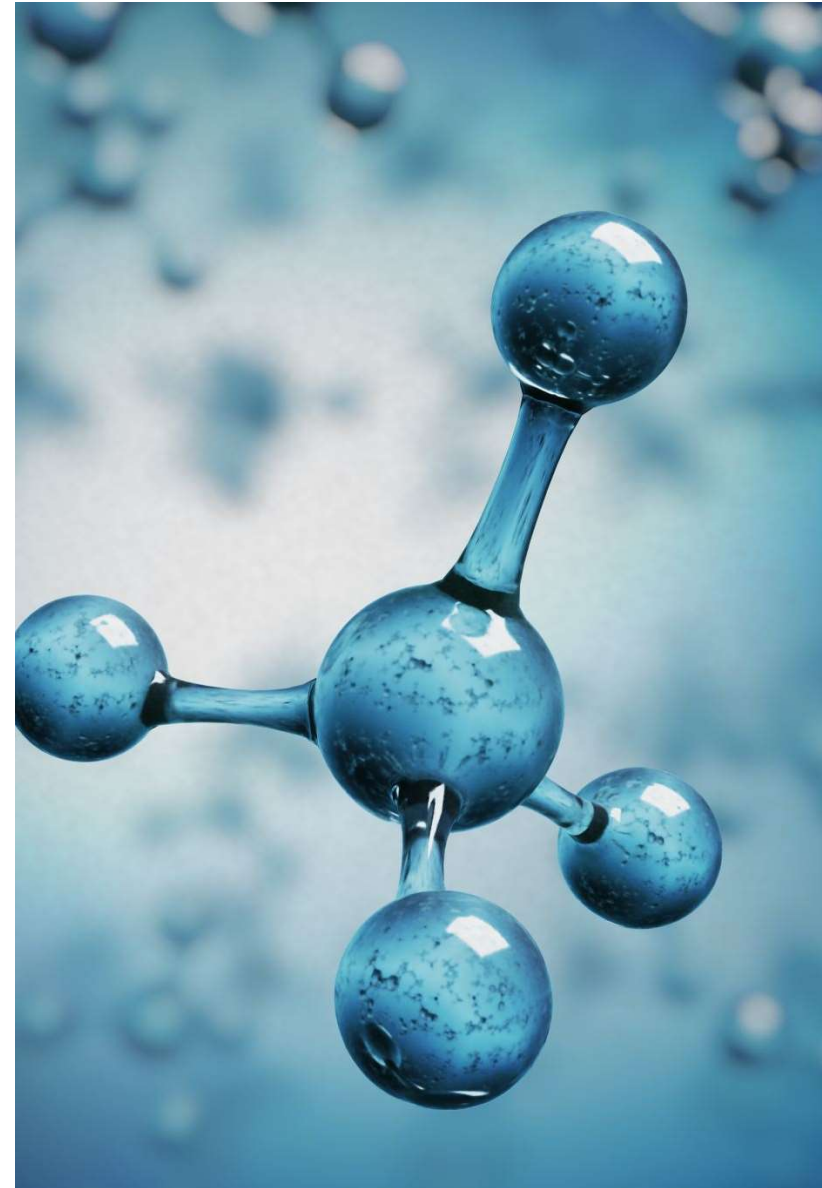
NOTES:

1. 1st QUARTER SAMPLES COLLECTED 1/6/99 TO 2/3/99.
2. 2nd QUARTER SAMPLES COLLECTED 5/3/00 TO 5/31/00.
3. NOT ALL POINTS DISPLAYED WERE USED TO GENERATE THE CONTOURS.
4. RW-03 DATA PRESENTED FOR 2nd QUARTER 2000 IS FROM SAMPLE COLLECTED 7/17/00.

	NEW PACIFIC PROPERTIES 4901 SAN PABLO AVENUE HERCULES, CALIFORNIA
	FIGURE 7 817C AREA TPHg ISOCONCENTRATION CONTOURS 1st QUARTER 1999 and 2nd/3rd QUARTER 2000

Groundwater Remediation – No Further Action – August 1, 2000

- Status from April 1999 to July 2000 – Accomplishments
 - Recovery of 19,000 lbs of liquid phase product
 - Removal of approximately 432,000 lbs of vapor phase hydrocarbons
 - Recovery and treatment of approximately 3,000 lbs of hydrocarbons dissolved in approximately 31 million lbs of groundwater





Groundwater Remediation – No Further Action – August 1, 2000

- Found that residual hydrocarbon constituents will continue to degrade after remediation system shut down.
- 817C Area risk assessment showed that contaminants TPHg, BTEX, and MTBE concentrations in groundwater have been reduced below human health RBTCs for residential use.
- 801A Area risk assessment showed that contaminants TPHg and BTEX concentrations in groundwater have been reduced below human health RBTCs for Park Visitors.



Objections to NFA by RWQCB Staff

- **Site is not necessarily asymptotic**
- **Clarify time expected to reach MCLs(maximum concentration level), and refine half-life estimates**
- **No follow-up monitoring proposed to verify whether natural attenuation is occurring**
- **No justification for use of 1×10^{-5} excess cancer risk(RBTC)**
- **Questions regards models used**
- **How input parameters for Risk assessment were derived.**



Final RWQCB Staff Analysis of Groundwater Remediation NFA

- Did NPP Meet 1997 GW Cleanup Goals?
 - Removal of Free Product Achieved
 - Hydraulic Containment of Plumes – Achieved through Free Product action
 - Asymptotic Concentrations – Technical Infeasibility has not been shown
 - Water Quality Objectives met 50 feet from Bay
 - Suggestive though no full demonstration that they met the US EPA surface water criteria for benzene
 - Water Quality Goals met via remediation, with no threat to the Bay
 - The residual GW concentrations meet risk-based target concentrations.
 - The discharger's chosen risk level of 1×10^{-5} excess cancer risk is sufficiently conservative.



Final RWQCB Staff Analysis of Groundwater Remediation NFA

- There is evidence of ongoing, natural attenuation
- The remaining GW concentrations will degrade to the MCL in a reasonable period of time
- Future monitoring is not needed if the following is true:
 - All risk-based target concentrations are met
 - No ecological risk
 - Natural attenuation
- Result – Staff recommended NFA April 24, 2001



Soil Management Sampling and Analysis Plan- SAP

- Sampling and Analysis Plan (SAP) - Objectives
 - Investigate previously uncharacterized areas,
 - Evaluate and collect confirmation sample following removal of shallow contaminated soil,
 - Characterize proposed cut and fill material,
 - Determine site background concentrations for naturally occurring inorganic compounds.
- Systematic sampling incorporates the following guidelines:
 - Surface soil samples will be collected on a 100-200-foot grid in most areas.



Soil Management Sampling and Analysis Plan- SAP

- Impacted Soil Management Program
 - 25 sites were selected for sampling
 - Excavated the top one – two feet of soil prior to soil sampling
 - All excavated soils will be managed on site
 - Relocated soils on site to areas and depths to meet cleanup standards
 - Soil samples will then be collected from the excavated areas to document the chemical characterizations of the remaining soil

BAAQMD Docket 3288

- The Soil Aeration Rule BAAQMD Regulation 8, Rule 40 Requirement- Placement of fill soils that contain TPH-gasoline or other volatile organic compounds (VOCS)
- Exposed contaminated soil must be covered with a layer of clean soil no less than six inches thick plus a cover per section 840-303 to "minimize emissions to the atmosphere" of VOCs
- NPP proposed that a combination of watering and compaction would be equally effective in minimizing VOC emissions
- Since it would cost an additional \$470K, NPP won the litigation and changed the BAAQMD rule





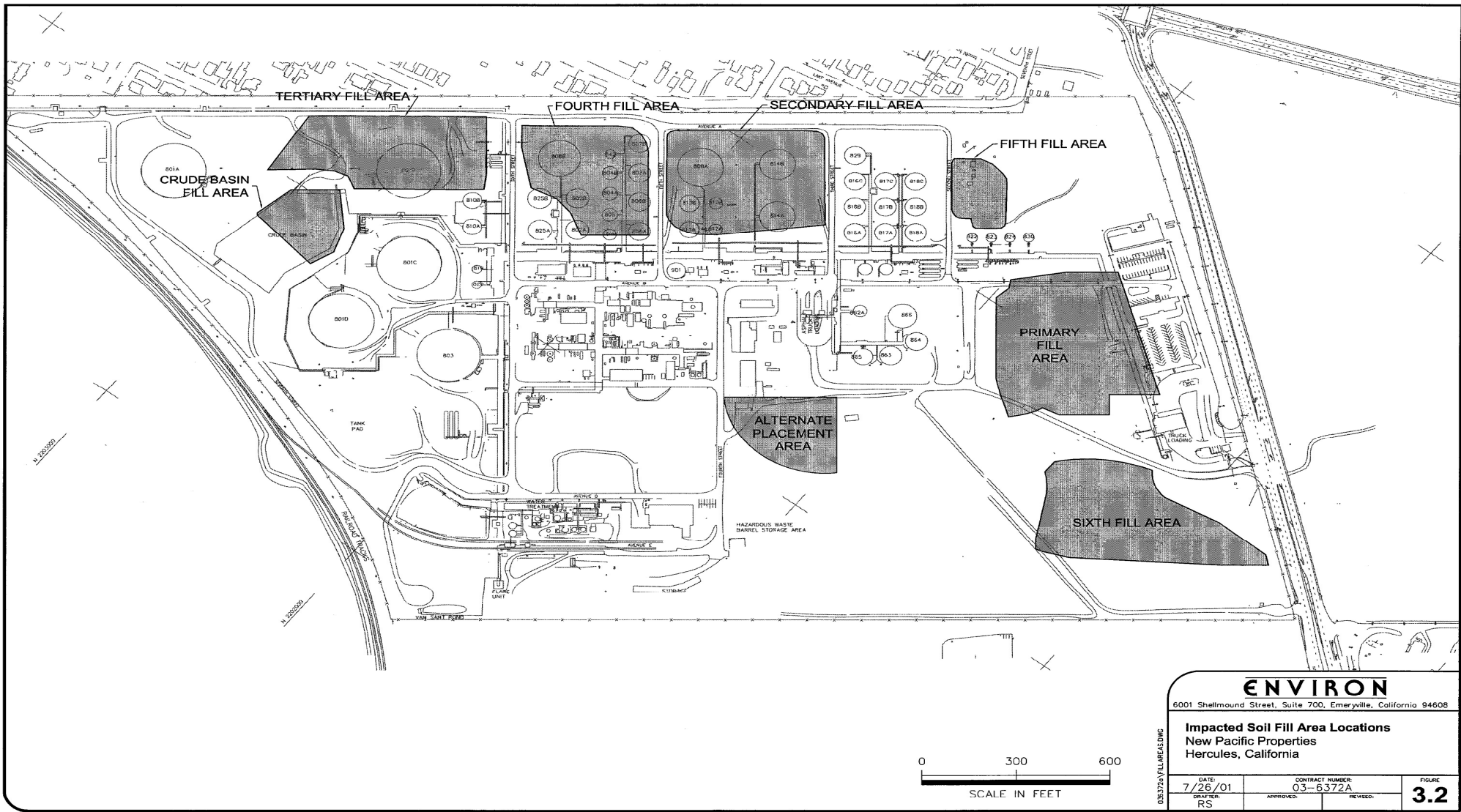
Soil Management Plan - SMP

- Objective –
- Identify impacted soil
- Described the methods and procedures used during the excavation, hauling, and placement of impacted soils at the Site.
- Soils that required excavation and relocation as part of the SMP
 - Areas where visible staining or noticeable odors were identified during previous site activities
 - If a soil sample exceeded any of the soil cleanup goals, then the surrounding soil was excavated.

Soil Management Plan - SMP

- Done in three phases
 - Phase 1 field work was implemented between September 1999 and November 1999.
 - Phase 2 field work was implemented between May 2000 and June 2000.
 - Phase 3 field work was implemented between October 2000 and August 2001.
- A total of 445,221 cubic yards of impacted soils were excavated and relocated to eight fill areas.
- Additional excavation and expansion of fill relocation areas continued based on visual and olfactory evidence until impacted soil had been removed
- Confirmation samples were taken to verify removal of impacted soil.
- No Further Action Granted November 2001 (Submitted October 2001)





ENVIRON
 6001 Shellmound Street, Suite 700, Emeryville, California 94608

Impacted Soil Fill Area Locations
 New Pacific Properties
 Hercules, California

DATE: 7/26/01	CONTRACT NUMBER: 03-6372A	FIGURE: 3.2
DRAWN BY: RS	APPROVED:	REVISED:

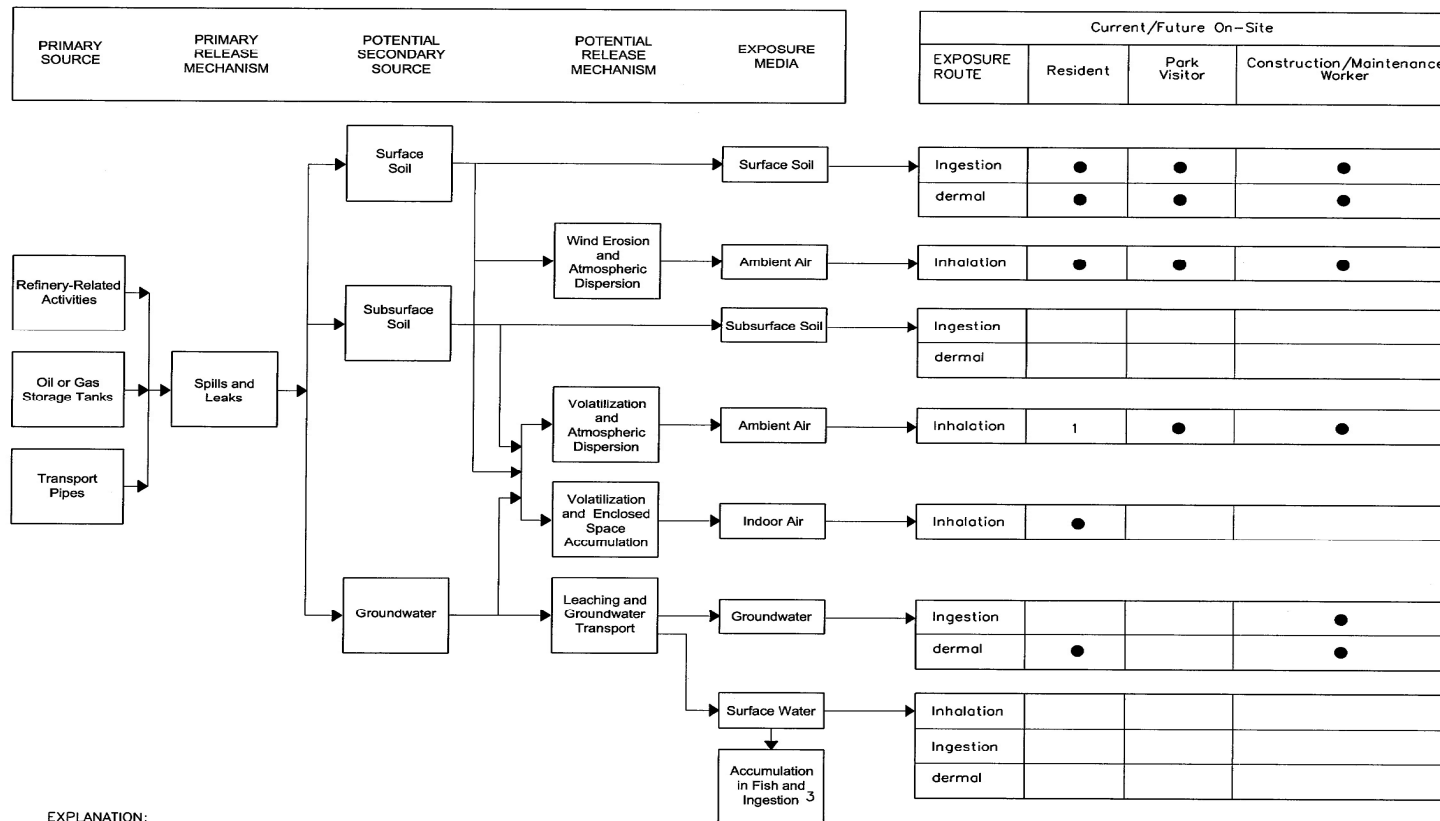
03-6372A-FILL AREAS.DWG

**Table 2
Fill Areas**

Fill Area	Impacted Soil Volume in Fill Areas			
	Phase 1	Phase 2	Phase 3	Totals
Primary	82,141		53,840	135,981
Secondary		32,600	21,240	53,840
Tertiary		86,520		86,520
Fourth			37,000	37,000
Fifth			27,220	27,220
Alternate			28,000	28,000
Crude Basin			15,780	15,780
Sixth			60,880	60,880
Total	82,141	119,120	243,960	445,221







EXPLANATION:

- Potentially complete exposure pathways for further consideration.
- 1 The pathway occurs but the indoor air exposure to volatile gases already provides a conservative estimates
- 2 Potential exposure to shallow groundwater during digging activities.
- 3 Previously evaluated and deemed unlikely to pose a threat to potential human or ecological receptors

ENVIRON
6001 Shellmound Street, Suite 700, Emeryville, California 94608

Conceptual Site Model (CSM)
New Pacific Properties
Hercules, California

DATE: 7/30/01	CONTRACT NUMBER: 03-6372A	FIGURE: 4.1
DRAWN BY: RS	APPROVED:	REVISED:

036372A-CONCEPTUAL DIAGRAM.DWG



Funding the Remediation - DOPA

- Development and Owner Participation Agreement – January 2001
 - Approved by Hercules Ordinance No 360
- Financing Term – 45 years from Adoption of Ordinance 351 - April 2045
- Time of Payment – Semi-annual – February and August
- Base Year Assessed Valuation - \$7.654 million
- Amount of Agency Financing Assistance
 - 75% of Unrestricted Portion of Property Tax Increment
 - 90% of Housing Portion of Property Tax Increment
- Financing Assistance Dedicated to Hercules LLC – Agreement Recorded



Funding the Remediation – Litigation & Settlement

- Dispute over Payments – 2007; Litigation Initiated by Hercules LLC
- City Unilaterally Modified DOPA – April 2009
 - Hercules LLC failed to demonstrate good faith compliance with terms of DOPA per City
 - Modification approved by Hercules Ordinance No 446
- Revised Amount of Agency Financing Assistance
 - 75% of Unrestricted Portion of Property Tax Increment capped at \$31.4 million
 - 90% of Housing Portion of Property Tax Increment (20% of Total property Tax Increment) capped at \$4.6 million
- Litigation – City loss on appeal
- Settlement – Hercules Ordinance 458; Rescinded Ordinance 446
 - Semiannual payments to February 2044
 - 75% of Unrestricted Portion of Property Tax Increment from August 2010 to February 2024
 - 50% of Unrestricted Portion of Property Tax Increment from August 2024 to February 2044
 - Housing Portion of Property Tax Increment Discontinued

A photograph of an industrial facility, likely a refinery or chemical plant, at night. The scene is illuminated by artificial lights, highlighting various structures such as distillation columns, storage tanks, and piping. The sky is dark, and the foreground shows a line of trees and a field.

Thank You &
Questions



CONTRA COSTA COUNTY

1025 ESCOBAR STREET
MARTINEZ, CA 94553

Staff Report

File #: 24-1243

Agenda Date: 4/29/2024

Agenda #: 7.

Advisory Board: SUSTAINABILITY COMMISSION

Subject: Report on Staff Activities that Support Sustainability Goals

Department: Conservation and Development

Presenter: Jody London, Sustainability Coordinator

Contact: 925-655-2815, jody.london@dcd.cccounty.us <<mailto:jody.london@dcd.cccounty.us>>

Referral History and Update:

This is a standing item of the Commission. At each Commission meeting Sustainability staff provides a report on key County staff sustainability activities. Attached is the report for April 2024.

Recommendation(s)/Next Step(s):

RECEIVE Report on Staff Activities that Support Sustainability Goals

Fiscal Impact (if any):

N/A

**SUSTAINABILTY STAFF REPORT FOR
SUSTAINABILITY COMMISSION
April 29, 2024**

Key activities since the Sustainability Commission’s meeting on February 26, 2024, are listed below. Activities are keyed to goals in the 2023-2024 Interim Climate Action Work Plan.

ACTIVITY	2023-2024 INTERIM CAP GOAL
Department of Conservation and Development	
Staff submitted an application to the Ocean Protection Council Senate Bill (SB) 1 Grant Program on March 22, 2024. Staff is preparing an application to the Office of Planning and Research Adaptation Planning Grant Program due on June 3, 2024. If awarded, this funding would be used to support the preparation of the Contra Costa Resilient Shoreline Plan to conduct a community visioning process and explore short- and long-term adaptation pathways that would guide the County’s response to sea level rise.	Goal 2 – Resilient Communities and Natural Infrastructure
On March 26, 2024, the Board of Supervisors authorized staff to secure the County’s \$356,510 Energy Efficiency & Conservation Block Grant formula allocation from the US Department of Energy (DOE). The recommended grant activities include: (1) providing energy efficiency and weatherization upgrades at no cost for buildings within the unincorporated area that operate as daycare facilities and (2) funding to retain technical consultants to conduct an inventory of the existing building stock and cost analysis on transitioning low or zero-carbon energy appliances. Sustainability staff will be submitting the grant application to the DOE on or before April 30, 2024.	Goal 1 – Clean and Efficient Built Environment
The draft All-Electric Roadmap for existing buildings, to convert existing homes and businesses to use low- or zero-carbon appliances, is being further revised to incorporate the suspension of enforcement of the County’s ordinance requiring all-electric construction in most new buildings	Goal 1 – Clean and Efficient Built Environment
The draft General Plan and Climate Action Plan were released for public review on October 17. The Environmental Impact Report (EIR) was released February 9. Public comment on the EIR closed on April 8. Public comment on the General Plan and Climate Action Plan was extended to April 22, 2024.	All
Staff are working on two grant applications to support development of an Urban Forest Management Plan. The first grant, due May 7, is for the Integrated Climate Adaptation and Resilience Program, Extreme Heat and Community Resilience Program . The second grant, due May 30, is for the CalFire Urban and Community Forestry Grants Program.	Goal 2 – Resilient Communities and Natural Infrastructure
The Bay Area Regional Energy Network (BayREN) on April 1 submitted a Climate Pollution Reduction Grant (CPRG) application. The proposal is focused on reducing GHG emissions through full electrification of single-family and small multi-family buildings in low-income and disadvantaged communities across the nine-county Bay Area region while addressing systemic barriers to scaling decarbonization.	All

ACTIVITY	2023-2024 INTERIM CAP GOAL
<p>The Metropolitan Transportation Commission also submitted a CPRG application. MTC’s application is focused on unfunded, near-term opportunities to transform transit stations into mobility hubs that will enable walking and biking connections to transit, shifting trips from single occupancy vehicles to sustainable and healthy ones, and turning 10 BART transit stations into community centers to make transit more inclusive and resilient. All funding will be dedicated to increasing access for low-income residents to use high-capacity transit service and emission free last-mile travel options.</p> <p>County staff contributed to the development of both proposals.</p>	
<p>Sustainability staff contracted with Sustainable Contra Costa using funding from the Bay Area Regional Energy Network to launch the CookSmart Program, a portable induction cooktop pilot program to increase community access to and familiarity with induction cooking technology. The program will provide portable induction cooktops and induction-compatible cookware to up to 100 households.</p>	Goal 1 – Clean and Efficient Built Environment
<p>The spring 2024 issue of the quarterly <i>Sustainability in Contra Costa County</i> newsletter was published on March 28. The newsletter included articles on \$19 million in grant funding recently awarded to the County to support clean transportation and green workforce goals, the new CookSmart Pilot Program, the Pinole Energy Enhancement Rebate Program, the G3 Champions Activity Guide, and more.</p>	Goal 7 - Leadership
<p>On April 24, the Sustainability Team hosted the first quarterly Contra Costa Sustainability Exchange of 2024 to the Antioch Dunes National Wildlife Refuge. Staff from US Fish and Wildlife Services provided a site tour and led an invasive species removal work day.</p>	Goal 7 - Leadership
<p>In the community:</p> <ul style="list-style-type: none"> • Jody London provided the El Cerrito Senior Club on April 1 with an overview of the County’s work on climate action. • Nicole Shimizu participated as a panelist in the Sustainable Leaders in Action and Contra Costa County Library’s first Climate Careers Chat of 2024 on April 2, sharing her career path as a sustainability professional working in local government. • Emily Groth attended the Rotary Club of Pinole on April 4 to provide information on the Pinole Energy Enhancement Rebate Program. • Jody London and Demian Hardman-Saldana presented to the Pinole City Council on April 16 on the County’s work on climate action and the Pinole Energy Enhancement Rebate Program. • Nicole Shimizu attended the April 16 meeting of the National Association of the Remodeling Industry (NARI) of Diablo Valley and provided information about BayREN residential programs. • Nicole Shimizu tabled at the City of Pinole’s Earth Walk on April 20 and provided Pinole residents with information about BayREN programs and the Pinole Energy Enhancement Rebate Program. 	Goal 7 - Leadership
<p>Climate Emergency Resolution:</p> <ul style="list-style-type: none"> • <i>Just Transition</i>. Staff issued a request for proposals for consultants who will provide assistance with community engagement, economic analyses, and 	Goal 7 - Leadership

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<p>detailed studies on other topics, in support of the Just Transition Economic Revitalization Plan. Staff are supporting the Green Empowerment Zone, which met on April 19.</p> <ul style="list-style-type: none"> • <i>Interdepartmental Climate Action Task Force</i>. The Interdepartmental Climate Action Task Force provided an update to the Board of Supervisors on March 19. The Green Government Group (G3) Champions meeting on April 10 featured a presentation on the Cleaner Contra Costa Challenge from Sustainable Contra Costa. The G3 Champions discussed how to encourage staff participation in the Challenge, as well as Bike to Work Day 2024 and Earth Day activities for their departments. • <i>All-Electric Building Ordinance</i>. In light of the recent federal court ruling in <i>California Rest. Ass'n v. City of Berkeley</i>², the Board of Supervisors on February 27, 2024, suspended the County's all-electric requirement for new construction (Section 74-4.010 (Amendments to the California Energy Code) of the County Ordinance Code). Staff provided an update to the Board's Sustainability Committee on March 18. Staff are identifying alternative strategies to achieve the greenhouse gas reductions the all-electric requirement provided. In addition to research, staff are meeting with other jurisdictions that are have taken similar steps. 	
<p>Sustainability staff continue to monitor state and federal grant opportunities and prepare to apply for projects that will support key climate goals around all-electric buildings, active transportation, sea level rise, climate resilience, and Just Transition.</p>	All
Department of Public Works	
<p>Public Works was awarded \$200,000 in Transportation Development Act, Article 3 funding to construct the following bicycle/pedestrian improvements: Olinda Road Crosswalk Improvements (El Sobrante), Miranda Avenue Safe Routes to School (Alamo), and Timber Point Crosswalk Improvements (Discovery Bay).</p>	Goal 5 – Clean Transportation Network
<p>Public Works will be submitting four grant applications to the State Active Transportation Program to fund the following bicycle and pedestrian projects: Verde Elementary Safe Routes to School, San Pablo Dam Road Diet, Appian Way Pedestrian Improvements, and North Richmond Bicycle and Pedestrian Network. Applications are due to the State by June 17, 2024.</p>	Goal 5 – Clean Transportation Network
<p>The Walnut Boulevard Bikeway Gap Closure project is currently being advertised and will be constructed this summer. This grant-funded project will widen the shoulder along an 860-foot segment of Walnut Boulevard between Marsh Creek Road and Vasco Road to provide Class II Bike lanes in the unincorporated Brentwood area. Additional improvements include grinding and overlaying the roadway pavement section, and installing a centerline rumble strip, striping, pavement markings, and signage.</p>	Goal 5 – Clean Transportation Network
<p>The Bixler Road and Regatta Drive Intersection Improvements project is currently being advertised and will be constructed this summer. This grant-funded project will construct advance warning signs, rectangular rapid-flashing beacons a</p>	Goal 5 – Clean Transportation Network

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pedestrian refuge island, additional pavement markings, truncated domes and a pedestrian path at a highly trafficked intersection in Discovery Bay.	
On November 28, 2023, the Board of Supervisors adopted Resolution 2023/622 to achieve zero annual transportation-related fatalities and severe injuries on unincorporated county roads. This action officially makes Contra Costa County a Vision Zero Agency.	Goal 5 – Clean Transportation Network
On March 31 the grant-funded North Richmond Watershed Connections Project was completed. Green infrastructure and over 30 trees were installed.	Goal 2 – Resilient Communities and Natural Infrastructure
The County is partnering with the Ambrose Park District and Resource Conservation District on a grant-funded GSI project at Ambrose Center Park in Bay Point.	Goal 2 – Resilient Communities and Natural Infrastructure
The Flood Control District kicked off its planning effort for a Walnut Creek Watershed Restoration Plan with its partners, the Walnut Creek Watershed Council (WCWC) and the Contra Costa Resource Conservation District (CCRC). Several outreach meetings via zoom received input from various agencies, tribes, organizations, and the public. The plan will identify potential restoration opportunities within the greater Walnut Creek Watershed to improve habitat, flood protection, and water quality in and near the creeks.	Goal 2 – Resilient Communities and Natural Infrastructure
County staff has prepared a grant proposal for a CEC funding opportunity focused on government fleet EV charging infrastructure. The proposal is requesting \$3.6M for 20 DC Fast Chargers and 158 Level 2 chargers across 14 county-owned or leased facilities. If awarded, this funding would expedite the County's transition to a zero emission vehicle fleet.	Goal 5 – Clean Transportation Network
County Energy Manager presented at Federal Government Energy Exchange Conference in Pittsburg PA, March 2024. The conference presentation track was entitled: <i>Scaling EV Purchasing and Charging Station Deployment</i> . County Energy Manager Brendan Havenar-Daughton provided an overview of how the County is strategically tackling fleet electrification goals, lining up federal and state funding and future-proofing EV charger design across the County. Networking with federal agencies, national labs, not-for-profit organizations and the private sector has strengthened the County's planning and implementation approach to scaling EV infrastructure across the County.	Goal 5 – Clean Transportation Network
Health	
<p>Contra Costa Health has used several funding sources to help clients with poorly-controlled asthma.</p> <ul style="list-style-type: none"> Through grants from the Sierra Health Foundation and the Bay Area Air Quality Management District (BAAQMD), Contra Costa Health 150 MediCal clients with in-home asthma trigger assessments and education and asthma trigger mitigation supplies. Also provided 15 of these clients with energy efficiency/weatherization measures. Funding from the Sierra Health Foundation grant also provided an additional 120 portable air purifiers and replacement filters to MediCal clients through the Youth Ambassador program and the Public Health Nursing Program. 	<p>Goal 1 – Clean and Efficient Built Environment Goal 6 - Climate Equity</p>

ACTIVITY	2023-2024 INTERIM CAP GOAL
<ul style="list-style-type: none"> • Through the BAAQMD Bay Area Healthy Homes Initiative grant, Contra Costa Health provided 70 MediCal clients with in-home asthma trigger assessments and education, and asthma trigger mitigation supplies. Some of these clients will be provided with energy efficiency and weatherization services through a separate contract between the BAAQMD and AEA, a contractor. • Through a grant from the U.S. EPA, Contra Costa Health grant provided pass-through funding to La Clinica and Lifelong to conduct 60 in-home asthma trigger assessments and education to their clients, and provide asthma trigger mitigation supplies. La Clinica and Lifelong also received training about energy efficiency and weatherization services available to their clients. They also had contracts with the BAAQMD to provide their clients with portable air purifiers. • A different BAAQMD grant allowed Contra Costa Health to leverage the grants described above to distribute portable air purifiers to MediCal clients with poorly controlled asthma or other medical vulnerabilities. This grant provided portable air purifiers and replacement filters to 150 MediCal clients through the Sierra Health Foundation grant, 70 MediCal clients through the Bay Area Healthy Homes Initiative grant, 30 Medical clients through the Public Health Nursing program, and 101 people through the Youth Ambassador program for a total of 351 portable air purifiers and replacement filters distributed through this grant. 	
<p>The Community Wellness program accomplished the following:</p> <ul style="list-style-type: none"> • Walk & Bike Leaders Project (WABL): <ul style="list-style-type: none"> ○ Conducted five (5) active transportation promotion tabling events at West County high schools (Richmond HS (2 events), Pinole Valley HS, Greenwood HS, and Contra Costa College Career Day). ○ Created and distributed active transportation travel maps for Richmond High School and Pinole Valley High School to promote walking and rolling to school. • Promoting National Bike Month (May 16) <ul style="list-style-type: none"> ○ As part of our Walk & Bike Leaders grant, Community Wellness program staff are promoting Bike to Wherever Day (May 16) at 7 West County High Schools by recruiting volunteers to host Bike Energizer Stations at the schools. So far three (3) schools have committed to hosting Energizer Stations. To support the volunteers, the Community Wellness Program is partnering with West Contra Costa Transportation Advisory Committee and 511 Contra Costa to provide small incentives for students who arrive to school by bike on May 16. ○ As part of a Office of Traffic Safety grant, the Community Wellness Program is collaborating with the Contra Costa Health Community Education and Information Office (CEI) to develop 	<p>Goal 5 – Clean Transportation Network</p>

ACTIVITY	2023-2024 INTERIM CAP GOAL
<ul style="list-style-type: none"> social media posts to promote Bike to Wherever Day within CCH. <ul style="list-style-type: none"> ○ As part of a Transportation Development Act grant, the Community Wellness Program is collaborating with CEI to develop CCH Screensavers promoting the County interdepartmental Bike to Wherever Day Challenge. • Helmet Fittings/Distribution and Community Resource Sharing <ul style="list-style-type: none"> ○ As part of the Transportation Development Act grant, the Community Wellness Program is working on developing "community safety outposts" for helmet distribution and helmet fittings. The program recently delivered 95 helmets, as well as bike locks, lights, and helmet safety fliers to the Muslim Community Center (MCC) for their refugee resettlement program in Contra Costa. The program also shared 11 helmets to Bike East Bay for students of a bike safety class at the Richmond Multicultural Institute. ○ On April 27, the Building Healthy Communities program will fit and distribute over 250 new helmets to residents at the Bay Point Bike Rodeo and Safety Fair. This event is hosted by the Contra Costa County Office of the Sherriff. • Walk Audit: <ul style="list-style-type: none"> ○ The Building Healthy Communities Program, in partnership with Public Works, applied for and was selected by UC Berkeley SafetREC for their Complete Streets Safety Assessment Program to assess Concord Ave. In March, staff from Building Healthy Communities, Public Works, City of Concord, and Bike East Bay, conducted a walk/bike audit of Concord Ave with a consultant from SafeTREC. Based on the observations and crash data, SafeTREC is developing a report with recommended active transportation infrastructure improvements. 	
<p>Green Business Program:</p> <ul style="list-style-type: none"> • The Contra Costa Green Business Program (CCGBP) filled a vacancy in January 2024 for a permanent Pollution Prevention Specialist. In addition to supporting Green Business Program administration, filling this vacancy increases in-person bandwidth for business assistance and outreach activities. The new Pollution Prevention Specialist is bi-lingual and can provide direct sustainability and pollution prevention technical support to Spanish-speaking businesses. • Contra Costa Green Business Program staff tabled at John Muir Birthday Earth Day on April 20, 2024. Staff are hosting a Bike to Work Day Energizer station on May 16, 2024 at the Concord BART station (7am-9am). • Contra Costa Green Business Program staff are pursuing grant and collaboration opportunities in partnership with the CA Green Business Network (CAGBN) for 1) providing technical assistance to childcare 	Goal 7 - Leadership

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facilities in integrating reusable dishware and low-toxicity janitorial products into their operations and 2) providing energy efficiency support for businesses within MCE territory.	
Office of Communications and Media	
The County’s Office of Communications and Media released a series of videos about the Envision Contra Costa project, including videos on the themes of environmental justice and sustainability. Members of the Sustainability Commission were included in some of the videos.	Goal 7 - Leadership
Ongoing	
Staff participated in professional learning opportunities regarding environmental justice, carbon sequestration, climate resilience, communication and facilitation strategies, race and equity, and related.	All
Staff participated in regional activities.	All

Attachments



CONTRA COSTA COUNTY

1025 ESCOBAR STREET
MARTINEZ, CA 94553

Staff Report

File #: 24-1244

Agenda Date: 4/29/2024

Agenda #: 8.

Advisory Board: SUSTAINABILITY COMMISSION

Subject: Report from Sustainability Commission Chair and Identify Topics for next Report to Ad Hoc Committee on Sustainability

Presenter: Luz Gomez, Chair

Contact: Commission Staff, Demian Hardman-Saldana, (925) 655-2816, demian.hardman@dcd.cccounty.us
<<mailto:demian.hardman@dcd.cccounty.us>>

Referral History and Update:

This is a standing item of the Commission. The Sustainability Commission Chair provides an update at each meeting to Commission members on the administration of the Commission, meetings of the Board of Supervisors Ad Hoc Committee on Sustainability, and other issues of interest to the Commission.

Recommendation(s)/Next Step(s):

RECEIVE Report from Sustainability Commission Chair and IDENTIFY TOPICS for next report to Ad Hoc Committee on Sustainability

Fiscal Impact (if any):

None.