



SONOMA COUNTY WASTE MANAGEMENT AGENCY

Meeting of the Board of Directors

November 16, 2023

REGULAR MEETING

Closed Session begins at 8:30 a.m.

Regular Session at 9:00 a.m. or immediately following Closed
Session

Estimated Ending Time 11:30 a.m.

City of Santa Rosa Council Chambers
100 Santa Rosa Avenue
Santa Rosa, CA

Meeting will also streamed via Zoom:

<https://sonomacounty.zoom.us/j/92248855470?pwd=OFFVNUliWVh5Wk5SSzVyWWdWbndjdz09>

Webinar ID: 922 4885 5470

US: +1 669 444 9171

Passcode: 157476

Meeting Agenda and Documents

ZERO WASTE SONOMA

Meeting of the Board of Directors

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Note: This packet is 329 pages total



Zero Waste Sonoma

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100 Santa Rosa Avenue
Santa Rosa, CA

PUBLIC COMMENT:

Public Comment may be submitted via recorded voice message or email. Public comment may also be made by “raising your hand” using the Zoom platform.

Voice recorded public comment: To submit public comment via recorded message, please call 707-565-4432 by 5:00 pm Wednesday, November 15th. State your name and the item number(s) on which you wish to speak. The recordings will be limited to two minutes. These comments may be played or read at the appropriate time during the board meeting.

Email public comment: To submit an emailed public comment to the Board please email leslie.lukacs@sonoma-county.org and provide your name, the number(s) on which you wish to speak, and your comment. These comments will be emailed to all Board members and can be provided anytime leading up to and throughout the meeting.

COMMITMENT TO CIVILITY: The ZWS Board of Directors has a commitment to civility. To assure civility in its public meetings, the public is encouraged to engage in respectful dialog that supports freedom of speech and values diversity of opinion. Board Members, staff, and members of the public are expected to establish and maintain a cordial and respectful atmosphere during discussions; and foster meaningful dialogue free of personal attacks. Members of the public must also adhere to the speaking time limit. Any commenters in violation of civility standards will be disconnected.



Agenda

Item

1. Call to Order
2. CONFERENCE WITH REAL PROPERTY NEGOTIATORS (Sec. 54956.8)
Property: 5885 Pruitt Avenue Windsor, CA 95492
Agency Negotiators: Leslie Lukacs, Ethan Walsh
Negotiating Parties: David M. Carroll, John M. Shea II
Under Negotiation: Price and terms of payment
3. Adjourn Closed Session / Call to Order Regular Meeting
4. Agenda Approval
5. Public Comments (items not on the agenda)

Consent (w/attachments)

- 6.1 Minutes of the October 19, 2023 Meeting
- 6.2 October, November, and December 2023 Outreach Calendar
- 6.3 Zero Waste Sonoma FY 2023-24 1st Quarter Statements
- 6.4 FY 23/24 Budget Adjustment For Food Recovery Organization Capacity Building Mini Grant Program

Regular Calendar

7. Green Resolution Recognizing Green Mary [Pagal]
8. FY 22/23 Work Plan Progress Report [Cushwa]
9. Food Recovery Grant Presentation [Tan]
10. Authorization to enter into Purchase and Sale Agreement to acquire approximately 3.5 acres located at 5871-5895 Pruitt Ave, Windsor, CA [Lukacs]
11. Boardmember Comments – NO ACTION
12. Executive Director Report – VERBAL REPORT
13. Staff Comments – NO ACTION
14. Next ZWS meeting: December 21, 2023
15. Adjourn



Consent Calendar: These matters include routine financial and administrative actions and are usually approved by a single majority vote. Any Boardmember may remove an item from the consent calendar.

Regular Calendar: These items include significant and administrative actions of special interest and are classified by program area. The regular calendar also includes "Set Matters," which are noticed hearings, work sessions and public hearings.

Public Comments: Pursuant to Rule 6, Rules of Governance of the Sonoma County Waste Management Agency/Zero Waste Sonoma, members of the public desiring to speak on items that are within the jurisdiction of the Agency shall have an opportunity at the beginning and during each regular meeting of the Agency. When recognized by the Chair, each person should give his/her name and address and limit comments to 3 minutes. Public comments will follow the staff report and subsequent Boardmember questions on that Agenda item and before Boardmembers propose a motion to vote on any item.

Disabled Accommodation: If you have a disability that requires the agenda materials to be in an alternative format or requires an interpreter or other person to assist you while attending this meeting, please contact the Zero Waste Sonoma Office at 2300 County Center Drive, Suite B100, Santa Rosa, (707) 565-3579, at least 72 hours prior to the meeting to ensure arrangements for accommodation by the Agency.

Noticing: This notice is posted 72 hours prior to the meeting on the internet at www.zerowastesonoma.gov



To: Zero Waste Sonoma Board Members
From: Leslie Lukacs, Executive Director
Subject: November 16, 2023 Board Meeting Agenda Notes

Consent Calendar

These items include routine financial, informational and administrative items and **staff recommends that they be approved en masse by a single vote.** Any Board member may remove an item from the consent calendar for further discussion or a separate vote by bringing it to the attention of the Chair.

- 6.1 Minutes of the October 19, 2023 Meeting
- 6.2 October, November and December 2023 Outreach Calendar
- 6.3 First Quarter Financials
- 6.4 Budget Adjustment for Food Recovery Organization Capacity Building Mini Grant Program

Regular Calendar

7. Green Resolution Recognizing Green Mary

Staff is honoring Green Mary with the second Green Resolution. The Green Resolution is a way for Zero Waste Sonoma to recognize entities that exemplify zero waste practices. **Staff recommends the Board adopt a Green Resolution recognizing Green Mary for their commitment to the community and the environment through the implementation of proactive waste management practices.**

8. 2022/23 Outreach Report

Staff will be presenting the fiscal Year 2022/23 Annual Work Plan Program Progress Report. **This agenda item is informational and no action is required by the Board at this time.**

9. Food Recovery Grant and Presentation

ZWS was awarded \$300,000 in May 2021 for a two-year grant period for food recovery. Staff requested and received a grant extension. The grant program concluded in Sep 2023. No action required. **This agenda item is informational and no action is required by the Board at this time.**

10. Authorization to enter into Purchase and Sale Agreement to acquire approximately 3.5 acres located at 5871-5895 Pruitt Ave, Windsor, CA

Zero Waste Sonoma entered into negotiations with the landowners (“Sellers”) to purchase the approximate 3.5-acre Property for a purchase price of \$3,000,000. The Property known as Sonoma County Assessor’s Parcel APN 059-271-082, consists of a parcel of approximately 3.5 acres, is improved with [5871 Pruitt Avenue, approximately 1,000 sq. ft.; 5873 Pruitt Avenue, approximately 4,287 sq. ft.; 5891 Pruitt Avenue, approximately 3,456 sq. ft.; and 5895 Pruitt Avenue, approximately 1,984 sq. ft.]].

Staff recommends that the Board approve:

- A) Authorize the Executive Director to execute a Purchase and Sale Agreement, subject to specified terms and conditions summarized below, to acquire approximately 3.5 acres located at 5871-5895 Pruitt Ave., Windsor (“Property”),**
- B) Authorize the Executive Director to take all actions and execute all agreements and instruments required and recommended to facilitate and complete the proposed acquisition, including agreements for due diligence, escrow instructions, and related transactional documents, in a form approved by Agency Counsel.**
- C) Determine that the proposed acquisition of the Property is not a project under the California Environmental Quality Act (“CEQA”).**
- D) Approve the budget adjustment to approve appropriations from the Contingency Reserve and Debt Servicing Reserve to procure the property.**



Minutes of the October 19, 2023 Meeting

Zero Waste Sonoma met on October 19, 2023, at the City of Santa Rosa Council Chambers, 100 Santa Rosa Ave., Santa Rosa, California.

Board Members Present:

City of Cloverdale –ABSENT	City of Santa Rosa – Renae Gundy
City of Cotati –ABSENT	City of Sebastopol – Sandra Maurer
City of Healdsburg –Larry Zimmer	City of Sonoma – Jack Ding
City of Petaluma – Patrick Carter	County of Sonoma – Trish Pisenti
City of Rohnert Park – Emily Sanborn	Town of Windsor – Debora Fudge

Staff Present:

Executive Director: Leslie Lukacs
Counsel: Ethan Walsh
Staff: Xinci Tan, Thora Collard, Kristen Sales, Katherine Cushwa, Courtney Scott, Sloane Pagal, Amber Johnson
Agency Clerk: Amber Johnson

1. Call to Order Closed Session 8:35 a.m.

CONFERENCE WITH REAL PROPERTY NEGOTIATORS (Sec. 54956.8)

Property: 5885 Pruitt Avenue Windsor, CA 95492
Agency Negotiators: Leslie Lukacs, Ethan Walsh
Negotiating Parties: David M. Carroll, John M. Shea II
Under Negotiation: Price and terms of payment

2. Adjourn Closed Session at 9:27 a.m.

3. Call to Order Regular Meeting

Regular session was called to order at 9:31 a.m.
Introductions

4. Agenda Approval

5. Public Comments (items not on the agenda)

6. Consent (w/attachments)

6.1 Minutes of the August 17, 2023 Meeting
6.2 August, September, October, and November 2023 Outreach Calendar
6.3 Zero Waste Sonoma FY 2020-21 and FY 2021-22 Audit of Financial Statements
6.4 Second Amendment to the Agreement for Compostable Materials Transport Services with Recology Sonoma Marin

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6.5 Third Amendment to the Agreement for Short-Term Organic Materials Processing Services with Cold Creek Compost, Inc.

6.6 Resolution Authorizing the Agency’s submittal of a Regional Application for the SB 1383 Local Assistance Grant Program

Board Comment:

None

Public Comments:

None

Motion: For approval of the consent calendar.

First: City of Petaluma – Patrick Carter

Second: County of Sonoma – Trish Pisenti

Vote Count:

City of Cloverdale	ABSENT	City of Santa Rosa	AYE
City of Cotati	ABSENT	City of Sebastopol	AYE
City of Healdsburg	AYE	City of Sonoma	AYE
City of Petaluma	AYE	County of Sonoma	AYE
City of Rohnert Park	AYE	Town of Windsor	AYE

AYES -8- NOES -0- ABSENT -2- ABSTAIN -0-

Motion passed.

Regular Calendar

7. Notice of Intent to Acquire approximately 3.5 acres located at 5885 Pruitt Ave, Windsor, CA

Board Comments/Action Items:

- Happy to see work being done on this, ready to move forward.

Public Comments:

None

Motion: To approve the notice of Intent to acquire approximately 3.5 acres located at 5885 Pruitt Ave, Windsor, CA

First: City of Rohnert Park – Emily Sanborn

Second: City of Sonoma – Jack Ding

Vote Count:

City of Cloverdale	ABESNT	City of Santa Rosa	AYE
City of Cotati	ABSENT	City of Sebastopol	AYE
City of Healdsburg	AYE	City of Sonoma	AYE

City of Petaluma	AYE	County of Sonoma	AYE
City of Rohnert Park	AYE	Town of Windsor	AYE

AYES -8- NOES -0- ABSENT -2- ABSTAIN -0-
Motion passed.

8. Annual Presentation of Waste Activities by Republic Services

Board Comments/Action Items:

- Were diversion targets met under the MOA?
- What caused the diversion goal to fall short?
- Why did greenhouse gases jump up in 2022?
- Is equipment being replaced?
- In the 2023 reporting we should see a reduction in greenhouse gases and increase in diversion?
- Will we be getting this report next year?
- What is the term beneficial reuse?
- How will the de-packaging system work?

Public Comments:

None

9. Regional Solid Waste Planning - Potential Expansion of the Sonoma County Central Disposal Site

Board Comments/Action Items:

- Can any other information be provided on the fees?
- Does the county own the land and is it away from the neighbors?
- Regarding a natural disaster, can you provide more detail relating to prevention and management?

Public Comments:

Michael Siminitus – Has the potential of increase diversion to extend landfill life and associated costs of improving diversion been calculated? It seems there is potential to divert half of the inbound material if all materials are sorted in a dirty MRF, for example doubling the life of the landfill without expansion. Has there been a cost estimate for construction operation of a dirty MRF VS expansion of the landfill?

Phoebe Schenker – Is part of the negotiation of the MOA going to include the facilities and infrastructure onsite for reuse and increase diversion as part of this planning process?

10. Consideration of an Agreement with Cascadia Consulting Group, Inc. to Conduct Technical Assistance for Compliance with SB 1383 Requirements and Disposable Food Ware Ordinances in Sonoma County

Board Comments/Action Items:

- Are there metrics we are looking to hit for the number of businesses were trying to reach?

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- Will time be spent equitably between all jurisdictions?
- How are you going to make sure you are reaching underserved communities?
- Thrilled to see the focus on equity.
- Is there a potential to extend this agreement?

Public Comments:

None

Motion: To approve the execution of an Agreement with Cascadia Consulting Group, Inc. to Conduct Technical Assistance for Compliance with SB 1383 Requirements and Disposable Food Ware Ordinances in Sonoma County

First: City of Petaluma – Patrick Carter

Second: Town of Windsor – Debora Fudge

Vote Count:

City of Cloverdale	ABSENT	City of Santa Rosa	AYE
City of Cotati	ABSENT	City of Sebastopol	AYE
City of Healdsburg	AYE	City of Sonoma	AYE
City of Petaluma	AYE	County of Sonoma	AYE
City of Rohnert Park	AYE	Town of Windsor	AYE

AYES -8- NOES -0- ABSENT -2- ABSTAIN -0-

Motion passed.

11. Closed Loop Partners Reusable Cup Pilots in Petaluma

Board Comments/Action Items:

- Where is the funding for this project coming from?
- Have you considered a project that lasts longer than 3 months?
- What types of cups will be offered? Cold and hot cups?
- Will there be a deposit for the cups?
- How will the return bin pickups be executed?
- Where will the cups be processed?
- How far away are we from piloting this in the school system?
- What are the next steps if the pilot is successful?
- Petaluma is interested in keeping this going, staff doesn't see this as a one and done program. Looking forward to seeing how the program goes and how to sustain it beyond the pilot. Very excited about getting this program kicked off.

Public Comments:

Marie Kneemeyer – Excited to see this program come to Petaluma. It would be very helpful to communicate what the next possible steps could be to keep this program going if this pilot is successful. If the program is successful, consider dine-in ware items. Will there be investment in local washing infrastructure for long term reuse programs? How are the partners selected? How do the reverse logistics work?

Michael Siminitus – Will the cups be offered at any events? Is the RFP still open for local washing infrastructures?

12. Boardmember Comments – NO ACTION

13. Executive Director Report – VERBAL REPORT

14. Staff Comments – NO ACTION

15. Next ZWS meeting: November 16, 2023

16. Adjourn: 11:11 am

Submitted by: Amber Johnson

DRAFT



Agenda Item #: 6.2
 Agenda Date: 11/16/2023

ITEM: October, November, December 2023 Outreach Calendar

October 2023 OUTREACH

Start date	End date	Start time	End time	Event
10/1/23	10/1/23	1:00 PM	4:00 PM	Dia de los Muertos Health Fair (Petaluma)
10/2/23	10/2/23	8:00 AM	11:00 AM	Petalma DMV
10/3/23	10/3/23	4:00 PM	8:00 PM	HHW Collection Event (Kenwood)
10/4/23	10/4/23	8:00 AM	11:00 AM	Santa Rosa DMV
10/6/23	10/8/23	9:00 AM	5:00 PM	E-Waste Collection Event (Windsor)
10/7/23	10/7/23	8:30 AM	1:00 PM	Santa Rosa Farmers Market (Santa Rosa)
10/7/23	10/7/23	9:00 AM	5:00 PM	Mattress Recycling Event (Windsor)
10/7/23	10/7/23	8:00 AM	4:00 PM	Rip City Riders Chili Cookoff and Car Show (Petaluma)
10/7/23	10/7/23	8:00 AM	4:00 PM	Rip City Riders Chili Cookoff and Car Show (Petaluma)
10/10/23	10/10/23	4:00 PM	8:00 PM	HHW Collection Event (Cloverdale)
10/13/23	10/15/23	9:00 AM	5:00 PM	E-Waste Recycling Event (Cloverdale)
10/13/23	10/13/23	9:00 AM	12:30 PM	Sonoma Vallley Certified Farmers Market (Sonoma)
10/14/23	10/14/23	2:00 PM	5:00 PM	Petaluma Farmers Market (Petaluma)
10/14/23	10/14/23	9:00 AM	5:00 PM	Mattress Recycling Event (Cloverdale)
10/14/23	10/14/23	9:00 AM	12:00 PM	Compost Giveaway (Sebastopol)
10/15/23	10/15/23	12:30 PM	3:30 PM	Binational Health Fair St. Peters Church (Cloverdale)
10/17/23	10/17/23	4:00 PM	8:00 PM	HHW Collection Event (Larkfield)
10/21/23	10/21/23	10:00 AM	4:00 PM	Cruisin' North Car Show For A Cause To Benefit Alzheimer's (Petaluma)
10/21/23	10/21/23	12:30 PM	3:30 PM	Binational Health Fair in Sonoma (Sonoma)
10/23/23	10/23/23	8:00 AM	11:00 AM	Santa Rosa DMV
10/24/23	10/24/23	4:00 PM	8:00 PM	HHW Collection Event (Rohnert Park)
10/25/23	10/25/23	8:00 AM	11:00 AM	Petaluma DMV
10/28/23	10/28/23	1:00 PM	4:00 PM	Community Health and Engagement Fair Dia de los Muertos (Guerneville)
10/31/23	10/31/23	4:00 PM	8:00 PM	HHW Collection Event (Guerneville)

November 2023 OUTREACH

Start date	End date	Start time	End time	Event
11/3/23	11/3/23	9:00 AM	12:30 PM	Sonoma Vallley Certified Farmers Market (Sonoma)
11/5/23	11/5/23	11:00 AM	3:00 PM	Binational Health Fair Mary Agatha Church (Windsor)
11/7/23	11/7/23	4:00 PM	8:00 PM	HHW Collection Event (Santa Rosa - West)
11/10/23	11/12/23	9:00 AM	5:00 PM	E-Waste Recycling Event (Santa Rosa)
11/11/23	11/11/23	2:00 PM	5:00 PM	Petaluma Farmers Market (Petaluma)
11/12/23	11/12/2.3	11:30 AM	2:30 PM	Binational Health Fair at St. Rose Church (Santa Rosa)
11/13/23	11/13/23	8:00 AM	11:00 AM	Santa Rosa DMV
11/14/23	11/14/23	4:00 PM	8:00 PM	HHW Collection Event (Sonoma)
11/15/23	11/15/23	8:00 AM	11:00 AM	Petaluma DMV
11/28/23	11/28/23	4:00 PM	8:00 PM	HHW Collection Event (Windsor)

December 2023 OUTREACH

Start date	End date	Start time	End time	Event
12/5/23	12/5/23	4:00 PM	8:00 PM	HHW Collection Event (Oakmont)
12/8/23	12/10/23	9:00 AM	5:00 PM	E-Waste Recycling Event (Petaluma)
12/12/23	12/12/23	4:00 PM	8:00 PM	HHW Collection Event (Petaluma)



Agenda Item #: **6.3**
Cost Center: **All**
Staff Contact: **Collard**
Agenda Date: **11/16/2023**
Approved by: **LL**

ITEM: **Approval of FY 2023-24 First Quarter Financial Report**

I. RECOMMENDED ACTION / ALTERNATIVES TO RECOMMENDATION

Staff recommends approving the FY 2023-24 First Quarter Financial Report on the Consent Calendar.

II. BACKGROUND

In accordance with the requirement in the joint powers agreement the Sonoma County Waste Management Agency, also known as Zero Waste Sonoma, (Agency) staff make quarterly reports to the Board of Directors of Agency operations and of all receipts to and disbursements from the ZWS, this report covers the First Quarter of FY 23-24 (July 1, 2023 - September 30, 2023).

The FY 2023-24 First Quarter Financial Report contains the actual amounts spent or received to date at the end of the quarter. It is important to not draw many conclusions in the year-to-date figures, as very little of the fiscal year has passed. Second and Third Quarter Reports provide a better picture of the Agency's financial position.

III. DISCUSSION

Relatively few revenues have been realized in FY 2023/24 First Quarter. With regard to expenditures, all accounts are currently projected to stay within budget limits.

IV. RECOMMENDED ACTION / ALTERNATIVES TO RECOMMENDATION

Staff recommends approving the FY 2023-24 First Quarter Financial Report on the Consent Calendar.

V. ATTACHMENTS

FY 2023-24 First Quarter Financial Report

All Departments

Department / Account	Description	Original Budget	Final Budget	Year to Date	Remaining Balance	% Remaining
All Revenues						
42358	State Other Funding	2,352,060.00	2,352,060.00	0.00	2,352,060.00	100.00%
42601	County of Sonoma	10,910,850.00	10,910,850.00	0.00	10,910,850.00	100.00%
44002	Interest on Pooled Cash	90,106.00	90,106.00	0.00	90,106.00	100.00%
46029	Donations/Contributions	293,674.00	293,674.00	1,385.48	292,288.52	99.53%
47101	Transfers In - within a Fund	1,285,700.00	1,285,700.00	0.00	1,285,700.00	100.00%
All Revenues		14,932,390.00	14,932,390.00	1,385.48	14,931,004.52	99.99%

All Expense/Expenditure Accts

51041	Insurance - Liability	13,500.00	13,500.00	14,741.95	(1,241.95)	-9.20%
51071	Maintenance - Bldg & Improve	15,000.00	15,000.00	0.00	15,000.00	100.00%
51201	Administration Services	1,378,448.00	1,378,448.00	14,316.15	1,364,131.85	98.96%
51205	Advertising/Marketing Svc	19,500.00	19,500.00	717.14	18,782.86	96.32%
51206	Accounting/Auditing Services	19,000.00	19,000.00	22,120.00	(3,120.00)	-16.42%
51207	Client Accounting Services	30,000.00	30,000.00	0.00	30,000.00	100.00%
51212	Outside Counsel - Legal Advice	54,000.00	54,000.00	6,568.21	47,431.79	87.84%
51225	Training Services	1,600.00	1,600.00	0.00	1,600.00	100.00%
51229	Hazardous Waste Disposal Svc	30,000.00	30,000.00	518.94	29,481.06	98.27%
51241	Outside Printing and Binding	3,500.00	3,500.00	0.00	3,500.00	100.00%
51249	Other Professional Services	2,300,475.00	2,300,475.00	145,837.53	2,154,637.47	93.66%
51401	Rents and Leases - Equipment	3,000.00	3,000.00	727.21	2,272.79	75.76%
51421	Rents and Leases - Bldg/Land	21,842.00	21,842.00	1,817.00	20,025.00	91.68%
51507	Special Departmental Expense	174,300.00	174,300.00	5,703.21	168,596.79	96.73%
51801	Other Services	0.00	0.00	2,829.00	(2,829.00)	0.00%
51803	Other Contract Services	9,133,035.00	9,133,035.00	1,162,864.71	7,970,170.29	87.27%
51805	Cnty Spor'shp of events/orgs	5,000.00	5,000.00	5,500.00	(500.00)	-10.00%
51901	Telecommunication Data Lines	16,800.00	16,800.00	1,283.40	15,516.60	92.36%
51902	Telecommunication Usage	1,367.00	1,367.00	209.19	1,157.81	84.70%
51904	ISD - Baseline Services	40,500.00	40,500.00	5,829.24	34,670.76	85.61%
51909	Telecommunication Wireless Svc	7,740.00	7,740.00	1,370.95	6,369.05	82.29%
51911	Mail Services	850.00	850.00	1.50	848.50	99.82%
51916	County Services Chgs	54,911.00	54,911.00	0.00	54,911.00	100.00%
51922	County Car Expense	1,500.00	1,500.00	2,344.21	(844.21)	-56.28%
51923	Unclaimable county car exp	50.00	50.00	12.22	37.78	75.56%
52091	Memberships/Certifications	52,359.00	52,359.00	36,535.21	15,823.79	30.22%
52111	Office Supplies	21,720.00	21,720.00	3,312.08	18,407.92	84.75%
52114	Freight/Postage	15,000.00	15,000.00	0.00	15,000.00	100.00%
52115	Books/Media/Subscriptions	925.00	925.00	1,134.00	(209.00)	-22.59%
52118	Printing and Binding Supplies	6,400.00	6,400.00	0.00	6,400.00	100.00%
52162	Special Department Expense	209,440.00	209,440.00	4,164.94	205,275.06	98.01%
52163	Professional Development	41,020.00	41,020.00	6,379.95	34,640.05	84.45%
52191	Utilities Expense	6,132.00	6,132.00	389.84	5,742.16	93.64%
57011	Transfers Out - within a Fund	1,285,700.00	1,285,700.00	0.00	1,285,700.00	100.00%
All Expense/Expenditure Accts		14,964,614.00	14,964,614.00	1,447,227.78	13,517,386.22	90.33%
All Expense/Expenditure Accts		14,964,614.00	14,964,614.00	1,447,227.78	13,517,386.22	
All Revenues		14,932,390.00	14,932,390.00	1,385.48	14,931,004.52	
Net Cost		32,224.00	32,224.00	1,445,842.30	(1,413,618.30)	

66110300 Zero Waste - Organics Reserve

Department / Account	Description	Budget Original	Budget Final	Year to Date	Remaining Balance	% Remaining
All Revenues						
44002	Interest on Pooled Cash	29,289.00	29,289.00	0.00	29,289.00	100.00%
All Revenues		29,289.00	29,289.00	0.00	29,289.00	100.00%

All Expense/Expenditure Accts

51201	Administration Services	29,289.00	29,289.00	0.00	29,289.00	100.00%
51206	Accounting/Auditing Services	1,000.00	1,000.00	1,000.00	0.00	0.00%
51212	Outside Counsel - Legal Advice	10,000.00	10,000.00	0.00	10,000.00	100.00%
51916	County Services Chgs	379.00	379.00	0.00	379.00	100.00%
52111	Office Supplies	1,000.00	1,000.00	0.00	1,000.00	100.00%
57011	Transfers Out - within a Fund	540,700.00	540,700.00	0.00	540,700.00	100.00%
All Expense/Expenditure Accts		582,368.00	582,368.00	1,000.00	581,368.00	99.83%

All Expense/Expenditure Accts		582,368.00	582,368.00	1,000.00	581,368.00	
All Revenues		29,289.00	29,289.00	0.00	29,289.00	
Net Cost		553,079.00	553,079.00	1,000.00	552,079.00	

66110900 ZW - Contingency Fund

Department / Account	Description	Budget Original	Budget Final	Year to Date	Remaining Balance	% Remaining
All Revenues						
44002	Interest on Pooled Cash	41,565.00	41,565.00	0.00	41,565.00	100.00%
All Revenues		41,565.00	41,565.00	0.00	41,565.00	100.00%

All Expense/Expenditure Accts

51201	Administration Services	106,051.00	106,051.00	14,316.15	91,734.85	86.50%
51206	Accounting/Auditing Services	1,000.00	1,000.00	1,000.00	0.00	0.00%
51212	Outside Counsel - Legal Advice	20,000.00	20,000.00	6,568.21	13,431.79	67.16%
51803	Other Contract Services	125,000.00	125,000.00	13,867.50	111,132.50	88.91%
51916	County Services Chgs	217.00	217.00	0.00	217.00	100.00%
52111	Office Supplies	1,000.00	1,000.00	0.00	1,000.00	100.00%
52162	Special Department Expense	40,000.00	40,000.00	2,470.12	37,529.88	93.82%
All Expense/Expenditure Accts		293,268.00	293,268.00	38,221.98	255,046.02	86.97%

All Expense/Expenditure Accts		293,268.00	293,268.00	38,221.98	255,046.02	
All Revenues		41,565.00	41,565.00	0.00	41,565.00	
Net Cost		251,703.00	251,703.00	38,221.98	213,481.02	

66110400 ZW - Household Waste

Department / Account	Description	Budget Original	Budget Final	Year to Date	Remaining Balance	% Remaining
All Revenues						
42358	State Other Funding	186,560.00	186,560.00	0.00	186,560.00	100.00%
42601	County of Sonoma	2,644,747.00	2,644,747.00	0.00	2,644,747.00	100.00%
44002	Interest on Pooled Cash	9,414.00	9,414.00	0.00	9,414.00	100.00%
46029	Donations/Contributions	221,980.00	221,980.00	1,385.48	220,594.52	99.38%
All Revenues		3,062,701.00	3,062,701.00	1,385.48	3,061,315.52	99.95%

All Expense/Expenditure Accts

51041	Insurance - Liability	2,025.00	2,025.00	2,211.29	(186.29)	-9.20%
51071	Maintenance - Bldg & Improve	15,000.00	15,000.00	0.00	15,000.00	100.00%
51201	Administration Services	280,866.00	280,866.00	0.00	280,866.00	100.00%
51205	Advertising/Marketing Svc	17,000.00	17,000.00	717.14	16,282.86	95.78%
51206	Accounting/Auditing Services	2,250.00	2,250.00	2,718.00	(468.00)	-20.80%
51207	Client Accounting Services	4,500.00	4,500.00	0.00	4,500.00	100.00%
51212	Outside Counsel - Legal Advice	4,000.00	4,000.00	0.00	4,000.00	100.00%
51225	Training Services	1,600.00	1,600.00	0.00	1,600.00	100.00%
51229	Hazardous Waste Disposal Svc	30,000.00	30,000.00	518.94	29,481.06	98.27%
51249	Other Professional Services	176,548.00	176,548.00	34,924.69	141,623.31	80.22%
51401	Rents and Leases - Equipment	450.00	450.00	0.00	450.00	100.00%
51421	Rents and Leases - Bldg/Land	14,613.00	14,613.00	1,135.00	13,478.00	92.23%
51507	Special Departmental Expense	174,300.00	174,300.00	5,703.21	168,596.79	96.73%
51801	Other Services	0.00	0.00	1,760.00	(1,760.00)	0.00%
51803	Other Contract Services	1,535,940.00	1,535,940.00	56,902.28	1,479,037.72	96.30%
51901	Telecommunication Data Lines	3,150.00	3,150.00	171.12	2,978.88	94.57%
51902	Telecommunication Usage	156.00	156.00	2.23	153.77	98.57%
51904	ISD - Baseline Services	8,640.00	8,640.00	906.28	7,733.72	89.51%
51909	Telecommunication Wireless Svc	2,040.00	2,040.00	320.48	1,719.52	84.29%
51911	Mail Services	100.00	100.00	0.00	100.00	100.00%
51916	County Services Chgs	11,187.00	11,187.00	0.00	11,187.00	100.00%
51922	County Car Expense	225.00	225.00	0.00	225.00	100.00%
52091	Memberships/Certifications	6,333.00	6,333.00	7,125.00	(792.00)	-12.51%
52111	Office Supplies	2,500.00	2,500.00	612.65	1,887.35	75.49%
52115	Books/Media/Subscriptions	139.00	139.00	0.00	139.00	100.00%
52162	Special Department Expense	216.00	216.00	0.00	216.00	100.00%
52163	Professional Development	10,900.00	10,900.00	2,269.62	8,630.38	79.18%
52191	Utilities Expense	6,132.00	6,132.00	389.84	5,742.16	93.64%
57011	Transfers Out - within a Fund	745,000.00	745,000.00	0.00	745,000.00	100.00%
All Expense/Expenditure Accts		3,055,810.00	3,055,810.00	118,387.77	2,937,422.23	96.13%

All Expense/Expenditure Accts		3,055,810.00	3,055,810.00	118,387.77	2,937,422.23	
All Revenues		3,062,701.00	3,062,701.00	1,385.48	3,061,315.52	
Net Cost		(6,891.00)	(6,891.00)	117,002.29	(123,893.29)	

66111000 Education & Outreach

Department / Account	Description	Budget Original	Budget Final	Year to Date	Remaining Balance	% Remaining
All Revenues						
42358	State Other Funding	1,347,000.00	1,347,000.00	0.00	1,347,000.00	100.00%
42601	County of Sonoma	869,867.00	869,867.00	0.00	869,867.00	100.00%
46029	Donations/Contributions	71,694.00	71,694.00	0.00	71,694.00	100.00%
All Revenues		2,288,561.00	2,288,561.00	0.00	2,288,561.00	100.00%

All Expense/Expenditure Accts

51041	Insurance - Liability	2,295.00	2,295.00	2,506.13	(211.13)	-9.20%
51201	Administration Services	560,538.00	560,538.00	0.00	560,538.00	100.00%
51205	Advertising/Marketing Svc	2,500.00	2,500.00	0.00	2,500.00	100.00%
51206	Accounting/Auditing Services	2,550.00	2,550.00	3,080.00	(530.00)	-20.78%
51207	Client Accounting Services	5,100.00	5,100.00	0.00	5,100.00	100.00%
51212	Outside Counsel - Legal Advice	15,000.00	15,000.00	0.00	15,000.00	100.00%
51241	Outside Printing and Binding	3,500.00	3,500.00	0.00	3,500.00	100.00%
51249	Other Professional Services	1,325,427.00	1,325,427.00	110,912.84	1,214,514.16	91.63%
51401	Rents and Leases - Equipment	510.00	510.00	727.21	(217.21)	-42.59%
51421	Rents and Leases - Bldg/Land	4,446.00	4,446.00	682.00	3,764.00	84.66%
51801	Other Services	0.00	0.00	1,065.00	(1,065.00)	0.00%
51803	Other Contract Services	40,000.00	40,000.00	13,028.10	26,971.90	67.43%
51805	Cnty Spor'shp of events/orgs	5,000.00	5,000.00	5,500.00	(500.00)	-10.00%
51901	Telecommunication Data Lines	11,550.00	11,550.00	941.16	10,608.84	91.85%
51902	Telecommunication Usage	1,185.00	1,185.00	205.28	979.72	82.68%
51904	ISD - Baseline Services	11,772.00	11,772.00	3,007.60	8,764.40	74.45%
51909	Telecommunication Wireless Svc	5,700.00	5,700.00	957.40	4,742.60	83.20%
51911	Mail Services	500.00	500.00	1.50	498.50	99.70%
51916	County Services Chgs	11,695.00	11,695.00	0.00	11,695.00	100.00%
51922	County Car Expense	255.00	255.00	2,344.21	(2,089.21)	-819.30%
51923	Unclaimable county car exp	50.00	50.00	12.22	37.78	75.56%
52091	Memberships/Certifications	33,516.00	33,516.00	16,405.00	17,111.00	51.05%
52111	Office Supplies	15,220.00	15,220.00	2,699.43	12,520.57	82.26%
52114	Freight/Postage	15,000.00	15,000.00	0.00	15,000.00	100.00%
52115	Books/Media/Subscriptions	157.00	157.00	1,134.00	(977.00)	-622.29%
52118	Printing and Binding Supplies	6,400.00	6,400.00	0.00	6,400.00	100.00%
52162	Special Department Expense	168,245.00	168,245.00	1,694.82	166,550.18	98.99%
52163	Professional Development	27,620.00	27,620.00	4,076.33	23,543.67	85.24%
All Expense/Expenditure Accts		2,275,731.00	2,275,731.00	170,980.23	2,104,750.77	92.49%

All Expense/Expenditure Accts		2,275,731.00	2,275,731.00	170,980.23	2,104,750.77	
All Revenues		2,288,561.00	2,288,561.00	0.00	2,288,561.00	
Net Cost		(12,830.00)	(12,830.00)	170,980.23	(183,810.23)	

66111100 Organics

Department / Account	Description	Budget Original	Budget Final	Year to Date	Remaining Balance	% Remaining
All Revenues						
42358	State Other Funding	818,500.00	818,500.00	0.00	818,500.00	100.00%
42601	County of Sonoma	7,396,236.00	7,396,236.00	0.00	7,396,236.00	100.00%
47101	Transfers In - within a Fund	540,700.00	540,700.00	0.00	540,700.00	100.00%
All Revenues		8,755,436.00	8,755,436.00	0.00	8,755,436.00	100.00%

All Expense/Expenditure Accts

51041	Insurance - Liability	9,180.00	9,180.00	10,024.53	(844.53)	-9.20%
51201	Administration Services	401,704.00	401,704.00	0.00	401,704.00	100.00%
51206	Accounting/Auditing Services	10,200.00	10,200.00	12,322.00	(2,122.00)	-20.80%
51207	Client Accounting Services	20,400.00	20,400.00	0.00	20,400.00	100.00%
51212	Outside Counsel - Legal Advice	5,000.00	5,000.00	0.00	5,000.00	100.00%
51249	Other Professional Services	798,500.00	798,500.00	0.00	798,500.00	100.00%
51401	Rents and Leases - Equipment	2,040.00	2,040.00	0.00	2,040.00	100.00%
51421	Rents and Leases - Bldg/Land	2,783.00	2,783.00	0.00	2,783.00	100.00%
51801	Other Services	0.00	0.00	4.00	(4.00)	0.00%
51803	Other Contract Services	7,432,095.00	7,432,095.00	1,079,066.83	6,353,028.17	85.48%
51901	Telecommunication Data Lines	2,100.00	2,100.00	171.12	1,928.88	91.85%
51902	Telecommunication Usage	26.00	26.00	1.68	24.32	93.54%
51904	ISD - Baseline Services	20,088.00	20,088.00	1,915.36	18,172.64	90.47%
51909	Telecommunication Wireless Svc	0.00	0.00	93.07	(93.07)	0.00%
51911	Mail Services	250.00	250.00	0.00	250.00	100.00%
51916	County Services Chgs	31,433.00	31,433.00	0.00	31,433.00	100.00%
51922	County Car Expense	1,020.00	1,020.00	0.00	1,020.00	100.00%
52091	Memberships/Certifications	12,510.00	12,510.00	13,005.21	(495.21)	-3.96%
52111	Office Supplies	2,000.00	2,000.00	0.00	2,000.00	100.00%
52115	Books/Media/Subscriptions	629.00	629.00	0.00	629.00	100.00%
52162	Special Department Expense	979.00	979.00	0.00	979.00	100.00%
52163	Professional Development	2,500.00	2,500.00	34.00	2,466.00	98.64%
All Expense/Expenditure Accts		8,755,437.00	8,755,437.00	1,116,637.80	7,638,799.20	87.25%

All Expense/Expenditure Accts		8,755,437.00	8,755,437.00	1,116,637.80	7,638,799.20	
All Revenues		8,755,436.00	8,755,436.00	0.00	8,755,436.00	
Net Cost		1.00	1.00	1,116,637.80	(1,116,636.80)	

66111200 Unfunded Pension Liability F

Department / Account	Description	Budget Original	Budget Final	Year to Date	Remaining Balance	% Remaining
All Revenues						
44002	Interest on Pooled Cash	9,838.00	9,838.00	0.00	9,838.00	100.00%
All Revenues		9,838.00	9,838.00	0.00	9,838.00	100.00%

All Expense/Expenditure Accts

51206	Accounting/Auditing Services	1,000.00	1,000.00	1,000.00	0.00	0.00%
All Expense/Expenditure Accts		1,000.00	1,000.00	1,000.00	0.00	0.00%

All Expense/Expenditure Accts		1,000.00	1,000.00	1,000.00	0.00	
All Revenues		9,838.00	9,838.00	0.00	9,838.00	
Net Cost		(8,838.00)	(8,838.00)	1,000.00	(9,838.00)	

66111300 Debt Servicing Reserve

Department / Account	Description	Budget Original	Budget Final	Year to Date	Remaining Balance	% Remaining
All Revenues						
47101	Transfers In - within a Fund	745,000.00	745,000.00	0.00	745,000.00	100.00%
All Revenues		745,000.00	745,000.00	0.00	745,000.00	100.00%

All Expense/Expenditure Accts

51206	Accounting/Auditing Services	1,000.00	1,000.00	1,000.00	0.00	0.00%
All Expense/Expenditure Accts		1,000.00	1,000.00	1,000.00	0.00	0.00%

All Expense/Expenditure Accts		1,000.00	1,000.00	1,000.00	0.00	
All Revenues		745,000.00	745,000.00	0.00	745,000.00	
Net Cost		(744,000.00)	(744,000.00)	1,000.00	(745,000.00)	

1st Quarter Fund Balances FY 23/24

Fund		Beginning Balance	9/30/2023	Projected Fund Balance	Fund Balance Goal
Organics Reserve	78103	2,241,189	2,240,189	1,904,814	2,188,859
HHW	78104	979,283	862,552	634,462	577,703
Contingency Reserve	78109	2,946,771	2,908,549	2,519,398	1,269,724
Education & Outreach	78110	244,761	114,367	254,865	227,573
Organics	78111	2,333,558	1,218,003	1,316,717	2,188,859
Unfunded Pension Liability Rsv	78112	661,679	660,679	664,697	650,000
Debt Servicing Reserve	78113	1,477,643	1,476,643	2,219,959	
Total			9,480,982	9,514,912	



Agenda Item #: 6.4
Staff Contact: Sales
Agenda Date: 11/16/23
Approved By: LL

ITEM: FY 23/24 Budget Adjustment for Food Recovery Organization Capacity Building Mini Grant Program

I. RECOMMENDED ACTION

Staff requests authorization for a one-time mini grant program for Food Recovery Organizations to purchase capacity building infrastructure, in compliance with SB 1383. As this item is an amendment to the budget, it requires a super-majority (8/10) vote for approval.

II. BACKGROUND

During the November 2021 regular meeting, the ZWS board approved staff's request to contract with Abound Food Care (Abound) to conduct a countywide food recovery capacity study. At the August 2022 regular meeting, Abound presented the final report. Abound's report highlighted the need for Food Recovery Services (FRS) / Food Recovery Organizations (FROs) to build additional capacity to handle Tier 2 donations of hot, prepared food items. One of Abound's recommendations was to provide funding for FRS/FROs to optimize their current operations and expand their capacity.

Most of the FRS/FROs surveyed have limited storage for hot food, and expressed capacity gaps when it comes to their ability to accept and distribution prepared foods. This indicates that FRS/FROs would like to do more, but they will require significant assistance through additional infrastructure and logistics to help achieve this goal. Specifically, FRS/FROs expressed needing the following logistics and infrastructure: scales, pallet jacks, and supplies like produce bags, storage space for dry goods, cold storage, trucks, drivers, volunteers and staffing.

Additionally, Abound's survey found that the overwhelming majority of FRS/FROs are not using scales to weigh their food. Without scales to provide accurate data reporting, ZWS will not be able to accurately calculate the amount of edible food being diverted from the landfill.

Finally, Abound identified that the largest food bank in Sonoma County, Redwood Empire Food Bank, will be unable to assist in Tier 2 Generator recovery, as it is outside their operational scope. Thus, smaller FRS/FROs will need to step in and handle the prepared foods from Tier 2 Generators. To do that, these Food Recovery Agencies need additional financial support to purchase capacity building infrastructure.

Abound Food Care's Funding Recommendations are summarized in the table below.

Funding Programs to Support FRS/FRO

Short- Term Funding Recommendations

Long- Term Funding Recommendations

Budget Item	Quantity	Approx. Price	Total	Notes	Quantity	Approx. Price	Total	Notes
Bench Scales	27	\$579	\$15,633	*One time costs		\$579		TBD on Program Development
Briefcase Scales	56	\$111	\$6,216	*One time costs		\$111		TBD on Program Development
Pallet Jacks	3	\$6,000	\$18,000	*One time costs		\$6,000		TBD on Program Development
Food Recovery Supply Kits	56	\$150	\$8,400	Thermometers (\$65 each), freezer bags (\$40), freezer blanket (\$45) Two kits will be provided to each non-profit.	54	\$150	\$8,100	Thermometers (\$65 each), freezer bags (\$40), freezer blanket (\$45) Two kits will be provided to each non-profit.
Smallwares and Supplies	Varied	Misc	\$20,000	Hand carts (\$120), tables (\$60), canopies, boxes, shelving, bags, paper towels, gloves, etc.	Varied	Misc	\$20,000	Hand carts (\$120), tables (\$60), canopies, boxes, shelving, bags, paper towels, gloves, etc.
Third-party Food Safety Audits	28	\$275	\$7,700	Audits to QC FRS/FRO's that provide training during the audit process.	27	\$275	\$7,425	Audits to QC FRS/FRO's operations that provide training during the audit process.
E-Food Safety Training	140	\$7.95	\$1,113	2hr online food safety training program, or 4-5 people per FRS/FRO's.	135	\$7.95	\$1,073	2hr online food safety training program, or 4-5 people per FRS/FRO's.
Third-Party Cold Storage	180	\$25.00	\$4,500	\$25/pallet. Estimated 15 pallets a month. Note. Abound identified there is limited 3rd party cold storage capacity in Sonoma. Instead, Abound is suggesting an alternative program through a portable solar powered cold storage unit.	600	\$25.00	\$15,000	\$25/pallet. Estimated 50 pallets a month.
Increase Cold Storage Capacity - 3 door refrigerators	6	\$4,500	\$27,000	*One time costs. Based on FRS/FRO requests.		\$4,500		TBD on Program Development
Increase Cold Storage Capacity - 3 door freezers	6	\$5,600	\$33,600	*One time costs. Based on FRS/FRO requests.		\$5,600		TBD on Program Development

III. DISCUSSION

Staff recommends allocating \$25,000 from Organics Reserves for the FRO Mini Grant. Applications would only be accepted between January 1 – June 25, 2024. The minimum awarded grant amount will be \$500 and maximum will be \$5,000 per applicant. Only Food Recovery Organizations would be eligible, and organizations that have a current service contract with Zero Waste Sonoma would be ineligible.

Applicants would submit their Mini Grant request via a form on the Zero Waste Sonoma website, along with a W-9 form, proof of the organization’s non-profit 501(c)(3) and Employer Identification Number (EIN), and copy of the receipt for items purchased. After determining the applicant’s qualifications and approved items, Zero Waste Sonoma would issue a reimbursement check for the items.

Eligible capacity-building expenses could include: pallet jacks, scales, dollies, food waste prevention software, food safety training, cold storage, dry storage, thermometers, can openers, reusable bags, reusable to-go containers, box cutters, PPE, etc. Ineligible expenses could include: any single-use item like containers, bags, silverware, etc; any item not directly related to recovery of edible food.

Applicants are allowed to apply for reimbursements for equipment costing more than \$5,000, however Zero Waste Sonoma will only reimburse for the maximum grant amount of \$5,000.

IV. FUNDING IMPACT

\$25,000 from the Organics Reserve contingency fund

V. ATTACHMENTS

1. Resolution

RESOLUTION OF ZERO WASTE SONOMA (ZWS)
ADOPTING ADJUSTMENTS TO THE FY 2023/24 ANNUAL BUDGET FOR ORGANICS RESERVE FUND

WHEREAS, ZWS approved Zero Waste Sonoma Fiscal Year 2023/24 Budget by unanimous vote on March 16, 2023; and

WHEREAS, the Board approves the establishment of a one-time mini-grant for Food Recovery Organizations to purchase capacity building infrastructure, in compliance with SB 1383.

WHEREAS, staff recommends increasing the Fiscal Year 2023/24 Organics Reserve Fund Budget for Special Department Expense (52162) in the amount of \$25,000 to assist in food recovery efforts; and

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of Zero Waste Sonoma does hereby approve the adjustment to the Fiscal Year 2023-24 Budget.

MEMBERS:

- | | | | | |
|---------------------|-------------------|-------------------|-------------------|-----------------|
| - -
Cloverdale | - -
Cotati | - -
County | - -
Healdsburg | - -
Petaluma |
| - -
Rohnert Park | - -
Santa Rosa | - -
Sebastopol | - -
Sonoma | - -
Windsor |

AYES: - - NOES: - - ABSENT: - - ABSTAIN: - -

SO ORDERED

The within instrument is a correct copy of the original on file with this office.

ATTEST: DATE: November 16, 2023

Clerk of Zero Waste Sonoma
Agency of the State of California in and for the
County of Sonoma



Agenda Item #: 7
Cost Center: All
Staff Contact: Pagal
Agenda Date: 11/16/2023
Approved by: LL

ITEM: **Green Resolution Recognizing Green Mary**

I. RECOMMENDED ACTION / ALTERNATIVES TO RECOMMENDATION

Staff recommends the Board adopt a Green Resolution recognizing Green Mary for their commitment to the community and the environment through the implementation of proactive waste management practices.

II. BACKGROUND

Staff is honoring Green Mary with the second Green Resolution. The Green Resolution is a way for Zero Waste Sonoma to recognize entities that exemplify zero waste practices.

III. DISCUSSION

Green Mary is a certified woman-owned business based in Sonoma County and founded by Mary Munat in 2003. The focus of Green Mary is to help reduce waste generated at events, festivals, and conferences through waste diversion and greening services. Despite the high demand for her work throughout the Bay Area, Mary’s mission is to “go out of business” in the hope that “greening services,” including setting up sorting stations for garbage (small), recycling (large), and composting (large) and consulting to organizers on strategies for smart sustainable practices, will become unnecessary as society embraces waste-free events and daily living. Mary has also created an Eco-Wares Library of real dishware, service ware, and flatware to support reusables over single-use as a community service anyone can use, for a small fee.

In addition to her business, Green Mary now has a non-profit arm called Goodwerks, which began during the pandemic to help bring water and critical services to unhoused populations in the Bay Area. Sonoma County is lucky to have such a dynamic zero waste champion like Mary to help foster a zero-waste future through education and events. ZWS is pleased to have Mary share additional information and achievements today with the Board and the Sonoma County community.

IV. FUNDING IMPACT

There are no new funding impacts resulting from this report.

V. ATTACHMENTS

Green Resolution 2023-01

Dated: November 16, 2023

GREEN RESOLUTION OF ZERO WASTE SONOMA
RECOGNIZING GREEN MARY FOR THEIR SERVICE AND COMMITMENT TO
OUR COMMUNITY AND ENVIRONMENT

WHEREAS, Zero Waste Sonoma has created a Green Resolution in order to recognize outstanding service and commitment to the community and environment; and

WHEREAS, organizations and events engaging in practices of waste reduction and environmental awareness shall be promoted for their leadership in the community, and

WHEREAS, Green Mary has demonstrated leadership in Bay Area event greening services, waste diversion and food recovery consulting, and

WHEREAS, Green Mary strives for the best diversion rates at each event, and often reaches up to 95% of event waste kept out of the landfill, and

WHEREAS, Green Mary is a certified woman-owned business located in Sebastopol, CA, and

WHEREAS, Green Mary applies a carbon tax to all events to offset their participation and transportation emissions, and contributes those proceeds to The Climate Center, and

WHEREAS, Green Mary’s new non-profit branch, Goodwerks provides drinking water and essential services to unhoused encampments, and supports non-profit zero waste efforts, and

BE IT FURTHER RESOLVED that the Board of Directors wishes to recognize Green Mary for their outstanding commitment and leadership in waste reduction and environmental stewardship in our county.

MEMBERS:

-- Cloverdale	-- Cotati	-- County	-- Healdsburg	-- Petaluma
-- Rohnert Park	-- Santa Rosa	-- Sebastopol	-- Sonoma	-- Windsor

AYES: -- NOES: -- ABSENT: -- ABSTAIN: --

SO ORDERED

The within instrument is a correct copy of the original on file with this office.

ATTEST: DATE: November 16, 2023

Clerk of Zero Waste Sonoma County
Agency of the State of California in and for the
County of Sonoma



Agenda Item #: **8**
Cost Center: **All**
Staff Contact: **Cushwa**
Agenda Date: **11/16/2023**
Approved by: **LL**

ITEM: **FY 22/23 Work Plan Program Progress Report**

I. RECOMMENDED ACTION / ALTERNATIVES TO RECOMMENDATION

This transmittal is for informational purposes only. No action is requested of the Board.

II. BACKGROUND

Historically, staff has prepared annual reports tallying education/outreach conducted by staff and contractors, including English and Spanish Eco-Desk 565-DESK (3375), social media and website activity.

III. DISCUSSION

The Fiscal Year 2022/23 Annual Work Plan Program Progress Report is attached.

IV. FUNDING IMPACT

There are no new funding impacts resulting from this report.

V. ATTACHMENTS

Annual Work Plan Progress Report



ZERO WASTE SONOMA WORK PLAN PROGRAM PROGRESS REPORT

REPORTING PERIOD JULY 1, 2022 - JUNE 30, 2023

ORGANICS COST CENTER

JUSTIFICATION: MANDATED- Starting in the year 2021, required by CA State Legislation Short-lived Climate Pollutants SB 1383

FUNDING: Organics Cost Center

DURATION: Ongoing

DESCRIPTION: Each jurisdiction has an annual procurement target, calculated based on population. Jurisdictions must procure organic waste products such as compost and mulch to use or giveaway. Alternatively, jurisdictions may comply through direct service providers, who procure compost and mulch on behalf of the jurisdictions.

COMPOST GIVEAWAYS

REPORTING PERIOD JULY 1, 2022 TO JUNE 30, 2023

As part of the organics processing contracts with Cold Creek Compost, WM Redwood, and Napa Recycling, Zero Waste Sonoma has access to a compost allotment of 1,700 cubic yards every calendar year. With significant assistance from community volunteers, jurisdictions' staff, and organizational partners such as Daily Acts, Farm to Pantry, Zero FoodPrint, and the Gold Ridge and Sonoma Resource Conservation Districts, staff was able to give away 2,133 cubic yards of compost through 43 events or donations within the reporting period.

The events were more evenly spread over the year in 2022, whereas most of the events in 2023 occurred in the spring. Most events were open to the public, and residents were encouraged to bring their own shovels and buckets to pick up compost. Staff received overwhelmingly positive reception of these events.

In addition, staff organized a compost facility tour at the WM Redwood facility concurrent with a compost giveaway event on 7/28/2022, attracting a total of 20 participants.



COMPOST GIVEAWAYS

CITY	DATE	EVENT	COMPOST AMOUNT (CUBIC YARDS)
Cloverdale	04/22/23	S Cloverdale Blvd and Healdsburg Ave	40
Cotati	10/25/22	175 West Sierra Avenue	40
	02/20/23	175 West Sierra Avenue	240
	02/20/23	175 West Sierra Avenue	120
Healdsburg	10/18/23	Farm to Fight Hunger	36
	02/27/23	Farm to Fight Hunger	48
	04/10/23	HomeFarm	10
Petaluma	09/11/22	Petaluma Bounty	40
	09/17/22	WM Redwood Facility	3
	04/15/23	Petaluma Bounty	40
Rohnert Park	01/06/23	Rohnert Park Corp Yard	80
	04/22/23	Rohnert Park Community Center	40
	04/29/23	Rohnert Park Community Center	40
	05/03/23	Rohnert Park Corp Yard	40
Santa Rosa	10/28/22	A Place to Play	40
	10/26/22	1717 Yulupa Drive	20
	04/15/23	Knox Church	20
	04/30/23	A Place to Play	40
	05/03/23	Bayer Farm	80
	05/06/23	Harvest for the Hungry	20
	05/13/23	6811 Gardner Ranch Road	40
	05/22/23	Brush Creek Montessori School	20
	06/03/23	Recology Train Car Offices	80
06/12/23	Bayer Farm	40	

Sebastopol	09/03/22	425 Morris Street	80
	10/01/22	425 Morris Street	80
	04/02/23	425 Morris Street	80
	05/06/23	425 Morris Street	80
Sonoma	07/19/22	Sonoma Valley High School	40
	08/06/22	Sonoma Garden Park	40
	10/18/22	Adele Harrison Middle School	40
	10/18/22	Adele Harrison Middle School	40
	02/14/23	Sonoma Valley High School	40
	04/21/23	Allimira School	5
	04/22/23	Sonoma Larson Park	15
Unincorporated	06/14/23	19996 7th Street E	40
	08/28/22	Fort Ross School, Cazadero	40
	10/28/22	Forestville Downtown Trailhead	40
	04/23/23	Fort Ross School, Cazadero	40
	05/21/23	Fort Ross School, Cazadero	40
	06/18/23	Fort Ross School, Cazadero	40
07/16/23	Fort Ross School, Cazadero	40	
Windsor	04/29/23	Keiser Park, 700 Windsor River Rd	96
TOTAL		43	2,133

The giveaways highlighted in peach indicate compost given to schools and organizations serving the community.



ORGANICS COST CENTER

JUSTIFICATION: MANDATED - Required by State Legislation, SB 1383. Under state law, local jurisdictions are responsible for providing outreach, education, monitoring for compliance, and reporting to CalRecycle.

WHO WORKS: Staff

FUNDING: Organics Cost Center

DURATION: Ongoing

DESCRIPTION: Commencing January 1, 2022, jurisdictions are required to educate affected generators regarding the requirements they must meet under SB 1383 and the climate benefits associated.



SHORT-LIVED CLIMATE POLLUTANTS (SLCP) SB 1383

REPORTING PERIOD JULY 1, 2022 TO JUNE 30, 2023


Staff was invited to speak to various organizations, events, and conferences about the SB 1383 requirements and progress towards implementation in Sonoma County.

SB 1383 EDUCATIONAL PRESENTATIONS

ORGANIZATION	TOPIC	AUDIENCE
California Resource Recovery Association Conference	Compost rebate program and other solutions to meet SB 1383 procurement requirements	50
County of Sonoma: Safety Council	SB 1383 requirements for county facilities	15
2023 US Composting Council National Conference	Compost rebate program and other solutions to meet SB 1383 procurement requirements	100
Russian River Watershed Association	SB 1383 for landscapers and available compost rebates	200
Zero Waste North Bay: Zero Waste Symposium	Progress towards SB 1383 Implementation	200
County of Sonoma: Purchasing Department	Paper procurement requirements	5
North Coast Soil Hub: Soil Health Technical Assistance for Ag Professionals	Progress towards SB 1383 Implementation	80
TOTAL		650

SB 1383 COMPLIANCE

JURISDICTION	COMPLIANCE 2023	COMPLIANCE 2022
Cloverdale	94%	73%
Cotati	96%	86%
Healdsburg	98%	80%
Petaluma	100%	68%
Rohnert Park	89%	75%
Santa Rosa	94%	73%
Sebastopol	95%	80%
Sonoma	100%	100%
Unincorporated	97%	77%
Windsor	98%	63%



ZERO WASTE SONOMA

CALIFORNIA SB 1383

— Short-lived Climate Pollutants —

NEW REGULATIONS TAKE EFFECT ON JANUARY 1, 2022, AND ESTABLISH STATEWIDE GREENHOUSE GAS EMISSION REDUCTION GOALS:

- By 2025, reduce the amount of organic material disposed in landfills by 75% from the 2014 level.
- By 2025, no less than 20% of edible food currently disposed in landfills must also be recovered for human consumption.

SB 1383 is the most aggressive waste reduction law to be adopted in California for the past 30 years. The law will affect almost everyone, and unlike previous laws, jurisdictions may issue penalties for non-compliance. A summary of requirements is provided in this guide, and free educational resources and assistance are available to help you achieve compliance.

GUIDE TO CALIFORNIA SB 1383 WWW.ZEROWASTESONOMA.GOV



GREENING THE COUNTY EMPLOYEE APPRECIATION PICNIC

Staff assisted the organizers of the annual County employee appreciation picnic, which is part of Public Service Recognition Week, in purchasing compostable and recyclable foodware. In an effort to lead by example, staff also trained a small team of volunteers to monitor waste stations and ensure event participants placed items into the correct bins. At the end of the event, three recycling and three organics bins were filled while only one 3-cubic yard garbage bin was needed.

EDUCATION COST CENTER

JUSTIFICATION: MANDATED - Required by State Legislation, AB 341. Under state law, local jurisdictions are responsible for providing outreach, education, monitoring, and reporting to CalRecycle.

BOARD DIRECTED- City/County Payment Program (Grant funded)

WHO WORKS: Staff

FUNDING: Education Cost Center and CalRecycle grant funded

DURATION: Ongoing

DESCRIPTION: As of July 1, 2012, AB 341 Applies to establishments producing 4 cubic yards or more of commercial solid waste per week and multifamily dwellings of 5 units or more. CalRecycle's City County Payment Program allows ZWS to administer grant funds aimed to increase beverage container recycling in member jurisdictions.



MANDATORY COMMERCIAL RECYCLING (MCR) AB 341 AND BEVERAGE CONTAINER RECYCLING

REPORTING PERIOD JULY 1, 2022 TO JUNE 30, 2023

Activities in this reporting period included soliciting requests from jurisdictions and public agencies for new water refill station infrastructure. These stations encourage the public to reuse and refill their existing water bottles, rather than purchase single-use containers, leading to decreased demand for plastic, reduced litter from single-use packaging, and less waste.

In addition, indoor and outdoor recycle bins are available on an ongoing basis to businesses, schools, multifamily dwellings, and government.

The City/County Payment Program continues to be implemented by ZWS staff to fund products and services related to beverage container recycling and litter abatement.

CALRECYCLE REPORTING EXPENDITURES GRANT CYCLE FY 21/22 IN PROGRESS

TYPE OF EXPENDITURE	DOLLAR AMOUNT	% OF TOTAL
WATER REFILL STATIONS	\$16,816.75	49.1%
LITTER ABATEMENT	\$7,942.36	23.2%
RECYCLING BINS	\$1,959.05	5.7%
STAFFING/TRAINING	\$7,507.49	22%
TOTAL	\$34,225.65	

AB 341 COMPLIANCE

JURISDICTION	COMPLIANT ACCOUNTS 2023	COMPLIANT ACCOUNTS 2022
Cloverdale	100%	89%
Cotati	100%	90%
Healdsburg	100%	91%
Petaluma	100%	92%
Rohnert Park	100%	88%
Santa Rosa	100%	93%
Sebastopol	100%	93%
Sonoma	100%	96%
Unincorporated	100%	91%
Windsor	98%	95%

CALRECYCLE REPORTING EXPENDITURES GRANT CYCLE 20/21

TYPE OF EXPENDITURE	DOLLAR AMOUNT	STATISTIC
Water Refill Stations	\$99,274.02	6 AGENCIES
Litter Clean-up Supplies	\$4,545.30	1.50 TRASH GRABBERS
College/University	\$1,073.14	48 RECEPTACLES
Staff & Trainings	\$13,090.48	STAFF TIME + CONFERENCE
Recycling Bins	\$ 2,593.77	18 BUSINESSES
TOTAL	\$120,576.72	

RESULTS HIGHLIGHTS

Approximately \$134,874 available in Grant Cycle 21-22 (through March 1, 2024) and \$135,579 available in Grant Cycle 22-23 (through March 1, 2025).

\$120,576 CalRecycle City/County Payment Program grant funding spent. Grant Cycle 20-21/FYs 21-23

\$34,225.65 spent so far in 21-22 Grant Cycle.

\$25,000 marked for CRV pilot program education campaign.

\$65,609.51 in orders currently pending.

EDUCATION COST CENTER

JUSTIFICATION: MANDATED – JPA Provide recycling information in Spanish (Section 4.7.3.4 of the ColWMP).

WHO WORKS: Contractor (Soluna Outreach Services)

FUNDING: Education Cost Center and CalRecycle Used Oil Payment Program (OPP)

DURATION: Ongoing annual contract (July 1, 2022 - June 30, 2023)

DESCRIPTION: Soluna Outreach Services uses a multi-media advertising approach including radio advertng and person-to-person outreach at events.

SPANISH LANGUAGE OUTREACH

REPORTING PERIOD JULY 1, 2022 TO JUNE 30, 2023

Activities in this reporting period included participation in bilingual outreach, Spanish business visits, outreach to community groups (Head Start/Early Start Community Action Partnership and Pasitos Parents Program), and Spanish radio programming on KBBF.

Note that bilingual outreach supports other ZWS programs (Used Motor Oil/Filter Recycling Outreach and general outreach).

TARGETED SPANISH EVENTS, MEETINGS, AND RADIO OUTREACH

EVENT NAME	# EVENT OCCURANCES	NOTES
Various Farmer’s Markets	11	Covered various jurisdictions
Pasitos Parents Program	18	Soluna Outreach Services conducts presentations about recycling, conservation, and environmental health to parents that participate in these three programs.
Other Events	89	Día de los Muertos, binational health fairs, cultural events, safety fairs
KBBF 89.1FM	33	Nuestra Tierra Radio Program (15 minute segment live interviews)
TOTAL		151



ZERO WASTE GUIDE (ENGLISH AND SPANISH)

REPORTING PERIOD JULY 1, 2022 TO JUNE 30, 2023

The 24-page 2023 Guide theme was Back to the Basics and the 2022 Guide theme was Healthy Environment, Healthy Communities. The printed version of the guides were distributed at outreach events and to interested parties (e.g., libraries, city and county offices, multi-family complexes, and businesses). An electronic version of the Guide was posted on the zerowastesonoma.gov website.

In 2023, the Recycle Guide was organized by program, including a section for Zero Waste lifestyle:

- Zero Waste Lifestyle
- What's New in Waste
- Mandatory Business Recycling and Composting
- Composting
- Curbside Reminders
- Drop-off Recycling
- Curbside Services
- Visiting Disposal Sites
- Construction and Demolition
- Household Hazardous Waste (HHW) Disposal
- Used Motor Oil and Filter Recycling
- Batteries, household
- Electronic waste
- Fluorescents
- Medicines and syringes
- Where does it go? Think again

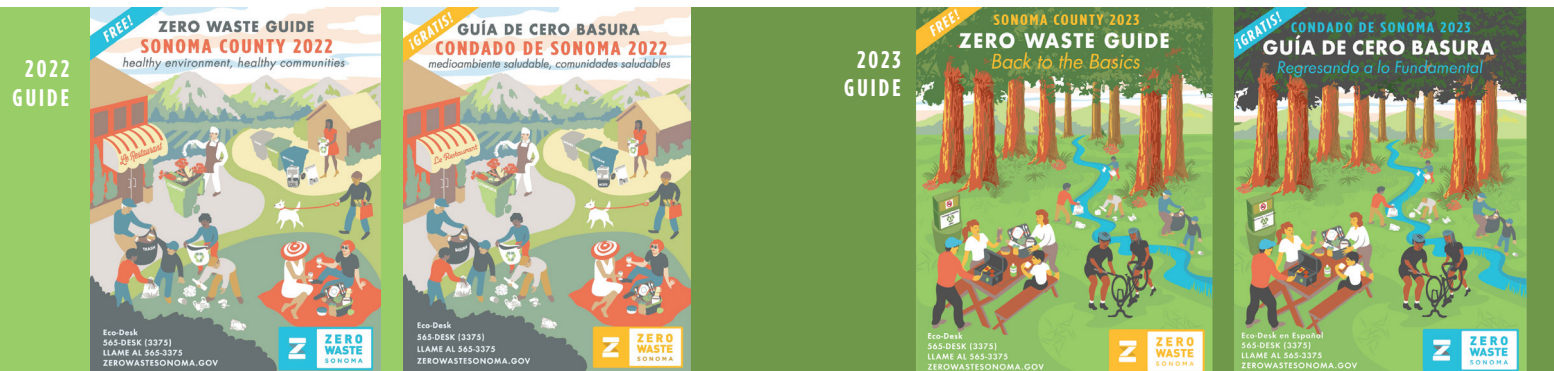
JUSTIFICATION: MANDATED – JPA Provide recycling information to all County residents and businesses (Section 4.7.2.1 of the ColWMP) BOARD DIRECTED (Spanish Guide)

WHO WORKS: Staff and Contractor (Soluna Outreach Services)

FUNDING: Education Cost Center

DURATION: Ongoing

DESCRIPTION: The annual Zero Waste Guide (English and Spanish versions) is a comprehensive resource for recycling, reuse, and hazardous waste disposal options in Sonoma County.



EDUCATION COST CENTER

JUSTIFICATION: MANDATED – JPA Provide recycling information by phone to all County residents and businesses (Section 4.7.2.2 of the CoIWMP)

WHO WORKS: Staff and Contractor (Soluna Outreach Services for Spanish language)

FUNDING: Education Cost Center

DURATION: Ongoing

DESCRIPTION: Daily telephone and email response to questions from the public on recycling, disposal, and household hazardous waste.

The English language Eco-Desk is comprised of pre-recorded information for Household Hazardous Waste, Recycle Guide, Motor oil and filter recycling. Callers are also given the option to talk to a live person. Website inquiries are also logged in the Eco-Desk database.

ECO-DESK (ENGLISH AND SPANISH)

REPORTING PERIOD JULY 1, 2022 TO JUNE 30, 2023

Callers are given the option to speak to a ZWS staff member directly after listening to pre-recorded information, or to leave a message. We also accept emails as part of the Eco-Desk program, offering timely answers to questions from throughout our community.

ENGLISH ECO-DESK CALLS PER MONTH



QUESTION CATEGORIES	
	# ENGLISH CALLS
E WASTE	108
HHW MISC	137
RECYCLING MISC	212
HAULER QUESTION	23
MOTOR OIL & FILTERS	51
PAINT	10
RESIDENTIAL COMPOSTING	3
TREATED WOOD	12
TOTAL	1,616

2,044 ENGLISH CALLS IN FY 22-23

NUMBER OF ECO-DESK CALLS HISTORICALLY BY CALENDAR YEAR

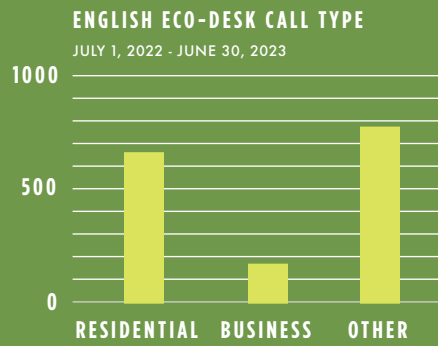
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	JAN-JUNE 2023
Number of English Calls	1,585	1,759	2,149	1,712	1,307	1,216	1,998	1,426	2,263	1,001	1,674	2,959	1,002	713
Number of Spanish Calls	150	105	104	83	49	30	20	47	19	41	25	39	28	22

CALLS BY JURISDICTION ENGLISH JULY 1, 2022 - JUNE 30, 2023

JURISDICTION	ENGLISH CALLS FY 21-22	ENGLISH CALLS FY 22-23
Unknown or out-of-county (includes website inquires)	1,389	594
Santa Rosa	67	146
Unincorporated	9	26
Petaluma	31	40
Sebastopol	12	37
Windsor	57	39
Sonoma	20	16
Healdsburg	11	31
Rohnert Park	10	29
Cloverdale	6	20
Cotati	4	10
TOTAL	1,616	988

TOPIC ENGLISH JULY 1, 2022 - JUNE 30, 2023

JURISDICTION	# ENGLISH CALLS
E-Waste	108
Recycling	212
HHW	137
Disposal	11
Hauler billing or service	23
Other	955
Composting	81
Motor oil and filters	51
Mattresses	28
Ordinance	10
TOTAL	1,616



RESULTS HIGHLIGHTS

1,616 English language Eco-Desk calls were answered in FY 22-23.

English Eco-Desk call volume decreased by 66% from 2021 to 2022.

Spanish Eco-Desk call volume decreased by 28% from 2021 to 2022.

The most frequently asked questions related to recycling and household hazardous waste disposal.

Santa Rosa, Petaluma, and Windsor generated the most inquiries.

EDUCATION COST CENTER

JUSTIFICATION: MANDATED – JPA (Section 4.7.2.9 of the CoIWMP)

WHO WORKS: Staff and Contractor (Soluna Outreach Services for Spanish language and UCCE for Home Composting)

FUNDING: Education Cost Center

DURATION: Ongoing

DESCRIPTION: Participation in events provides an opportunity to reach people at their convenience.

◀ APRIL 2023 ▶
[Go to Today](#)

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	26	27	28	29	30	31
1						
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	1	2	3	4	5	6

Household Hazardous Waste	eWaste	Outreach	Board Meetings
Local Task Force	Zero Waste	Compost	Mattress Recycling
Solar Panels			

EVENTS

REPORTING PERIOD JULY 1, 2022 TO JUNE 30, 2023

ZWS participated in one-day and multiple-day outreach events, in both English and Spanish languages. For multi-day events such as the Cloverdale Citrus Fair and the Sonoma County Fair the exhibit theme was Choose to Reuse.



SAMPLING OF EVENTS

- Bodega Bay Farmer’s Market
- Cloverdale Car Festival
- Cloverdale Citrus Fair
- Dia De Los Muertos at Cloverdale Plaza
- El Mercado Market at Roseland Village
- Father’s Day Car Show
- Fix-It Clinic & Reuse Fair
- Forestville Farmer’s Market
- Healdsburg Farmer’s Market
- Kid’s Day Parade in Cotati
- Occidental Farmer’s Market
- Pasitos Program
- Peacetown Sebastopol
- Plastic Free July
- HeadStart Parent Presentation
- Reuse Coalition Meeting
- Santa Rosa Earth Day
- Korbel’s Environmental, Health and Safety Fair
- The Water Smart Expo
- VegFest
- Windsor Farmer’s Market
- Mattress Collection Event
- Household Hazardous Waste Events
- Santa Rosa Downtown Market
- Sonoma County Fair
- E-Waste Events
- DMV outreach
- Wednesday Night Markets

EVENTS BY JURISDICTION

JURISDICTION	# EVENTS	# EVENT DAYS	# HOURS OUTREACH
Cloverdale	12	19	68
Cotati	7	7	28
Healdsburg	8	10	37
Petaluma	21	25	86
Rohnert Park	9	11	53
Santa Rosa	69	87	218
Sebastopol	7	9	34
Sonoma	10	12	50
Unincorporated	26	28	170
Windsor	8	10	40
TOTAL	186	218	784



RESULTS HIGHLIGHTS

- 186 outreach/education events were completed.
- 218 outreach/education event days were completed.
- 784 outreach/education hours were completed.



EDUCATION COST CENTER

JUSTIFICATION: BOARD DIRECTED
 WHO WORKS: Staff
 FUNDING: Education Cost Center
 DURATION: Ongoing
 DESCRIPTION: Manage online marketing options for ZWS topics using services such as Twitter, Facebook, NextDoor, LinkedIn, and Instagram.

SOCIAL MEDIA ON-LINE MARKETING OUTREACH

REPORTING PERIOD JULY 1, 2022 TO JUNE 30, 2023

Activities in this reporting period included maintaining Facebook, Twitter, and Instagram social media accounts. In addition, ZWS partnered with the County of Sonoma Public Information Office to post on NextDoor for HHW, e-waste, and mattress recycling events.

Facebook paid ads augmented paid print and radio advertising for e-waste, used motor oil/filter recycling, solar panel collection, and HHW collection events.

Facebook Insights was used to provide analytical data.



The posts for this E-Waste event had the furthest reach this year: 6.5k on Facebook. It also had the most link clicks: 28 clicks.



This Instagram post reached 293 viewers, had 7 shares, and 27 likes.



This Instagram post had the most likes at 55 on Instagram. It also had the most comments at 18.

Household Hazardous Waste (HHW) Collection Event

May 30, 2023
KENWOOD

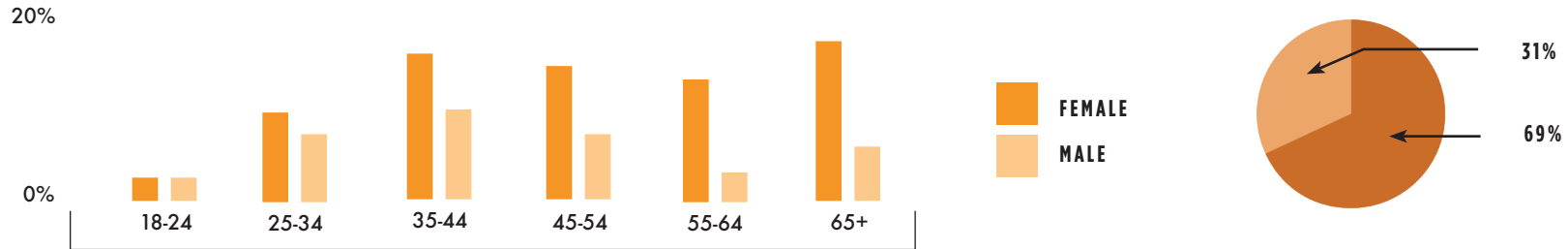
APPOINTMENT REQUIRED:
ZeroWasteSonoma.Gov

FREE COMPOST GIVEAWAY SONOMA

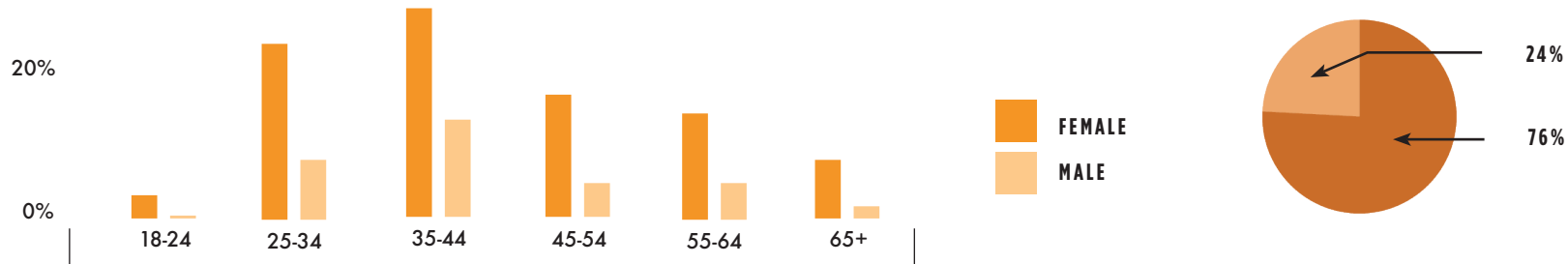
June 14, 2023 • 10A - 12P
SONOMA GARDEN PARK
19996 7TH ST EAST

zerowastesonoma.gov

AGE & GENDER OF FACEBOOK FOLLOWERS



AGE & GENDER OF INSTAGRAM FOLLOWERS



RESULTS HIGHLIGHTS

- ZWS has 4,002 Facebook followers, up from 3,861 the previous year.
- ZWS has 491 Twitter followers, up from 467 the previous year.
- ZWS has 1,542 Instagram followers, up from 1,259 the previous year.

The grid contains six promotional flyers for Zero Waste Sonoma events:

- PROTECT OUR ENVIRONMENT:** A flyer with a fireworks image and text: "Fireworks and sparklers emit toxins and pollutants. More wildfires are started on July 4th than any other day." Includes the Zero Waste Sonoma logo.
- FREE COMPOST GIVEAWAY:** For CAZADERO, Fort Ross Elementary, 30600 SEAVIEW RD, on 6/18/23 from 10A-1P.
- FREE MATTRESS RECYCLING EVENT:** At LUTHER BURBANK CENTER, 50 MARK WEST SPRINGS RD, SANTA ROSA, on 6/17/23 from 9A-5P.
- FREE COMPOST GIVEAWAY:** At SONOMA GARDEN PARK, 19996 7TH ST E, on 6/14/23 from 10A-12P.
- FREE E-WASTE RECYCLING EVENT:** At LUTHER BURBANK CENTER, 50 MARK WEST SPRINGS RD, SANTA ROSA, on 6/16-6/18 from 9A-5P.
- FREE COMPOST GIVEAWAY:** At SANTA ROSA RECYCLOGY OFFICES, 3565 STANDISH AVE, on 6/3/23 from 9A-12P.



EDUCATION COST CENTER

JUSTIFICATION: MANDATED – JPA
 Communicate recycling information using the web (Section 4.7.2.3 of the ColWMP).

WHO WORKS: Staff and Contractor (The Engine is Red)

FUNDING: Education Cost Center

DURATION: Ongoing

WEBSITE ZEROWASTESONOMA.GOV

REPORTING PERIOD JULY 1, 2022 TO JUNE 30, 2023

The zerowastesonoma.gov website has been a valuable tool for us to keep the community aware of events, protocols, and updates during severe weather events. It also connects us to other jurisdictions around the globe and serves as a leader in the online space.

Website usage tallies were generated by Google Analytics.

TOP TOPICS

PAGE	07/01/22-6/30/23 VISITS
Home page	29,917
E-Waste disposal page	24,711
Materials page	9,925
Household Hazardous Waste Facility page	24,842
Disposal Site Fee Schedules	24,441



WEBSITE ZEROWASTESONOMA.GOV FEATURES INCLUDE:

- COMPATIBLE WITH MOBILE DEVICES AND TABLETS
- MAPPING OF REUSE AND RECYCLING DROP-OFF LOCATIONS
- CALENDAR OF EVENTS, MEETINGS, AND WORKSHOPS
- ZERO-WASTE LIFESTYLE INFORMATION

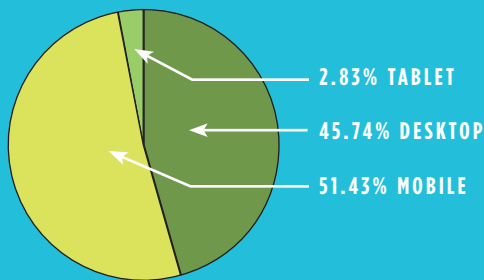
OF ZEROWASTESONOMA.GOV VISITORS PER JURISDICTION

JURISDICTION	7/1/22 - 6/30/23	7/1/21 - 6/30/22	7/1/20 - 6/30/21
Santa Rosa	18,602	29,700	30,362
Petaluma	6,284	10,197	11,301
Windsor	4,062	6,923	7,459
Sebastopol	3,043	6,370	7,170
Rohnert Park	3,189	4,469	4,784
Sonoma	2,560	4,041	5,656
Unincorporated	342	369	319
Healdsburg	1,264	1,795	2,657
Cotati	490	801	692
Cloverdale	1,201	1,983	2,021
TOTAL	40,695	66,648	72,421

WEBSITE USAGE

	7/1/22-6/30/23	7/1/21-6/30/22	7/1/20-6/30/21
Total Number of Visitors	121,136	124,687	116,049
New Visitors	120,095	123,554	114,955
Sessions	168,246	176,873	166,511
# Sessions per Visitor	1.39	1.42	1.43
Page views	386,560	437,158	447,929
Pages/session	2.30	2.47	2.69
Returning Visitors	23,522	25,809	25,995
Average Session (mins)	1:40	1:46	1:58
Bounce rate	62.39%	59%	57%

OVERALL DEVICE USERS FY 22-23



RESULTS HIGHLIGHTS

135,654 visitors overall; 87,231 visitors within Sonoma County.

The most website visitors reside in Santa Rosa, San Jose, and Petaluma, respectively.

San Jose (14,567 users), San Francisco (5,754 users), Los Angeles (4,901 users), and Ashburn (1,369 users) were in the top eleven cities of users FY 22-23.

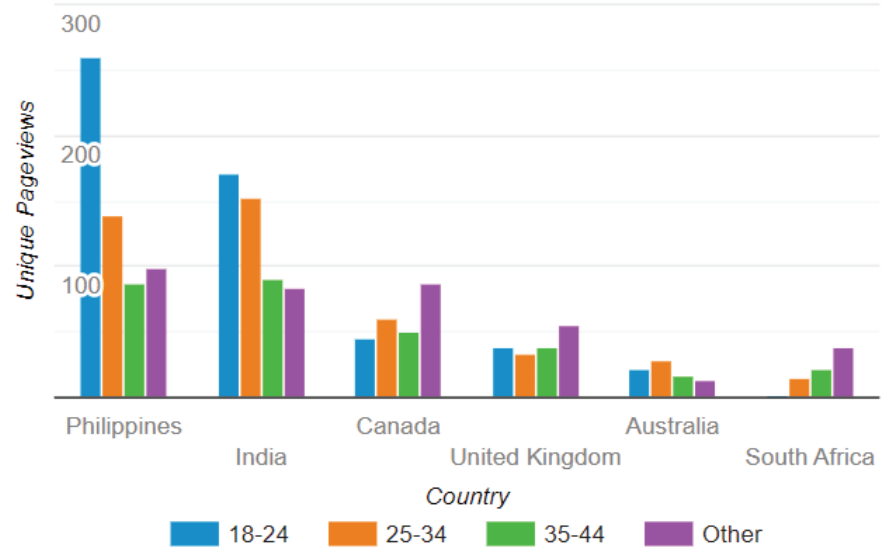
Top out-of-state users were based in Seattle (670), Columbus (608), and New York (536).

Top out-of-country users were based in the Netherlands (1,893), Philippines (1,051), India (822), and China (545).

The zerowastesonoma.gov website is translated into 13 languages, for easy access to our constituents. This year, many of our website visitors browsed from another country. Details of how user quantities in different age groups are illustrated below.

Website translation tallies were generated by ConveyThis, the translation platform.

Unique Pageviews by Country and Age



SINGLE-USE PROPANE CYLINDER COLLECTION

REPORTING PERIOD JULY 1, 2022 TO JUNE 30, 2023

RETAIL PROPANE EXCHANGE LOCATIONS

JURISDICTION	RETAIL PROPANE EXCHANGE LOCATIONS
Petaluma	DeCarli's Propane
Rohnert Park	Walmart
Santa Rosa	REI Sports Basement
Windsor	Walmart

JUSTIFICATION: MANDATED – JPA Comply with regulations, contract administration/oversight (Section 5.3 of the CoWMP)

WHO WORKS: Staff and Contractor (Cylinder Bottle Liquidators)

FUNDING: Household Hazardous Waste Cost Center

DURATION: Ongoing

DESCRIPTION: Manage contract for collection of hazardous waste from residents and CESQG (businesses) at the Household Hazardous Waste Facility (HHWF), HHW Collection Events, and HHW Rover Pickup Service. Provide education resources for the program as needed and coordinate with local organizations.

The ZWS education program supports advertising for residential and business opportunities for household hazardous waste collection.



PARKS COLLECTION BINS

JURISDICTION	# OF DISPOSABLE 1-POUND PROPANE CYLINDERS COLLECTED
Santa Rosa	Spring Lake Regional Park
Unincorporated	Doran Regional Park Westside Regional Park Stillwater Cove Regional Park
TOTAL	3,600

HHW COST CENTER

JUSTIFICATION: MANDATED – JPA Comply with regulations, contract administration/oversight (Section 5.3 of the ColWMP)

WHO WORKS: Staff and Contractor (Clean Harbors)

FUNDING: Household Hazardous Waste Cost Center

DURATION: Ongoing

DESCRIPTION: Manage contract for collection of hazardous waste from residents and VSQG (businesses) at the Household Hazardous Waste Facility (HHWF), HHW Collection Events, and HHW Rover Pickup Service. Provide education resources for the program as needed and coordinate with local organizations.

The ZWS education program supports advertising for residential and business opportunities for household hazardous waste collection.

HOUSEHOLD HAZARDOUS WASTE (HHW) PROGRAM

REPORTING PERIOD JULY 1, 2022 TO JUNE 30, 2023

The HHW program is comprised of the permanent collection facility at the Central Disposal Site, weekly HHW Collection Events, and the HHW Rover Service. Businesses that qualify as Very Small Quantity Generators (VSQGs) may also use the permanent HHW facility or HHW Collection events by appointment.

HHW programs were advertised in the annual Zero Waste Guide, waste hauler newsletters, and through social media postings.

Paint is the most common item collected through the HHW programs. Thanks to California’s paint stewardship law passed in 2012, Zero Waste Sonoma no longer has to pay for the recycling of paint, saving thousands of dollars every year. Reusable paint is also distributed to residents of Sonoma County for free at the HHW Reuse Area. Paint can either be provided in its original container or can be blended into four different colors and distributed in 5-gallon buckets upon request.



HHW EVENTS

JURISDICTION	# OF HHW EVENTS	# OF PARTICIPANTS	AVERAGE PARTICIPANTS PER EVENT
Cloverdale	4	212	53
Cotati	2	72	36
Healdsburg	3	222	74
Petaluma	3	128	43
Rohnert Park	2	75	38
Santa Rosa	12	908	76
Sebastopol	3	138	46
Sonoma	4	269	67
Unincorporated	12	571	48
Windsor	4	268	67
TOTAL	49	2,863	58

POUNDS OF WASTE COLLECTED PER PROGRAM

HHW PROGRAM	FACILITY (RESIDENTS)	FACILITY (VSQG)	EVENTS	ROVER	REUSE
Pounds Collected	977,844	23,110	119,094	16,710	71,457
TOTAL					1,210,215

PARTICIPANTS PER PROGRAM

HHW PROGRAM	FACILITY	VSQG	EVENTS	ROVER
Participants FY 22/23	16,962	175	2,863	52
Participants FY 21/22	16,334	154	2,759	188
Participants FY 20/21	21,074	162	1,487	77
TOTAL	54,370	491	7,109	317



RESULTS HIGHLIGHTS

49 HHW Collection Events were held.

For the second year in a row, the residential HHW facility participation has stabilized to pre-pandemic levels with an average of 115 participants per day. During the pandemic, participation was as high as 225 per day. The operations and disposal contractor has experienced occasional shipping issues since the pandemic but staff has been able to keep operations flowing safely. We also welcomed back Gary Holbrook as our on-site Program Manager after 3-years at a different facility. We are so thankful to have him back with the team!

1,210,215 pounds of HHW collected in FY 22-23.

HHW COST CENTER

JUSTIFICATION: BOARD DIRECTED

WHO WORKS: Contractors (Soluna Outreach Services, Gigantic Idea Studio)

FUNDING: Grant funded CalRecycle's Oil Payment Program (OPP)

DURATION: Ongoing. Contractor agreement from July 1, 2017-June 30, 2024

DESCRIPTION: This program includes a wide variety of efforts from reporting and auditing to collection and education. Funding is provided through the CalRecycle's Oil Payment Program (OPP). Actual projects vary year to year depending on State funding levels.

MOTOR OIL AND FILTER RECYCLING

REPORTING PERIOD JULY 1, 2022 TO June 30, 2023

Quantities of motor oil and filter recycling is tallied for HHW programs, CalRecycle-certified collections centers (e.g., automotive suppliers/repair shops), non-certified collection centers, and waste hauler-operated curbside program.

In this reporting period, infrastructure and collateral created to support used motor oil/filter recycling included the following:

- Oil filter crusher for marina
- Filter drainers, oil rags, and funnels for do-it-yourselfers
- List of Certified Collection Centers (updated for annual Recycle Guide)

In addition, programs were advertised using a robust multifaceted bilingual education campaign.



USED MOTOR OIL AND FILTER RECYCLING OUTREACH SUMMARY

TYPE OF OUTREACH	NOTES
DMV Outreach	21 education/outreach visits were conducted at DMV locations in Santa Rosa and Petaluma.
Home Delivery	Delivered oil filter drainers to 38 residents across Sonoma County.
Community presentations	17 Pasitos presentations were given in FY 22-23. BILINGUAL PRESENTATIONS HeadStart programs coordinated by Community Action Partnership Sonoma County. BILINGUAL PRESENTATIONS These presentations were directed to the parents that participate in these programs. Both programs attract different groups of parents every year.
Media Outreach	“Que Sucede?” (“What’s Happening?”) and “Comunidad en Vivo,” both Spanish language radio programs produced and aired on KSRT Radio Lazer and KJOR La Major. Nuestra Tierra (Our Earth) that airs live in Spanish at KBBF Radio station in Santa Rosa.
Certified Collection Center Site Visits	Conducted site visits at 88 used oil CCCs and completed CalRecycle required site visit forms.
Labor Centers	On a monthly basis, provided used motor oil and filters recycling information to patrons of the Graton, Healdsburg, and Fulton Labor Centers.
Community Events	Conducted used motor oil and filter outreach at over 50 events. Events usually combined general ZWS topics. For a sampling of events, see page 17.
Riders Recycle Program	Direct outreach at the Rip City Riders Bike & Car Show, Cloverdale Citrus Fair, Santa Rosa Cycle Gear, and Z2 Track Day at Sonoma Raceway. 93% of residents surveyed said they recycle their motor oil.
ESL Outreach	Prepared used oil recycling classroom materials/lesson (“The Family Car”) for adult English learners through the Santa Rosa Junior College non-credit ESL program.



RESULTS HIGHLIGHTS

- Certified Collection Centers (CCCs) saw an increase of 6.25% in oil collection and an increase of 8.64% in filter collection.
- Non-certified collection centers saw an increase of 46% in collection of oil, while collection of filters remained steady over the previous year.
- Curbside collection of oil was down nearly 60% and curbside collection of filters was also down significantly, by 33%.
- Across all collection types, in comparison to last year, the collection of oil decreased only slightly, by 0.53%, whereas overall collection of filters decreased by 21%.
- The ratio of filters collected per gallon of oil decreased slightly, from 58.47% to 46.44%.
- Overall, we saw a slight increase in oil & filters at CCCs and non-certified centers, but a substantial decrease in oil & filters collected through curbside programs.

HHW COST CENTER

JUSTIFICATION: MANDATED - ColWMP/Section 5.4.1.8
Provide recycling information to all County residents

WHO WORKS: Staff and Contractor (Conservation Corps North Bay, Mattress Recycling Council)

FUNDING: HHW Cost Center

DURATION: Monthly events contracted until December, 2023

DESCRIPTION: This program accepts electronics that are defined as household hazardous waste. This program is subsidized by the State through the Electronics Recycling Act of 2003. State subsidy is based on pounds received for recycling. A contractor conducts electronic recycling events under contract with ZWS. ZWS pays for site fees and coordinates advertising.

E-WASTE (AND MATTRESS) RECYCLING EVENTS

REPORTING PERIOD JULY 1, 2022 TO JUNE 30, 2023

ZWS held two types of collection events, e-waste collection events and mattress collection events held in conjunction with e-waste events.

E-waste collection events have been operated by the Conservation Corps North Bay (CCNB) since 2016. Mattress collections held in conjunction with e-waste events are organized through a partnership with CCNB and the Mattress Recycling Council (MRC). MRC, a non-profit, is responsible for implementing California's mattress recycling law.

Programs are advertised through paid advertising in local newspapers and radio stations, in the annual Zero Waste Guide, and through social media.



FREE E-WASTE RECYCLING EVENT CLOVERDALE

October 13-15, 2023 • 9A - 5P
TRAIN DEPOT
501 ASTI RD



zerowastesonoma.gov

POUNDS COLLECTED

JURISDICTION	POUNDS OF COVERED E-WASTE (TVS, LAPTOPS AND MONITORS)	POUNDS OF NON-COVERED E-WASTE
Cloverdale	4,691	5,898
Healdsburg	3,477	8,987
Petaluma	21,703	26,975
Rohnert Park	4,788	8,962
Santa Rosa	29,774	51,296
Sonoma	5,826	9,382
Unincorporated	6,130	13,573
Windsor	5,252	6,690
TOTAL	81,641	131,763

ENGLISH RADIO PAID ADVERTISING

RADIO	# 30-SEC. ADS
KFGY	120
KVRV	80
KSRO	36
KWVF	20
TOTAL	256

ENGLISH NEWSPAPER PAID ADVERTISING

PRINT	# PAID ADS
Press Democrat	12
Sonoma Index Tribune	1
Petaluma Argus-Courier	1
TOTAL	14

E-WASTE AND MATTRESS COLLECTION EVENTS

JURISDICTION	# E-WASTE EVENTS	# MATTRESS EVENTS	PARTICIPANTS AT E-WASTE EVENTS	# OF MATTRESSES COLLECTED
Cloverdale	2	1	281	57
Healdsburg	1	1	250	36
Petaluma	2	0	833	0
Rohnert Park	1	1	263	106
Santa Rosa (including Oakmont)	3 Santa Rosa 2 Oakmont	1 Santa Rosa 1 Oakmont	1,144 Santa Rosa 725 Oakmont	92 Santa Rosa 112 Oakmont
Sonoma	1	1	358	53
Unincorporated	2	1	308	40
Windsor	1	1	272	57
TOTAL	15	8	4,434	553



RESULTS HIGHLIGHTS

4,434 participant donors participated in monthly ZWS and CCNB e-waste events.

81,641 pounds of Covered Electronic Waste (CEW) (TVs, laptops, and monitors) were collected.

131,763 pounds of Universal Waste Electronic Devices (UWED), non-covered e-waste were collected.

HHW COST CENTER

JUSTIFICATION: MANDATED - JPA
 Required by regulation, contract administration/oversight (Section 5.4.1.8 of the ColWMP)

WHO WORKS: Staff and Contractor (Recology Sonoma Marin and Onsite Electronics)

FUNDING: HHW Cost Center

DURATION: Agreement for e-waste handling, transporting, and recycling with Onsite Electronics expires in June 2026.
 Agreement for transportation of e-waste to the Sonoma Transfer Station with Recology Sonoma Marin expires in December 2026.

DESCRIPTION: Transport and properly dispose of electronic wastes collected at all of the County-owned disposal sites.

E-WASTE COLLECTION AT DISPOSAL SITES

REPORTING PERIOD OF CALENDAR YEAR 2022

E-waste collection is offered at all County Refuse Disposal Sites. A contract with Onsite Electronics provides sorting, transportation, and recycling of electronic waste from these locations. The e-waste industry continues to experience fluctuations in accepted material and we continue to see reduced weight in material accepted due to a phasing out of heavy items such as cathode ray tube devices (CRTs).

POUNDS OF E-WASTE COLLECTED BY TRANSFER STATIONS

TRANSFER STATION	CEW WEIGHT (CRT + FLATSCREENS INCLUDED)	UWED WEIGHT	TOTAL WEIGHT
Annapolis Transfer Station	23,788	25,005	48,793
Central Disposal Site	263,038	283,962	547,000
Guerneville Transfer Station	51,686	61,690	113,376
Healdsburg Transfer Station	72,477	78,485	150,962
Sonoma Transfer Station	54,205	60,320	114,525
TOTAL	465,194	509,462	974,656

**CEW = COVERED ELECTRONIC DEVICES
 (ANYTHING WITH A SCREEN LARGER THAN
 4 INCHES)**

**UWED = UNIVERSAL WASTE ELECTRONIC
 DEVICES (ALL OTHER E-WASTE)**



ACCEPTABLE ELECTRONIC DEVICES

- Answering machines
- Calculators
- CD players
- Cell phones
- CPAP/Bi-PAP machines
- Copiers
- CRT monitors
- CRT televisions
- Desktop computers
- Digital cameras
- DVD players
- Electronic cables
- Fax machines
- Hard drives
- Keyboards/mice
- Laptop computers
- LCD monitors
- LCD television
- LED monitors
- LED televisions
- Microwaves
- Modems/routers
- Network equipment
- Plasma monitors
- Plasma televisions
- Portable DVD players
- Power cords/adapters
- Printers
- Radios
- Rear projection and DLP TVs
- Remote controls
- Robotic vacuums
- Scanners
- Servers
- Stereos
- Tablets
- Telecom equipment
- Telephones
- VCRs
- Video games consoles
- Zip drives

UNACCEPTABLE ITEMS

- **Appliances** such as air purifiers, refrigerators, freezers, washers, dryers, stoves, ovens, water heaters, air conditioners
- **Ballasts/capacitors**
- **Batteries** other than those in electronic devices
- **Battery powered consumer products** such as power tools, toys, toothbrushes, cordless power tools
- **Contaminated electronic waste** such as medical equipment
- **Exercise/sporting equipment** (an incorporated tv screen should be recycled as e-waste)
- **Fans**
- **Gas cylinders** (propane, etc)
- **Gas powered lawn equipment**
- **Household hazardous waste** (pesticides, aerosols, cleaners)
- **Lamps and light bulbs**
- **Medical equipment** (can be accepted on a case-by-case basis)
- **Mercury containing** (thermostats, switches)
- **Miscellaneous household goods** such as Swiffers™, clocks, waffle irons, irons, sanders, staplers, lamps

- **Non-electronic items** such as CDs, VHS Tapes, DVDs, memory sticks and floppy discs
- **Radioactive devices** (including smoke detectors and exit lights)
- **Satellite dishes**
- **Small kitchen appliances**
- **Solar panels**
- **Vacuum cleaners, shop vacs**
- **Vehicle air bags**
- **Wood**, including wood-encased stereo speakers



RESULTS HIGHLIGHTS

465,194 pounds of covered e-waste was collected at all County Refuse Disposal Sites.

509,462 pounds of non-covered e-waste/universal waste electronic devices (UWED) was collected at all County Refuse Disposal Sites.

HHW COST CENTER

JUSTIFICATION: BOARD DIRECTED
WHO WORKS: Staff and Contractor (Conservation Corps North Bay)
FUNDING: HHW Cost Center
DURATION: Grant project term Sept 2022 to Sept 2025
DESCRIPTION: Offer up to 6 solar panel collection events for residentially-owned solar panels.

SOLAR PANEL RECYCLING EVENT

REPORTING PERIOD OF FY 22-23

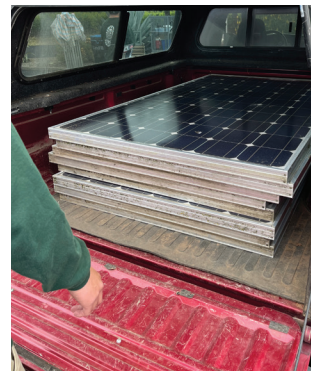
This first-of-its-kind pilot project explored considerations of an aging solar panel population in our region. The event was used to gather information to determine if a permanent program could and should be established in Sonoma County. Five more events are planned for FY 23-24.

Solar panels are currently considered universal waste, a category of hazardous waste, and cannot be safely disposed of in a landfill. Only 10% of solar photovoltaic, or PV, panels are recycled today in the US. Several companies and organizations in California recycle old solar panels to retrieve the valuable mineral components to use in new panels, but they only accept large quantity donations that are far larger than a typical residential array. Valuable materials contained in solar panels include cadmium telluride, silver, copper, and silicon. When removed from old panels these materials can be reutilized, lowering the need for additional mining for the projected demand for solar panels, driven in part by legislation.

Many solar panels have a lifespan of 20-30 years, but some homeowners replace solar panels before the end of their lifespan, in conjunction with roofing upkeep.

PANELS COLLECTED AT THE EVENT MUST HAVE BEEN GENERATED BY A RESIDENT (NOT A BUSINESS) IN SONOMA COUNTY.

RESIDENTS COULD BRING A MAXIMUM OF 40 PANELS.



SOLAR PANEL COLLECTION SUMMARY

CATEGORY	NOTES
Total collection	186 panels were collected
Reusable panels	6 panels will go to local reuse
End-of life panels	180 panels were sent for recycling
Media Outreach	Featured on KRCB Radio, NorCal Public Media, Waste 360, The Press Democrat, and the Sonoma County Gazette







Agenda Item #: 9
Cost Center: Organics
Staff Contact: Tan
Agenda Date: 11/16/23
Approved By: LL

ITEM: Food Recovery Grant Final Report and Presentation

I. RECOMMENDED ACTION / ALTERNATIVES TO RECOMMENDATION

No action required. Staff recommends the Board receive the presentation.

II. BACKGROUND

CA state law Short-lived Climate Pollutants (SB 1383) regulations require that jurisdictions manage a local food recovery program, and if necessary, expand capacity and infrastructure. Anecdotally, staff received feedback from local food recovery and distribution organizations that transportation of food and the associated labor were often limiting factors in the amount of food they could rescue. Staff decided to apply for the CalRecycle Food Waste Reduction and Rescue grant program in November 2020. Staff chose to partner with the Conservation Corps North Bay (CCNB) because the organization operated on a fee-for-service model, which would be a sustainable funding model after the conclusion of the grant.

ZWS was awarded \$300,000 in May 2021 for a two-year grant period. Staff later requested and received a grant extension. The grant program concluded in Sep 2023.

III. DISCUSSION

As ZWS started the grant program in the middle of the COVID-19 pandemic, staff experienced significant challenges in the first year. The original plan, which was submitted as part of the application, was for CCNB to shadow under and train with the Redwood Empire Food Bank (REFB) personnel since CCNB had no previous experience in food recovery. In addition, CCNB would use REFB's extra trucks while waiting for their own truck to be delivered in exchange for providing REFB with grant-funded labor. Unfortunately, in the 6 months between ZWS's submittal of the application and receipt of the grant award, REFB decided to downsize their fleet since several of their trucks were old and would not meet new emissions standards. Some of REFB's regular volunteers are elderly and many decreased their hours to prevent COVID infection. In addition, REFB decreased the number of countywide food pickups. REFB also had significant staff turnover, including their Executive Director, who stepped down. REFB informed ZWS and CCNB that they no longer had the capacity to stay involved in the grant project.

ZWS and CCNB had to come up with an alternative plan to not only start rescuing food, but also find a vehicle to do so. Although it had a smaller capacity and no refrigeration, CCNB decided to use their 12-person passenger van, and ZWS staff purchased insulated food pan

carriers, which could carry either hot or cold items. Staff made a connection with Farm to Pantry, a non-profit organization based in Healdsburg, to get CCNB started on gleaning of residential fruit trees. CCNB started gleaning 1 day a week, steadily increasing the number of hours with Farm to Pantry over several months.

The new refrigerated truck that staff ordered for CCNB with grant funds proved to be another early hurdle. The pandemic caused disruptions in supply chains, including a worldwide microchip shortage, an essential component in the construction of vehicles. Staff originally expected delivery of the new truck within the first 3 months of the grant program, but the truck was finally delivered in April 2022, almost a year later. Forced to continue using the passenger van, CCNB was limited in the amount of food they could transport at any one time.

Lastly, another factor that ZWS and CCNB staff did not anticipate was that the existing food recovery and distribution organizations in the county were wary of CCNB. Some were initially reluctant to share information or resources, and it took time to gain their trust. As COVID-19 infections started to decrease, CCNB made new partnerships with food donors and recipients, slowly increasing the number of food pickups every week. Toward the end of the grant period, CCNB was picking up food 5 days a week, and sometimes on weekends. REFB once again increased operations, and they reached out to ask CCNB to take over several routes, which included pickup from large supermarket chains like Raley's, Trader Joe's, and Safeway.

Although CalRecycle grant funds have since run out, CCNB is able to continue offering their services at no charge to generators under another grant: \$2.5 million from Cal Volunteers, which is also administered by ZWS staff. The Cal Volunteers grant expires in spring 2024, with an extension to December 2024 likely.

IV. FUNDING IMPACT

As this is an informational presentation, there are no funding impacts at this time.

V. ATTACHMENTS

Powerpoint Presentation: Food Recovery Grant Results and Final Report



FOOD RECOVERY GRANT RESULTS AND FINAL REPORT

NOV 16, 2023

XINCITAN

SB 1383 KEY JURISDICTION DATES

2022



Provide Organics Collection Service to All Residents and Businesses



Establish Edible Food Recovery Program



Conduct Education and Outreach



Procurement



Capacity Planning

2024



Starting January 1, 2024 Jurisdictions must take action against non compliant entities

CALRECYCLE FOOD WASTE PREVENTION AND RESCUE GRANT

- Application submitted Nov 2020
- Awarded \$300,000 in May 2021
- Grant partner: Conservation Corps North Bay (CCNB)
- Project focused on offering transportation services; prepared food focus; grant funds for
 - Supervisors and CM labor
 - Food Handler Certificates
- Informal agreement with food bank to show CCNB the ropes and provide truck in exchange for labor

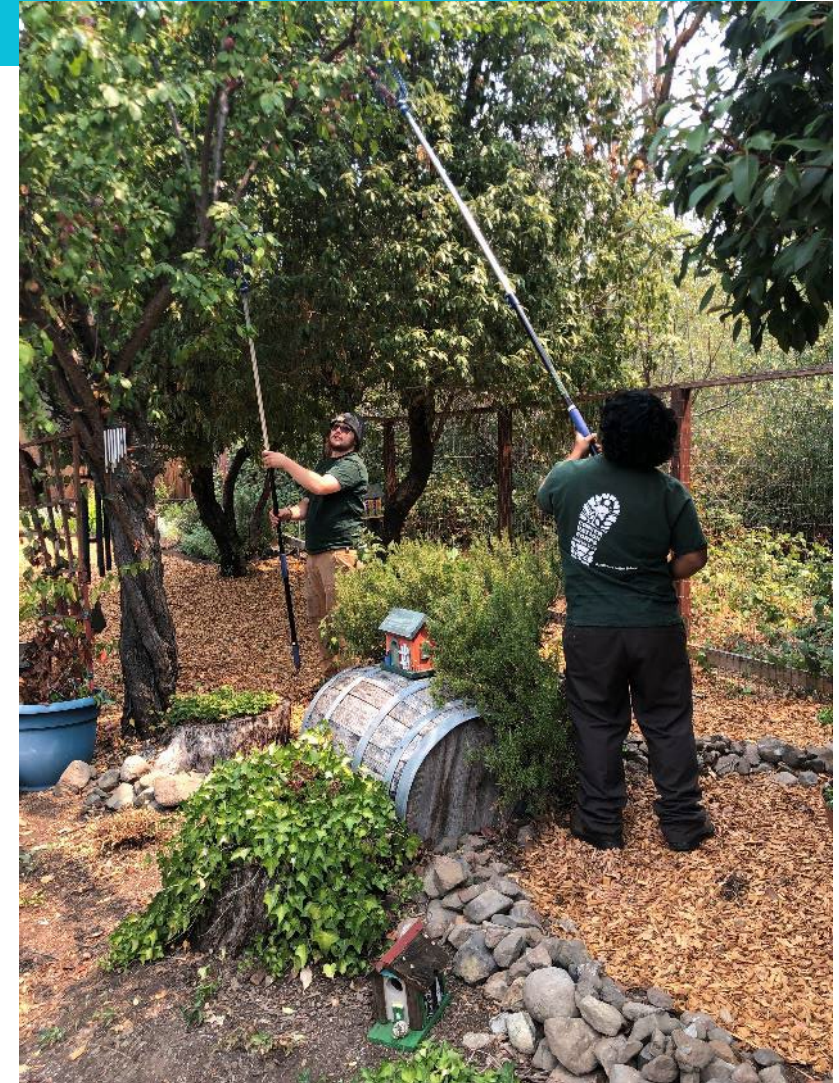


CHALLENGES OUT THE GATE

- COVID-19
- Food bank cuts ties: no truck, training, or connections
- Struggle to find food donors and recipients
- Microchip shortage; New truck not delivered until 1 year into the grant
- Challenges with some food recovery organizations

BREAKTHROUGH

- Partnership with Farm to Pantry established: residential gleaning
- CCNB uses passenger van while waiting new truck
- Partnership with Marin ExtraFood – more connections to donors and recipients



PURCHASE SUMMARY

- 2022 Kenworth refrigerated box truck
- Utility cart 300 lb
- Fruit pickers
- Insulated food pan carriers
- Insulated pallet covers
- Pallet truck scale 5,000 lb
- High visibility jackets and pants
- Safe Food Handling certificates
- Customer Service training
- \$10,811 – Equipment: materials
- \$147,470 – Equipment: vehicle(s)
- \$660 – Indirect
- \$3400 – Maintenance
- \$137,659 – Personnel/labor

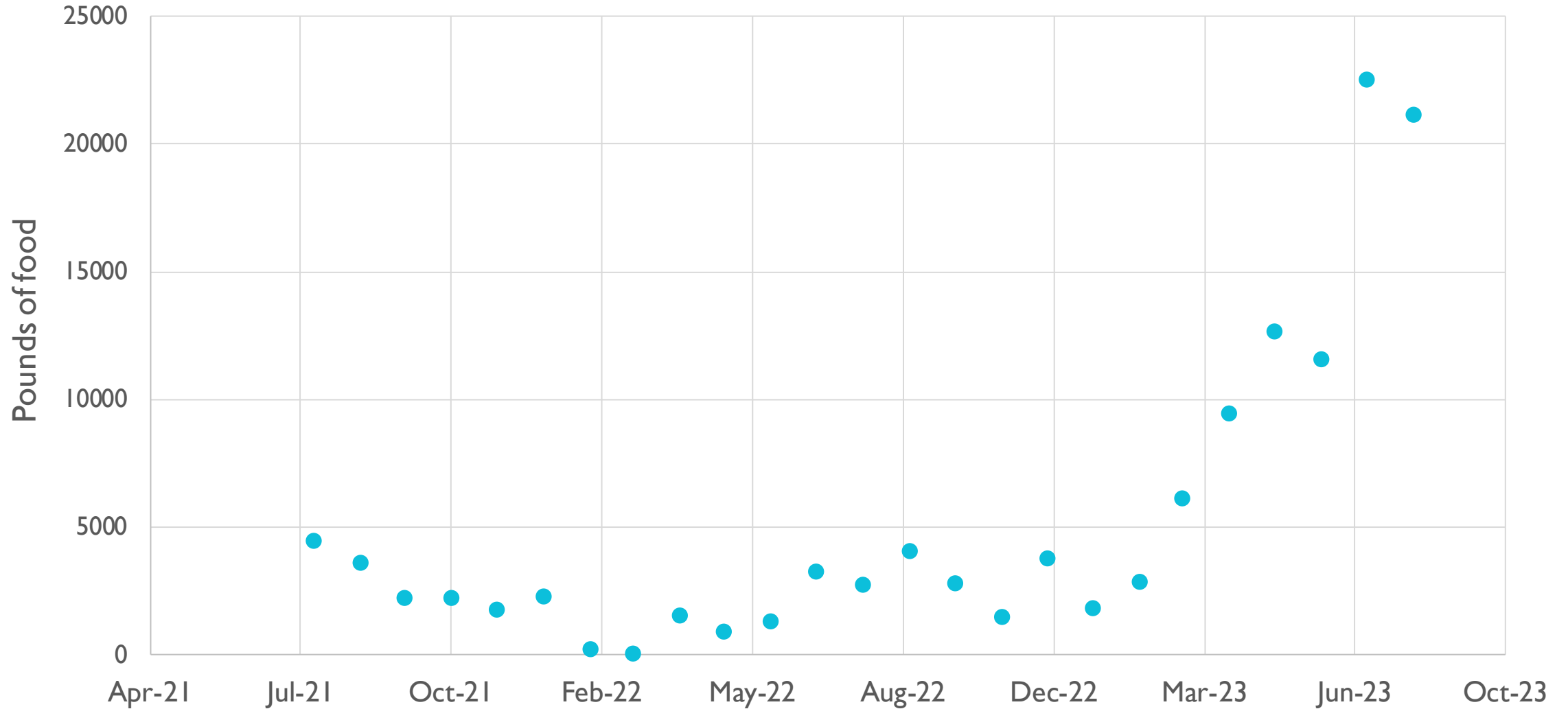








Food Rescued Over Grant Project



California Chief Service Officer Fryday, Zero Waste Sonoma and Conservation Corps North Bay Highlight Historic Youth Investment in Sonoma County

\$2.5 million #CaliforniansForAll Youth Jobs Corps investment to help youth gain real-world work experience and uplift their community



LESSONS LEARNED

- Strong, positive relationships are key to success
- Flexibility + willingness to learn and listen build trust
- Existing food recovery organizations have a wealth of experience and knowledge
- Be open about sharing data, resources, and opportunities
- Always keep collaboration and partnership in mind

NEXT STEPS

- Cal Volunteers grant \$2.5 mill expires spring 2024; extension to Dec 2024 likely
- USDA grant \$298,500 (regional food coordinators + carbon sequestration)
- Fee for service model to be worked out
 - Anticipated decrease in participation and food rescued
- Careit software <https://careit.com/>
- Technical assistance with Cascadia: 1.5-year project for \$494,750 to help Tier I and II Commercial Generators start and troubleshoot food donation

QUESTIONS?

XINCI TAN

XINCI.TAN@SONOMA-COUNTY.ORG

(707) 837-6134



Agenda Item #: 10
Staff Contact: Lukacs
Agenda Date: November 16, 2023
Approved By: LL

ITEM: Authorization to enter into Purchase and Sale Agreement to acquire approximately 3.5 acres located at 5871-5895 Pruitt Ave, Windsor, CA

I. RECOMMENDED ACTION / ALTERNATIVES TO RECOMMENDATION

- A) Authorize the Executive Director to execute a Purchase and Sale Agreement, subject to specified terms and conditions summarized below, to acquire approximately 3.5 acres located at 5871-5895 Pruitt Ave., Windsor (“Property”),
- B) Authorize the Executive Director to take all actions and execute all agreements and instruments required and recommended to facilitate and complete the proposed acquisition, including agreements for due diligence, escrow instructions, and related transactional documents, in a form approved by Agency Counsel.
- C) Determine that the proposed acquisition of the Property is not a project under the California Environmental Quality Act (“CEQA”).
- D) Approve the budget adjustment to approve appropriations from the Contingency Reserve and Debt Servicing Reserve to procure the property

II. BACKGROUND

Over the last several years, Zero Waste Sonoma (ZWS) staff and the Board have expressed concern that the northern portion of Sonoma County has less access to household hazardous waste (HHW) programs. Similarly, the existing Permanent HHW Facility at the Central Landfill is operating at full capacity with no room to expand or collect e-waste. In an effort to address these concerns, ZWS entered into an agreement with Sweetser & Associates, Inc. on August 18, 2017 to perform an expansion analysis of the HHW program. The expansion analysis was provided to the Board on June 20, 2018 and confirmed that the northern part of the county is underserved by current HHW programs; specifically, the Santa Rosa, Windsor, Healdsburg, Geyserville, and Cloverdale areas. Sweetser & Associates, Inc. suggested adding a second permanent HHW facility which could become the main HHW facility in the county and take more items than the existing facility including e-waste and potentially other recyclable items such as carpet, mattresses, solar panels, and CRV. Resource intensive HHW Collection Events (which cost roughly \$18,000 per stand-alone event) could also be reduced in frequency, allowing residents along the Highway 101 corridor to utilize a new permanent facility and offset some of the costs of the new facility. To that end, ZWS has been looking for potential property to acquire in the northern portion of the County that could be used in the future to provide a permanent HHW facility, as well as for other potential uses. While ZWS does not have firm plans for a facility at this time, ZWS was presented with the opportunity to acquire the Property in the Northern part of the County that could be suitable for ZWS’s future needs.

III. DISCUSSION

Zero Waste Sonoma entered into negotiations with the landowners (“Sellers”) to purchase the approximate 3.5-acre Property for a purchase price of \$3,000,000. The Property known as Sonoma County Assessor’s Parcel APN 059-271-082, consists of a parcel of approximately 3.5 acres, is improved with [5871 Pruitt Avenue, approximately 1,000 sq. ft.; 5873 Pruitt Avenue, approximately 4,287 sq. ft.; 5891 Pruitt Avenue, approximately 3,456 sq. ft.; and 5895 Pruitt Avenue, approximately 1,984 sq. ft.]).

On October 19, 2023, the Board approved publication of a Notice of Intent to acquire the Property, which provided that a public hearing would be held at this meeting on November 16 for the purpose of approving the Purchase and Sale Agreement (“PSA”).

Staff and the Sellers’ representative have agreed to tentative terms of the PSA, which include the following:

- Purchase price of \$3,000,000, paid as follows: a deposit in the amount of 3% (\$90,000) within 10 days of the effective date.
- Feasibility Period: ZWS will have 60 days to conduct a Due Diligence Investigation regarding the physical condition of the Property, including the land and the improvements, governmental matters affecting the property (e.g., zoning), verification of financial information, review of the title history on the property, and any other matters pertaining to an investment in the Property. During the Feasibility Period, Seller will provide certain information and documents for review. ZWS will also conduct its own investigation, in addition to activities that have already been undertaken, which included obtaining the reports included here as Attachments 4-6.
- Certain representations and warranties regarding the Property based on the Seller’s knowledge.
- A disclaimer of warranties and a provision that ZWS would acquire the Property “as is”.
- An Assumption and Release provision that limits Seller’s liability and releases certain claims that could arise from the transaction.
- Closing would occur within ten (10) days after expiration of the Feasibility Period.

Based on the Board’s authorization to publish a Notice of Intent, a Notice of Intent was published in accordance with Government Code Section 25350.

IV. ENVIRONMENTAL

Agency staff has reviewed the Purchase and Sale Agreement and activities related to acquisition of the Property with respect to the applicability of the California Environmental Quality Act (Public Resources Code Section 21000 et seq.) (“CEQA”). Agency staff has determined that the acquisition of the Property is not a project subject to CEQA because: (1) the conveyance does not authorize any actions that may directly or indirectly impact the environment; (2) the Purchase and Sale Agreement does not approve or commit the Agency to approving any future development; and (3) the Agency has and will make any proposed

future development subject to appropriate review under CEQA. The approval of the Purchase and Sale Agreement and acquisition of the Property is therefore exempt from further review under CEQA pursuant to State CEQA Guidelines Section 15004(b)(2) and 15060(c)(3), because it is not approval of a project as defined by the CEQA Guidelines, Section 15378. Nothing in the Resolution or approval of the Purchase and Sale Agreement shall be construed to commit the Agency to a particular course of action. Accordingly, staff is directed to file a Notice of Exemption.

V. FUNDING IMPACT

The purchase of this property will be funded through the use of the Contingency Fund (\$2,000,000) and the Debt Servicing Reserve Fund (\$1,000,000)

VI. ATTACHMENTS

1. Resolution
2. Purchase and Sale Agreement
3. Map
4. Feasibility Study by Aptim Environmental & Infrastructure, LLC and Edgar & Associates
5. Limited Phase II Environmental Assessment by Aptim Environmental & Infrastructure, LLC
6. Bridge Visual Assessment by Biggs Cardosa Associates, Inc

Dated: November 16, 2023

RESOLUTION OF THE SONOMA COUNTY WASTE MANAGEMENT AGENCY, ALSO KNOWN AS ZERO WASTE SONOMA (“AGENCY”) AUTHORIZING A PURCHASE AND SALE AGREEMENT FOR THE ACQUISITION OF REAL PROPERTY

WHEREAS, the Agency desires to purchase property as a potential site for future use consistent with the Agency’s purpose and operations;

WHEREAS, the Agency has identified the property located at and commonly known as 5871-5895 Pruitt Ave, Windsor, CA (APN 059-271-082), as a potential site for the Agency’s future use;

WHEREAS, the owners of the Property are DAVID M. CARROLL, as Trustee of the David M. Carroll Revocable Trust UDT dated March 22, 1996 as amended, as to an undivided fifty percent (50%) tenant-in-common interest, and JOHN M. SHEA II, as Trustee of the Shea Family Trust, dated June 19, 2009, as to an undivided fifty percent (50%) tenant-in-common interest (collectively, the “Seller”), and Seller desires to sell the Property;

WHEREAS, Agency staff have conducted negotiations with the Seller regarding a potential purchase of the Property and, based on direction from the Agency’s Board on October 19, 2023, Agency staff finalized a tentative agreement with the Seller to present to the Agency for consideration and approval;

WHEREAS, Agency Staff recommends the board approve the budget appropriations to Debt Servicing 66111300-78113-19831 for \$1,000,000 and Contingency Reserves 66110900-78109-19831 for \$2,000,000.

WHEREAS, Agency staff caused to be published a Notice of Intent to acquire the Property in accordance with Government Code section 25350;

WHEREAS, the approval the Purchase and Sale Agreement and consummation of the transaction contemplated thereby is not a “project” under the California Environmental Quality Act (Public Resources Code Section 21000 et seq.) (“CEQA”); and,

WHEREAS, the Agency determines that the acquisition of the Property in accordance with the terms and conditions set forth in the Purchase and Sale Agreement tentatively agreed to by Agency Staff and Seller would benefit the Agency and its constituent members, in accordance with the Agency’s governing Joint Exercise of Powers Agreement for the Sonoma County Waste Management Agency Powers.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the Sonoma County Waste Management Agency does hereby resolve and find as follows:

Section 1. **Recitals.** The Recitals set forth above are true and correct and are incorporated into this Resolution by this reference.

Section 2. **Findings.** The acquisition of the Property pursuant to the Purchase and Sale Agreement is authorized by the Joint Exercise of Powers Agreement for the Sonoma County Waste Management Agency, as amended and restated as of March 1, 2017, and applicable state law, and consistent with the Agency's authorized purposes.

Section 3. **CEQA Compliance.** Agency staff has determined that the approval of the Purchase and Sale Agreement and consummation of the transaction is not approval of a project under CEQA because: (1) the conveyance does not authorize any actions that may directly or indirectly impact the environment; (2) the Purchase and Sale Agreement does not approve or commit the District to approving any future development; and (3) the District has and will make any proposed future development subject to appropriate review under CEQA. The approval of the Purchase and Sale Agreement and acquisition of the Property are therefore exempt from further review under CEQA pursuant to State CEQA Guidelines Section 15004(b)(2) and 15060(c)(3), because it is not approval of a project as defined by the CEQA Guidelines, Section 15378. Accordingly, the Agency Clerk is authorized and directed to file a Notice of Exemption with the appropriate official of the County of Sonoma, California, within five (5) days following the date of adoption of this Resolution.

Section 4. **Approval of Agreement.** The Agency's Board of Directors hereby approves the Purchase and Sale Agreement, in substantially the form attached to this Resolution as Exhibit A, and authorizes the Agency's Executive Director to sign and enter into the Purchase and Sale Agreement, and all agreements related thereto, and to take any other actions required to effectuate the purpose of the Purchase and Sale Agreement, provided, however, that the deadline to remove any contingencies shall occur on or after January 19, 2024.

Section 5. **Severability.** If any provision of this Resolution or the application of any such provision to any person or circumstance is held invalid, such invalidity shall not affect other provisions or applications of this Resolution that can be given effect without the invalid provision or application, and to this end the provisions of this Resolution are severable. The Board of Directors declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion of this Resolution.

Section 6. **Certification.** The City Clerk of the City of Ontario shall certify to the adoption of this Resolution.

Section 7. **Effective Date.** This Resolution shall become effective immediately upon its adoption.

MEMBERS:

--
Cloverdale --
 Cotati --
 County --
 Healdsburg --
 Petaluma

--
Rohnert Park --
 Santa Rosa --
 Sebastopol --
 Sonoma --
 Windsor

AYES: -- NOES: -- ABSENT: -- ABSTAIN: --

SO ORDERED

The within instrument is a correct copy
of the original on file with this office.

ATTEST: DATE: November 16, 2023

Clerk of the Sonoma County Waste Management Agency
Agency of the State of California in and for the
County of Sonoma

EXHIBIT A
PURCHASE AND SALE AGREEMENT
(SEE FOLLOWING PAGES)

PURCHASE AND SALE AGREEMENT AND JOINT ESCROW INSTRUCTIONS

This Purchase and Sale Agreement and Joint Escrow Instructions (this “**Agreement**”) is made as of _____, 2023 (the “**Effective Date**”), between DAVID M. CARROLL, as Trustee of the David M. Carroll Revocable Trust UDT dated March 22, 1996 as amended, as to an undivided fifty percent (50%) tenant-in-common interest, and JOHN M. SHEA II, as Trustee of the Shea Family Trust, dated June 19, 2009, as to an undivided fifty percent (50%) tenant-in-common interest, (collectively, “**Seller**”), and SONOMA COUNTY WASTE MANAGEMENT AGENCY, a California joint powers authority (“**Buyer**”).

ARTICLE 1. AGREEMENT OF SALE.

Subject to and on the terms and conditions of this Agreement, Seller shall sell to Buyer and Buyer shall purchase from Seller all of the following (collectively, the “**Property**”):

1.1 Land. The real property which is located at and commonly known as 5885 Pruitt Avenue, Windsor, California (APN 059-271-082), and more particularly described in Exhibit A, together with all of Seller’s right, title and interest in and to (a) all privileges, rights, easements and appurtenances belonging to the real property, including without limitation all minerals, oil, gas and other hydrocarbon substances on and under the real property, (b) all development rights, air rights, water, water rights and water stock relating to the real property, and (c) any streets, alleys, passages, other easements and other rights-of-way or appurtenances included in, adjacent to or used in connection with such real property, before or after the vacation thereof (collectively, the “**Land**”);

1.2 Improvements. Any and all structures, systems, facilities, fixtures, fences and parking areas located on the Land and any and all machinery, equipment, apparatus and appliances used in connection with the operation or occupancy of the Land (such as heating and air conditioning systems and facilities used to provide utility services, refrigeration, ventilation, garbage disposal or other amenities on the Land) and other improvements located upon the Land, including, but not limited to the following improvements: 5871 Pruitt Avenue (approximately 1,000 square feet); 5873 Pruitt Avenue (approximately 4,287 square feet); 5891 Pruitt Avenue (approximately 3,456 square feet); and 5895 Pruitt Avenue (approximately 1,984 square feet), all located in Windsor, California (collectively, the “**Improvements**”);

1.3 Personal Property. All of Seller’s right, title and interest in and to any personal property located within or used in connection with the Property, including, without limitation, that described in the Personal Property Inventory attached hereto as Exhibit B (collectively, the “**Personal Property**”); and

1.4 Other Assets. To the extent owned by Seller, all tangible and intangible assets of any nature relating to the Property or the Personal Property, including without limitation (a) all warranties upon the Improvements or Personal Property, to the full extent such warranties are assignable, (b) copies of all plans, specifications, engineering drawings and prints relating to the

construction of the Improvements, (c) all license agreements, copyrights, logos, designs, trademarks, trade names, service marks and all goodwill associated with the Property, (d) all other intellectual or intangible property used by Seller in connection with the Property; and (e) all claims and causes of action arising out of or in connection with the Property.

ARTICLE 2. PURCHASE PRICE.

2.1 Amount. The purchase price (the “**Purchase Price**”) for the Property shall be Three Million Dollars (\$3,000,000.00).

2.2 Deposit/Purchase Price. Within ten (10) business days after the Effective Date, Buyer shall deposit three percent (3%) of the Purchase Price into an interest bearing account held by Escrow Holder (the “**Deposit**”), such Deposit to be held in escrow by Escrow Holder on behalf of the Buyer. The deposit shall be refundable to Buyer unless Buyer waives (or is deemed to have waived) all contingencies by the expiration of the Feasibility Period (defined below). If the Closing of the transaction contemplated by this Agreement occurs, the Deposit shall be disbursed to Seller and applied to the Purchase Price at Closing. The failure of Buyer to make the Deposit within the time frame specified in this Section shall be a material breach of this Agreement and Seller may terminate the Agreement. Buyer shall pay the Purchase Price to Seller through escrow at the Closing described in Section 9.1. On or before the Closing Date (as defined below), Buyer shall deposit into escrow with Escrow Holder the Purchase Price, subject to adjustment by reason of any applicable prorations and the allocation of closing costs described below. The Deposit and Purchase Price shall be made by wire transfer of federal funds, cashiers check or in another immediately available form. Notwithstanding anything herein to the contrary, One Hundred Dollars (\$100.00) of the Deposit (the “**Independent Consideration**”) shall not be refundable to Buyer, but shall represent consideration for this Agreement and shall be paid to Seller. The Independent Consideration shall be paid to Seller within three (3) days of the Effective Date. The Independent Consideration shall serve as consideration for the granting of the time periods herein contained for Buyer to exercise Buyer’s right to satisfy and approve all of Buyer’s conditions herein contained. If the Deposit is refunded to Buyer for any reason pursuant to this Agreement, the Independent Consideration shall be subtracted from the Deposit pursuant to this Section.

ARTICLE 3. DUE DILIGENCE.

3.1 Feasibility Period; Inspection and Access.

3.1.1 Feasibility Period. The “**Feasibility Period**” means the period beginning on the Effective Date and ending at 5:00 p.m. on the date sixty (60) days later.

3.1.2 Access to Information and the Property. Buyer shall conduct its investigation of the Property during the Feasibility Period at no cost to Seller. Subject to Sections 3.1.3 and 3.1.4 below, this investigation (“**Due Diligence Investigation**”) may include, at Buyer’s option: a physical inspection of the Land and all Improvements thereon, including environmental (Phase I and/or Phase II), soil, geological and other tests, engineering evaluations of the mechanical, electrical, HVAC and other systems in the Improvements and review of the Plans; review of all governmental matters affecting the Property, including zoning,

environmental and building permit and occupancy matters; review and verification of all financial and other information previously provided by Seller relating to the operation of the Property; review of the condition of title to the Property, including the building, structural system and roof inspection; and review of such other matters pertaining to an investment in the Property as Buyer deems advisable. In addition to the Preliminary Documents delivered to Buyer pursuant to Section 3.2, Buyer and its representatives shall have the right of access during reasonable business hours to all files, books and records maintained by Seller or its agents (including, without limitation, all of the Additional Documents to be made available to Buyer at the Property pursuant to Section 3.3), wherever located, relating to the Property, including the right to copy the same. Buyer and its representatives shall also have the right of access to the Property during reasonable business hours to conduct its investigation of the physical condition of the Property. Seller agrees that the rights granted to Buyer herein and the results of its Due Diligence Investigation shall not relieve Seller of any obligations Seller may have under any other provisions of this Agreement, or under other documents entered into concurrently herewith, or implied by law, nor shall they constitute a waiver by Buyer of the right to enforce any of the same. Seller shall reasonably cooperate with Buyer in its due diligence activities and provide access to the Property (subject to the rights of tenants under the Leases (defined below)), its records, or provide information so long as it is within Seller's possession or control.

3.1.3 Buyer will advise Seller in advance of the dates of all tests and investigations and will schedule all tests and investigations during normal business hours whenever feasible unless otherwise requested by Seller. Seller will have the right to have a representative of Seller accompany Buyer and Buyer's representatives, agents or designees while they are on the Property. Buyer's investigations shall not interfere with Seller's (or any tenant's) use of the Property during the course of any entry or investigation/testing. Buyer shall obtain Seller's prior written consent, which consent may be given in Seller's sole and absolute discretion, prior to performing any invasive testing on the Property (including any Phase II assessment), provided that Seller's prior written consent is not required for any inspections or investigations by Buyer to which Seller has already provided its consent in accordance with the terms and conditions of that certain Access Agreement dated on or about August 16, 2023, by and between Buyer and Seller. Buyer will indemnify, defend and hold Seller harmless for, from and against any and all claims, damages, costs, liabilities and losses (including mechanics' liens) arising out of any entry onto the Property by Buyer or its agents, designees or representatives, whether occurring before, on, or after the Effective Date.

3.1.4 Prior to any entry or testing, Buyer will obtain, maintain and provide Seller, and shall cause any consultant, contractor or other third party entering the Property on behalf of Buyer to obtain, maintain and provide Seller, with proof of comprehensive general liability insurance in the amount of at least \$2,000,000.00 combined, single limit coverage, naming Seller as an additional insured and with coverages reasonably satisfactory to Seller. The insurance required above shall (i) specifically cover the liability assumed by Buyer under this Agreement, including, but not limited to, Buyer's indemnification obligations hereunder, (ii) be issued by an insurance company having a rating of not less than A X in Best's Insurance Guide or which is otherwise acceptable to Seller and licensed to do business in the State of California, (iii) be primary insurance as to all claims thereunder and provide that any insurance carried by Seller is excess and is non-contributing with any insurance carried by Buyer, and (iv) contain a cross-liability endorsement or severability of interest clause for the benefit of Seller. Buyer shall

deliver a copy of the required policy or policies or customary certificates thereof, along with original copies of all applicable additional insured endorsements, to Seller before any entry or testing.

3.2 Delivery of Preliminary Documents. Within five (5) business days after the Effective Date, Seller shall deliver to Buyer (or order, as applicable), at Seller's expense, all of the documents described in the remaining subsections of this Section 3.2 (collectively, the "**Preliminary Documents**") to the extent such documents are in Seller's possession or under Seller's control, except in no event shall the Preliminary Documents include nor shall Seller be required to provide to Buyer (i) any confidential internal memorandum of Seller with respect to the Property or other documents relating to Seller (including, without limitation, internal financial reports, corporate/partnership/membership documents, and tax returns), (ii) any appraisals of the Property or any portion thereof, (iii) any offers or solicitations to purchase or sell the Property, (iv) any loan documents of Seller or any correspondence between Seller and Seller's lenders, and (v) any information which is privileged, confidential or proprietary, including, but not limited to, internal memoranda, analyses and business plans, financial information, and correspondence and other materials to or from Seller's attorneys, Seller's affiliates and potential third party buyers. Buyer expressly agrees that Seller is furnishing copies of all Preliminary Documents and information to Buyer for informational purposes only and, except as expressly set forth in Article 5 below, without representation or warranty as to the accuracy or completeness of the contents of such materials. Buyer covenants and agrees that it will not rely on such Preliminary Documents and information and will conduct its own due diligence on all matters referred to in such Preliminary Documents and information, or otherwise relating to the Property.

3.2.1 Title Report and Survey. Within five (5) business days after the Effective Date, Seller shall order a preliminary title report or commitment for title insurance (the "**Preliminary Title Report**") from Chicago Title Insurance Company (the "**Title Company**"), to be dated no earlier than ten (10) days before the Effective Date, covering the Property, together with a legible copy of each document, map and survey referred to in the Preliminary Title Report. Buyer, at Buyer's sole cost, may obtain an as-built survey of the Property (the "**Survey**") prepared by a certified land surveyor in accordance with the most recent American Land Title Association standards, certified by such surveyor to Buyer and the Title Company in a form acceptable to the Title Company for the purpose of deleting any survey exception from the Title Policy described in Section 4.1.3;

3.2.2 Plans. Copies of all as-built plans and specifications for the Improvements, including without limitation the plans and specifications for and a complete description of all existing renovations and improvements to the Property and all rentable space therein, and as-built drawings for all underground utilities (collectively, the "**Plans**");

3.2.3 Soils Report. Any soils report on the Land prepared at Seller's request or in the possession or control of Seller, including (if available) a report on compliance with any soils work recommended to be done prior to construction of the Improvements;

3.2.4 Engineers' Reports. Any structural, mechanical, environmental or geological reports concerning the Property which have been prepared at Seller's request or which are within Seller's possession or control;

3.2.5 Operating Statements; Tax Bills. Copies of operating statements for the Property certified by Seller including an itemization of income and expenses and copies of all real property tax bills for the Property for such periods;

3.2.6 Licenses, Etc. Copies of any licenses, permits or certificates required by governmental authorities in connection with construction or occupancy of the Improvements, including, without limitation, building permits, certificates of completion, certificates of occupancy and environmental permits and licenses;

3.2.7 Inspection Reports. Copies of all written reports received by Seller prior to the Effective Date from Seller's insurance companies, any governmental agency or any other person or entity, which requires or demands correction of any condition, or requests modification in or termination of any uses of the Property; and

3.2.8 Reclamation Obligations. Any and all documentation and agreements concerning any reclamation obligations.

3.3 Additional Documents and Information. From the Effective Date through the Closing Date, Seller shall make available to Buyer at the Property in accordance with Section 3.1, the documents and information described in this Section 3.3 (collectively, the "**Additional Documents**") to the extent such documents and information are in Seller's possession or under Seller's control:

3.3.1 Agreements. Copies of written, and written descriptions of oral, easements, covenants, restrictions, agreements, contracts and other documents, whether existing or, to the knowledge of Seller, proposed as of the Effective Date, including without limitation any agreements relating to the insurance, service, operation, repair, supply, advertising, promotion, sale, leasing or management of the Property, which (a) affect the Property, (b) are not disclosed by the Preliminary Title Report, and (c) have not been delivered to Buyer pursuant to Section 3.2; all current leases for space on the Property ("**Leases**"), together with any written claims, demands or notices made or given by any tenant under a Lease, shall be provided to Buyer in accordance with this subsection;

3.3.2 Warranties/Roof Inspections/HVAC Inspections. Copies of any and all guarantees or warranties and other rights given to Seller in connection with the construction, maintenance, repair or remodeling of the Improvements, periodic inspections, or the purchase of any of the Personal Property;

3.3.3 Insurance Policies. Copies of certificates evidencing the insurance carried by Seller of the Property, if any;

3.3.4 Other Documents. All data, correspondence, documents, agreements, waivers, notices, applications and other records with respect to the Property relating to

transactions with taxing authorities, governmental agencies, utilities, vendors and others with whom Buyer may be dealing from and after the Closing Date; and

3.3.5 Requested Information. Such other documents and information concerning the Property as Buyer may reasonably request.

3.4 Tenant Estoppel Certificate. Seller shall deliver or cause to be delivered to Buyer an estoppel certificate, on a form approved by Buyer, with respect to each tenant of the Property, which certificate shall be executed by the applicable tenant and dated not more than thirty (30) days prior to the Closing Date (collectively, the “**Tenant Estoppel Certificate**”).¹

3.5 Approval/Disapproval of Due Diligence Investigations. Buyer shall approve or disapprove the results of Buyer’s Due Diligence Investigation, in the exercise of Buyer’s sole discretion, by written notice delivered to Seller no later than the expiration of the Feasibility Period. Buyer’s disapproval shall terminate this Agreement unless, at the time Buyer gives notice of its disapproval, Buyer also notifies Seller of Buyer’s desire to enter into negotiations with Seller for the purpose of reaching an accommodation concerning the disapproval. If Buyer so notifies Seller and the parties have not reached a written agreement satisfactory to both of them regarding the disapproval within ten (10) days after the date of the disapproval notice, Buyer, at its option, may either (a) elect to terminate this Agreement by so notifying Seller and recover the Deposit, or (b) elect to proceed with the transactions contemplated by this Agreement notwithstanding its earlier disapproval. If Buyer elects to terminate the Agreement, Buyer shall return to Seller all of the Preliminary Documents and Additional Documents previously delivered by Seller to Buyer within five (5) business days of such termination. If Buyer fails to deliver to Seller notice of its approval or disapproval of the results of its Due Diligence Investigation by the expiration of the Feasibility Period, Buyer shall be deemed to have approved such results.

3.6 Title Review.

3.6.1 Monetary Liens. At its expense, Seller shall remove all monetary liens on the Property at or prior to the Closing (collectively, “**Monetary Liens**”), including: (i) all delinquent taxes, bonds and assessments and interest and penalties thereon (it being agreed that Seller shall not be required to remove any non-delinquent taxes and assessments imposed by any governmental agency that are paid with the property taxes for the Property); and (ii) all other monetary liens to the extent created by Seller shown on the Preliminary Title Report (including judgment and mechanics’ liens, whether or not liquidated, and mortgages and deeds of trust, with Seller being fully responsible for any fees or penalties incurred in connection therewith).

3.6.2 Approval/Disapproval of Title Review. Buyer shall approve or disapprove of the Preliminary Title Report, the Survey and any exceptions to title shown thereon (other than Monetary Liens) in the exercise of Buyer’s sole discretion, within thirty (30) days of the later of (i) the Effective Date, or (ii) Buyer’s receipt of such Preliminary Title Report, together with copies of all documents referred to therein. If Buyer disapproves of any matters shown in the Preliminary Title Report, Buyer shall give Seller a written notice (“**Disapproval Notice**”)

¹ Please provide Buyer’s form of estoppel certificate for distribution to the tenants.

identifying the disapproved title matters (“**Disapproved Title Matters**”). With respect to any Disapproved Title Matters, other than Monetary Liens, Seller shall notify Buyer in writing (the “**Seller’s Notice**”) within ten (10) days after Seller’s receipt of the Disapproval Notice whether Seller will cause the Disapproved Title Matters to be removed or cured at or prior to Closing. If Seller elects not to remove or cure all Disapproved Title Matters, Buyer may, by written notice to Seller given within ten (10) days of Buyer’s receipt of Seller’s Notice, elect to either: (i) subject to satisfaction of the other conditions to Closing, close the purchase of the Property and take title subject to the Disapproved Title Matters which Seller elects not to remove or cure; (ii) terminate this Agreement in accordance with Section 9.6.1; or (iii) extend the title review period by a period of thirty (30) days (or such other period of time as may be agreed to by the parties), provided that in no event shall the title review period extend beyond the expiration of the Feasibility Period. In the event Buyer does not timely respond to Seller’s Notice, Buyer shall be deemed to have elected to close the purchase of the Property and to take title subject to the Disapproved Title Matters which Seller elected not to remove or cure as identified in Seller’s Notice.

3.6.3 Failure to Disapprove. If Buyer fails to notify Seller of its approval or disapproval of the Preliminary Title Report, the Survey or the exceptions shown thereon by the end of the Feasibility Period, then Buyer shall be deemed to have approved the same.

ARTICLE 4. CONDITIONS PRECEDENT.

4.1 Buyer’s Conditions. Buyer’s obligations under this Agreement are expressly subject to the timely fulfillment of the conditions set forth in this Section 4.1 on or before the Closing Date, or such earlier date as is set forth below. Each condition may be waived in whole or in part by Buyer by written notice to Seller.

4.1.1 Feasibility Approval. Buyer having approved of the results of its Due Diligence Investigation pursuant to Section 3.5.

4.1.2 Title Review. Buyer having approved of the results of its review of title pursuant to Section 3.6.

4.1.3 Title Policy. Seller having caused the Title Company to deliver to Buyer (a) a standard coverage ALTA Owner’s policy of title insurance, provided that Buyer may, at Buyer’s expense, obtain an extended coverage ALTA policy (“**Title Policy**”) (or at Buyer’s election a binder therefor) for the Property, or (b) the Title Company’s irrevocable commitment to issue such policy of title insurance, (including such coinsurance, reinsurance and endorsements as Buyer shall require), with liability equal to the Purchase Price showing fee title to the Property vested in Buyer and subject only to: (i) the matters and exceptions which were approved (or deemed approved) by Buyer pursuant to Section 3.5; (ii) the standard printed exceptions in the form of title policy called for; and (iii) any matters or exceptions caused solely by the acts or omissions of Buyer, its agents or employees (collectively, “**Conditions of Title**”). If Buyer elects to obtain any particular title insurance endorsements or an extended coverage ALTA policy, the additional premium and costs of any Survey for the extended coverage ALTA policy and the cost of any endorsements will be at Buyer’s sole cost and expense. Buyer’s election to obtain an extended coverage ALTA policy shall not delay the Closing (defined

below) and Buyer's inability to obtain an extended coverage ALTA policy or any such endorsements shall not be deemed to be a failure of any condition to Closing.

4.1.4 Performance of Covenants. Seller performing and complying in all material respects with all of the terms of this Agreement to be performed and complied with by Seller prior to or at the Closing.

4.1.5 Representations and Warranties. The representations and warranties of Seller set forth in Article 5 being true and accurate on the Closing Date, as if made on such date.

4.1.6 Non-Foreign Certification. Seller having executed and delivered to Buyer on or prior to the Closing Date a certification (the "**Non-Foreign Certification**"), substantially in the form of Exhibit C.

4.1.7 California Certification. Seller having furnished the residency certification required pursuant to Sections 18805 and 26131 of the California Revenue and Taxation Code ("**Form 593**") or having authorized Escrow Holder in writing to withhold from the Purchase Price the amounts required to be withheld by such Sections.

4.1.8 Tenant Estoppel Certificate. Buyer has received and approved of the executed Tenant Estoppel Certificate.

4.1.9 Board of Directors Approval. The Sonoma County Waste Management Agency Board of Directors ("**Board**") shall have given its unanimous consent and approval for the purchase of the Property, including the acceptance and approval of any environmental review performed on the acquisition of the Property pursuant to and in compliance with the California Environmental Quality Act and said approval shall not be subject to any condition that has not been duly satisfied or waived by the Board, or subject to any challenge, threatened or pending, as of the Closing Date and shall further be subject to the final review and approval by the Board of all financing related to the transactions contemplated by this Agreement.

4.1.10 Trust Certification. Seller having furnished any trust documentation or certifications reasonably required by Title Company to issue the Title Policy at Closing.

4.2 Seller's Conditions. Seller's obligations under this Agreement are expressly subject to the timely fulfillment of the conditions set forth in this Section 4.2 on or before the Closing Date, or such earlier date as is set forth below. Each condition may be waived in whole or part by Seller by written notice to Buyer.

4.2.1 Covenants. Buyer performing and complying in all material respects with all of the terms of this Agreement to be performed and complied with by Buyer prior to or at the Closing.

4.2.2 Representations and Warranties. The representations of Buyer set forth in Article 6 being true and accurate on the Closing Date, as if made on such date.

ARTICLE 5. SELLER'S REPRESENTATIONS AND WARRANTIES.

Subject to the Disclaimer of Warranties contained in Section 5.15, Seller hereby makes the following representations and warranties to Buyer with the understanding that each such representation and warranty is material and is being relied upon by Buyer:

5.1 Compliance. Seller has no knowledge, and has not received any written notice, that the Property, and the operation thereof, are in violation of any applicable laws, ordinances, rules, regulations, judgments, orders, covenants, conditions, restrictions, whether federal, state, local, foreign or private. Seller has not received any written request that Seller modify or terminate any use of the Property, or complaint from any tenant on the Property regarding a violation of federal, state, or local law.

5.2 Documents. All of the Preliminary Documents and the Additional Documents which have been delivered or made available to Buyer pursuant to Article 3, and all other documents delivered to Buyer by or on behalf of Seller are true, correct and complete copies of the documents in Buyer's possession or under Buyer's control.

5.3 Taxes and Condemnation. To the actual, current knowledge of Seller without duty of investigation, there are no presently pending or contemplated special taxes or assessments which will affect the Property. To the actual, current knowledge of Seller without duty of investigation, there are no presently pending or contemplated proceedings to condemn or demolish the Property or any part of it.

5.4 Licenses. To the actual, current knowledge of Seller, Seller has all required licenses, permits (including, without limitation, all building permits and occupancy permits), easements and rights-of-way which are required for the operation of the Property as presently conducted. Seller has no knowledge of any law or regulation of any governmental authority having jurisdiction which might require the Property to be improved beyond its present state.

5.5 Contracts/Leases/Occupancy Rights. To the actual, current knowledge of Seller without duty of investigation, as of the Closing Date there will be no contracts entered into by Seller or its property manager or leasing agent relating to the management, maintenance, leasing or operation of the Property, or, except as disclosed to Buyer in the Preliminary Documents, or the Additional Documents, any other contract that could reasonably be expected to affect the use of the Property. Schedule 5.3 contains the rent roll for the Property as of the Effective Date and specifies all Leases in effect on the Property as of the Effective Date. Except for parties identified as tenants on the Property, Seller has no knowledge of any other party who has or claims a right to occupancy, tenancy, or a license to use or enter the Property.

5.6 Service Contracts or Capital Expenditures. Seller shall be solely and exclusively responsible to pay all costs, liabilities, and obligations arising from Service Contracts that are not terminated prior to Close of Escrow pursuant to Section 8.5 of this Agreement and for any Capital Expenditures.

5.7 Litigation. To the actual, current knowledge of Seller without duty of investigation, there are no actions, suits, proceedings, judgments, orders, decrees or governmental investigations pending or threatened against the Property or Seller which could

affect the Property or the purchase, use or enjoyment thereof by Buyer, and no tenant of the Property or person claiming a right of possession is making a claim relating to the Property or transfer thereof.

5.8 Agreements with Governmental Authorities. To the actual, current knowledge of Seller without duty of investigation, there are no agreements with governmental authorities, agencies, utilities or quasi-governmental entities which affect the Property except those agreements which are identified in the Preliminary Title Report, those matters which are disclosed by the Survey, and those matters which have otherwise been disclosed to Buyer in the Preliminary Documents or the Additional Documents.

5.9 Hazardous Materials.

5.9.1 Definitions. For purposes of this Agreement:

(a) **“Environmental Law(s)”** means the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 U.S.C. Sections 9601, et seq., the Resource Conservation and Recovery Act of 1976, 42 U.S.C. Sections 6901 et seq., the Toxic Substances Control Act, 15 U.S.C. Sections 2601 et seq., the Hazardous Materials Transportation Act, 49 U.S.C. 1801 et seq., the Clean Water Act, 33 U.S.C. Sections 1251 et seq., The Safe Drinking Water and Toxic Enforcement Act of 1986 (Cal. H&S Code Sections 25249.5-25249.13), the Carpenter-Preseley-Tanner Hazardous Substance Account Act (Cal. H&S Code Sections 25300 et seq.), and the California Water Code Sections 1300, et seq., as said laws have been supplemented or amended to date, the regulations promulgated pursuant to said laws and any other federal, state or local law, statute, rule, regulation or ordinance which regulates or proscribes the use, storage, disposal, presence, cleanup, transportation or Release or threatened Release into the environment of Hazardous Material.

(b) **“Hazardous Material”** means any substance which is (i) designated, defined, classified or regulated as a hazardous substance, hazardous material, hazardous waste, pollutant or contaminant under any Environmental Law, as currently in effect or as hereafter amended or enacted, (ii) a petroleum hydrocarbon, including crude oil or any fraction thereof and all petroleum products, (iii) PCBs, (iv) lead, (v) asbestos, (vi) flammable explosives, (vii) infectious materials or (viii) radioactive materials.

(c) **“Release”** means any spilling, leaking, pumping, pouring, emitting, discharging, injecting, escaping, leaching, dumping or disposing into the environment of any Hazardous Material (including the abandonment or discarding of barrels, containers, and other receptacles containing any Hazardous Material).

5.9.2 Representations.

(a) Seller has not received any written notice of violation issued pursuant to any Environmental Law with respect to the Property or any use or condition thereof.

(b) To the actual, current knowledge of Seller without duty of investigation, neither Seller nor any other present or former owner of the Property has used,

handled, stored, transported, released or disposed of any Hazardous Material on, under or from the Property in violation of any Environmental Law.

(c) To the actual, current knowledge of Seller without duty of investigation, there is no Release of any Hazardous Material existing on, beneath or from or in the surface or ground water associated with the Property.

(d) To the actual, current knowledge of Seller without duty of investigation, all required permits, licenses and other authorizations required by or issued pursuant to any Environmental Law for the ownership or operation of the Property by Seller have been obtained and are presently maintained in full force and effect.

(e) To the actual, current knowledge of Seller without duty of investigation, there exists no writ, injunction, decree, order or judgment outstanding, nor any lawsuit, claim, proceeding, citation, directive, summons or investigation pending or threatened pursuant to any Environmental Law relating to (i) the ownership, occupancy or use of any portion of the Property by Seller or occupant or user of any portion of the Property or any former owner of any portion of the Property, (ii) any alleged violation of any Environmental Law by Seller or occupant or user of any portion of the Property or any former owner of any portion of the Property or (iii) the suspected presence, Release or threatened Release of any Hazardous Material on, under, in or from any portion of the Property.

5.10 Seller's Authority. Seller has the requisite power and authority to own and operate the Property and conduct its business where the same is now owned or operated. The execution, delivery and performance of this Agreement by Seller have been duly and validly authorized by all necessary action and proceedings, and no further action or authorization is necessary on the part of Seller (or its board of directors, shareholders, beneficiaries or successors in interest) in order to consummate the transactions contemplated herein. This Agreement and the other documents executed by Seller in connection herewith are legal, valid and binding obligations of Seller, enforceable in accordance with their respective terms. Neither the execution and delivery of this Agreement by Seller, nor performance of any of its obligations hereunder, nor consummation of the transactions contemplated hereby, shall conflict with, result in a breach of, or constitute a default under, the terms and conditions of the organizational documents pursuant to which Seller was organized, or any indenture, mortgage, deed of trust, agreement, undertaking, instrument or document to which Seller or any affiliate thereof is a party or is bound, or any order or regulation of any court, regulatory body, administrative agency or governmental body having jurisdiction over Seller.

5.11 Parking. Seller has received no written notice from any governmental agency that the parking spaces on the Property are in violation of law.

5.12 Zoning. Seller has received no written notice from any governmental agency that the Property is not in compliance with zoning requirements and laws.

5.13 Foreign Person. Seller is not a "foreign person" within the meaning of Section 1445(f) of the Internal Revenue Code.

5.14 No Employees. There are no on-site employees of Seller at the Property and Buyer shall have no obligation to employ or continue to employ any individual employed by Seller or its affiliates in connection with the Property.

5.15 Misstatements and Omissions. To Seller's actual, current knowledge, and without a duty to investigate, neither the representations and warranties made by Seller in this Article 5 nor elsewhere in this Agreement contain any untrue statement, except as may be disclosed to Buyer in the Preliminary Documents or the Additional Documents. To Seller's actual, current knowledge, and without a duty to investigate, except as disclosed to Buyer in the Preliminary Documents or the Additional Documents, Seller has no other documents in its possession, nor has any knowledge, which would contradict or negate any of its representations contained in this Agreement, or which contain material facts or issues affecting the Property.

5.16 Disclaimer of Warranties; "AS IS" Purchase. Buyer acknowledges that it will have had an opportunity to conduct its Due Diligence Investigation of the Property and will acquire the Property in its current condition based thereon. Buyer acknowledges and agrees that the Property is to be conveyed by Seller to Buyer "as is, with all faults," and substantially in its current condition. Buyer further acknowledges and agrees that, except for the representations and warranties by Seller set forth in this Section 5, the sale of the Property to Buyer is made without any warranty or representation of any kind by Seller, either express or implied or arising by operation of law, and Seller shall have no liability with respect to the nature, value, uses, habitability, merchantability, suitability, condition, design, operation, rents, financial condition or prospects, fitness for purpose or use, or the manner, construction, condition or state of repair or lack of repair of the improvements of the Property (or any part thereof), or any other aspect, portion or component of the Property whatsoever, it being specifically understood and agreed that Buyer shall have full opportunity, during the Due Diligence Investigation, to determine for itself the condition of the Property.

Buyer's Initials: _____

5.17 Assumption and Release.

5.17.1 EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, UPON CLOSING, BUYER ASSUMES THE RISK OF ALL ADVERSE MATTERS WITH RESPECT TO THE PROPERTY, INCLUDING ADVERSE PHYSICAL CONDITIONS, DEFECTS, CONSTRUCTION DEFECTS, ENVIRONMENTAL, HEALTH, SAFETY AND WELFARE MATTERS WHICH MAY NOT HAVE BEEN REVEALED BY BUYER'S INSPECTIONS. BUYER, ON BEHALF OF BUYER AND BUYER'S HEIRS, PERSONAL REPRESENTATIVES, OWNERS, MEMBERS, REPRESENTATIVES, PARTNERS, INVESTORS, EMPLOYEES, AGENTS AND EACH OF THEIR RESPECTIVE SUCCESSORS AND ASSIGNS AND ANYONE CLAIMING BY, THROUGH OR UNDER BUYER (COLLECTIVELY, INCLUDING BUYER, THE "**BUYER PARTIES**") HEREBY, TO THE MAXIMUM EXTENT PERMITTED BY LAW, FULLY AND IRREVOCABLY RELEASES SELLER AND SELLER'S AFFILIATES, PARENT COMPANIES AND SUBSIDIARIES, AND EACH OF THEIR RESPECTIVE EMPLOYEES, OFFICERS, DIRECTORS, SHAREHOLDERS, MEMBERS, PARTNERS REPRESENTATIVES, AGENTS, SERVANTS, ATTORNEYS, SUCCESSORS AND ASSIGNS (COLLECTIVELY,

INCLUDING SELLER, THE “**SELLER PARTIES**”) FROM ANY AND ALL CLAIMS, COSTS, LOSSES, LIABILITIES, OBLIGATIONS, LEGAL OR ADMINISTRATIVE ORDERS OR PROCEEDINGS, DAMAGES, PUNITIVE DAMAGES, EXPENSES, PENALTIES, FINES, DEMANDS, ACTIONS OR CAUSES OF ACTION AND JUDGMENTS (COLLECTIVELY, “**CLAIMS**”) THAT BUYER OR ANY OTHER BUYER PARTY MAY NOW HAVE OR HEREAFTER ACQUIRE AGAINST ANY SELLER PARTY AT LAW OR IN EQUITY, AND WHETHER KNOWN OR UNKNOWN AT THE TIME OF THIS AGREEMENT, ARISING FROM OR RELATED TO THE PHYSICAL, ENVIRONMENTAL, ECONOMIC OR LEGAL CONDITION OF THE PROPERTY, INCLUDING, WITHOUT LIMITATION, ALL CLAIMS IN TORT OR CONTRACT AND ANY CLAIM FOR INDEMNIFICATION OR CONTRIBUTION ARISING UNDER CERCLA, RCRA, OR ANY SIMILAR FEDERAL, STATE OR LOCAL STATUTE, RULE OR REGULATION, AND ALL OTHER TITLE OR DUE DILIGENCE MATTERS DESCRIBED IN THIS AGREEMENT.

5.17.2 THIS RELEASE INCLUDES CLAIMS OF WHICH BUYER IS PRESENTLY UNAWARE OR WHICH BUYER DOES NOT PRESENTLY SUSPECT TO EXIST WHICH, IF KNOWN BY BUYER, WOULD MATERIALLY AFFECT BUYER’S RELEASES SET FORTH ABOVE. BUYER SPECIFICALLY ACKNOWLEDGES THAT BUYER HAS HAD THE OPPORTUNITY TO CONSULT WITH LEGAL COUNSEL REGARDING THIS RELEASE AND HAS BEEN ADVISED BY BUYER’S LEGAL COUNSEL CONCERNING, AND HEREBY WAIVES, THE PROVISIONS OF CALIFORNIA CIVIL CODE SECTION 1542, WHICH PROVIDES AS FOLLOWS:

“A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS THAT THE CREDITOR OR RELEASING PARTY DOES NOT KNOW OR SUSPECT TO EXIST IN HIS OR HER FAVOR AT THE TIME OF EXECUTING THE RELEASE AND THAT, IF KNOWN BY HIM OR HER, WOULD HAVE MATERIALLY AFFECTED HIS OR HER SETTLEMENT WITH THE DEBTOR OR RELEASED PARTY.”

BUYER ALSO HEREBY EXPRESSLY WAIVES ANY RIGHT BUYER MAY HAVE UNDER ANY OTHER STATUTE OR COMMON LAW PRINCIPLE OF SIMILAR EFFECT IN CONNECTION WITH THE RELEASE GIVEN IN THIS SECTION.

5.17.3 IT IS UNDERSTOOD AND AGREED THAT THE PURCHASE PRICE HAS BEEN ADJUSTED BY PRIOR NEGOTIATIONS TO REFLECT THAT ALL OF THE PROPERTY IS SOLD BY SELLER AND PURCHASED BY BUYER SUBJECT TO THE FOREGOING. IT IS NOT CONTEMPLATED THAT THE PURCHASE PRICE WILL BE INCREASED IF COSTS TO BUYER ASSOCIATED WITH THE PROPERTY PROVE TO BE LESS THAN EXPECTED NOR WILL THE PURCHASE PRICE BE REDUCED IF THE BUYER’S PLAN FOR THE PROPERTY LEADS TO HIGHER COST PROJECTIONS.

5.17.4 THE PROVISIONS OF THIS SECTION SHALL INDEFINITELY SURVIVE THE CLOSING OR TERMINATION OF THIS AGREEMENT AND SHALL NOT BE MERGED INTO THE CLOSING DOCUMENTS.

5.17.5 NOTWITHSTANDING ANYTHING HEREIN TO THE CONTRARY, NOTHING IN THIS AGREEMENT IS INTENDED TO RELEASE, AND THE FOREGOING RELEASE SHALL NOT APPLY TO, ANY MATTERS ARISING FROM (I) SELLER'S FRAUD OR (II) A BREACH OF ANY OF SELLER'S EXPRESS REPRESENTATIONS, WARRANTIES, AND COVENANTS SET FORTH IN THIS AGREEMENT, INCLUDING BUT NOT LIMITED TO SECTIONS 5.1 THROUGH 5.15 ABOVE.

BY THEIR INITIALS BELOW, BUYER AND SELLER HEREBY AGREE THAT ALL OF THE FOREGOING PROVISIONS OF THIS SECTION CONSTITUTE MATERIAL CONSIDERATION TO SELLER PURSUANT TO THIS AGREEMENT AND THAT, BUT FOR SUCH AGREEMENTS BY BUYER, SELLER WOULD NOT ENTER INTO THIS AGREEMENT.

Buyer's initials

Seller's initials

ARTICLE 6. BUYER'S REPRESENTATIONS AND WARRANTIES.

Buyer makes the following representation and warranties to Seller with the understanding that each such representation and warranty is material and is being relied upon by Seller:

6.1 Buyer's Authority. The execution, delivery and performance of this Agreement by Buyer have been duly and validly authorized by all necessary action and proceedings, and no further action or authorization is necessary on the part of Buyer in order to consummate the transactions contemplated herein, except as specifically referenced herein.

6.2 No Conflict. Neither the execution nor delivery of this Agreement by Buyer, nor performance of any of its obligations hereunder, nor consummation of the transactions contemplated hereby, shall conflict with, result in a breach of, or constitute a default under, the terms and conditions of the organizational documents pursuant to which Buyer was organized, or any agreement to which Buyer is a party or is bound, or any order or regulation of any court, regulatory body, administrative agency or governmental body having jurisdiction over Buyer.

ARTICLE 7. SURVIVAL OF REPRESENTATIONS AND WARRANTIES AND INDEMNIFICATION.

7.1 Survival of Warranties. Buyer and Seller agree that each representation and warranty, covenant by the respective parties contained herein or made in writing pursuant to this Agreement are intended to and shall be deemed made as of the date of this Agreement or such writing and again at the Closing, shall be deemed to be material, and unless expressly provided to the contrary shall survive the execution and delivery of this Agreement, the Deed and the Closing. Notwithstanding the foregoing, the parties agree that (i) Seller's representations and warranties contained in Section 5 of this Agreement shall survive Closing for only for a period of one (1) year after the Closing Date (the "**Limitation Period**") and (ii) Buyer shall be entitled to recover its damages for breach of any of the representations and warranties only in the event its actual damages for such breach(es) exceed Twenty Five Thousand Dollars (\$25,000.00) in the

aggregate and in an amount which shall not exceed Two Hundred Fifty Thousand Dollars (\$250,000.00) in the aggregate, including any attorneys' fees and costs recovered pursuant to Section 11.9 of this Agreement. Buyer shall provide actual written notice to Seller of any breach of such representations and warranties and shall allow Seller thirty (30) days within which to cure such breach, or, if such breach cannot reasonably be cured within thirty (30) days, an additional reasonable time period, so long as such cure has been commenced within such 30-day period and diligently pursued. If Seller fails to cure such breach after receipt of actual written notice and within such cure period, Buyer's sole remedy shall be an action at law for damages as a consequence thereof, which must be commenced, if at all, within the Limitation Period; provided, however, that if within the Limitation Period Buyer gives Seller written notice of such a breach and Seller commences to cure and thereafter terminates such cure effort, Buyer shall have an additional thirty (30) days from the date of such termination within which to commence an action at law for damages as a consequence of Seller's failure to cure. The Limitation Period referred to herein shall apply to known as well as unknown breaches of such representations and warranties.

7.2 Notice of Changed Circumstances. If either party becomes aware of any fact or circumstances which would render false or misleading a representation or warranty made by such party, then it shall immediately give notice of such fact or circumstance to the other party, but such notice shall not relieve any party of any liabilities or obligations with respect to any representation or warranty.

ARTICLE 8. SELLER'S PRECLOSING COVENANTS.

Seller shall comply with the covenants contained in this Article 8 from the Effective Date through the Closing Date unless Buyer consents otherwise in writing. Except as otherwise set forth below, Buyer may grant or withhold any such consent requested by Seller in Buyer's sole discretion.

8.1 Contracts and Documents. Seller shall not, without Buyer's approval, not to be unreasonably withheld or delayed, (a) amend or waive any right under any Preliminary Document or Additional Document, or (b) enter into any material agreement of any type affecting the Property that would survive the Closing Date.

8.2 Insurance. Seller shall maintain or cause to be maintained in full force and effect its present insurance policies for the Property, if any.

8.3 Compliance with Obligations. Seller shall fully and timely comply with all obligations to be performed by it under, as applicable, any service contracts relating to the management, maintenance, operations, or leasing of the Property ("**Service Contract**"), if any, the Preliminary Documents, and Conditions of Title, and all permits, licenses, approvals and laws, regulations and orders applicable to the Property.

8.4 No Transfers. Seller shall not sell, encumber or otherwise transfer any interest in all or any portion of the Property, or agree to do so.

8.5 Termination of Contracts. Seller at its sole cost and expense shall terminate all of the Service Contracts described in Section 8.3, and any contracts for Capital Expenditures as described in Section 9.8.1, below, at or before the Closing Date.

8.6 Maintenance. At its sole cost and expense, Seller shall operate and maintain the Property such that on the Closing Date the Property shall be in at least as good a condition and repair as on the Effective Date, reasonable wear and tear excepted and subject to Article 10 below. Without limiting the generality of the foregoing, Seller shall, at a minimum, spend such amounts for repair and maintenance as are consistent with its prior practice. Seller shall promptly advise Buyer of any significant repair or improvement required to keep the Property in such condition. Seller shall not make any material alterations to the Property, or remove any of the Personal Property therefrom, without Buyer's prior consent, unless such Personal Property so removed is simultaneously replaced with new Personal Property of similar quality and utility.

8.7 Commercially Reasonable Efforts. Seller shall use commercially reasonable efforts to cause the conditions set forth in Section 4.1 to be satisfied by the Closing Date, and Seller shall not take or permit any action that would result in any of the representations and warranties set forth in Article 5 becoming false or incorrect.

ARTICLE 9. CLOSING.

9.1 Time. Provided all conditions set forth in Article 4 have been either satisfied or waived, the parties shall close this transaction (the "**Closing**"), on the date which is ten (10) days after the expiration of the Feasibility Period (the "**Closing Date**"), as such date may be extended by the provisions of Article 10.

9.2 Escrow. This Article 9, together with such additional instructions as Chicago Title Company ("**Title Company**"), Attention: Michael Singer, 725 S. Figueroa Street, Suite 200, Los Angeles, California 90017 ("**Escrow Holder**"), shall reasonably request and the parties shall agree to, shall constitute the escrow instructions to Escrow Holder. If there is any inconsistency between this Agreement and the Escrow Holder's additional escrow instructions, this Agreement shall control unless the intent to amend this Agreement is clearly stated in said additional instructions. Buyer and Seller shall cause Escrow Holder to execute and deliver a counterpart of this Agreement to each of them. If the Title Company does not serve as the Escrow Holder, the Title Company shall provide a letter to Buyer, in form and content acceptable to Buyer, pursuant to which the Title Company accepts responsibility and liability for the acts and omissions of Escrow Holder in discharging Escrow Holder's obligations hereunder, including, without limitation, any acts or omissions of Escrow Holder relating to the Title Company's commitment to issue the Title Policy, the receipt, recordation or delivery of any documents placed into escrow, and the receipt and disbursement of any funds placed into escrow.

9.3 Seller's Deposit of Documents and Funds Into Escrow. Seller shall deposit into escrow on or before Closing the following documents:

9.3.1 A duly executed and acknowledged grant deed, in the form attached as Exhibit F, conveying the Property to Buyer ("**Grant Deed**");

9.3.2 A duly executed bill of sale, in the form of Exhibit D, conveying the Personal Property to Buyer free and clear of liens, encumbrances and restrictions (“**Bill of Sale**”);

9.3.3 A duly executed assignment, in the form of Exhibit E, assigning to Buyer all of Seller’s interest (a) in the Plans, (b) in all warranties of which Seller is the beneficiary with respect to the Property, and (c) in all intangible assets of the Property (the “**General Assignment**”);

9.3.4 Transfer taxes (if any) and any other costs of Closing customarily paid by sellers of real property in Sonoma County, California, plus or minus prorations as provided in Section 9.8; provided that, subject to Section 9.6, Buyer and Seller shall bear their own attorneys’ fees and costs in connection with the negotiation and preparation of this Agreement and the transactions completed by this Agreement;

9.3.5 Seller’s Non-foreign Certification;

9.3.6 Such additional documents, including written escrow instructions consistent with this Agreement, as may be necessary or desirable for conveyance of the Property in accordance with this Agreement, provided that such additional documents shall neither materially increase Seller’s obligations, nor materially decrease Seller’s rights hereunder.

9.3.7 Assignment and Assumption of Leases;

9.3.8 Form 593;

9.3.9 If required by Title Company, Seller’s trust documentation or trust certificates;

9.3.10 Notice letter to tenants regarding new owner and addresses for payment of rent payment (“**Tenant Notice Letter**”).

9.4 Deliveries Outside of Escrow. Notwithstanding Section 9.3, Seller and Buyer may elect to deliver the documents described in Section 9.3 outside of escrow (other than documents which are to be recorded) by giving Escrow Holder a joint written notice of such election, specifying the documents which will be so delivered outside of escrow. Upon receipt of such notice, Escrow Holder shall have no further obligation concerning such specified documents.

9.5 Buyer’s Deposit of Documents and Funds. Buyer shall deposit into escrow:

9.5.1 Buyer’s acceptance of the Grant Deed, as necessary to record same;

9.5.2 Buyer’s duly executed counterpart of the Assignment and Assumption of Leases;

9.5.3 The Purchase Price (less the Deposit) in accordance with the provisions of Article 2, plus the premium for the Title Policy and any endorsements thereto, recording fees (if

any), escrow fees, sales tax and any other costs of Closing customarily paid by buyers of real property in Sonoma County, California, plus or minus prorations as provided in Section 9.8; provided that, subject to Section 9.6, Buyer and Seller shall bear their own attorneys' fees and costs in connection with the negotiation and preparation of this Agreement and the transactions completed by this Agreement, plus or minus prorations as provided in Section 9.8 below, by electronic transfer of federal funds to Escrow Holder, on or before the Closing Date; and

9.5.4 Such additional documents, including written escrow instructions consistent with this Agreement, as may be necessary or desirable for conveyance of the Property in accordance with this Agreement.

9.6 Default, Termination and Remedies.

9.6.1 Buyer's Termination. This Agreement shall automatically terminate without further notice or action by Buyer upon the occurrence of any of the following events, provided that Buyer is not then in material breach of this Agreement: (a) any condition to Closing contained in Section 4.1 has not been satisfied or waived by Buyer by the Closing Date; or (b) Buyer having exercised its right to terminate this Agreement pursuant to Section 3.5 (disapproval of Due Diligence Investigation), Section 3.6 (disapproval of title) or Article 10 (damage or condemnation). In such event, the parties shall have no further obligation to each other except for those obligations that specifically survive the termination of this Agreement.

9.6.2 Seller's Termination. Provided that Seller is not then in material breach of this Agreement, this Agreement shall automatically terminate without further notice or action by Seller if any condition to Closing contained in Section 4.2 has not been satisfied or waived by Seller by the Closing Date.

9.6.3 Release from Escrow. Upon termination of this Agreement pursuant to Section 9.6.1 or 9.6.2, Escrow Holder shall promptly return to Buyer and Seller, respectively, all documents and monies deposited by them into escrow without prejudice to their rights and remedies hereunder.

9.6.4 Remedies.

(a) Buyer's Remedies. If the Closing does not occur by reason of material default by Seller, Buyer hereby agrees, as an election of remedies, that as its sole remedy Buyer will be entitled to: (i) the return of the Deposit and reimbursement by Seller of Buyer's reasonable out-of-pocket expenses incurred in connection with the transaction and due diligence regarding the Property, including but not limited to costs incurred prior to the Effective Date, which shall not exceed Two Hundred Fifty Thousand Dollars (\$250,000.00) in the aggregate, including any attorneys' fees and costs recovered pursuant to Section 11.9 of this Agreement, or (ii) enforce specific performance of this Agreement provided Buyer provides to Seller (a) written evidence of immediately available funds sufficient to consummate the purchase; and (b) commits, in writing, to deliver such funds to Title Company with irrevocable instructions to close the transaction ("**Buyer Notice**"); and (c) Seller fails or refuses to deposit the Grant Deed and documents required by Section 9.3 within five business days of receipt of the Buyer Notice. Notwithstanding the foregoing, no such proceeding for specific performance shall

require Seller to do any of the following (unless otherwise expressly required of Seller by this Agreement): (a) change the physical condition of the Property or restore the same after fire or other casualty; (b) expend money or post a bond to remove a title encumbrance or defect (other than as otherwise required herein) or correct any matter shown on a survey; or (c) secure any permit, approval or consent from any third party not affiliated with Seller with respect to the Property or Seller's conveyance of the Property and provided further that the remedy provided for in this Section shall be available to Buyer only if Buyer commences such proceeding within not more than 90 days after the scheduled Closing Date. Buyer's rights and Seller's obligations under this Section shall survive the termination of this Agreement. IN NO EVENT SHALL SELLER EVER BE LIABLE TO BUYER UNDER ANY STATUTORY, COMMON LAW, EQUITABLE OR OTHER THEORY OF LAW EITHER PRIOR TO OR FOLLOWING THE CLOSING FOR ANY LOST RENTS, SPECULATIVE PROFITS, BUSINESS OPPORTUNITIES OR ANY FORM OF CONSEQUENTIAL OR PUNITIVE DAMAGES IN CONNECTION WITH ANY CLAIM, LIABILITY, DEMAND OR CAUSE OF ACTION IN ANY WAY OR MANNER RELATING TO THE PROPERTY, THE CONDITION OF THE PROPERTY, THIS AGREEMENT, OR ANY TRANSACTION OR MATTER BETWEEN THE PARTIES CONTEMPLATED HEREUNDER. Notwithstanding the foregoing, nothing in this paragraph shall limit Buyer's right to recovery attorneys' fees or costs as allowed by this Agreement.

(b) Seller's Remedies/Liquidated Damages. IF BEFORE THE CLOSE OF ESCROW BUYER FAILS TO COMPLY WITH OR PERFORM BUYER'S OBLIGATIONS UNDER THIS AGREEMENT AND (EXCEPT AS OTHERWISE PROVIDED IN SECTION 9.6) DOES NOT CURE SUCH FAILURE WITHIN TEN BUSINESS DAYS AFTER SELLER'S WRITTEN NOTICE OF SUCH FAILURE, THEN SELLER MAY THEREAFTER: (I) TERMINATE THIS AGREEMENT; (II) RECEIVE AND RETAIN THE DEPOSIT AS LIQUIDATED DAMAGES IF SUCH DEFAULT OCCURS AFTER THE EXPIRATION OF THE FEASIBILITY PERIOD; AND (III) EXERCISE THE OTHER RIGHTS AND REMEDIES RESERVED BY SELLER AS PROVIDED IN THIS SECTION; PROVIDED, HOWEVER THAT THIS PROVISION WILL NOT WAIVE, LIMIT OR AFFECT ANY OF THE FOLLOWING ("NON-LIQUIDATED OBLIGATIONS"): (i) SELLER'S RIGHT TO RECEIVE REIMBURSEMENT FOR ATTORNEYS' FEES, (ii) BUYER'S RELEASE OBLIGATIONS UNDER THIS AGREEMENT, (iii) BUYER'S INDEMNITY OBLIGATIONS UNDER THIS AGREEMENT, (iv) SELLER'S RIGHTS AND REMEDIES ARISING UNDER OR WITH RESPECT TO BUYER'S RELEASE AND/OR INDEMNITY OBLIGATIONS UNDER THIS AGREEMENT, AND (v) BUYER'S OBLIGATIONS TO RETURN OR PROVIDE TO SELLER DOCUMENTS, REPORTS OR OTHER INFORMATION PROVIDED TO OR PREPARED BY OR FOR BUYER PURSUANT TO APPLICABLE PROVISIONS OF THIS AGREEMENT. IN THE EVENT SELLER TERMINATES THIS AGREEMENT BY REASON OF BUYER'S DEFAULT, BUYER AND SELLER SHALL BE RELIEVED OF ANY FURTHER OBLIGATION TO EACH OTHER WITH RESPECT TO THIS AGREEMENT AND THE PROPERTY EXCEPT FOR SELLER'S RIGHTS AND REMEDIES ARISING UNDER OR OUT OF THE NON-LIQUIDATED OBLIGATIONS, SELLER'S RIGHT TO COLLECT AND RETAIN BUYER'S DEPOSIT AS PROVIDED HEREUNDER, AND ANY OBLIGATIONS WHICH EXPRESSLY SURVIVE. IT IS EXPRESSLY UNDERSTOOD AND AGREED BY BUYER AND SELLER: THAT SELLER WILL INCUR SUBSTANTIAL DAMAGES AS A RESULT OF ANY

FAILURE BY BUYER TO COMPLY WITH OR PERFORM BUYER'S OBLIGATIONS UNDER THIS AGREEMENT; THAT IT IS EXTREMELY DIFFICULT AND IMPRACTICAL TO CALCULATE AND ASCERTAIN AS OF THE EFFECTIVE DATE OF THIS AGREEMENT THE ACTUAL DAMAGES WHICH WOULD BE SUFFERED IN SUCH EVENT BY SELLER; AND THAT THE DEPOSIT IS A REASONABLE ESTIMATE OF THE EXTENT TO WHICH SELLER MAY BE DAMAGED BY BUYER'S DEFAULT IN LIGHT OF THE DIFFICULTY THE PARTIES WOULD HAVE IN DETERMINING SELLER'S ACTUAL DAMAGES AS A RESULT OF SUCH DEFAULT BY BUYER (OTHER THAN SELLER'S RIGHTS AND REMEDIES ARISING UNDER OR OUT OF THE NON-LIQUIDATED OBLIGATIONS).

SELLER'S INITIALS

BUYER'S INITIALS

(c) Waiver of Specific Performance. SELLER HEREBY WAIVES THE RIGHT TO MAINTAIN AN ACTION FOR SPECIFIC PERFORMANCE OF BUYER'S OBLIGATION TO PURCHASE THE PROPERTY AND SELLER AGREES THAT SELLER CAN BE ADEQUATELY COMPENSATED IN MONEY DAMAGES IF BUYER FAILS TO PURCHASE THE PROPERTY IN BREACH OF THIS AGREEMENT. SELLER ACKNOWLEDGES THAT THE PROVISIONS OF THIS SECTION ARE A MATERIAL PART OF THE CONSIDERATION BEING GIVEN TO BUYER FOR ENTERING INTO THIS AGREEMENT AND THAT BUYER WOULD BE UNWILLING TO ENTER INTO THIS AGREEMENT IN THE ABSENCE OF THE PROVISIONS OF THIS SECTION.

SELLER'S INITIALS

BUYER'S INITIALS

9.7 Closing. When Escrow Holder has received all documents and funds identified in Sections 9.3 and 9.5, has received notification from Buyer and Seller that all conditions to Closing to be satisfied outside of escrow have been satisfied or waived and Title Company is irrevocably committed to issue the Title Policy, then, and only then, Escrow Holder shall:

9.7.1 Record the Grant Deed;

9.7.2 Cause the Title Company to issue the Title Policy to Buyer;

9.7.3 To the extent not otherwise delivered to Buyer outside of escrow, deliver to Buyer: (a) a conformed copy (showing all recording information thereon) of the Grant Deed; (b) fully executed original counterparts of the Bill of Sale, the General Assignment, Assignment and Assumption of Leases; and (c) the Seller's Certificate, the Service Contracts referred to in Section 9.3.6, the Non-foreign Certification;

9.7.4 Deliver the Purchase Price (as adjusted pursuant to Section 9.8) to Seller;

9.7.5 Deliver or mail Tenant Notice Letter to tenants for each Lease.

Escrow Holder shall prepare and sign closing statements showing all receipts and disbursements and deliver copies to Buyer and Seller and, if applicable, shall file with the

Internal Revenue Service (with copies to Buyer and Seller) the reporting statement required under Section 6045(e) of the Internal Revenue Code.

9.8 Prorations. Subject to the other provisions of this Section 9.8, all receipts and disbursements of the Property will be prorated as of 11:59 p.m. on the day immediately preceding the Closing Date. Not less than five business days prior to the Closing, Seller shall submit to Buyer for its approval a tentative prorations schedule showing the categories and amounts of all prorations proposed, including all rents and operating expenses. Security deposits shall be credited to Buyer from Seller proceeds. The parties shall agree on a final prorations schedule prior to the Closing and shall deliver the same to Escrow Holder. If following the Closing either party discovers an error in the prorations statement, it shall notify the other party and the parties shall promptly make any adjustment required. The parties agree that any trailing bills that pertain to the Property operations before the Closing Date, which are not available as of Closing, may be presented to Buyer for proration and reimbursement up to ninety (90) days after Closing. Failure to provide any bills by such date shall be a waiver by Seller of such reimbursement and Buyer shall have no further obligation for any such bills and Property expenses. This section 9.8 shall survive closing.

SELLER INITIALS

9.8.1 Capital Expenditures and Accounts Payable. All capital and other improvements (including labor and material) which have been performed or contracted for, by or on behalf of Seller prior to the Closing Date (“**Capital Expenditures**”), and all sums due for accounts payable which have been incurred with respect to the Property prior to the Closing Date shall be paid by Seller. Buyer shall furnish to Seller for payment any bills for such period received after the Closing Date, and Buyer shall have no further obligation with respect thereto. Seller’s obligations pursuant to this Section 9.8.1 shall survive the Closing.

9.8.2 Property Taxes. General real estate taxes, water or sewer rates and charges (if not metered), personal property taxes, or any other governmental tax or charge levied or assessed against the Property (collectively, the “**Taxes**”), relating to the Property and payable during the year in which Closing occurs shall be prorated between Seller and Buyer in Escrow. Upon recordation of the Grant Deed, Buyer will request cancellation of the real property taxes for the Property pursuant to California Revenue and Taxation Code Section 4986.

9.8.3 Utility Charges. All utility charges shall be prorated as of the Closing Date and Seller shall obtain a final billing therefor. All utility security deposits, if any, shall be retained by Seller.

9.9 Possession. Seller shall deliver exclusive right of possession of the Property to Buyer on the Closing Date, subject only to the Conditions of Title and the rights of tenants under the Leases.

ARTICLE 10. DAMAGE, DESTRUCTION AND CONDEMNATION.

This Agreement shall be governed by the Uniform Vendor and Purchaser Risk Act as set forth in Section 1662 of the California Civil Code as supplemented and modified by this Article 10. Seller shall promptly notify Buyer in writing of any material damage to the Property and of any taking or threatened taking of all or any portion of the Property. Within a reasonable period of time after receipt of such notice, Buyer shall determine whether a material part of the Property has been damaged or whether such taking or threatened taking has affected or will affect a material part of the Property. As used herein, (a) the destruction of a **“material part”** of the Property shall be deemed to mean an insured or uninsured casualty to the Property having an estimated cost of repair which in the reasonable judgment of Buyer equals or exceeds \$150,000.00 and (b) a taking by eminent domain of a portion of the Property shall be deemed to affect a **“material part”** of the Property if in the reasonable judgment of Buyer the estimated value of the portion of the Property taken exceeds \$150,000.00. Upon making its determination, Buyer shall notify Seller in writing of the results of such determination. Buyer may elect, by written notice delivered to Seller within thirty (30) days after giving Seller notice of such determination, to terminate this Agreement in accordance with Section 9.6.1 if a material part of the Property has been damaged or if such taking has affected or will affect a material part of the Property. If Buyer does not so terminate, (i) in the case of damage to a material part of the Property, Seller shall assign to Buyer at the Closing its right to recover under any insurance policies covering such damage and shall pay Buyer at the Closing the amount of the deductible, if any, and (ii) in the case of a threatened or actual taking of a material part of the Property, Seller shall assign to Buyer at the Closing Seller’s entire right, title and interest in the proceeds thereof. If between the Effective Date and the Closing Date the Property suffers damage which is not material, Seller shall repair such damage at its expense prior to the Closing, and the Closing Date shall be extended for a reasonable period of time not to exceed thirty (30) days to allow for completion of such repairs. The Closing Date shall be extended as necessary to permit Buyer to exercise its rights under this Article 10.

ARTICLE 11. GENERAL.

11.1 Notices. All notices, demands, approvals, and other communications provided for in this Agreement shall be in writing and shall be effective (a) when personally delivered to the recipient at the recipient’s address set forth below; (b) five business days after deposit in a sealed envelope in the United States mail, postage prepaid, by registered or certified mail, return receipt requested, addressed to the recipient as set forth below; or (c) one business day after deposit with a recognized overnight courier or delivery service, addressed to the recipient as set forth below, whichever is earlier. If the date on which any notice to be given hereunder falls on a Saturday, Sunday or legal holiday, then such date shall automatically be extended to the next business day immediately following such Saturday, Sunday or legal holiday. Email notices may be used for convenience only, unless otherwise agreed by the parties in writing, and shall be deemed delivered one (1) business day after delivery if sent after 5 pm, or received the same day if sent on a business day between 8 am and 5 pm, and a duplicate shall be sent via USPS on the same day as the email.

The addresses for notice are:

SELLER: David M. Carroll, Trustee
David M. Carroll Revocable Trust UDT, 3/22/1996
150 3rd Street
Lakeport, CA 95453
Phone: (707) 278-6638
Email: manager@nextmarc.com

John M. Shea, Trustee
Shea Family Trust, 6/19/2009
150 3rd Street
Lakeport, CA 95493
Phone: (707) 278-6638
Email: manager@nextmarc.com

With a copy to: Sheppard, Mullin, Richter & Hampton
Attn: Matthew Holbrook
650 Town Center Drive, 10th Floor
Costa Mesa, CA 92626
Phone: (714) 513-5100
Email: mholbrook@sheppardmullin.com

BUYER: SONOMA COUNTY WASTE MANAGEMENT
AGENCY
Attn: Leslie Lukacs, Executive Director
2300 County Center Drive, Suite B-100
Santa Rosa, CA 95403
Phone: (707) 565-3687
Email: Leslie.lukacs@sonoma-county.org

With a copy to: BEST, BEST & KRIEGER
Attn: Ethan Walsh, Esq.
500 Capitol Mall, Suite 1700
Sacramento, CA 95814
Phone: (916) 551-2825
Email: Ethan.Walsh@bbklaw.com

Either party may change its address by written notice to the other given in the manner set forth above.

11.2 Entire Agreement. This Agreement and the Schedules and Exhibits hereto contain the entire agreement and understanding between Buyer and Seller concerning the subject matter of this Agreement and supersede all prior agreements, including any previous letter of intent or terms, understandings, conditions, representations and warranties, whether written or

oral, made by Buyer or Seller concerning the Property or the other matters which are the subject of this Agreement.

11.3 Amendments and Waivers. No addition to or modification of this Agreement shall be effective unless set forth in writing and signed by the party against whom the addition or modification is sought to be enforced. The party benefited by any condition or obligation may waive the same, but such waiver shall not be enforceable by another party unless made in writing and signed by the waiving party.

11.4 Invalidity of Provision. If any provision of this Agreement as applied to either party or to any circumstance shall be adjudged by a court of competent jurisdiction to be void or unenforceable for any reason, the same shall in no way affect (to the maximum extent permissible by law) any other provision of this Agreement, the application of any such provision under circumstances different from those adjudicated by the court, or the validity or enforceability of this Agreement as a whole.

11.5 References. Unless otherwise indicated, (a) all Article, Section, Schedule and Exhibit references are to the articles, sections, schedules and exhibits of this Agreement, and (b) all references to days are to calendar days. All the Schedules and Exhibits attached hereto are incorporated herein by this reference. Whenever under the terms of this Agreement the time for performance of a covenant or condition falls upon a Saturday, Sunday or California state holiday, such time for performance shall be extended to the next business day. The headings used in this Agreement are provided for convenience only and this Agreement shall be interpreted without reference to any headings. The masculine, feminine or neuter gender and the singular or plural number shall be deemed to include the others whenever the context so indicates or requires.

11.6 Governing Law. This Agreement shall be governed by and construed in accordance with the laws of the State of California applicable to contracts made and to be performed in California.

11.7 Confidentiality and Publicity. Buyer is a public entity and as such, this Agreement, upon its presentation for approval at Buyer's Board of Directors at a duly called and agenda public meeting, shall be subject to the Public Records Act and the Freedom of Information Act. No press release or other public disclosure may be made by Seller or any of its agents regarding Buyer's intent for this Property this transaction without the prior consent of Buyer.

11.8 Time. Time is of the essence in the performance of the parties' respective obligations under this Agreement.

11.9 Attorneys' Fees. In the event of any legal or equitable proceeding to enforce any of the terms or conditions of this Agreement, or any alleged disputes, breaches, defaults or misrepresentations in connection with any provision of this Agreement, the prevailing party in such proceeding shall be entitled to recover its reasonable costs and expenses, including, without limitation, reasonable attorneys' fees and costs of defense paid or incurred in good faith up to a maximum amount of One Hundred Thousand Dollars (\$100,000.00); provided, however, that this maximum amount shall not limit liability or recovery for a claim based on intentional fraud.

11.10 Assignment. Buyer will not assign this Agreement without obtaining Seller's prior written consent, which consent may be withheld by Seller in its sole and absolute discretion for any reason whatsoever; provided, however, that Buyer shall have the one-time right to assign all of its right, title and interest in and to this Agreement not later than ten (10) business days prior to the Closing without Seller's consent to a corporation, partnership or limited liability company in which Buyer is the General Partner, Managing Member or Manager and has the legal authority to bind such entity to the terms of this Agreement (a "Related Assignee"), so long as (i) Buyer provides written notice to Seller concurrently with such assignment (including a copy of the fully executed assignment document, in the form specified below, and the full names and addresses of all individuals and entities that will have, as of the Closing Date, a direct or beneficial ownership interest in or to the assignee), (ii) the assignee entity agrees to assume all of Buyer's obligations and liabilities under this Agreement, (iii) neither the assignment nor the assignee violates Buyer's representations and warranties contained in Article 6 above, and (iv) such assignment and assumption does not and shall not release Buyer from its obligations and liabilities under this Agreement. Any attempted assignment without Seller's required prior written consent will, at Seller's option, be voidable and constitute a material breach of this Agreement. If Seller consents to an assignment, the assignment will not be effective against Seller until Buyer delivers to Seller a fully executed copy of the assignment instrument, which instrument must be satisfactory to Seller in both form and substance, pursuant to which the assignee assumes and agrees to perform for the benefit of Seller the obligations of Buyer under this Agreement, and pursuant to which the assignee makes the warranties and representations required of Buyer under this Agreement and such other representations and warranties as Seller may reasonably require. Any such assignment will not release Buyer from any of its obligations under this Agreement.

11.11 Further Assurances. Seller, at any time before or after Closing, shall, at its own expense, execute, acknowledge and deliver any further deeds, assignments, conveyances and other assurances, documents and instruments of transfer reasonably requested by Buyer and shall take any other action consistent with the terms of this Agreement that may reasonably be requested by Buyer for the purpose of transferring and confirming to Buyer, or reducing to Buyer's possession, any or all of the Property or otherwise carrying out the terms of this Agreement.

11.12 Cooperation With Exchange. Buyer agrees to cooperate with the other if Seller intends to accomplish a tax-deferred exchange pursuant to Section 1031 of the Internal Revenue Code of 1986. Buyer and/or Seller may assign this Agreement to an exchange intermediary for the purpose of facilitating such an exchange by the assigning party. Buyer's duty to cooperate shall be limited to the transfer of money to Seller or Seller's designee in exchange for the Property, and in no event shall Buyer act as purchaser or acquirer of any exchange property. Seller shall indemnify and defend and hold Buyer harmless from any claims, loss, damages or liability arising out of participation in an exchange.

11.13 No Third Party Beneficiaries. Nothing in this Agreement, express or implied, is intended to confer any rights or remedies under or by reason of this Agreement on any person other than the parties to it and their respective permitted successors and assigns, nor is anything in this Agreement intended to relieve or discharge any obligation of any third person to any party

hereto or give any third person any right of subrogation or action over against any party to this Agreement.

11.14 Remedies Cumulative. The remedies set forth in this Agreement are cumulative and not exclusive to any other legal or equitable remedy available to a party.

11.15 Commissions, Indemnity, Disclosure. Each party represents to the other party that there is no broker representing such party in the current transaction, and that the representing party has incurred no liability for any brokerage commission or finder's fee arising from or relating to the transactions contemplated by this Agreement. Each party hereby indemnifies and agrees to protect, defend and hold harmless the other party from and against all liability, cost, damage or expense (including without limitation attorneys' fees and costs incurred in connection therewith) on account of any brokerage commission or finder's fee which the indemnifying party has agreed to pay or which is claimed to be due as a result of the actions of the indemnifying party. This Section 11.15 is intended to be solely for the benefit of the parties hereto and is not intended to benefit, nor may it be relied upon by, any person or entity not a party to this Agreement.

11.16 Counterparts/Facsimile/PDF Signatures. This Agreement may be executed in counterparts and when so executed by the parties, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument that shall be binding upon the parties, notwithstanding that the parties may not be signatories to the same counterpart or counterparts. The parties may integrate their respective counterparts by attaching the signature pages of each separate counterpart to a single counterpart. In order to expedite the transaction contemplated herein, facsimile or .pdf signatures may be used in place of original signatures on this Agreement. Seller and Buyer intend to be bound by the signatures on the facsimile or .pdf document, are aware that the other party will rely on the facsimile or .pdf signatures, and hereby waive any defenses to the enforcement of the terms of this Agreement based on the form of signature.

[Signatures on following page]

IN WITNESS WHEREOF, the parties have executed this Agreement as of the Effective Date.

BUYER:

SONOMA COUNTY WASTE MANAGEMENT
AGENCY, a California joint powers authority

By _____

Its _____

APPROVED AS TO FORM:
BEST BEST & KRIEGER LLP

By: _____
Agency Counsel

DRAFT

SELLER:

DAVID M. CARROLL, as Trustee of the David M. Carroll Revocable Trust UDT dated March 22, 1996 as amended, as to an undivided fifty percent (50%) tenant-in-common interest, and JOHN M. SHEA II, as Trustee of the Shea Family Trust, dated June 19, 2009, as to an undivided fifty percent (50%) tenant-in-common interest,

By: _____

Name: DAVID M. CARROLL

Title: Trustee of the David M. Carroll Revocable Trust UDT dated March 22, 1996

By: _____

Name: JOHN M. SHEA II

Title: Trustee of the Shea Family Trust dated June 19, 2009

Acceptance by Escrow Holder

Escrow Holder acknowledges receipt of the foregoing Agreement and accepts the instructions contained therein.

Dated: _____, 2023

Chicago Title Company, 725 S. Figueroa Street, Suite 200, Los Angeles, California 90017

By: _____

Name: Michael Singer

Title: _____

EXHIBIT A
LAND DESCRIPTION

DRAFT

EXHIBIT B

PERSONAL PROPERTY INVENTORY

DRAFT

Exhibit "B"

EXHIBIT C

TRANSFEROR'S CERTIFICATION OF NON-FOREIGN STATUS

Section 1445 of the Internal Revenue Code of 1986, as amended (the "Code"), provides that a transferee of a U.S. real property interest must withhold tax if the transferor is a foreign person. To inform the SONOMA COUNTY WASTE MANAGEMENT AGENCY, a California joint powers authority (the "Transferee"), that withholding of tax under Section 1445 of the Code will not be required upon the transfer of a U.S. real property interest to the Transferee by DAVID M. CARROLL, as Trustee of the David M. Carroll Revocable Trust UDT dated March 22, 1996 as amended, as to an undivided fifty percent (50%) tenant-in-common interest, and JOHN M. SHEA II, as Trustee of the Shea Family Trust, dated June 19, 2009, as to an undivided fifty percent (50%) tenant-in-common interest (the "Transferor"), the undersigned hereby certifies the following on behalf of the Transferor:

1. The Transferor is not a foreign corporation, foreign partnership, foreign trust or foreign estate (as those terms are defined in the Code and the Income Tax Regulations promulgated thereunder);
2. The Transferor's U.S. employer identification number is _____; and
3. The Transferor's office address is _____.

The Transferor understands that this Certificate may be disclosed to the Internal Revenue Service by the Transferee and that any false statement contained herein could be punished by fine, imprisonment, or both.

Under penalty of perjury I declare that I have examined this Certification and, to the best of my knowledge and belief, it is true, correct and complete, and I further declare that I have authority to sign this document on behalf of the Transferor.

DATED: _____, 2023.

Transferor: DAVID M. CARROLL, as Trustee of the David M. Carroll Revocable Trust UDT dated March 22, 1996 as amended, as to an undivided fifty percent (50%) tenant-in-common interest, and JOHN M. SHEA II, as Trustee of the Shea Family Trust, dated June 19, 2009, as to an undivided fifty percent (50%) tenant-in-common interest

By: _____

Name: DAVID M. CARROLL

Exhibit "C"

Title: Trustee of the David M. Carroll Revocable Trust UDT dated March 22, 1996

By: _____

Name: JOHN M. SHEA II

Title: Trustee of the Shea Family Trust dated June 19, 2009

DRAFT

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EXHIBIT D

BILL OF SALE

This Bill of Sale (the "Bill of Sale") is made as of _____, 2023, by DAVID M. CARROLL, as Trustee of the David M. Carroll Revocable Trust UDT dated March 22, 1996 as amended, as to an undivided fifty percent (50%) tenant-in-common interest, and JOHN M. SHEA II, as Trustee of the Shea Family Trust, dated June 19, 2009, as to an undivided fifty percent (50%) tenant-in-common interest ("Transferor").

FOR VALUABLE CONSIDERATION, as set forth in that certain Purchase and Sale Agreement dated _____, 2023 (the "Agreement"), Transferor hereby sells, transfers, assigns and delivers to the SONOMA COUNTY WASTE MANAGEMENT AGENCY, a California joint powers authority ("Transferee"), any and all personal property (the "Personal Property") located within or used in connection with that certain improved real property commonly known as 5885 Pruitt Avenue, Windsor, APN 059-271-082, inclusive of improvements located on 5871 Pruitt Avenue (approximately 1,000 square feet); 5873 Pruitt Avenue (approximately 4,287 square feet); 5891 Pruitt Avenue (approximately 3,456 square feet); and 5895 Pruitt Avenue (approximately 1,984 square feet), all in Windsor, California (the "Real Property"). The Personal Property shall include, without limitation, the items described in the Personal Property Inventory attached hereto as Schedule 1.

1. Transferor hereby assigns all warranties, guarantees and indemnities, whether those warranties are express or implied, and all similar rights which Transferor may have against any other manufacturer or supplier of the Personal property or any portion thereof or against any seller, engineer, contractor or builder, in respect of the Personal Property.

2. THE PERSONAL PROPERTY IS SOLD, TRANSFERRED, ASSIGNED AND CONVEYED TO TRANSFEREE SUBJECT TO ALL OF THE RELEASES, DISCLOSURES, LIMITATIONS ON LIABILITY, AND THE OTHER TERMS AND CONDITIONS CONTAINED IN THE AGREEMENT, AND TRANSFEROR IS NOT MAKING ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND OR NATURE WHATSOEVER, WHETHER EXPRESSED OR IMPLIED, WITH RESPECT TO ALL OR ANY PORTION OF THE PERSONAL PROPERTY, EXCEPT TO THE EXTENT EXPRESSLY SET FORTH IN THE AGREEMENT.

3. Transferor at any time at or after the date of this Bill of Sale shall execute, acknowledge and deliver any further deeds, assignments, conveyances and other assurances, documents and instruments of transfer reasonably requested by Transferee, and shall take any other action consistent with the terms of this Bill of Sale that may reasonably be requested by Transferee for the purpose of granting and confirming to Transferee, or reducing to Transferee's possession, any or all of the Personal Property.

4. This Bill of Sale shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, executors, administrators, successors and assigns.

DATED: _____, 20__.

Exhibit "C"

TRANSFEROR: DAVID M. CARROLL, as Trustee of the David M. Carroll Revocable Trust UDT dated March 22, 1996 as amended, as to an undivided fifty percent (50%) tenant-in-common interest, and JOHN M. SHEA II, as Trustee of the Shea Family Trust, dated June 19, 2009, as to an undivided fifty percent (50%) tenant-in-common interest

By: _____

Name: DAVID M. CARROLL

Title: Trustee of the David M. Carroll Revocable Trust UDT dated March 22, 1996

By: _____

Name: JOHN M. SHEA II

Title: Trustee of the Shea Family Trust dated June 19, 2009

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SCHEDULE 1

PERSONAL PROPERTY INVENTORY

“All Personal Property existing at the real Property as of the Closing Date”

DRAFT

Exhibit “D”

EXHIBIT E

GENERAL ASSIGNMENT

This Assignment (the "Assignment") is dated for reference purposes only as of DAVID M. CARROLL, as Trustee of the David M. Carroll Revocable Trust UDT dated March 22, 1996 as amended, as to an undivided fifty percent (50%) tenant-in-common interest, and JOHN M. SHEA II, as Trustee of the Shea Family Trust, dated June 19, 2009, as to an undivided fifty percent (50%) tenant-in-common interest ("Assignor").

FOR VALUABLE CONSIDERATION, as set forth in that certain Agreement of Purchase and Sale and Joint Escrow Instructions dated _____, 2023 (the "Agreement"), Assignor hereby assigns and transfers to the SONOMA COUNTY WASTE MANAGEMENT AGENCY, a California joint powers authority ("Assignee"), following:

A. All equipment leases, service and/or maintenance agreements and contracts relating to the Real Property (collectively, the "Contracts") [as more particularly described in Schedule 1 attached hereto];

B. All permits, licenses, consents, registrations and other similar approvals applicable to the Real Property (collectively, the "Approvals") [which Approvals are more particularly described in Schedule 2 attached hereto];

C. All as-built plans and specifications for: (1) the Real Property; (2) any and all improvements used in connection with the operation or occupancy of the Real Property or located upon the Real Property (the "Improvements"); and (3) any and all personal property owned by Assignor located within or used in connection with the operation of the Real Property and Improvements (the "Personal Property") (collectively, the "Plans"); and

D. All warranties of which Assignor is the beneficiary (the "Warranties") with respect to the Improvements or Personal Property.

This Assignment shall not supersede the Agreement and, in the event of conflict between this Assignment and the Agreement, the Agreement shall control.

This Assignment shall be binding upon and inure to the benefit of Assignor and Assignee and their respective heirs, executors, administrators, successors and assigns.

This Assignment shall take effect the last to occur of the following: (i) full execution by all parties and Lessor's consent, as shown by the last date entered below the parties' signatures and (ii) upon the consummation of the transaction between Assignee and Assignor

IN WITNESS WHEREOF, Assignor has executed this Assignment as of the date first above written.

ASSIGNOR:

Exhibit "C"

DAVID M. CARROLL, as Trustee of the David M. Carroll Revocable Trust UDT dated March 22, 1996 as amended, as to an undivided fifty percent (50%) tenant-in-common interest, and JOHN M. SHEA II, as Trustee of the Shea Family Trust, dated June 19, 2009, as to an undivided fifty percent (50%) tenant-in-common interest

By: _____

Name: DAVID M. CARROLL

Title: Trustee of the David M. Carroll Revocable Trust UDT dated March 22, 1996

By: _____

Name: JOHN M. SHEA II

Title: Trustee of the Shea Family Trust dated June 19, 2009

DRAFT

SCHEDULE 1

None

DRAFT

Exhibit "E"

SCHEDULE 2

List all permits, licenses, consents, registrations and other similar approvals applicable to the Real Property- if none known, delete this schedule and bracketed phrase but leave general assignment of unspecified contracts

DRAFT

SCHEDULE 5.3
SCHEDULE OF LEASES AND RENT ROLL

[Append Rent Roll]

DRAFT

EXHIBIT F
GRANT DEED

RECORDING REQUESTED BY
AND WHEN RECORDED MAIL TO

SONOMA COUNTY WASTE MANAGEMENT AGENCY,
A California Joint Powers Authority

2300 County Center Drive, Suite B-100
Santa Rosa, CA 95403, CA
ATTN: Leslie Lukacs, Executive Director

**EXEMPT FROM RECORDING FEES PURSUANT
TO GOVERNMENT CODE SECTION 27383**

SPACE ABOVE THIS LINE FOR RECORDER'S USE

APN: 059-271-082

Grant Deed

The undersigned Grantor(s) declare(s): SONOMA COUNTY WASTE MANAGEMENT AGENCY, a California joint powers authority is exempt from property taxes

Documentary transfer tax is \$0.

- Computed on full value of property conveyed, or
 Computed on full value less value of liens and encumbrances remaining at time of sale.
 Unincorporated area City of _____ and

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

DAVID M. CARROLL, as Trustee of the David M. Carroll Revocable Trust UDT dated March 22, 1996 as amended, as to an undivided fifty percent (50%) tenant-in-common interest, and JOHN M. SHEA II, as Trustee of the Shea Family Trust, dated June 19, 2009, as to an undivided fifty percent (50%) tenant-in-common interest,

hereby GRANT(S) to

SONOMA COUNTY WASTE MANAGEMENT AGENCY, a California joint powers authority

the following described real property in the City of Windsor
County of Sonoma _____
State of California:

SEE ATTACHED EXHIBIT A

This conveyance is made subject to all matters, liens and encumbrances of record.

Exhibit "F"

Dated: _____, 2023	DAVID M. CARROLL, as Trustee of the David M. Carroll Revocable Trust UDT dated March 22, 1996 as amended, as to an undivided fifty percent (50%) tenant-in-common interest, and JOHN M. SHEA II, as Trustee of the Shea Family Trust, dated June 19, 2009, as to an undivided fifty percent (50%) tenant-in-common interest.
	By: _____ Name: DAVID M. CARROLL Title: Trustee of the David M. Carroll Revocable Trust UDT dated March 22, 1996
	By: _____ Name: JOHN M. SHEA II Title: Trustee of the Shea Family Trust dated June 19, 2009

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
COUNTY OF _____)

On _____, 20__ before me, _____, Notary Public, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____ (seal)

DRAFT

CERTIFICATE OF ACCEPTANCE

Pursuant to Section 27281 of the
California Government Code

This is to certify that the interest in real property conveyed by the Grant Deed dated _____, 2023, from **DAVID M. CARROLL**, as **Trustee of the David M. Carroll Revocable Trust UDT dated March 22, 1996 as amended**, as to an undivided fifty percent (50%) tenant-in-common interest, and **JOHN M. SHEA II**, as **Trustee of the Shea Family Trust, dated June 19, 2009**, as to an undivided fifty percent (50%) tenant-in-common interest, to the **Sonoma County Waste Management Agency**, a California joint powers authority, is hereby accepted by the undersigned officer on behalf of the **Sonoma County Waste Management Agency**, pursuant to the authority conferred by Resolution No. _____, adopted by the Board of Directors of the **Sonoma County Waste Management Agency** on _____, and the Grantee consents to recordation thereof by its duly authorized officer.

Dated: _____, 20__

**Sonoma County Waste Management
Agency**

By _____

5892 Pruitt Avenue, Windsor, CA 95492



Parcel Map



0 75 Buffer Requirement

North County Household Hazardous Waste Facility Feasibility Study

Prepared for:

Zero Waste Sonoma

2300 County Center Drive, Suite B-100

Santa Rosa, CA 95403



By

Aptim Environmental & Infrastructure, LLC



And



November 2023

HOUSEHOLD HAZARDOUS WASTE FACILITY FEASIBILITY STUDY

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1 INTRODUCTION

The Sonoma County Waste Management Agency (Zero Waste Sonoma, herein ZWS) currently provides Household Hazardous Waste (HHW) management for its residents at the Household Toxics Facility (HTF) located at the Central Disposal Site at 500 Meacham Road in Petaluma. In addition, Community Toxics Collections (CTC) events are provided by ZWS in areas distant from the HTF. Operation of the HTF and CTC events are conducted by a private hazardous waste contractor.

ZWS commissioned a HHW program expansion analysis in 2018, *Sonoma County Waste Management Agency, Household Hazardous Waste Program, Program Expansion Analysis*¹. The analysis reported Sonoma County residential and business participation as summarized on Figure 1²

Figure 1

Community Toxics Collection Participation



¹ Sweetser & Associates, May 2018

² From Figure 2-1 of the analysis

The analysis ultimately concluded the northern areas of Sonoma County from Santa Rosa north to the Cloverdale-Geyserville area were underserved by the HTF hence heavily reliant on the CTC events. CTC events rotate “around the county one day per week with about 49 events per year” for 4 hours each event.

Based on that conclusion, the Sweetser analysis continued with analysis of siting criteria, program expansion options including facility locations, facility capital and operational cost, and funding options for a new north county HHW facility. ZWS staff presented a *North County HHW Facility Progress Report* to the ZWS Board on January 15, 2020. The report presented 4 candidate locations for a new north county HHW facility and recommended issuance of a Request for Proposals (RFP) for a site feasibility study of the selected location. The recommended RFP was issued with proposals received by March 13, 2020.

The four locations initially considered included existing warehouse space and bare property near the Santa Rosa Airport and two separate locations at the Healdsburg transfer station. Ultimately, none of these locations proved acceptable to the criteria reported in the program expansion analysis. Hence a search for new locations began.

ZWS located a 4.36-ac property that was acceptable to the program expansion goals on Pruitt Avenue in Windsor, California. In spring 2023, ZWS issued instructions to Aptim Environmental & Infrastructure, LLC (APTIM) to commence the feasibility study on the selected property. The feasibility study scope of work consisted of;

1. Project Scoping.
2. Property Research
3. Photo Documentation
4. Code Analysis
5. Permitting and Approval Analysis
6. Topographic Survey
7. Phase I Environmental Assessment
8. Existing Conditions Drawings
9. Improvement Options
10. Feasibility Study and Conceptual Cost Estimate

The feasibility study contained herein then serves as a supplement to the expansion analysis focusing on the physical and permitting feasibility of the subject property.

2 WINDSOR PROPERTY RESEARCH

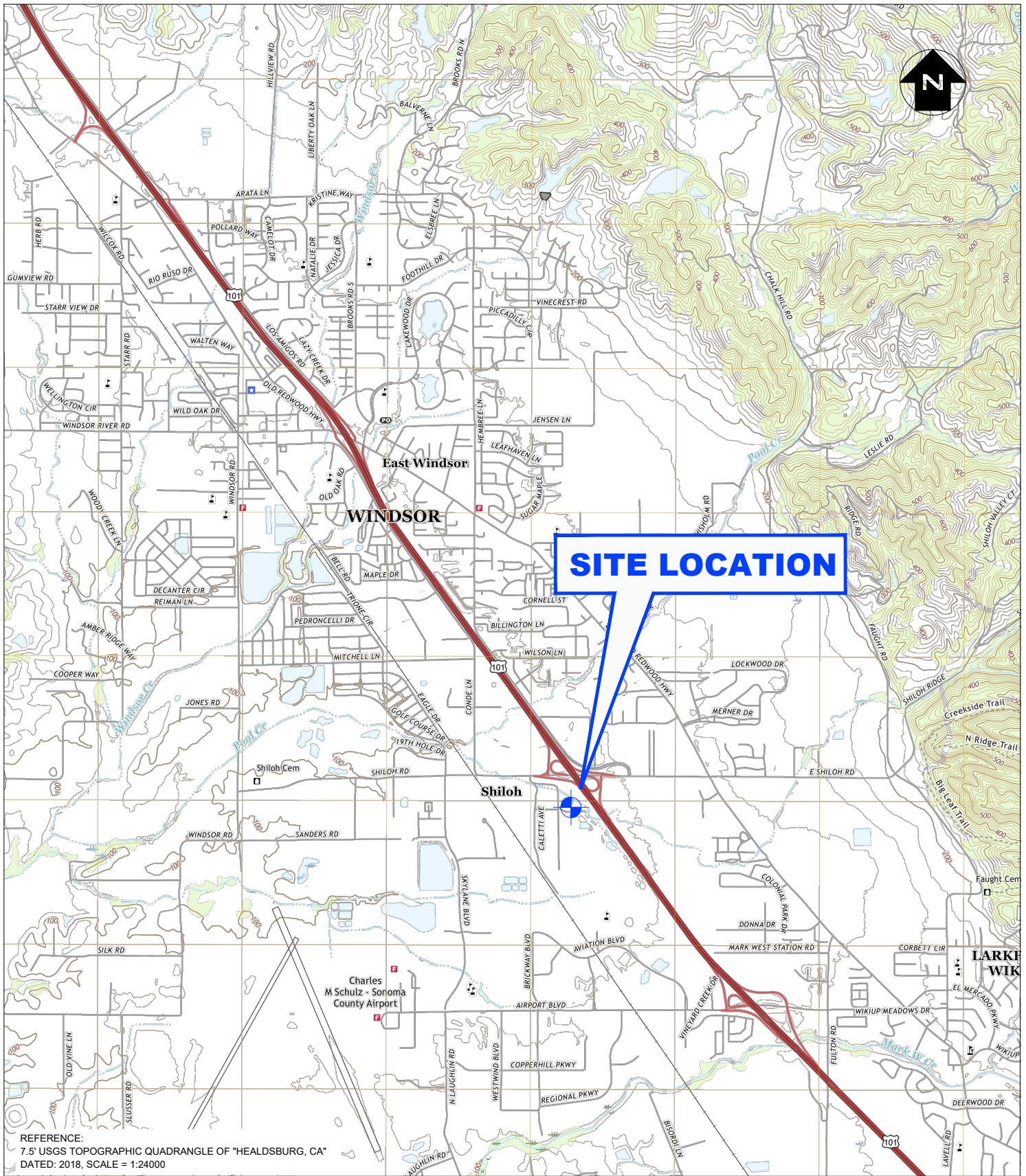
The proposed site location is shown on Figure 2. It is accessible from Highway 101 at the Shiloh Road exit. It is located in the south Windsor heavy to light industrial zone.

Existing features and uses on the site are shown on Figure 3. Current tenants on the property are Elite Concrete; BKW Concrete, Inc., in Building 1 on the west side of the property, and Restoration Concrete Abatement in two other buildings to the east of Building 1. Building 1 was built before 1968 along with much of the existing industrial area, and Standard Avenue³.

Building 2 was built before 1983 when Pruitt Creek was diverted into a straight channel along the northeastern property line. Property access at this time was from Standard Avenue which now exists as an alleyway along the western property line, and a bridge crossing Pruitt Creek.

Existing topography on the property is shown on Figure 4. The property is mildly graded at approximately 1 percent from the southeast corner to a low point in the northwest discharging into Pruitt Creek.

³ *Phase I Environmental Site Assessment, 5865 - 5897 Pruitt Avenue, Windsor, CA 95492, April 6, 2023, APTIM.* This is a very large PDF document so is not included as an appendix to this document but rather included by reference.



REFERENCE:
 7.5' USGS TOPOGRAPHIC QUADRANGLE OF "HEALDSBURG, CA"
 DATED: 2018, SCALE = 1:24000

ZERO WASTE SONOMA HHW FACILITY FEASIBILITY STUDY

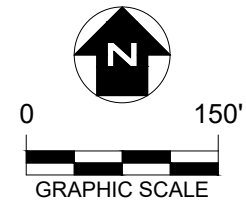
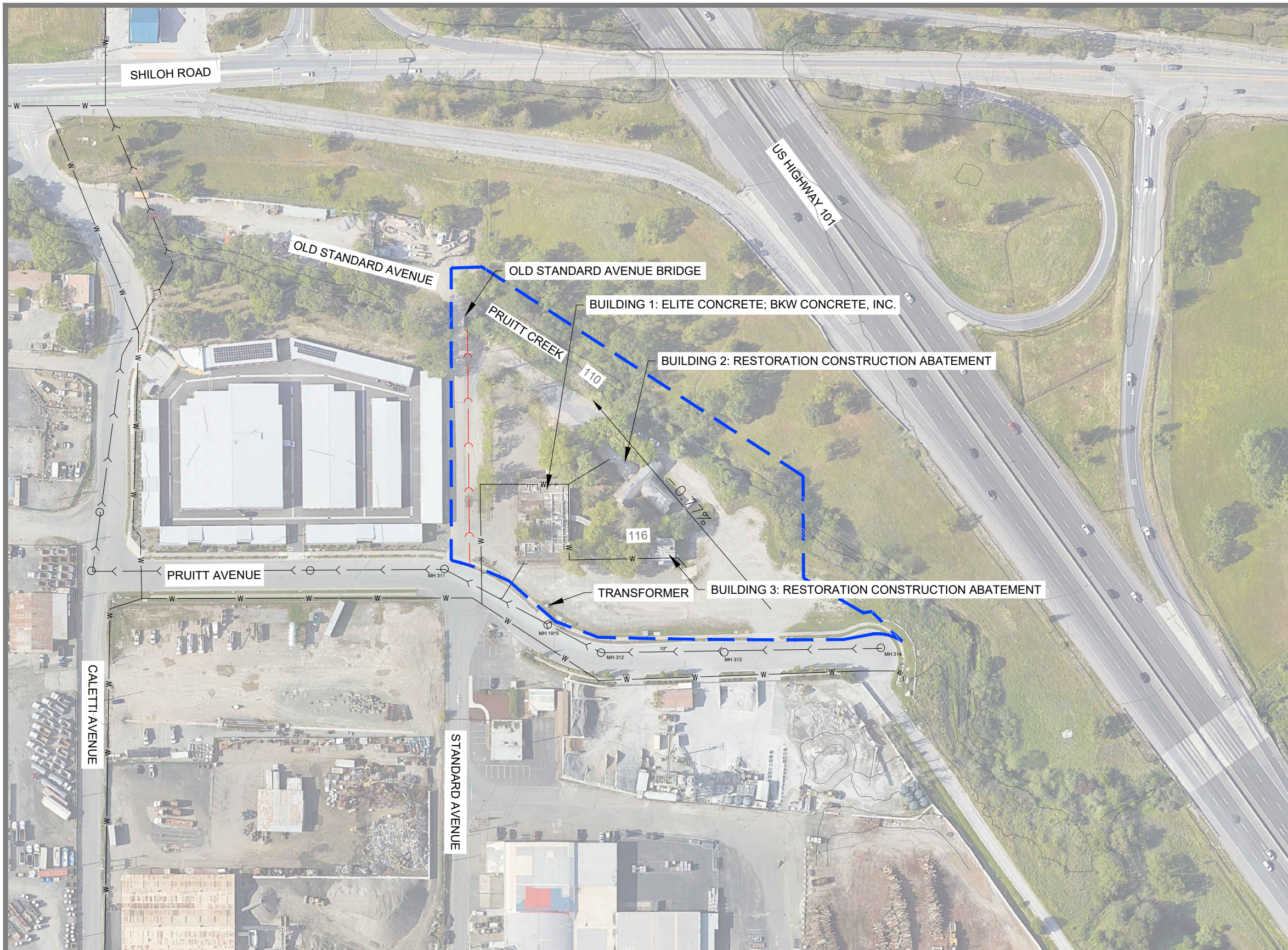
FIGURE 2 SITE LOCATION WINDSOR, CALIFORNIA



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LEGEND

- — — APPROXIMATE SUBJECT PROPERTY BOUNDARY
- w — CITY WATER SERVICE
- < —> — SANITARY SEWER
- C — C — STORM SEWER
- 110 — EXISTING GRADE CONTOURS

NOTES

1. AERIAL OBTAINED FROM GOOGLE EARTH IMAGERY (MARCH 2023).
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.



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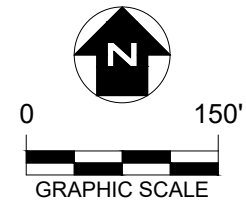
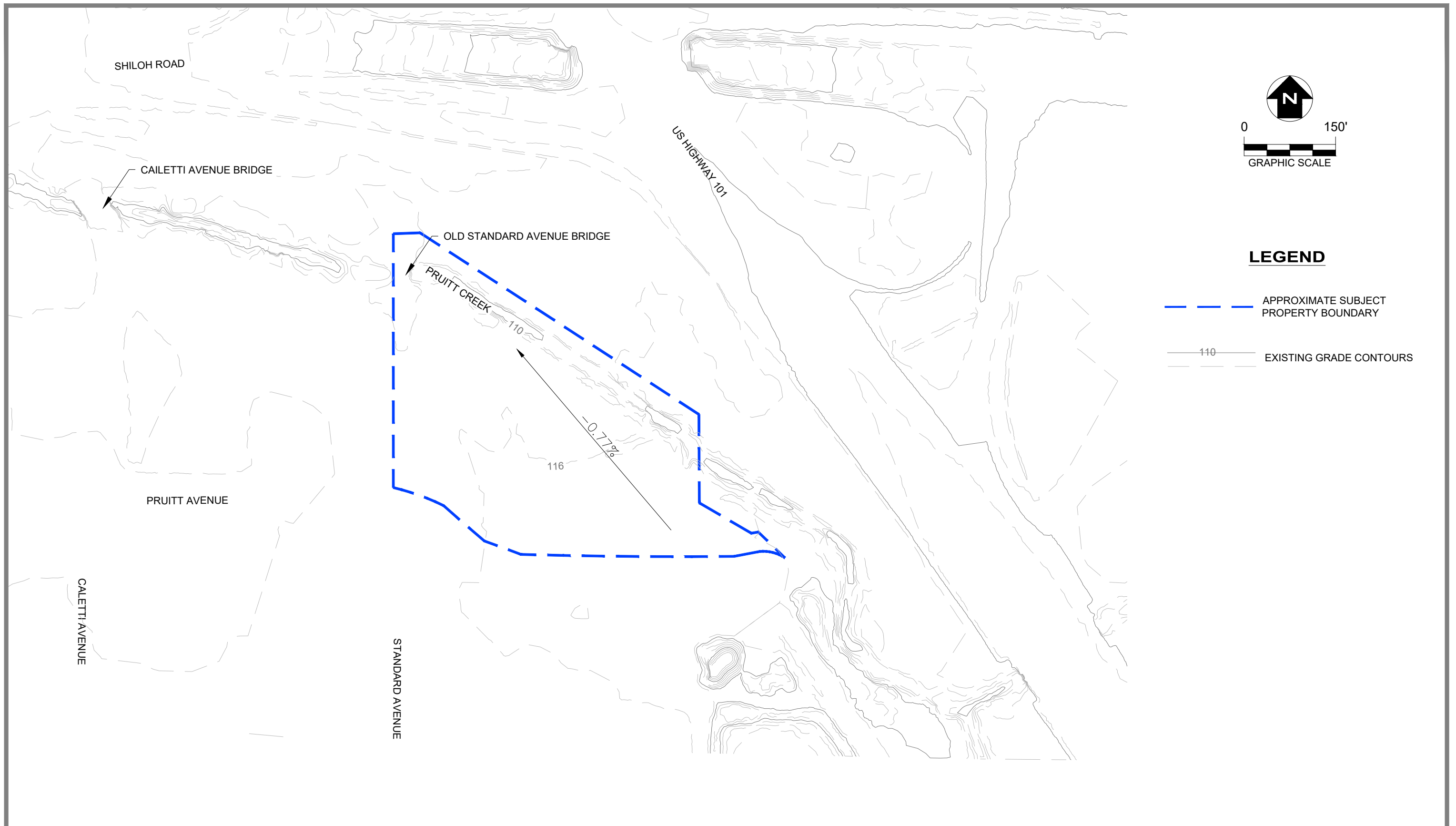
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**ZERO WASTE SONOMA
HHW SITE FEASIBILITY STUDY**

**FIGURE 3
EXISTING PROPERTY CONDITIONS**

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LEGEND

- - - - - APPROXIMATE SUBJECT PROPERTY BOUNDARY
- - - - - 110 EXISTING GRADE CONTOURS

NOTES

1. EXISTING CONTOURS DEVELOPED FROM U.S GEOLOGICAL SURVEY, 20171019, USGS ORIGINAL PROJECT RESOLUTION SONOMA COUNTY CA LIDAR BH_SOCO_0046: U.S. GEOLOGICAL SURVEY.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.



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HHW SITE FEASIBILITY STUDY**

**FIGURE 4
EXISTING TOPOGRAPHY**

REV. NO.	DATE	DESCRIPTION

2.1 Zoning and Land-Use Compatibility

Surrounding land use to the property is depicted on Figure 5. The property itself is zoned Heavy Industrial by the Town of Windsor which is compatible with the intended use. To the west, north, east, and south, property is zoned as Planned Development. Property use within that zone is heavy (Northgate Ready Mix), to light (Storage Pro Self Storage) industrial, and undeveloped land between Pruitt Creek and Highway 101. To the southwest is Heavy Industrial zoned property currently occupied by a contractor's equipment storage yard. A cellular phone tower owned by Crown Castle Inc. exists off old Standard Avenue north of Pruitt Creek.

Regarding environmental risk from previous land use on the property and neighboring properties that could be assumed by ZWS, the Phase I Environmental Site Assessment (ESA) - performed as part of the scope of work - revealed the following recognized environmental conditions (REC):

- The presence of fill material in the former Pruitt Creek channel on the subject property from an unknown source meets the American Society for Testing Materials (ASTM) definition of a REC on the subject property.
- The Ecodyne Tower Site is engaged in active monitoring of hexavalent chromium in groundwater. Since the site is located in proximity to the subject property and groundwater flow direction has historically fluctuated to the northeast in the direction of the subject property, the Ecodyne Tower Site meets the ASTM definition of a REC on the subject property.
- Since the Shiloh Group Property is an active site cleanup program with identified operable units along the eastern boundary of the property, remediation activities on the Shiloh Group Property meet the ASTM definition of a REC on the subject property.

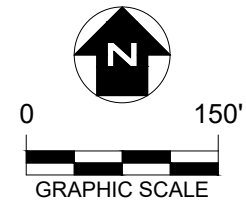
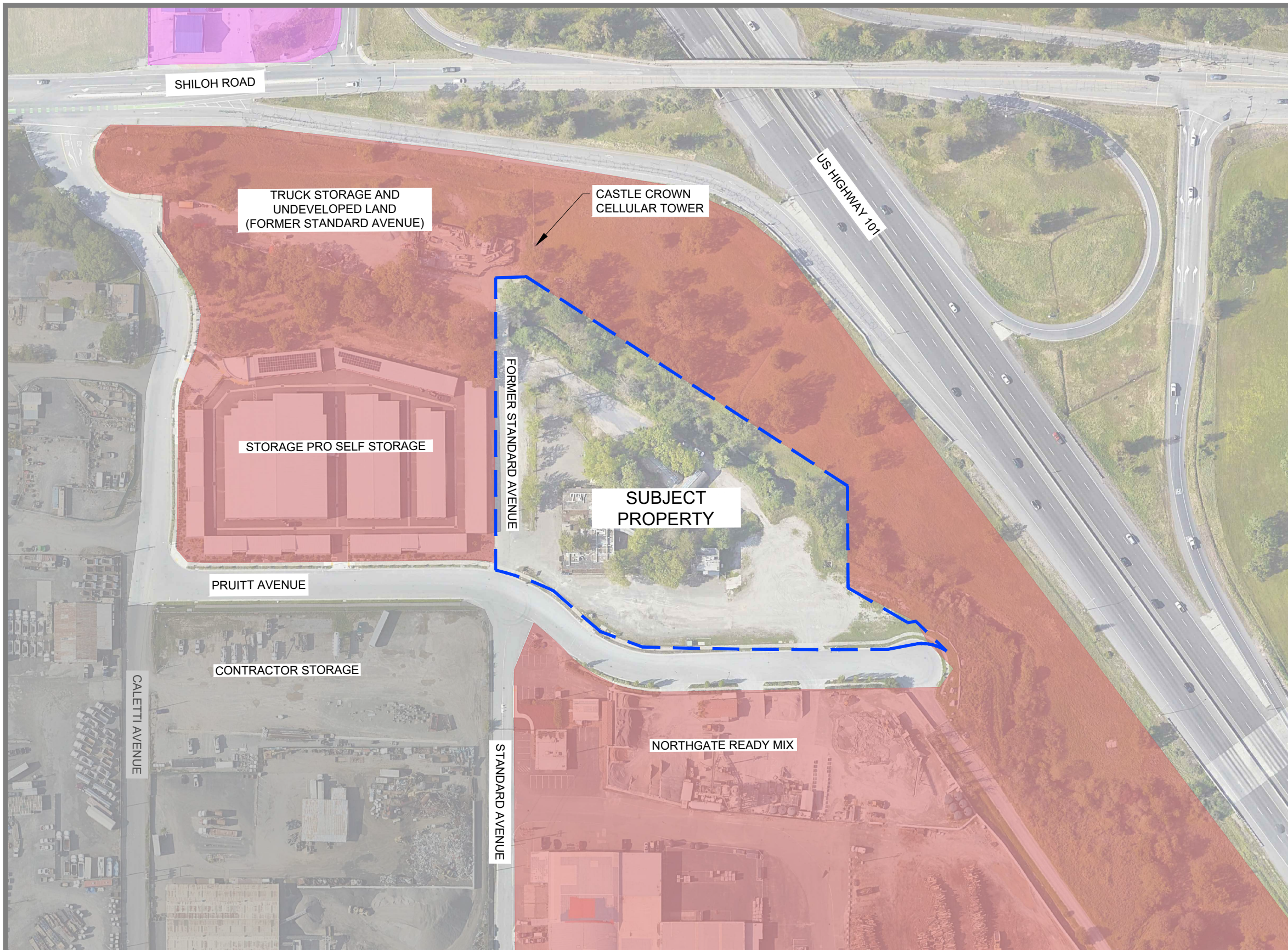
In response ZWS contracted APTIM to conduct a Limited Phase II ESA in which soil and groundwater samples were taken for laboratory analysis. Some constituents of concern were detected. However, the Phase II ESA concluded⁴:

The Site does not appear to be grossly impacted by the RECs identified in the Phase I ESA Report. However, there are risks of exposure to naturally occurring arsenic, hexavalent chromium, lead, mercury, naphthalene and DEP. These impacts could be addressed by insitu and ex-situ remediation measures such as shallow excavation, soil injection, and pump and treat systems. They can be remedied by implementing risk-based measures like the installation and maintenance of engineered barriers, adherence to a soil management plan, and prohibition of groundwater well installation/use.

As reported in the Phase I ESA, the property was originally bisected by a curving natural

⁴ Limited Phase II Environmental Site Assessment Report, 5885 Pruitt Avenue, Windsor, California, October 30, 2023, APTIM. This is a very large PDF document so is not included as an appendix to this document but rather included by reference.

channel along Pruitt Creek. Sometime before 1983, the Pruitt Creek natural channel was filled and replaced with a straight channel to allow additional building construction on the property (Current X-shaped quonset style building). Natural channel fill material was presumably borrowed from the straight channel excavation.



LEGEND

- — — — — APPROXIMATE SUBJECT PROPERTY BOUNDARY
- ZONE PLANNED DEVELOPMENT
- ZONE HEAVY INDUSTRIAL
- ZONE LIGHT INDUSTRIAL
- ZONE GATEWAY COMMERCIAL

NOTES

1. AERIAL OBTAINED FROM GOOGLE EARTH IMAGERY (MARCH 2023).
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HHW SITE FEASIBILITY STUDY**

**FIGURE 5
PROPERTY ZONING**

REV. NO.	DATE	DESCRIPTION

2.2 Utility Service

From the Phase I ESA:

According to Site personnel, potable water is currently supplied to the Site by the City of Windsor.

The Site is currently connected to the Town of Windsor municipal sanitary sewer system for the discharge of domestic wastewater.

Electricity and natural gas for the Site are supplied by Pacific Gas and Electric.

From construction plans prepared in 2003⁵, a 42-inch reinforced concrete pipe provides Pruitt Avenue stormwater drainage within a 10-foot-wide public storm drain easement on the property along the east side of the old Standard Avenue roadway on the west side of the property from a catch basin on Pruitt Avenue discharging to Pruitt Creek on the upstream side of the existing bridge.

2.3 Roadways

The property is accessed from the private roads, Cailletti Avenue and Pruitt Avenue. Cailletti Avenue provides access to the entire industrial area from Shiloh Road (public). From aerial photos in the Phase I ESA, Standard Avenue was the main access to the industrial zone through 1983. Cailletti Avenue was built between 1983 and 1993 including a Pruitt Creek bridge crossing replacing Standard Avenue as the industrial area main access road. Standard Avenue is now an alleyway along the western property line of the subject property, and a truck storage yard north of Pruitt Creek.

The industrial area the property is located in was developed by various investors between 1952 and 1968 when Standard Avenue was constructed as well, including the existing bridge over Pruitt Creek on the property – before creation of the National Flood Insurance Program by Congress in 1968. This bridge was constructed at least 55 years ago and before current floodplain regulations were developed. The property is on the upstream side of this bridge and within the floodplain as discussed below.

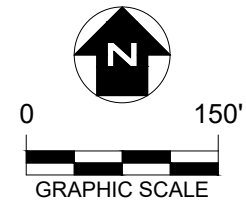
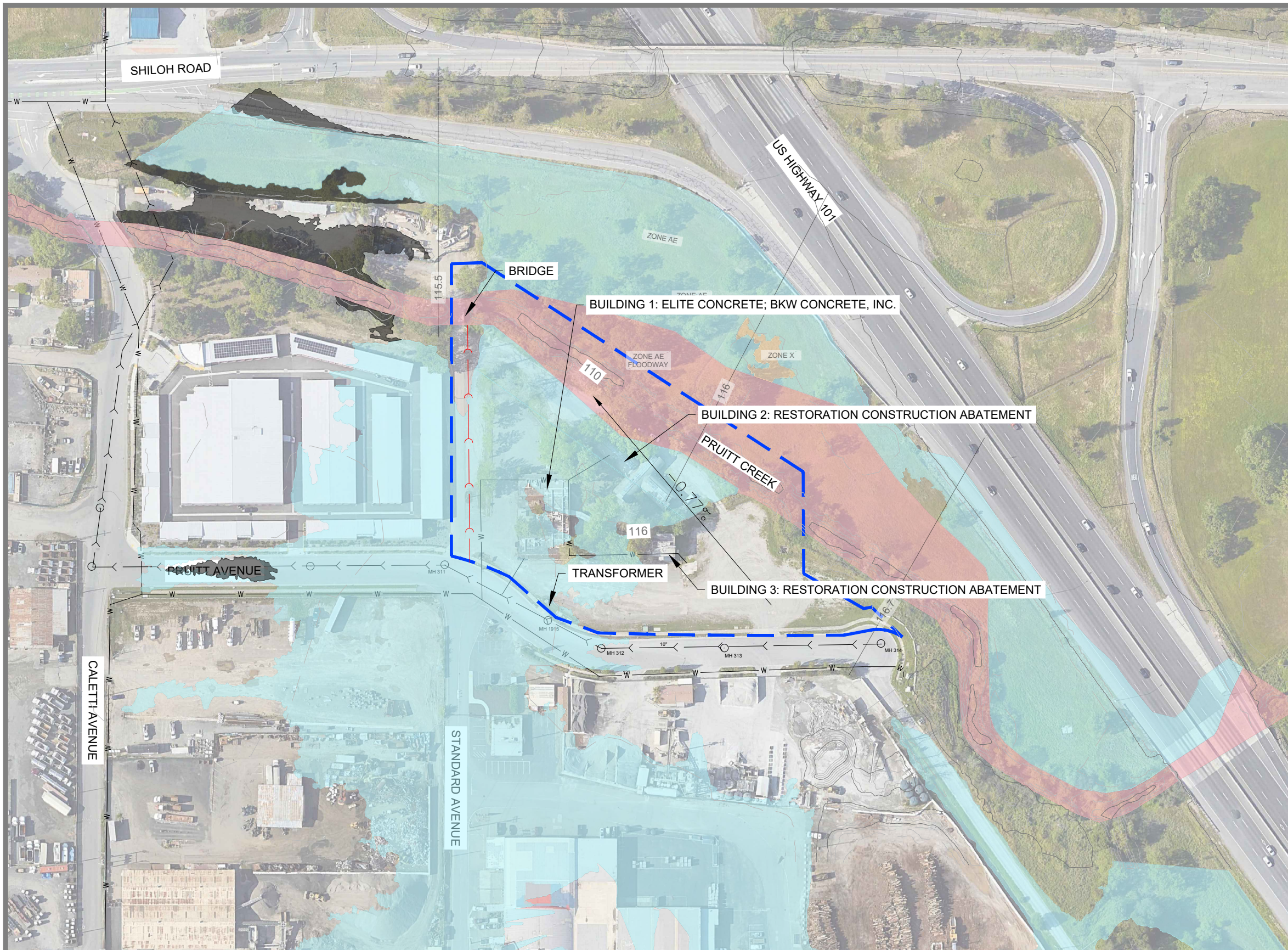
2.4 100-yr Floodplain

The Special Flood Hazard Zones (SFHZ) on the property and surrounding properties is shown on Figure 6. Approximately $\frac{3}{4}$ of the property is designated in the Zone AE SFHZ in the northwestern section. Pruitt Creek is a Zone AE designated floodway. The Zone AE base flood elevation is 116.7-ft MSK at the southeastern corner of the property and 116-ft MSL at the property midsection indicating a hydraulic grade of 0.002 ft/ft per Figure 6. The property midsection is also the location of the proposed HHW facility. To avoid building flooding, the building pad of the facility should be









⁵ Mitchell/Shiloh,/Conde Assessment District, Pruitt Avenue Extension, Standard Structures, Standard Avenue and Pruitt Avenue Utilities Plan and Profile, Paul L. Shoch, Consulting Engineer, for Shiloh Oaks Co. LLC

constructed to elevation 117-ft MSL.

The shape and extent of Zone AE indicates substantial temporary flood volume storage occurs upstream of the former Standard Avenue bridge over Pruitt Creek. Therefore, any development of the property that fills within the floodplain will have to compensate for that temporary storage loss with corresponding excavation of free draining basins within Zone AE to avoid increasing the base flood elevation for neighboring properties south of the property along Standard Avenue.



LEGEND

-  APPROXIMATE SUBJECT PROPERTY BOUNDARY
-  CITY WATER SERVICE
-  SANITARY SEWER
-  STORM SEWER
-  EXISTING GRADE CONTOURS
-  SPECIAL FLOOD HAZARD ZONE AE
-  ZONE AE FLOODWAY
-  SPECIAL FLOOD HAZARD ZONE X

- NOTES**
1. AERIAL OBTAINED FROM GOOGLE EARTH IMAGERY (MARCH 2023).
 2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
 3. PRELIMINARY FEMA NATIONAL FLOOD HAZARD LAYER SHAPEFILES. PUBLISHED 10/27/2022. ACCESSED 08/04/2023. AVAILABLE AT: [HTTPS://MSC.FEMA.GOV/PORTAL/](https://MSC.FEMA.GOV/PORTAL/)



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HHW SITE FEASIBILITY STUDY**

**FIGURE 6
PROPERTY FLOOD ZONES**

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3 CONCEPTUAL SITE IMPROVEMENTS

Site improvements are depicted on Figures 7 through 9.

The draft concept design developed by Aptim is depicted on Figure 7. As shown, ingress and egress to/from the proposed facility will continue to be provided at two existing access drives from Pruitt Avenue— one near the southeast corner of the property, and one near the southwest corner. As discussed above, the existing (former Standard Avenue) bridge at the northwest corner of the property is quite old. APTIM advises this bridge should not be used for customer or truck traffic without a thorough investigation of its structural integrity.

The concept includes an approximate 10,750 square foot building (Figure 8) with an attached covered drive-through unloading area, caged exterior area for storage of select solid wastes and gas cylinders, and a loading dock. It should be noted that the loading dock depth and design will need to be evaluated in consideration of a water table depth investigation and the base flood elevation (described in greater detail below). The use of flood-proofing design and construction techniques and/or dock levelers may be necessary.

In addition to the main building, the concept design includes areas for carport-style canopies that can house roll-off containers to allow for acceptance of non-HHW recyclable materials should Zero Waste Sonoma desire.

3.1 Traffic Flow

Traffic for the conceptual facility is envisioned as counterclockwise to minimize vehicle conflicts. Facility employees and users would enter the property at the southeast corner and be directed to the appropriate drop-off point.

Customers wanting to visit the exchange store would access the facility from the southwest entrance (Figure 9) and proceed to the exchange store parking area. Customers intending to deliver HHW or other approved materials would access the facility in the southeast entrance and will be directed to the covered unloading area (or to the appropriate roll-off container) from a staffed receiving kiosk in the parking lot at sufficient distance from the entrance to minimize traffic queuing on Pruitt Avenue. The kiosk location could be potable to allow relocation to accommodate heavier weekend traffic

In all instances, counterclockwise traffic flow is envisioned and sufficient turning radii exists to accommodate the various vehicles that would be accessing the facility. All

vehicles would exit the facility in the southwestern entrance. Paved passenger vehicle parking areas are shown for 24 vehicles to accommodate facility employees and visitors. The facility will be fenced and gated to restrict access when closed.

3.2 HHW Building Operations

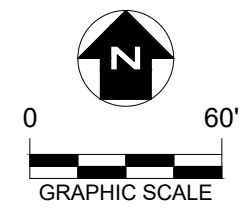
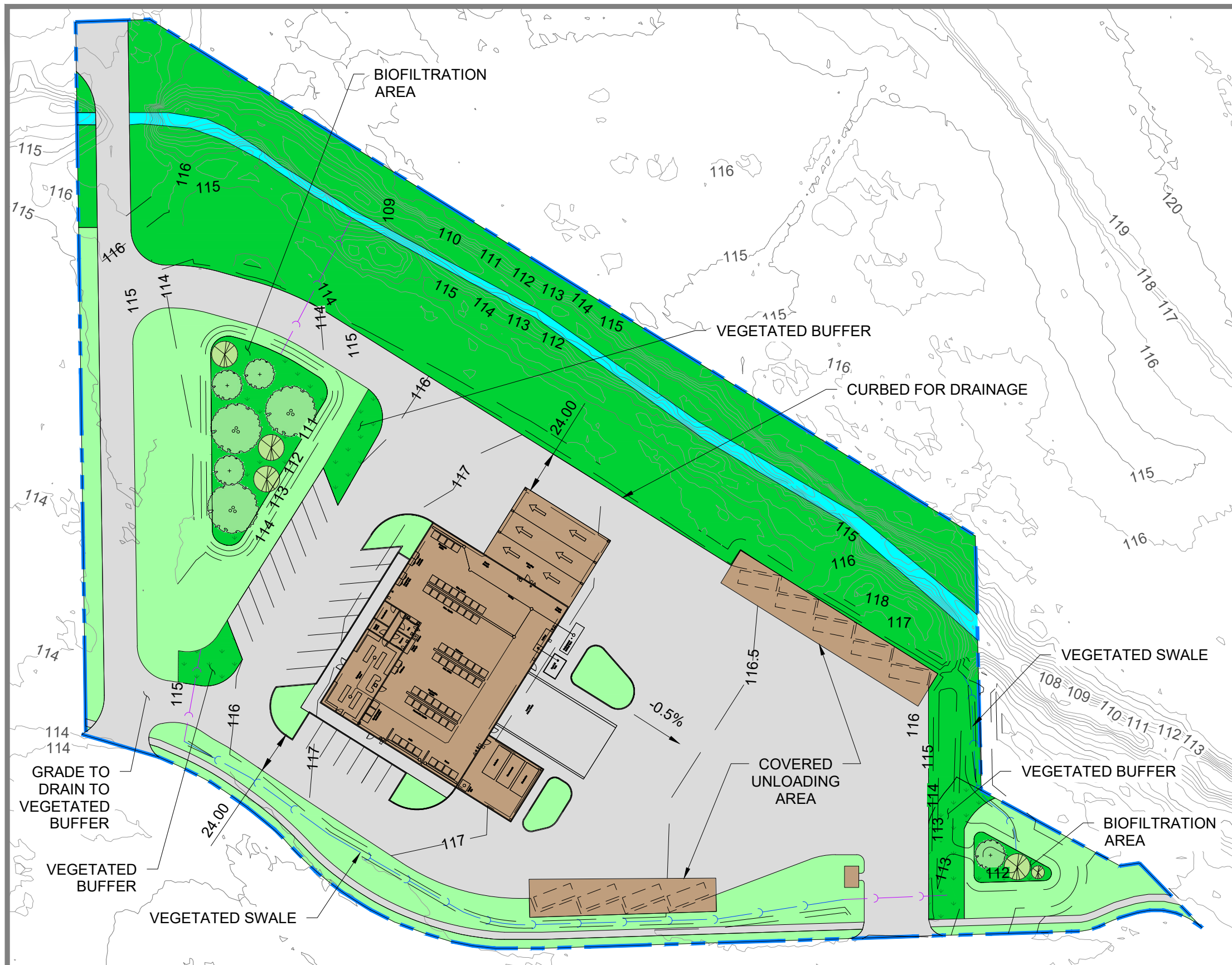
The draft building concept also includes preliminarily designated areas for material acceptance, sorting, bulking, storage and containment, loadout, restrooms, mechanicals, and includes area for an exchange store (Figure 8).

Once accepted in the covered unloading area, the materials would be moved into the building, segregated, and separately stored by hazard type. It is assumed that the majority of the bulked liquid materials will be stored in 55-gallon drums, although some bulked liquids may be desired to be stored in larger capacity containers (e.g. transportable totes or exterior above ground tanks). Other materials may be stored in pallets and/or Gaylord boxes, storage shelves/cabinets, or roll-off (or shipping) containers. It should be noted that the layout and storage configuration depicted on Drawing D5 is for illustration purposes only. The ultimate design will need to be based on the anticipated types and quantities of material to be received.










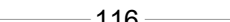
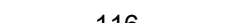
It is recommended that the floor within all sorting, processing, and storage areas be constructed of epoxy-coated concrete with water-stops and sloped to spill collection points. Adequate secondary spill containment will need to be provided for different hazard types as necessary to prevent any potential mixing hazards or spills from escaping the building. Secondary containment measures may include concrete barriers, zero-discharge foundation design, sumps, spill containment pallets, and/or double wall tanks. Ventilation will be required in areas where bulking of flammable liquids is performed.

3.3 Building Alternatives

APTIM understands ZWS has additional uses envisioned for the property and building such as staff office space and a board meeting room. Depending on office and meeting room size, these options may be accommodated on the property by means of a second floor. However, this option would require installation of an elevator for compliance with the Americans with Disabilities Act. The building single floor footprint could be increased by reducing the unloading area by one lane, relocating the southern parking area to the location of the south covered unloading area, and expanding onto the grass open spaces to the east of the conceptual building footprint shown on Figure 7.




LEGEND

-  APPROXIMATE PROPERTY BOUNDARY
-  BUILDING
-  PAVED LAND COVER
-  GRASS OPEN SPACE
-  BIOFILTRATION AREAS
-  WOODED OPEN SPACE
-  WATER
-  VEGETATED SWALE
-  CULVERT UNDER ROAD
-  EXISTING ELEVATION CONTOUR
-  PROPOSED ELEVATION CONTOUR

NOTES

1. EXISTING CONTOURS DEVELOPED FROM U.S. GEOLOGICAL SURVEY, 20171019, USGS ORIGINAL PROJECT RESOLUTION SONOMA_COUNTY_CA_LIDAR BH_SOCO_0046: U.S. GEOLOGICAL SURVEY.
2. THE PROPOSED DESIGN RECOMMENDATIONS INCLUDE SUFFICIENT OPEN SPACE AND LANDSCAPED AREAS FOR THE SITING OF BMPs. FINAL BMP SELECTION SHOULD BE COORDINATED WITH THE PROJECT ENGINEER AND LANDSCAPE DESIGNER TO ENHANCE THE OVERALL FUNCTION AND DESIGN OF THE SITE.

REV. NO.	DATE	DESCRIPTION



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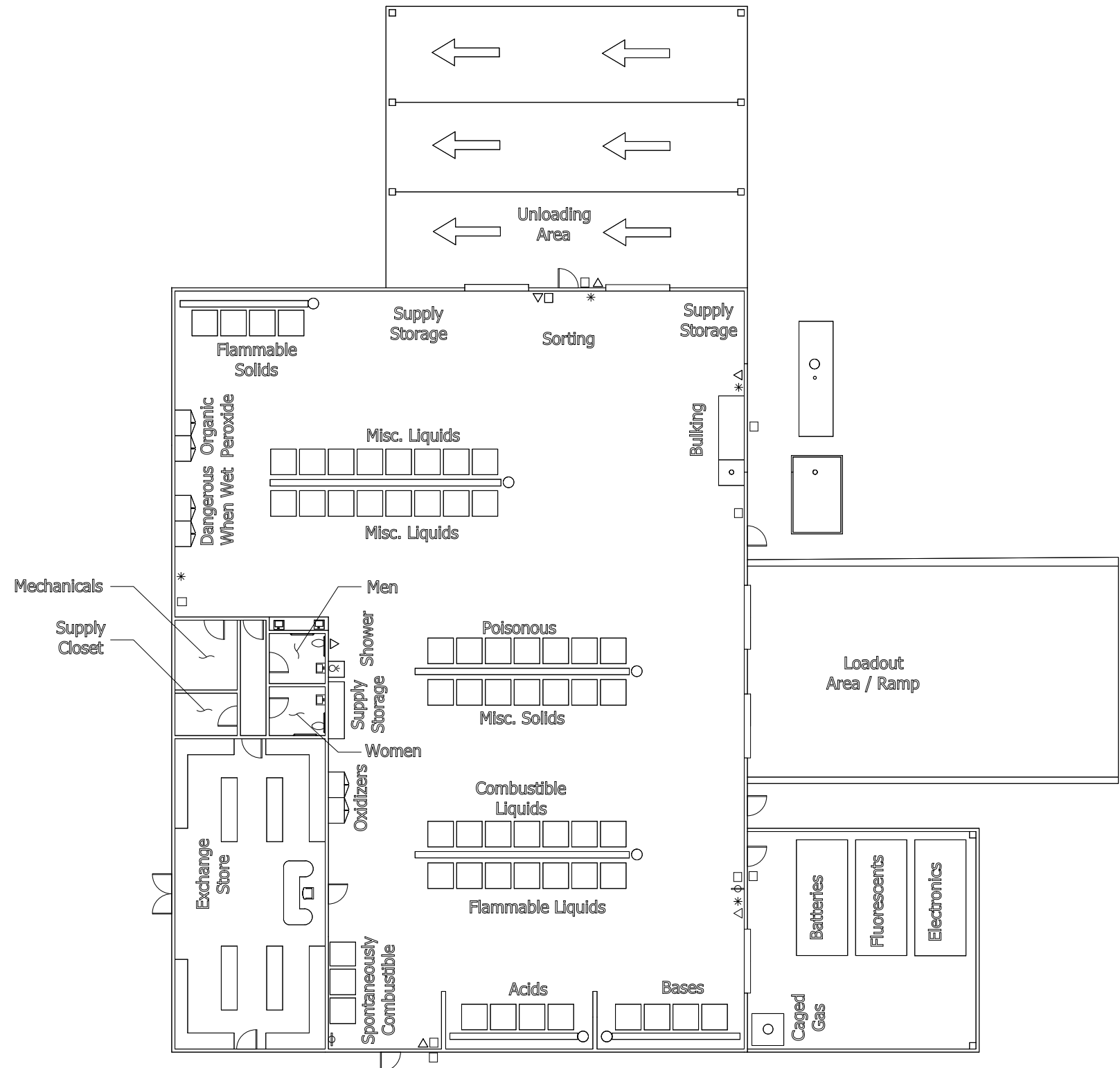
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**ZERO WASTE SONOMA
HHW SITE FEASIBILITY STUDY**

**FIGURE 7
CONCEPTUAL SITE LAYOUT**

DRAWN BY:	CMR	APPROVED BY:	DAM	PROJ. NO.:	631029636	DATE:	NOVEMBER 2023
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NOTES

1. THE BUILDING LAYOUT AND MATERIAL STORAGE AREAS DEPICTED ON THIS DRAWING ARE CONCEPTUAL FOR ILLUSTRATION PURPOSES ONLY.

REV. NO.	DATE	DESCRIPTION

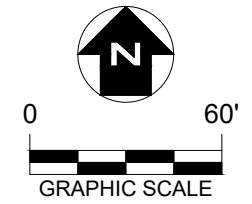
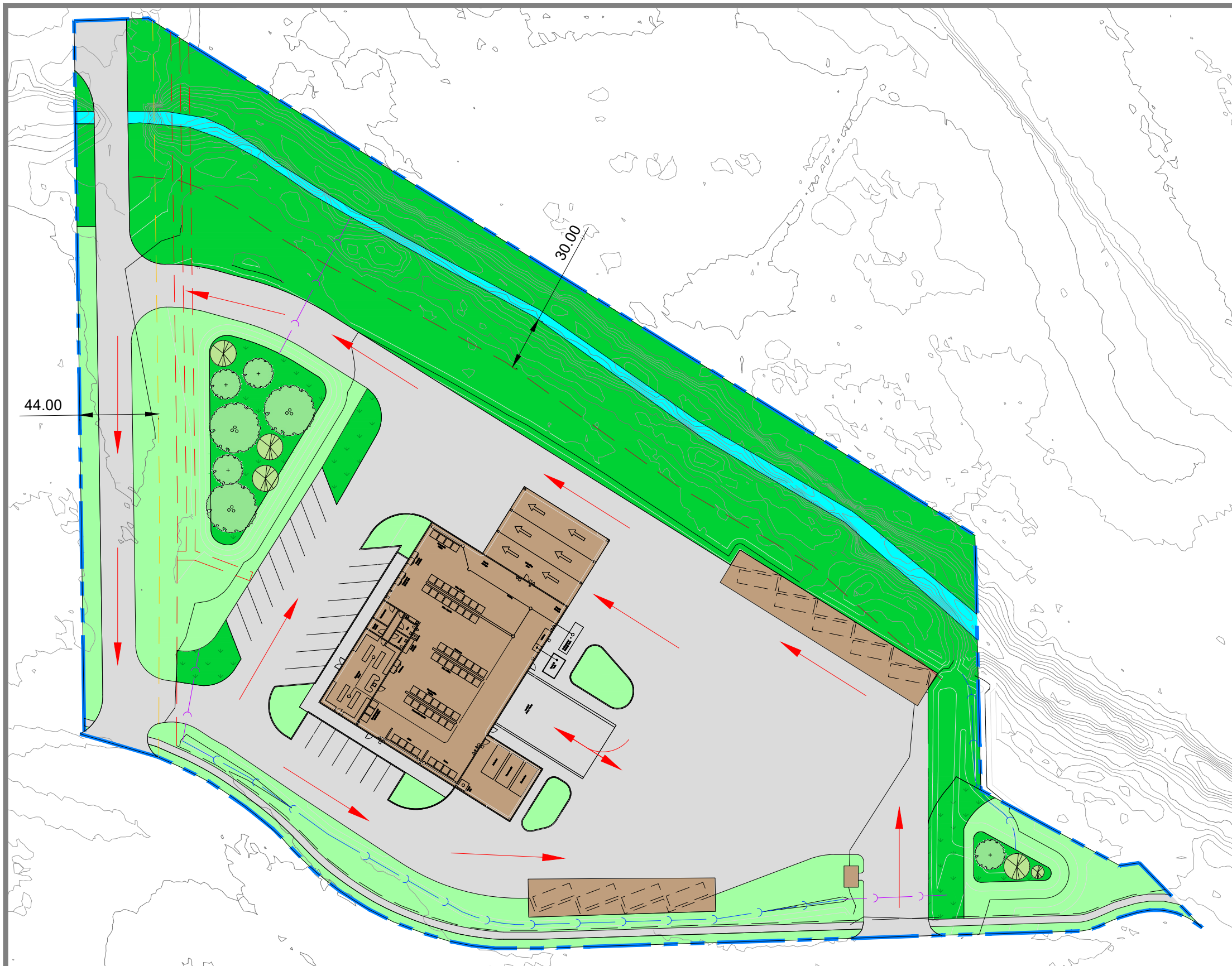


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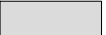










**ZERO WASTE SONOMA
 HHW SITE FEASIBILITY STUDY**

**FIGURE 8
 CONCEPTUAL BUILDING LAYOUT**

DRAWN BY:	CMR	APPROVED BY:	DAM	PROJ. NO.:	631029636	DATE:	NOVEMBER 2023
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LEGEND

-  APPROXIMATE PROPERTY BOUNDARY
-  BUILDING
-  PAVED LAND COVER
-  GRASS OPEN SPACE
-  BIOFILTRATION AREAS
-  WOODED OPEN SPACE
-  WATER
-  VEGETATED SWALE
-  CULVERT UNDER ROAD
-  ROAD EASEMENT
-  UTILITY EASEMENTS
-  TOWN OF WINDSOR CREEKSIDE DEVELOPMENT PLAN SETBACK
-  TRAFFIC FLOW

NOTES

1. EXISTING CONTOURS DEVELOPED FROM U.S. GEOLOGICAL SURVEY, 20171019, USGS ORIGINAL PROJECT RESOLUTION SONOMA_COUNTY_CA_LIDAR BH_SOCO_0046: U.S. GEOLOGICAL SURVEY.
2. APPROXIMATE EASEMENTS FROM BRELJE & RACE. PRELIMINARY STUDY. 5885 PRUITT AVE. SITE EXHIBIT. NOVEMBER 2022.

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**ZERO WASTE SONOMA
HHW SITE FEASIBILITY STUDY**

**FIGURE 9
PROPERTY EASEMENTS AND
GENERAL TRAFFIC FLOW**

DRAWN BY: CMR APPROVED BY: DAM PROJ. NO.: 631029636 DATE: NOVEMBER 2023

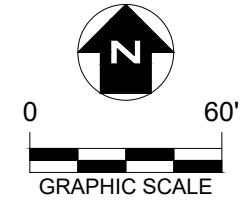
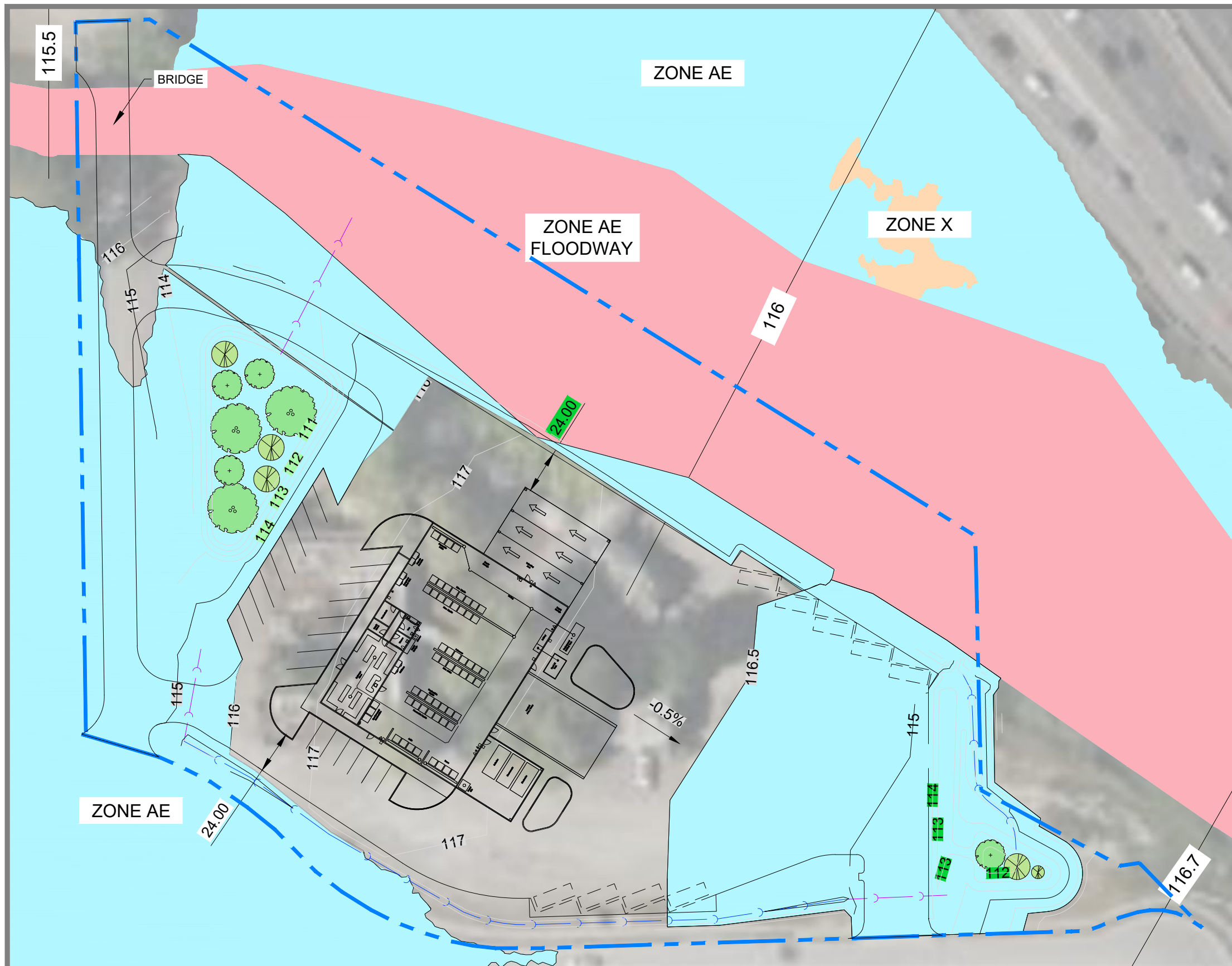
3.4 Floodplain Development

Construction outside of the Regulatory Floodway, but within the Zone AE Special Flood Hazard Area will require a Floodplain Development Permit from the Sonoma County Floodplain Administrator. Application for this permit requires site plans showing the locations of various site elements as well as certification that any structure will meet the floodproofing requirements within the ordinance (e.g. anchoring and flood resistant materials). Such floodproofing is possible through thoughtful site design or by setting the finished floor above the base flood elevation.

As shown (Figure 10), the concept design includes a finished building floor that is approximately 2 feet above the base flood elevation (BFE) of 116-ft MSL. Increasing this finished floor elevation may be desired to increase separation of the finished floor and recessed loading dock from the BFE. However, this will require may impact building access. Final floor elevation will be determined during the civil and architectural design phase of the project.

While fill is allowed in the special flood hazard area floodplains, fills in these areas are subject to no net fill provisions of Sonoma County Code section 11.14.020(C.9). This means that any fills need to be offset with equivalent cuts (storage) to maintain the parcel's flood temporary storage capacity avoiding impacts to the BFE for neighboring properties. These cut storage areas need to be graded to blend with the natural terrain and allow for the rise and recession of floodwaters. This has been incorporated into APTIM's conceptual design with the inclusion of storage in biofiltration areas that are connected to the creek as shown on Figure 10. Permit level documents will require thorough hydraulic modeling to demonstrate not net loss of floodplain storage.

It should be noted hydraulic modeling or other demonstrations may be required during the permitting phase in order to demonstrate the site design will not impede the parcel's flood temporary storage capacity. These requirements would be at the discretion of the Planning Director and only upon submittal of an advanced design for permit.



LEGEND

- - - APPROXIMATE PROPERTY BOUNDARY
- ZONE AE - FLOODWAY X
- ZONE AE - NON FLOODWAY (HIGH RISK)
- ZONE X (LOW RISK)
- 116 — FLOOD ELEVATION

NOTES

1. AERIAL OBTAINED FROM GOOGLE EARTH IMAGERY (MARCH 2023).
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. PRELIMINARY FEMA NATIONAL FLOOD HAZARD LAYER SHAPEFILES. PUBLISHED 10/27/2022. ACCESSED 08/04/2023. AVAILABLE AT: [HTTPS://MSC.FEMA.GOV/PORTAL/](https://msc.fema.gov/portal/)



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**ZERO WASTE SONOMA
HHW SITE FEASIBILITY STUDY**

**FIGURE 10
PROPOSED DEVELOPMENT ESTIMATED FLOOD ZONES**

DRAWN BY:	CMR	APPROVED BY:	DAM
PROJ. NO.:	631029636	DATE:	NOVEMBER 2023

REV. NO.	DATE	DESCRIPTION

3.5 Industrial Stormwater Management

In addition to reviewing the location of the 100-year floodplain, Aptim also reviewed the requirements of the California Regional Water Quality Control Board, North Coast Region (General Order No. R1-2015-0030, NPDES NO. CA0025054) which describes regulatory requirements for stormwater management.

As the concept development will reduce impervious cover compared to existing conditions, the site will not be subject to volume capture requirements. However, Best Management Practices (BMPs) will need to be incorporated and sized in accordance with the California Stormwater BMP Handbook to treat stormwater pollutants associated with paved surfaces, such as total suspended solids.

These BMPs are anticipated to include tree planting, vegetated buffer strips, stream buffers, high-quality landscaping soils, and/or constructed wetlands. Aptim has allowed sufficient open space and landscape area in the presented concept design for such BMPs and which may also allow for demonstration of some compensatory storage to offset floodplain filling as described above.

Final BMP selection will need to be developed in coordination with Sonoma County as the design is advanced and the project will ultimately need to be registered with the California Water Boards, Stormwater Multiple Application and Report Tracking System.

4 PERMITTING APPROVALS

The construction and operation of an HHW collection facility requires numerous permits. This section provides ZWS with a summary of the permitting and approval process. This will also include any identified special study requirements, offsite improvements, and/or other permitting concerns.

Numerous permits and approvals are subject to requirements of the following agencies where applicable:

- County Planning Department
- City/County Clerk
- Building Department
- Local Utility Company
- Public Works Department
- Local Enforcement Agency/CalRecycle
- Regional Water Quality Control Board (RWQCB)
- Air Pollution Control District/Air Quality Management Board or equivalent agency
- Fire Department
- California Highway Patrol
- Department of Toxic Substances Control
- California Department of Health Services—Radiological Health Branch
- Coordinated Unified Program Administrator (CUPA)
- Occupational Health and Safety Certification
- State Board of Equalization—Environmental Fee Division
- U.S. Army Corp of Engineers
- Wetland regulations: 402 Permit (if impacting wetland(s) or navigable waterway)

In addition to the listed permits and approvals, there are a number of required construction and building permits that are not included in this discussion. Construction and building permits are highly dependent upon the site location, facility design features, and the jurisdiction where the facility will be located. Most permits and approvals must be submitted and approved prior to site operation and applications can be prepared by ZWS, or ZWS' consultant or contractor. Some permits or approvals will require public notices and hearings. Many permits and approvals can be prepared and submitted concurrently. Site conditions will determine extent of some of the permits.

The key permits, approvals, safety plans, and estimated permit time periods that may be required include:

Table 1

Permit/Approval	Approving Agency	Estimated Time
<i>CEQA Review</i>	<i>Local</i>	<i>6-8 months</i>
<i>Use Permit</i>	<i>Local</i>	<i>3-4 months</i>
<i>Hazardous Waste Identification Number</i>	<i>DTSC</i>	<i>1 month</i>
<i>Permit-by-Rule (PBR)</i>	<i>CUPA</i>	<i>3 months</i>
<i>Agreement with Property Owner</i>	<i>CUPA</i>	<i>2 months</i>
<i>Operations Plan including Material Exchange Quality Assurance Plan</i>	<i>Sponsor/Contractor</i>	<i>2 months</i>
<i>Emergency Services Notification</i>	<i>Sponsor/Contractor</i>	<i>2-4 months</i>
<i>Approval by local fire and air district if bulking of flammables will be conducted</i>	<i>Local Fire & Air</i>	<i>3-6 months</i>
<i>Hazardous Materials Business Plan</i>	<i>CUPA</i>	<i>1 month</i>
<i>Engineer Containment Statement</i>	<i>Professional Engineer</i>	<i>1 month</i>
<i>Hazardous Waste Tank Assessment</i>	<i>Professional Engineer</i>	<i>2 months</i>
<i>Universal Waste Handler Registration</i>	<i>DTSC</i>	<i>1 month</i>
<i>Local Government Proof of Designation for Covered Electronic Waste</i>	<i>CalRecycle</i>	<i>1 month</i>
<i>Home-Generated Sharps Consolidation Point</i>	<i>Medical Waste Local Enforcement Agency</i>	<i>1 month</i>
<i>Injury Illness Prevention Plan</i>	<i>Sponsor/Contractor</i>	<i>1 month</i>
<i>Air Compressor Permit</i>	<i>CalOSHA</i>	<i>3- 6 months</i>
<i>PaintCare Registration</i>	<i>PaintCare/Vendor</i>	<i>1 month</i>
<i>Spill Prevention Control and Countermeasure Plan</i>	<i>Sponsor/Contractor</i>	<i>1 month</i>
<i>Phase I Environmental Assessment (required within one year of start of operations)</i>	<i>Sponsor/Contractor</i>	<i>1 month</i>
<i>Household Hazardous Waste Element</i>	<i>SCWMA/CalRecycle</i>	<i>2 months</i>
<i>County Hazardous Waste Management Plan</i>	<i>Local</i>	<i>3-6 months</i>

Discussion of these permitting elements is provided below as the elements relate to the subject property.

4.1 CEQA Review

The California Environmental Quality Act (CEQA) is the process for public disclosure and review of potential environmental impacts related to the proposed project.

There is no record of any CEQA review for previous or current uses of the property (APN 059-271-82) in a parcel report acquired from the Town of Windsor GIS website. Any CEQA analysis will need to consider the current environmental impacts of the project currently under environmental review, “Shiloh Business Park” on the parcel (APN 059-271-095), immediately adjacent to the northern and eastern boundaries of the parcel.

4.2 Use Permit

A Use Permit authorizes use of the land for the proposed activities. The property zoning designation may approve use of the property with obtaining a Use Permit.

The current zoning designation for the subject parcel is HI (Heavy Industrial); the current land use designation in the General Plan is also HI (Heavy Industrial). A review of the allowed uses for the HI zone (Table 2-6, Allowed Uses and Permit Requirements for Industrial Zoning Districts) does not identify a use which falls reasonably within the scope of the proposed project. It does appear to be clear that a Use Permit application will need to be prepared, submitted and approved in accordance with the required CEQA analysis.

4.3 Hazardous Waste Identification Number

This is a unique, site-specific number assigned to the program sponsor at the specific site address. The Department of Toxic Substances Control issues this number and requires that the local government sponsor obtain the number even if that facility is operated by a private contractor. Typically, HHW programs are issued a number that starts with CAH to designate an HHW facility and indicates in the state system that the facility is exempt from hazardous waste taxes and state fees.

An application to the Department of Toxic Substances Control (DTSC) will need to be prepared and submitted for the facility.

4.4 Permit-by-Rule (PBR)

This document identifies the HHW facility sponsor, operator, wastes accepted and not accepted, hours of operation, financial assurance for closure, facility description, and facility map. The local Certified Unified Program Agency (CUPA) must receive this PBR at least 45-days prior to the start of operations and their formal acknowledgement of the operations is required. A copy of the application is also submitted to the Department of Toxic Substances Control.

An application to the CUPA (with a copy to DTSC) will need to be prepared and submitted for the facility. The Hazardous Materials (HazMat) Unit has the responsibility for the County's Certified Unified Program Agency (CUPA) Programs, which includes the Town

of Windsor.

4.5 Agreement with Property Owner

An agreement with the property owner acknowledging the use of the property for the HHW facility is required as part of the Permit-by-Rule submittal package.

Given current expectations that the County will be acquiring the property, this agreement would be moot.

4.6 Operations Plan

An Operations Plan is required of all HHW facilities and identifies specific procedures of managing the HHW and includes copies of relevant permit documents.

An Operations Plan will need to be prepared and submitted for the facility.

4.7 Emergency Services Notification

Local hospitals and emergency agencies are required to be notified of the HHW facility.

Proper notification to local hospitals and emergency agencies will be required for the facility.

4.8 Approval by Local Fire and Air District

If bulking of flammables will be conducted at the HHW facility, the approval of the local fire and air district is required. HHW facilities have not been issued air permits but some are provided a set of conditions (e.g. maximum amount of HHW managed) for compliance in order to not apply for a permit.

Permitting with the Bay Area Air Quality Management District and the Sonoma County Fire District will be required for the facility.

4.9 Hazardous Materials Business Plan

Facilities handling hazardous materials and/or hazardous waste, over a minimum quantity, must submit a Hazardous Materials Business Plan to the local Certified Unified Program Agency annually. The plan identified the owner and operator of the facility, hazardous materials/waste inventory, financial assurance, emergency procedures, training program, and aboveground tank information is applicable.

A Hazardous Materials Business Plan will need to developed in conjunction with the local CUPA (with a copy to DTSC via the CERES website) and submitted for the facility.

4.10 Engineer Containment Statement

A written statement is required to be signed by an independent, qualified professional engineer, registered in California, indicating that the containment system is suitably designed.

An engineering assessment of the containment system will need to be prepared and submitted for the facility.

4.11 Hazardous Waste Tank Assessment

Aboveground storage tanks for hazardous wastes are required to have an assessment prepared by an independent professional engineer or apply for an exemption. The assessment is required to be renewed every five years and the exemption has a three-year renewal frequency.

An engineering assessment of the above ground storage tanks will need to be prepared and submitted for the facility.

4.12 Universal Waste Handler Registration

Persons handling universal waste electronics are required to submit an online registration to the Department of Toxic Substances Control.

An Universal Waste Handler Registration will need to be prepared and submitted to DTSC for the facility.

4.13 Local Government Proof of Designation for Covered Electronic Waste

Provides covered electronic waste collectors and recyclers to act on the jurisdiction's behalf to obtain payment from California and allows reduced record keeping.

A Local Government Proof of Designation will need to be developed for the facility.

4.14 Home-Generated Sharps Consolidation Point

Allows collection of home-generated sharps without obtaining a medical waste facility permit. Once collected these wastes are regulated as medical waste. The default storage time on-site is seven days but can be extended to 30 days or more if approved by the Local Medical Waste Management Agency.

An authorization request for use as a Home-Generated Sharps Consolidation Point will need to be prepared and submitted for the facility.

4.15 Injury Illness Prevention Plan

This plan required by CalOSHA contains policy and procedures for ensuring employee

safety.

An Injury and Illness Prevention Plan will need to be developed for the facility.

4.16 Air compressor permit

If an air compressor is used on site, CalOSHA requires submittal and approval of a permit to operate a pressure vessel. The compressor is needed if pneumatic tools are used in the facility.

Permitting of an air compressor, may be required with CalOSHA for the facility.

4.17 PaintCare Registration

Participation in the California paint stewardship program for management of architectural paint at no supply or disposal costs requires that the sponsoring jurisdiction, or its contractor, receive registration from the approved paint stewardship organization. Currently, California only has one stewardship organization, PaintCare. This program can also provide payment to the HHW program for reuse of paint or bulking of paint.

Registration with PaintCare will be required for the facility.

4.18 Spill Prevention Control and Countermeasure Plan

Facilities with more than 1,320 gallons of petroleum products must prepare a Spill Prevention Control and Countermeasure Plan (SPCC) identifying the types and amounts of petroleum products on site, emergency measures, responsible personnel, and training. Recent changes to this requirement do not require the use of a professional engineer to prepare this plan.

An SPCC Plan will need to be developed in conjunction with the approval of the local CUPA and submitted for the facility.

4.19 Phase I Environmental Assessment

Within the first year of operations, a Phase I Environmental Assessment must be completed and evaluated for investigation for releases of hazardous waste at the HHW facility property. The property environmental assessment required for real estate transaction can suffice for the requirement.

APTIM has completed a Phase I Environmental Assessment for the facility.

4.20 Household Hazardous Waste Element

The Household Hazardous Waste Element is part of a jurisdiction's Integrated Waste Management Plan (AB 939) which specifies how a jurisdiction will manage HHW. This

Element is commonly updated at the time of a jurisdiction's annual review due every August 1st and will not require much effort.

Zero Waste Sonoma will need to amend the Household Hazardous Waste Element to add the facility.

4.21 County Hazardous Waste Management Plan

In 1986, California approved a requirement for County Hazardous Waste Management Plans, also referred to as Tanner Plans, required each County to develop siting criteria for hazardous waste facilities, including household hazardous waste facilities (Health and Safety Code 25199). Sonoma County's plan can be reviewed for the approved criteria although a local land use decision could satisfy this requirement with notification to Department of Toxic Substances Control and other affected state agencies.

Zero Waste Sonoma will need to assure the facility is developed in accordance County Household Hazardous Waste Plan criteria to assure the facility is in compliance.

4.22 Other Permit/Approval Considerations

Depending upon the site activities, other potential permit or approval consideration can include registration for management of treated wood waste, underground tank monitoring and permitting, and consideration within an industrial or municipal stormwater permit.

It is likely that a Stormwater Pollution Protection Plan may need to be developed for the site to be in compliance with state stormwater general permit regulations, particularly given its location direction adjacent to Pruitt Creek.

Registration with new extended producer responsibility organizations (for carpet, pharmaceuticals and sharps, mattresses, batteries and packaging may be required for the facility, depending on which material types are collected at the facility.

5 ESTIMATED COST

The Sweetser analysis provided cost estimates from existing HHW facilities that are appropriate to use for this conceptual level effort. A summary of costs from the Sweetser analysis are provided below in Table 2

Table 2

Item	2018 Cost	Inflation Factor	2023 Estimate
Permitting	\$50,000		\$61,000
Construction	\$4.9 MM	1.22	\$6.0MM
Construction Management	\$414,000		\$505,000
Operations (Annual)	\$600,000		\$732,000

Thos costs presented in the 2018 Sweetser analysis have been adjusted in Table 2 for the substantial inflation that has occurred in the past 5 years. The overall cost to permit and build the facility is on the order of \$6.5 to \$7.0 million.

Operational cost estimates for facility staff and HW disposal is on the order of \$750,000.

6 CONCLUSIONS

The proposed HHW facility on Pruitt Avenue in south Windsor is found to be feasible for HHW development on a conceptual level. The subject property has access to water and sewer utility service from the Town of Windsor. Electrical utility service exists on site through Pacific Gas and Electric. Roads in the industrial park the property is located in while private, have appropriate storm drainage.

Construction of a +10,000 square foot building is possible with the conceptual footprint presented in this study. Additional floor space for a ZWS office and board meeting space may be possible on this property with either a second story (would require ADA compliance) or expanding the building footprint on the proposed site layout.

The following concerns must be accounted for with continuing site development.

1. Floodplain temporary storage. The property is within the Zone AE 100-yr floodplain as is much of the industrial park it's located in. The conceptual building pad as presented in the study is 2 feet above the calculated (by others) base flood elevation. As the site design advances, detailed hydraulic analysis will be required to design sufficient temporary floodplain storage into the site civil design such that construction of the facility does not negatively impact the floodplain boundary for neighboring properties.
2. Per the findings of the Phase II ESA, installation of water wells or other disturbance of subsurface soils should be avoided. Earthwork construction will require a soil management plan for the new temporary floodplain storage basins as shown in the conceptual site plans to manage insitu soils with elevated levels of the constituents of concern found during the Phase II ESA.
3. The old Standard Avenue bridge across Pruitt Creek should not be used for public or other facility traffic without a review of its structural integrity.



LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

5885 Pruitt Avenue
Windsor, California

Prepared for:
Zero Waste Sonoma
2300 County Center Drive, Suite B-100
Santa Rosa, CA 95403

Prepared by:
Aptim Environmental & Infrastructure, LLC

Project No. 631024124

October 30, 2023

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Appendix C	Laboratory Analytical Reports

1.0 INTRODUCTION

1.1 Site Description

The property subject to this Phase II Environmental Site Assessment (ESA) is located at 5865-5897 Pruitt Avenue, Windsor, California (hereinafter referred to as the “Site”). The Site is 4.1 acres according to the Sonoma County Parcel Viewer. The Site is improved with three buildings. Buildings 1 and 2 are one story wood-frame buildings and Building 3 is a two-story wood-frame building. Building 1, 5885 Pruitt Avenue, is occupied by two current tenants: Elite Concrete, and BKW Concrete, Inc. for office space use. Building 2 is used for offices, a warehouse, and shop space by Restoration Construction Abatement (RCA). Building 3 is used for offices by RCA. Both Buildings 2 and 3 are addressed as 5895 Pruitt Avenue. The parcel containing the Site is identified with an address range of 5865 – 5897 Pruitt Avenue according to the Sonoma County Parcel Viewer. The remainder of the Site is comprised of parking and drive areas and associated landscaping. Additionally, Pruitt Creek flows parallel to the northern property boundary from southeast to northwest through the Site. Pruitt Creek appears to have been filled and redirected to its present location to facilitate construction of Building 2 between 1973 and 1983, according to APTIM’s review of historic aerial photographs of the Site. Building 2 is located on top of the former creek location. A bridge that crosses Pruitt Creek is located in the far northwestern corner of the Site.

The Site is presently used for commercial and light-industrial purposes. A small paint-spray booth and a wood-working shop are present in Building 2. Based on the observed conditions, no significant staining was noted in these areas and neither the paint-spray booth nor the wood-working shop were considered significant environmental concerns. The Site location is depicted on **Figure 1**.

1.2 Recognized Environmental Conditions

APTIM performed a Phase I Environmental Site Assessment (ESA) at the Site that was memorialized in a report dated April 6, 2023. The Phase I ESA Report identified the following recognized environmental conditions (RECs):

- The presence of fill material in the former Pruitt Creek channel on the subject property from an unknown source meets the American Society for Testing Materials (ASTM) definition of a REC on the subject property.
- The Ecodyne Tower Site is engaged in active monitoring of hexavalent chromium in groundwater. Since the site is located in proximity to the subject property and groundwater flow direction has historically fluctuated to the northeast in the direction of the subject property, the Ecodyne Tower Site meets the ASTM definition of a REC on the subject property.



- Since the Shiloh Group Property is an active site cleanup program with identified operable units along the eastern boundary of the property, remediation activities on the Shiloh Group Property meet the ASTM definition of a REC on the subject property.

Approximate locations of these RECs are identified in the attached **Figure 2**.

APTIM was contracted by Zero Waste Sonoma (the Client) to conduct a Limited Phase II ESA, including collection of soil and groundwater samples for laboratory analysis and comparison to applicable Environmental Screening Levels (ESLs) by the San Francisco Bay Regional Water Quality Control Board as well as the US EPA Regional Screening Levels (RSLs). APTIM recommended collection of soil and groundwater samples at locations of the Site that were best suited to assess the reported RECs.

APTIM received authorization to proceed with the scope of work via the Agreement for Professional Services dated July 25, 2023 for Limited Phase II Environmental Site Assessment.



2.0 LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES

The Limited Phase II ESA was performed in accordance with the APTIM proposal dated April 19, 2023. The purpose of the subsurface investigation was to evaluate potential environmental impacts resulting from the RECs identified during the Phase I ESA and to gain a present understanding of soil and groundwater conditions at the Site. The following sections provide discussions of the methodologies and results of the investigation. APTIM has included a Photographic Documentation Log of the Limited Phase II ESA in **Appendix A**.

2.1 Statement of Quality Assurance

APTIM personnel arranged and directed the field investigation activities. Sampling procedures were performed according to standards set forth by the United States Environmental Protection Agency (US EPA) and the ASTM. Field measurements were taken using tape measures, GPS instrumentation, and other calibrated field instrumentation. Laboratory analyses were completed by a qualified environmental laboratory using quality control criteria equivalent to US EPA and/or laboratory specifications. APTIM attests that the information, data, and resulting decisions contained herein are technically sound, statistically valid, and properly documented.

APTIM retained Pace Analytical of Bakersfield, California as the primary contract environmental laboratory for this project.

Data collection activities were performed by APTIM professionals and subcontractors who are trained in accordance with Occupational Safety and Health Administration (OSHA) standard 29 CFR 1910.120, *Hazardous Operation and Emergency Response Guidelines*. Individuals involved with these activities were required to conform to a *Site-Specific Health and Safety Plan* prepared by APTIM.

Soil boring locations are shown on **Figure 3**. The sampling locations were strategically placed within the former creek channel (SB-1 and SB-2) and west and southern property boundaries (SB-3 to SB-5) to assess if the RECs identified in the Phase I ESA Report have impacted the subsurface soil and groundwater.

2.2 Limitations

The investigation was performed in accordance with currently accepted engineering practices and principles. APTIM performed this Limited Phase II ESA in a professional manner using the degree of skill and care required for similar conditions by reputable and competent environmental consultants. Nonetheless, several major qualifications are inherent in the conduct of this or any other environmental assessment, including:



- The possibility that sources of future environmental liability have yet to manifest themselves to the point where they are reasonably identifiable through external and limited physical investigation, such as was conducted in this case;
- The results of APTIM's investigation represent the application of a variety of engineering disciplines to material facts and conditions associated with the Site. It should be recognized that, over time, the facts and conditions reported are subject to change; and,
- APTIM's conclusions are limited by the fact that boreholes were drilled as presented in **Figure 3**, and the investigation was limited to those analytical parameters specifically outlined in this report. The subsurface investigation was based on the specific borehole locations drilled and conditions may vary between boreholes.

APTIM shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time APTIM performed the ESA. Although APTIM believes the information contained herein is reliable, the accuracy or completeness of the information provided to APTIM by others cannot be guaranteed. APTIM prepared this report solely for the benefit of the Client. Use of or reliance upon this report by a third party other than the Client shall be solely at the risk of any such third party and without legal recourse against APTIM, its subsidiaries and affiliates, or their respective employees, officers, or directors, regardless of whether the action in which recovery of damages is sought is based upon contract, tort (including the sole, concurrent, or other negligence and strict liability to APTIM, statute or otherwise).

2.3 Field Methodologies and Sample Collection Procedures

2.3.1 Permitting and Underground Utility Locate

APTIM obtained Permit No. SR1000217 Sonoma County Department of Health Services for an Environmental Assessment prior to the field activities.

Prior to Site mobilization, public utilities were located through the public utility locator service, Call 811. APTIM additionally subcontracted GPRS, Inc. to perform private underground utility location services to locate unmarked underground utilities prior to advancement of all soil borings.

2.3.2 Soil Borings

APTIM directed the advancement of five soil borings at the Site on September 18, 2023. The boring locations were probed for utility clearance purposes from ground surface to 5 feet below grade, then advanced to depths ranging from 10-25 feet below ground surface (bgs) by utilizing a portable track-mounted GeoProbe™ 3126GT direct-push unit. Soil samples were obtained using 2-inch diameter by 48-inch long MacroCore™ samplers with polyethylene



terephthalate glycol (PETG) liner inserts, in accordance with ASTM D 6282. Each boring was continuously sampled in 5-foot intervals. Borings were later backfilled with lean concrete via tremie method in accordance with the permit requirements and the surface was restored to match pre-investigation conditions.

An APTIM licensed professional geologist was on-Site to oversee the drilling operations. The geologist was responsible for characterizing the soils encountered, preserving representative samples, and maintaining field documentation. Each boring was logged on a standardized form in accordance with the *Unified Soil Classification System*, ASTM D 2487. Copies of the soil boring logs are attached in **Appendix B**. The locations of the soil borings are depicted on **Figure 3**.

2.3.3 Equipment Decontamination

Down-hole drilling and sampling equipment was decontaminated prior to use at the Site and between sampling locations. The purpose of decontamination is to prevent cross-contamination between sampling locations and sample intervals. Decontamination consisted of washing the equipment with a scrub brush in a solution of potable water and a non-phosphate detergent. Washed equipment was rinsed with distilled water.

2.3.4 Field Screening

The APTIM field scientist used a photoionization detector (PID), equipped with a 10.6 electron-volt lamp, to screen the soil samples as they were collected. A PID is a non-specific trace gas analyzer capable of detecting volatile organic compound (VOC) emissions in parts per million (ppm) concentrations. The PID was calibrated daily in accordance with the manufacturer's specifications. The PID screening results were noted on the soil boring logs in **Appendix B**. The PID results are generally used by the APTIM geologist to assist in the selection of samples to be submitted to the contract environmental laboratory for chemical analyses.

2.3.5 Soil Sample Preservation

With the exception of soil samples that were preserved for chemical analysis of VOCs, representative soil samples from each sampling interval were collected, in appropriate-sized, sterile glass containers with twist-on, Teflon-lined lids, as supplied by the contract environmental laboratory. Samples that were submitted for analysis of VOCs were preserved in the field in accordance with SW-846 Method 5035, using samplers as supplied by the contract environmental laboratory. Immediately after filling, labeling, and sealing the sample containers, they were placed into a cooler, on ice, for the duration of the daily field activities. The samples were maintained on ice until relinquished to the shipping facility at the earliest opportunity.



One soil sample was collected from each boring location and properly preserved for potential laboratory chemical analysis. Sample intervals were determined based on the REC being assessed, material observation, or field screening results. Soil samples were collected at a depth of 4 feet bgs in borings SB-1, SB-3, SB-4 and SB-5 and at a depth of 7 feet bgs in boring SB-2. The shallow soil sample from each borehole was selected for laboratory analysis of select contaminants of concern. Each collected soil sample was submitted to the sub-contracted laboratory under standard chain-of-custody procedures.

2.3.6 Groundwater Sampling Methodologies

APTIM converted the three soil borings along the site perimeter, SB-3 to SB-5, into temporary groundwater monitoring wells. Pre-packed wells were installed with ¾" Polyvinyl Chloride (PVC) riser and 10 feet of screen at depths of 15 to 25 feet bgs. Groundwater samples were collected utilizing low-flow techniques with a peristaltic pump. The wells were purged prior to sampling until either three volumes of water had been removed, or the well went dry.

Immediately after filling, labeling, and sealing the sample containers, they were placed into a cooler on ice for the duration of the daily field activities. The samples were maintained on ice until relinquished to the contract shipping facility at the earliest opportunity.

2.3.7 Sample Identification

Each soil and groundwater sample was identified relative to the soil boring location from where the sample was collected. For example:

- "SB-1-4" identifies a soil sample obtained from soil boring SB-1, from a depth of 4 feet bgs.
- The groundwater samples were named according to which boring/temporary well they were collected from, and do not have a depth indicated ("SB-3-W").

Sample containers were also labeled with information identifying the date and time of sample collection, and the initials of the APTIM scientist responsible for sample collection.

2.4 Laboratory Analysis Program

The soil and groundwater samples obtained during the Limited Phase II ESA were analyzed for the following:



SB-1 to SB-2 – REC consisted of former creek channel being filled with an unknown source

- VOCs via US EPA Method 8260B
- SVOCs via US EPA Method 8270
- RCRA 8 Metals via US EPA Method 6010/7471

SB-3 to SB-5 - REC consisted of off-site impact source identification

- VOCs via US EPA Method 8260B
- SVOCs via US EPA Method 8270
- RCRA 8 Metals via US EPA Method 6010/7471 – including hexavalent chromium

The analytical constituents above were based on a review of the prior regulatory reports for the Ecodyne Tower Site and Shiloh Group. The Ecodyne Tower Site is currently monitoring for hexavalent chromium in groundwater. Based on the development of operational units (OUs) on the Shiloh Group Property by the Department of Toxic Substance Control (DTSC), the contaminants of concern (COCs) included Polynuclear Aromatic Hydrocarbons (PAHs), pentachlorophenol, perchloroethylene (PCE), trichloroethylene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride (VC).

Soil and groundwater laboratory analyses were performed at the contract environmental laboratory in accordance with methodologies specified in the latest edition of the US EPA Publication Number SW-846, *Test Methods for Evaluating Soil Waste, Physical/Chemical Methods*. The soil sample laboratory analytical results are summarized in **Table 1** and the groundwater sample laboratory analytical results are summarized in **Table 2**. Copies of the complete laboratory analytical reports are included in **Appendix C**.



3.0 SUBSURFACE INVESTIGATION RESULTS

3.1 Site Geology & Groundwater Conditions

The elevation of the Site is approximately 118-131 feet above mean sea level, being higher in the center. Groundwater was encountered in each soil boring location where temporary monitoring wells were installed during the investigation. Field measured depth to water measurements ranged from 14 to 17 feet bgs.

The Site surface is comprised of one to two feet of compacted gravel. Below the gravel, clays predominated in the uppermost soils at borings SB-1 to SB-3. Clayey sand was found below a depth of 11 feet in SB-3. Borings SB-4 and SB-5 consisted of a mixture or combination of silt, clayey sand, sand, and clay. Detailed descriptions of the soils encountered at each boring location can be found in the soil boring logs, provided in **Appendix B**.

3.2 Remedial Objective Evaluation

APTIM compared the soil and groundwater laboratory results to the applicable Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board and the Regional Screening Levels (RSLs) established by the US EPA Region 9.

3.2.1 Soil Sample Analytical Results

APTIM submitted five soil samples for laboratory analyses of VOCS, SVOCs and Metals.

The evaluation of soil laboratory results included comparison to commercial/industrial, construction worker, terrestrial habitat, leaching to groundwater, gross contamination, and odor nuisance ESLs as well as industrial soil and protection of groundwater RSLs. The soil sample laboratory analytical results are summarized on **Table 1**. A copy of the laboratory analytical report is included in **Appendix C**.

VOCs in Soil:

- VOC constituents in soil were not reported at concentrations exceeding current ESLs or RSLs.

SVOCs in Soil:

- SVOC constituents in soil were not reported at concentrations exceeding current ESLs or RSLs.

Metals in Soil:

- Arsenic was reported at concentrations ranging from 3.1 to 5.4 milligrams per kilogram (mg/kg) in the collected soil samples, exceeding the followings ESLs: Com/Ind cancer risk ESL (0.31 mg/kg), Com/Ind Non-cancer (NC) Hazard ESL (3.63 mg/kg), Construction Worker Cancer Risk ESL (2.03 mg/kg) and/or Construction Worker NC Hazard ESL (0.98 mg/kg). The arsenic concentrations also exceeded the following RSLs: Industrial Soil (3 mg/kg), Risk-Based SSL (0.0015 mg/kg) and MCL-Based SSL (0.29 mg/kg).
- Barium was reported at concentrations ranging from 83 to 410 mg/kg in each of the soil samples, which exceeded the Risk-Based SSL (160 mg/kg) and/or MCL-Based SSL (82 mg/kg) RSLs.
- Hexavalent Chromium was reported at concentrations ranging from 0.64 to 1.2 mg/kg at soil sample locations SB-3, SB-4 and SB-5, which exceeded the Risk-Based SSL RSL of 0.00067 mg/kg.
- Mercury was reported at concentrations ranging from 0.03 to 0.1 mg/kg at locations SB-1, SB-2 and SB-3, which exceeded the Risk-Based SSL (0.033 mg/kg) and MCL-Based SSL (0.1 mg/kg) RSLs.

3.2.2 Groundwater Sample Analytical Results

APTIM submitted three groundwater samples from temporary wells located along the western and southern property boundaries during the Limited Phase II ESA. Groundwater samples were analyzed for VOCS, SVOCs and total metal concentrations.

The evaluation of groundwater laboratory results included comparison to direct exposure human health risk, aquatic habitat goal levels, groundwater vapor levels for commercial/industrial properties, gross contamination levels, and odor nuisance levels ESLs, as well as tapwater and maximum contaminant level RSLs. The laboratory analytical results are summarized on **Table 2**. A copy of the laboratory analytical reports is included in **Appendix C**.

VOCs in Groundwater:

- Naphthalene was detected at a concentration of 0.5 ug/L in sample SB-3-W, which exceeded the Tapwater Cancer Risk ESL of 0.17 ug/L.



SVOCs in Groundwater:

- Diethyl Phthalate (DEP) was detected at concentrations ranging from 3 to 3.4 ug/L in each of the three groundwater samples, exceeding only the Fresh Water Ecotox ESL of 1.5 ug/L.

Metals in Groundwater:

- Hexavalent Chromium was detected a concentration of 0.52 ug/L in sample SB-3-W and 0.17 ug/L in sample SB-5-W. Both results exceeded the Tapwater Cancer Risk ESL of 0.02 ug/L and the Tapwater RSL of 0.035 ug/L.
- Lead was detected at a concentration of 4.9 ug/L in sample SB-3-W. The result exceeded the Tapwater Non-Cancer Risk ESL of 0.2 ug/L and the Fresh Water Ecotox ESL of 2.5 ug/L.
- Mercury was detected at concentrations of 0.16 ug/L in sample SB-4-W and 0.092 ug/L in sample SB-5-W. Both results exceeded the Tapwater Non-Cancer Risk ESL of 0.06 ug/L and the Fresh Water Ecotox ESL of 0.025 ug/L.

4.0 FINDINGS, OPINIONS & RECOMMENDATIONS

Based on information obtained during the investigations, including field observations, chemical analysis of soil and groundwater samples, and APTIM's understanding of the Client's business plans for the Site, APTIM has developed the following findings, opinions, and recommendations.

4.1 Investigation Findings

REC: Potential Presence of Unknown Fill

The fill used to backfill the former Pruitt Creek channel contains arsenic, barium, and mercury at concentrations that exceed at least one of the screening levels (SLs):

- Arsenic exceeds most soil SLs, but is below the California Los Angeles Schools background study value of 6.0 mg/kg¹ in all soil samples collected during this Phase II ESA. Arsenic was not detected in the perimeter monitoring wells;
- Barium exceeds the soil SLs established to protect groundwater, but was not reported in groundwater samples collected from the perimeter at concentrations exceeding current SLs;
- Mercury exceeds the soil SLs established to protect groundwater. It also exceeds the freshwater ecotox (surface water standard) and ESL for tapwater but is below the MCL in each of the groundwater samples collected.

REC: Potential Impacts from Off-Site Contaminant Sources

APTIM collected three soil and three groundwater samples near the west and south property boundaries to assess if off-site sources of soil and groundwater impacts were migrating onto the Site:

- Arsenic, barium, and mercury were each reported in at least one perimeter soil sample at similar concentrations as discussed above;
- Hexavalent chromium was reported in each of the three soil samples at concentrations exceeding the risk-based SSL established to protect groundwater. It also exceeded the tapwater cancer risk ESL and tapwater RSL in two of the three groundwater samples analyzed. The USEPA does not publish a Maximum Contaminant Level (MCL) for hexavalent chromium. Instead, it publishes an MCL for total chromium. Each

¹ California Department of Toxic Substance Control (DTSC), 2005, Final Report, Background Metals at Los Angeles Unified School Sites, Arsenic, June 6.



of the three groundwater samples was reported to contain total chromium below that MCL.

- Naphthalene was detected in one groundwater sample exceeding the tapwater cancer risk ESL. The US EPA has not established an MCL value for naphthalene;
- DEP was detected in each of the three groundwater samples exceeding the fresh water ecotox ESL.

4.2 Opinions and Recommendations

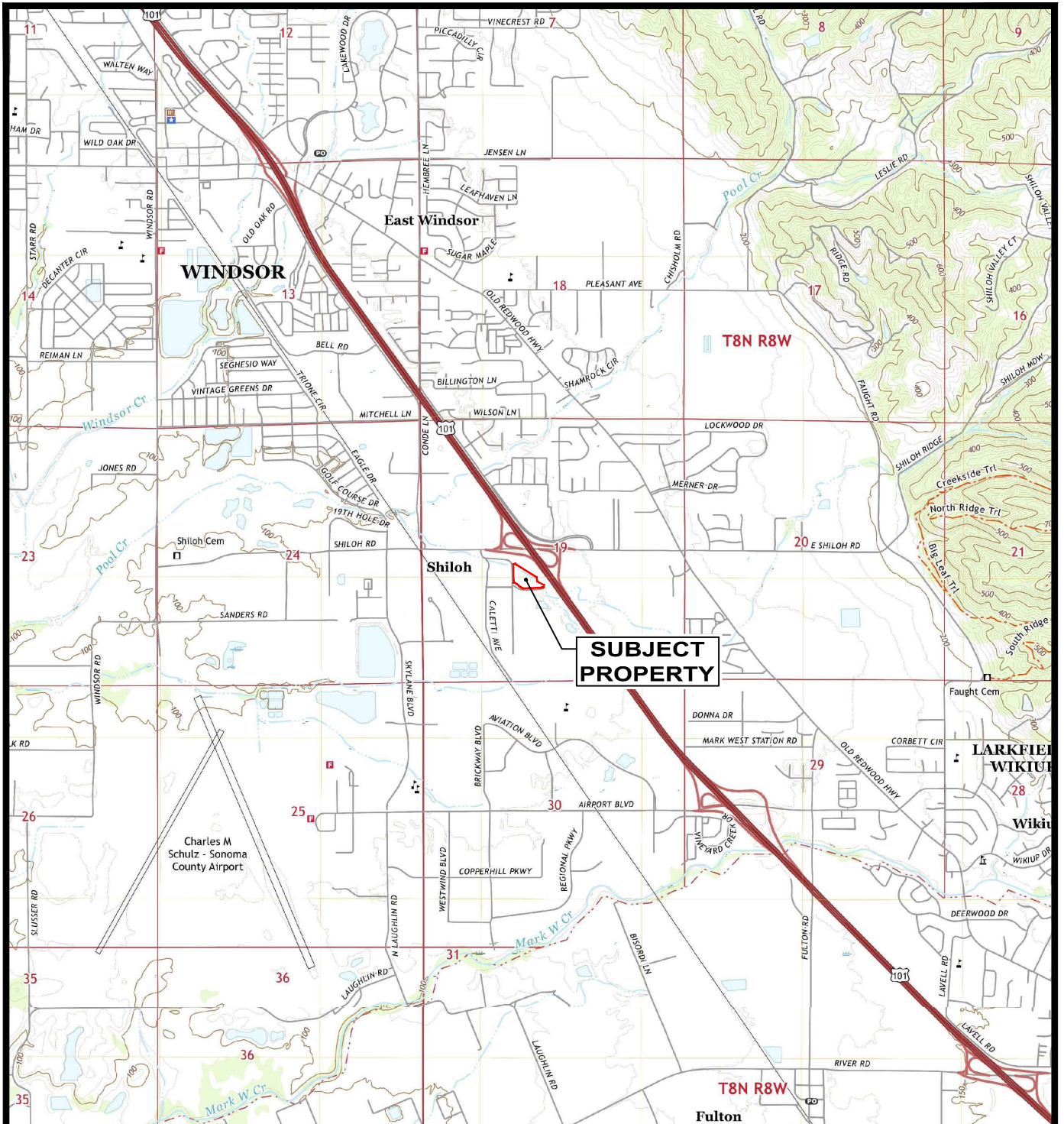
VOCs and SVOCs were generally not reported in soil or groundwater at concentrations exceeding the established SLs. However, naphthalene was detected exceeding the tapwater cancer risk ESL at SB-3-W. Additionally, DEP was detected exceeding the fresh water ecotox ESL in each of the temporary wells. DEP can likely be attributed to a lab or sampling artifact, i.e. was a result of the sampling and analysis process and not directly attributed to a specific source of contamination at the Site.

Aside from arsenic, soil exceedances are limited to groundwater protection standards. Exposure pathways for ingestion, inhalation, and dermal contact are therefore not complete. In the case of arsenic, the reported concentrations were below the California Los Angeles Schools background study value of 6.0 mg/kg. The presence of arsenic is therefore likely a natural occurrence, and not attributable to anthropogenic causes.

Groundwater sample results did not reveal exceedances of MCLs. Concentrations of hexavalent chromium, lead, mercury, naphthalene and DEP were reported to exceed SLs for tapwater and ecotox (surface water standard).

The Site does not appear to be grossly impacted by the RECs identified in the Phase I ESA Report. However, there are risks of exposure to naturally occurring arsenic, hexavalent chromium, lead, mercury, naphthalene and DEP. These impacts could be addressed by in-situ and ex-situ remediation measures such as shallow excavation, soil injection, and pump and treat systems. They can be remedied by implementing risk-based measures like the installation and maintenance of engineered barriers, adherence to a soil management plan, and prohibition of groundwater well installation/use.

FIGURES



NOTES

1. FIGURE ADAPTED FROM THE USGS 7.5 x 7.5 MINUTE TOPOGRAPHIC MAP OF THE HEALDSBURG AND SEBASTOPOL QUADRANGLES, CALIFORNIA (2021)



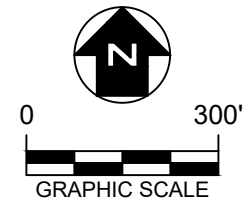
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**5865-5897 PRUITT AVENUE
PHASE I ENVIRONMENTAL SITE ASSESSMENT**

**FIGURE 1
SITE LOCATION MAP**

APPROVED BY: JPL	PROJ. NO.: 631034142	DATE: OCT 2023
------------------	----------------------	----------------



LEGEND

- APPROXIMATE SUBJECT PROPERTY BOUNDARY
- APPROXIMATE REC LOCATIONS
- - - APPROXIMATE OPERABLE UNIT BOUNDARIES
- - - APPROXIMATE FORMER PATH OF PRUITT CREEK

NOTES

1. AERIAL OBTAINED FROM GOOGLE EARTH IMAGERY (MARCH 2023).
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.

REV. NO.	DATE	DESCRIPTION



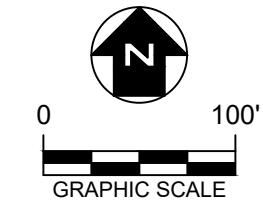
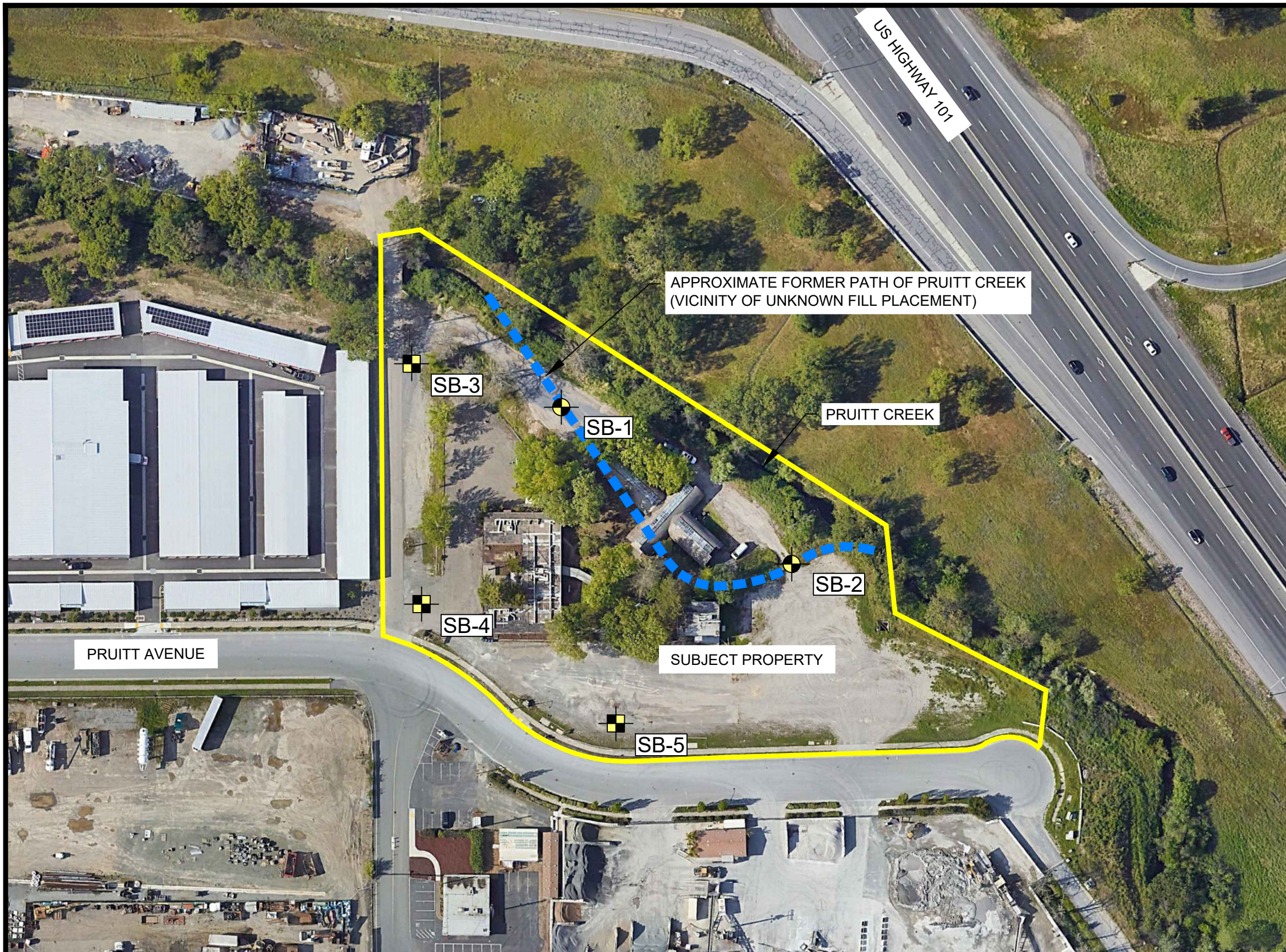
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**5865-597 PRUITT AVENUE
PHASE I ENVIRONMENTAL SITE ASSESSMENT**

**FIGURE 2
RECOGNIZED ENVIRONMENTAL CONDITIONS MAP**

DRAWN BY: EJS APPROVED BY: JPL PROJ. NO.: 631034142 DATE: OCT 2023



LEGEND

- APPROXIMATE SUBJECT PROPERTY BOUNDARY
- - - APPROXIMATE FORMER PATH OF PRUITT CREEK
- SOIL BORING
- SOIL BORING/ TEMPORARY MONITORING WELL

NOTES

1. AERIAL OBTAINED FROM GOOGLE EARTH IMAGERY (MARCH 2023).
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.

REV. NO.	DATE	DESCRIPTION



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**5865-5897 PRUITT AVENUE
 PHASE II ENVIRONMENTAL SITE ASSESSMENT**

**FIGURE 3
 SITE INVESTIGATION LAYOUT MAP**

DRAWN BY: EJS APPROVED BY: JPL PROJ. NO.: 631034142 DATE: OCT 2023

TABLES

Table 1
Summary of Analytical Results
VOCS, SVOCs and Metals in Soil

5885 Pruitt Avenue
Windsor, California

Sample Identification:	Summary of Soil Environmental Screening Levels										US EPA Regional Screening Levels							
	Direct Exposure Human Health Risk Levels				Terrestrial Habitat	Leaching to GW Levels	Gross Contamination Levels	Odor Nuisance Levels		Industrial Soil	Protection of GW SSLs		SB-1-4'	SB-2-7'	SB-3-4'	SB-4-4'	SB-5-4'	
	Com/Ind		Construction Worker					Min Veg	DW		Com/Ind	CW	Risk-Based SSLs	MCL-Based SSLs	9/18/2023	9/18/2023	9/18/2023	9/18/2023
Date of Collection:	Cancer Risk	NC Hazard	Cancer Risk	NC Hazard								13:40	14:00	12:00	11:00	10:20		
Time of Collection:	Units																	
Contaminants of Concern																		
Metals (6010B and 7199)																		
Arsenic	mg/Kg	0.31	3.63	2.03	0.98	50	--	--	--	--	3	0.0015	0.29	4.3	4.4	5.4	3.3	3.1
Barium	mg/Kg	--	216611	--	3019	670	--	--	--	--	220000	160	82	150	150	160	410	83
Cadmium	mg/Kg	4,000	1,100	110	51	1.9	---	---	---	---	100	---	---	ND	ND	ND	ND	ND
Chromium, Total	mg/Kg	--	--	--	--	160	--	--	--	--	---	---	180000	33	32	39	35	24
Chromium, hexavalent	mg/Kg	6.2	3,500	2.8	400	10	---	---	---	---	6.3	0.00067	---	NA	NA	1.2	0.65	0.64
Lead	mg/Kg	385	320	2701	160	32	--	--	--	--	800	---	14	9.9	9.3	11	7.6	5.8
Mercury	mg/Kg	--	187	--	44	20	--	--	1000	1000	46	0.033	0.1	0.1	0.03	0.05	ND	0.017
Selenium	mg/Kg	--	5,840	--	1745	5.5	--	--	--	--	5,800	0.52	0.26	ND	ND	ND	ND	ND
Silver	mg/Kg	--	5,840	--	1770	50	--	--	--	--	5,800	0.8	---	ND	ND	ND	ND	ND
Volatile Organic Compounds (8260B/503)																		
Toluene	mg/Kg	---	5,300,000	---	4,700,000	660,000	3,200	810,000	1,000,000	1,000,000	47,000,000	760	690	0.0018	ND	ND	ND	ND
Additional 61 VOC Constituents	mg/Kg	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (8270)																		
Pentachlorophenol	mg/Kg	4	2,800	20	560	39	9.80E-02	51	1,000	1,000	4	0.000057	0.0014	ND	ND	ND	ND	ND
3&4 Methylphenol	mg/Kg	--	--	--	--	--	--	--	--	--	--	--	--	0.061	ND	ND	ND	ND
Additional 88 SVOC Constituents	mg/Kg	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	ND	ND	ND	ND	ND

Notes:

- 24.7** indicates result exceeds one or more screening level - both ESL and/or RSL
- 1.9** indicates screening level has been exceeded in at least one sample

Toxicity indicates carcinogen (C) or non-carcinogen (N)

Environmental Screening Levels updated January 2019 by the San Francisco Bay Regional Water Quality Control Board
Regional Screening Levels from www.epa.gov as of May 2023

SSLs - Soil Screening Levels, updated January 2015 by the USEPA (Region 9)

MCL - Maximum Contaminant Level

* indicates DTSC-modified screening level, taken from the Human Health Risk Assessment Note #3, Table 1 (May 2015)

mg/kg - milligrams per kilogram

"---" indicates no screening level established or not analyzed

ND indicates analytes were not detected above laboratory reporting limits

Table 2
Summary of Analytical Results
VOCS, SVOCs and Metals in Groundwater

5885 Pruitt Avenue
Windsor, California

Sample Identification:		Summary of Groundwater Environmental Screening Levels							US EPA Regional Screening Levels		SB-3-W	SB-4-W	SB-5-W
		Direct Exposure Human Health Risk Levels		Aquatic Habitat Goal Levels	Groundwater Vapor Intrusion Human Health Com/Ind		Gross Contaminati on Levels	Odor Nuisance Levels	Tapwater	MCL	9/18/2023	9/18/2023	9/18/2023
		Tapwater Cancer Risk	Tapwater Non-Cancer Risk	Fresh Water Ecotox	Cancer Risk	Non-Cancer Risk					16:15	15:00	15:40
Contaminants of Concern	Units												
Metals (6010B and 7199)													
Arsenic	µg/L	0.004	0.070	150	--	--	50,000	--	0.052	10	ND	ND	ND
Barium	µg/L	--	2000	--	--	--	50,000	--	3800	2000	120	81	180
Cadmium	µg/L	---	0.04	0.25	---	---	50,000	---	1.8	5	ND	ND	ND
Chromium, Total	µg/L	--	--	180	--	--	50,000	--	---	100	21	20	41
Hexavalent chromium	µg/L	0.02	44	11	---	---	50,000	---	0.035	---	0.52	ND	0.17
Lead	µg/L	9.16	0.2	2.5	--	--	50,000	--	15	15	4.9	ND	ND
Mercury	µg/L	--	0.06	0.025	--	0.38	30	--	0.63	2	0.023	0.16	0.092
Selenium	µg/L	--	30	5	--	--	50,000	--	100	50	ND	ND	ND
Silver	µg/L	--	94	3.4	--	--	50,000	100	94	--	ND	ND	ND
Volatile Organic Compounds (8260B/503)													
Naphthalene	µg/L	0.17	6.1	24	20	730	16,000	21	--	--	0.5	ND	ND
Toluene	µg/L	--	150	130	--	4,900	50,000	40	1,100	1,000	0.27	0.19	0.30
Additional 66 VOC Constituents	µg/L	Various	Various	Various	Various	Various	Various	Various	Various	Various	ND	ND	ND
Semi-Volatile Organic Compounds (8260)													
Diethyl phthalate	µg/L	--	15,000	1.5	--	--	50,000	--	--	--	3	3.4	3.1
Di-n-butyl phthalate	µg/L	--	--	--	--	--	--	--	--	--	ND	2.9	ND
Additional 66 SVOC Constituents	µg/L	Various	Various	Various	Various	Various	Various	Various	Various	Various	ND	ND	ND

Notes:

24.7 indicates result exceeds one or more screening level - both ESL and/or RSL

1.9 indicates screening level has been exceeded in at least one sample

µg/L - micrograms per liter

ND indicates analytes were not detected above laboratory reporting limits

"--" indicates no screening level established or not analyzed

MCL - Maximum Contaminant Level

Toxicity indicates carcinogen (C) or non-carcinogen (N)

Environmental Screening Levels updated January 2019 by the San Francisco Bay Regional Water Quality Control Board

Regional Screening Levels from www.epa.gov as of May 2023

Contaminants of Concern detected in at least one sample are shown

APPENDIX A

Photographic Documentation Log

**APTIM
Photographic Record**

Client: Zero Waste Sonoma

Project Number: 631034142

Site Name and Location: Phase 2 ESA, 5871 Pruitt Avenue, Windsor, California



Comments: Drilling area at SB-1

Photographer: S. Bittinger

Date: September 18, 2023

Photograph 1 of 5

**APTIM
Photographic Record**

Client: Zero Waste Sonoma

Project Number: 631034142

Site Name and Location: Phase 2 ESA, 5871 Pruitt Avenue, Windsor, California



Comments: Drilling area at SB-2

Photographer: S. Bittinger

Date: September 18, 2023

Photograph 2 of 5

**APTIM
Photographic Record**

Client: Zero Waste Sonoma

Project Number: 631034142

Site Name and Location: Phase 2 ESA, 5871 Pruitt Avenue, Windsor, California



Comments: Drilling area at SB-3; hole drilled at left side of image of avoid underground utility conflict.

Photographer: S. Bittinger

Date: September 18, 2023

Photograph 3 of 5

**APTIM
Photographic Record**

Client: Zero Waste Sonoma

Project Number: 631034142

Site Name and Location: Phase 2 ESA, 5871 Pruitt Avenue, Windsor, California



Comments: Drilling area at SB-4; hole drilled at edge of roadway to avoid underground utility conflict

Photographer: S. Bittinger

Date: September 18, 2023

Photograph 4 of 5

**APTIM
Photographic Record**

Client: Zero Waste Sonoma

Project Number: 631034142

Site Name and Location: Phase 2 ESA, 5871 Pruitt Avenue, Windsor, California



Comments: Drilling area at SB-5

Photographer: S. Bittinger

Date: September 18, 2023

Photograph 5 of 5

APPENDIX B

Soil Boring Logs



BORING NO.: SB-1

PROJECT: Zero Waste Sonoma (ZWS) - Phase II ESA
 PROJECT NO.: TOTAL DEPTH: 10.0
 CLIENT: ZWS SITE LOCATION: 5885 Pruitt
 LOGGED BY: Scott Bittenger BORING LOCATION:
 DATE STARTED: 9/18/23 DATE ENDED: 9/18/23
 TIME STARTED: TIME ENDED:

SHEET 1 OF 1

Depth in Feet	Surf. Elev.	Strata	DESCRIPTION	USCS	Sample Type & No. Depth (ft) Recovery (in)	Blow Count (N)	PID (ppm)	UCS (tsf)	REMARKS
0			Road base, compacted gravel and sand mix.	FL					
1									
2			Very Dark Gray (GLE Y1 3/N), CLAY with SAND, trace woody debris, earthy odor, moist.	CL	MC-1 (0-5')		0.3		
3									
4									Sample collected at 4.0'
5			Dark Yellowish Brown (10YR 4/4), SILTY CLAY, 2-8% fine sand, moist, stiff.	CL	MC-2 (5-10')		--		
6									
7									
8									
9									
10			End of Boring @ 10.0'						
11									
12									
13									
14									
15									

<u>DRILLING INFORMATION</u>	<u>WATER LEVEL</u>	<u>REMARKS</u>
DRILLING CONTRACTOR: Cascade		Borehole backfilled and sealed with bentonite.
DRILLING METHOD: Geoprobe; Macrocore 2" O.D x 5' Long		
DRILLING EQUIPMENT: GeoProbe 3126GT		



BORING NO.: SB-2

PROJECT: Zero Waste Sonoma (ZWS) - Phase II ESA
 PROJECT NO.: TOTAL DEPTH: 10.0
 CLIENT: ZWS SITE LOCATION: 5885 Pruitt
 LOGGED BY: Scott Bittenger BORING LOCATION:
 DATE STARTED: 9/18/23 DATE ENDED: 9/18/23
 TIME STARTED: TIME ENDED:

SHEET 1 OF 1

Depth in Feet	Surf. Elev.	Strata	DESCRIPTION	USCS	Sample Type & No. Depth (ft) Recovery (in)	Blow Count (N)	PID (ppm)	UCS (tsf)	REMARKS
0			Road base, compacted gravel and sand mix.	FL					
1									
2			Dark Yellowish Brown (10YR 4/4) CLAY, 6-12% fine sand, moist.	CL	MC-1 (0-5')		0.0		
3									
4			Very Dark Brown (10YR 2/2), CLAY, 3-7% fine sand, moist, stiff.	CL					
5									
6			Very Dark Brown (10YR 2/2) CLAYEY SAND, 80% fine to medium sand, 20% clayey fines, moist.	SC	MC-2 (5-10')		0.7		Sample collected at 7.0'
7									
8									
9			Hit rock at 9.0', split sampler open, no recovery from 9.0-10.0'.						
10			End of Boring @ 10.0'						
11									
12									
13									
14									
15									

<u>DRILLING INFORMATION</u>	<u>WATER LEVEL</u>	<u>REMARKS</u>
DRILLING CONTRACTOR: Cascade		Borehole backfilled and sealed with bentonite.
DRILLING METHOD: Geoprobe; Macrocore 2" O.D x 5' Long		
DRILLING EQUIPMENT: GeoProbe 3126GT		



BORING NO.: SB-3

PROJECT: Zero Waste Sonoma (ZWS) - Phase II ESA
 PROJECT NO.: TOTAL DEPTH: 25.0
 CLIENT: ZWS SITE LOCATION: 5885 Pruitt
 LOGGED BY: Scott Bittenger BORING LOCATION:
 DATE STARTED: 9/18/23 DATE ENDED: 9/18/23
 TIME STARTED: TIME ENDED:

SHEET 1 OF 1

Depth in Feet	Surf. Elev.	Strata	DESCRIPTION	USCS	Sample Type & No. Depth (ft) Recovery (in)	Blow Count (N)	PID (ppm)	UCS (tsf)	REMARKS
0			Road base, compacted gravel and sand mix.	FL					
1									
2			Dark Yellowish Brown (10YR 4/4) SILTY CLAY, dry, stiff.		MC-1 (0-5')		0.0		Sample collected at 4.0'
3			1-5% fine sand from 5.0 -9.5"	CL					
4									
5					MC-2 (5-9')		0.0		
6									
7									
8									
9			Dark Yellowish Brown (10YR 4/4), SILTY CLAY, trace black MnO2 stains, stiff, dry.	CL					
10									
11			Dark Yellowish Brown (10YR 4/4) CLAYEY SAND, 60% fine sand, 40% clayey fines, moist.	SC	MC-4 (9-13')		0.0		
12									
13			Dark Yellowish Brown (10YR 4/4), SAND with CLAY and Fine GRAVEL, 70% fine sand, 10% fine gravel, 20% clay, wet to damp.	SP-SC	MC-5 (13-17')		0.0		DTW: 15.9'
14									
15			Dark Yellowish Brown (10YR 4/4) CLAYEY SAND, 60% fine sand, 40% clayey fines, moist.	SC					
16									
17			SAND, fine grained, 5-8% clay, wet.		MC-6 (17-21')		--		
18									
19			MnO2 stains from 19.0-20.0'	SP-SC					
20									
21			Brown (10YR 4/3), SANDY CLAY, 10-15% fine sand, 85-90% clay, dry, stiff.	CL	MC-7 (21-25')		--		3/4" temp well installed, screened from 15-25'
22									
23									
24									
25			End of Boring @ 25.0'						
26									
27									
28									
29									
30									

<u>DRILLING INFORMATION</u>	<u>WATER LEVEL</u>	<u>REMARKS</u>
DRILLING CONTRACTOR: Cascade		Borehole backfilled and sealed with bentonite.
DRILLING METHOD: Geoprobe; Macrocore 2" O.D x 5' Long		
DRILLING EQUIPMENT: GeoProbe 3126GT		



BORING NO.: SB-4

PROJECT: Zero Waste Sonoma (ZWS) - Phase II ESA SHEET 1 OF 1
 PROJECT NO.: TOTAL DEPTH: 25.0
 CLIENT: ZWS SITE LOCATION: 5885 Pruitt
 LOGGED BY: Scott Bittenger BORING LOCATION:
 DATE STARTED: 9/18/23 DATE ENDED: 9/18/23
 TIME STARTED: TIME ENDED:

Depth in Feet	Surf. Elev.	Strata	DESCRIPTION	USCS	Sample Type & No. Depth (ft) Recovery (in)	Blow Count (N)	PID (ppm)	UCS (tsf)	REMARKS
0			Road base, compacted gravel and sand mix.	FL					
1									
2			Light Olive Brown (2.5Y 5/4) SILT, dry.	ML	MC-1 (0-5')		0.0		
3									
4									Sample collected at 4.0'
5			Dark Yellowish Brown (10YR 4/4), CLAYEY SAND, 50% fine sand, 45% clay, 5% medium to coarse sand, dry.	SC	MC-2 (5-9')		0.0		
6									
7									
8			Dark Yellowish Brown (10YR 3/4) SANDY CLAY, damp.	CL	MC-3 (9-13')		0.0		
9									
10									
11			Brown (10YR 5/3), CLAYEY SAND, 55% fine sand, 45% clayey fines, damp.	SC	MC-4 (13-17')		--		
12									
13			SAND, 90% fine sand, 5% medium sand, 5% clay, damp to wet.	SP	MC-5 (17-21')		--		
14									DTW: 14.4'
15			Brown (10YR 5/3), SILTY CLAY, moist, stiff.	SC	MC-6 (21-25')		--		
16									
17			SAND, 85% fine sand, 10% medium sand, 5% clay, wet.	SP			--		
18									
19			Dark Brown (10YR 3/3), SILTY CLAY, dry stiff.	CL			--		
20									3/4" temp well installed, screened from 15-25'
21									
22									
23									
24									
25			End of Boring @ 25.0'						
26									
27									
28									
29									
30									

<u>DRILLING INFORMATION</u>	<u>WATER LEVEL</u>	<u>REMARKS</u>
DRILLING CONTRACTOR: Cascade		Borehole backfilled and sealed with bentonite.
DRILLING METHOD: Geoprobe; Macrocore 2" O.D x 5' Long		
DRILLING EQUIPMENT: GeoProbe 3126GT		



BORING NO.: SB-5

PROJECT: Zero Waste Sonoma (ZWS) - Phase II ESA
 PROJECT NO.: 631034142 TOTAL DEPTH: 25.0
 CLIENT: ZWS SITE LOCATION: 5885 Pruitt
 LOGGED BY: Scott Bittenger BORING LOCATION:
 DATE STARTED: 9/18/23 DATE ENDED: 9/18/23
 TIME STARTED: TIME ENDED:

SHEET 1 OF 1

Depth in Feet	Surf. Elev.	Strata	DESCRIPTION	USCS	Sample Type & No. Depth (ft) Recovery (in)	Blow Count (N)	PID (ppm)	UCS (tsf)	REMARKS	
0			Road base, compacted gravel and sand mix.	FL						
1										
2										
3			Black (5Y 2.5/1) with Dark Gray (10YR 4/1) CLAY, moist.	CL	MC-1 (0-5')		0.0			
4										
5			Gray (GLEY 1 5/N) CLAYEY SAND, 55-65% fine sand, 35-45% clay, trace caliche 4-5', moist to damp, woody material present at 6-7'.	SC					Sample collected at 4.0'	
6										
7										
8			Olive Brown (2.5Y 4/6), SANDY CLAY, 10-15% fine to medium sand, 85-90% clay, moist.	CL	MC-2 (5-10')		0.0			
9										
10										
11										
12			Light Olive Brown (2.5Y 5/4), SANDY CLAY, 75% clay, 25% very fine sand, moist.	CL	MC-3 (10-15')		0.0			
13										
14										
15										
16			Light Olive Brown (2.5Y 5/4), CLAY, dry, stiff.	CL						
17										
18			Light Olive Brown (2.5Y 5/4), CLAYEY SAND, 75% fine sand, 25% clay, moist, stiff.	SC	MC-4 (15-18')		0.0		DTW: 17.7'	
19										
20			SAND, fine grained, trace medium sand, trace clay, damp.	SP	MC-5 (18-21')		--			
21										
22			SAND with GRAVEL, 80% fine sand, 15% fine to medium gravel, 5% clay, wet.	GW						
23									3/4" temp well installed, screened from 15-25'	
24										
25			Olive Brown (2.5Y 4/6) SILTY CLAY, dry, stiff.	CL	MC-6 (21-25')		--			
26			End of Boring @ 25.0'							
27										
28										
29										
30										

<u>DRILLING INFORMATION</u>	<u>WATER LEVEL</u>	<u>REMARKS</u>
DRILLING CONTRACTOR: Cascade		Borehole backfilled and sealed with bentonite..
DRILLING METHOD: Geoprobe; Macrocore 2" O.D x 5' Long		
DRILLING EQUIPMENT: GeoProbe 3126GT		

APPENDIX C

Laboratory Analytical Reports



Date of Report: 10/17/2023

Scott Bittinger

APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Client Project: 631034162.00131101
BCL Project: Phase 2 Site Assesment, Zero Waste Sonoma
BCL Work Order: 2317918
Invoice ID: B485019

Enclosed are the results of analyses for samples received by the laboratory on 9/19/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Felicia Johnson
Client Service Rep

Stuart Buttram
Operations Manager

Hearst & Associates 4630 So. Hwy 94 Saint Charles, MO 63304 Attn: Steve Jett
Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2317918-01	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: SB-5-4' Sampled By: Scott B	Receive Date: 09/19/2023 09:49 Sampling Date: 09/18/2023 10:20 Sample Depth: --- Lab Matrix: Solids Sample Type: Soil	
2317918-02	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: SB-4-4' Sampled By: Scott B	Receive Date: 09/19/2023 09:49 Sampling Date: 09/18/2023 11:00 Sample Depth: --- Lab Matrix: Solids Sample Type: Soil	
2317918-03	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: SB-3-4' Sampled By: Scott B	Receive Date: 09/19/2023 09:49 Sampling Date: 09/18/2023 12:00 Sample Depth: --- Lab Matrix: Solids Sample Type: Soil	
2317918-04	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: SB-1-4' Sampled By: Scott B	Receive Date: 09/19/2023 09:49 Sampling Date: 09/18/2023 13:40 Sample Depth: --- Lab Matrix: Solids Sample Type: Soil	
2317918-05	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: SB-2-7' Sampled By: Scott B	Receive Date: 09/19/2023 09:49 Sampling Date: 09/18/2023 14:00 Sample Depth: --- Lab Matrix: Solids Sample Type: Soil	
2317918-06	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: SB-3-W Sampled By: Scott B	Receive Date: 09/19/2023 09:49 Sampling Date: 09/18/2023 16:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water	
2317918-07	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: SB-4-W Sampled By: Scott B	Receive Date: 09/19/2023 09:49 Sampling Date: 09/18/2023 15:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water	

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APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assesment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2317918-08	COC Number:	---	Receive Date:	09/19/2023 09:49
	Project Number:	---	Sampling Date:	09/18/2023 15:40
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SB-5-W	Lab Matrix:	Water
	Sampled By:	Scott B	Sample Type:	Water

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APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:	2317918-01	Client Sample Name:	SB-5-4', 9/18/2023 10:20:00AM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Benzene	ND	mg/kg	0.0034	0.00045	EPA-8260B	ND		1	
Bromobenzene	ND	mg/kg	0.0034	0.00059	EPA-8260B	ND		1	
Bromochloromethane	ND	mg/kg	0.0034	0.00055	EPA-8260B	ND		1	
Bromodichloromethane	ND	mg/kg	0.0034	0.00053	EPA-8260B	ND		1	
Bromoform	ND	mg/kg	0.0034	0.00047	EPA-8260B	ND		1	
Bromomethane	ND	mg/kg	0.0034	0.0012	EPA-8260B	ND		1	
n-Butylbenzene	ND	mg/kg	0.0034	0.00051	EPA-8260B	ND		1	
sec-Butylbenzene	ND	mg/kg	0.0034	0.00048	EPA-8260B	ND		1	
tert-Butylbenzene	ND	mg/kg	0.0034	0.00058	EPA-8260B	ND		1	
Carbon tetrachloride	ND	mg/kg	0.0034	0.00053	EPA-8260B	ND		1	
Chlorobenzene	ND	mg/kg	0.0034	0.00052	EPA-8260B	ND		1	
Chloroethane	ND	mg/kg	0.0034	0.00075	EPA-8260B	ND		1	
Chloroform	ND	mg/kg	0.0034	0.00061	EPA-8260B	ND		1	
Chloromethane	ND	mg/kg	0.0034	0.00075	EPA-8260B	ND		1	
2-Chlorotoluene	ND	mg/kg	0.0034	0.00059	EPA-8260B	ND		1	
4-Chlorotoluene	ND	mg/kg	0.0034	0.00047	EPA-8260B	ND		1	
Dibromochloromethane	ND	mg/kg	0.0034	0.00054	EPA-8260B	ND		1	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0034	0.00065	EPA-8260B	ND		1	
1,2-Dibromoethane	ND	mg/kg	0.0034	0.00056	EPA-8260B	ND		1	
Dibromomethane	ND	mg/kg	0.0034	0.00095	EPA-8260B	ND		1	
1,2-Dichlorobenzene	ND	mg/kg	0.0034	0.00054	EPA-8260B	ND		1	
1,3-Dichlorobenzene	ND	mg/kg	0.0034	0.00049	EPA-8260B	ND		1	
1,4-Dichlorobenzene	ND	mg/kg	0.0034	0.00049	EPA-8260B	ND		1	
Dichlorodifluoromethane	ND	mg/kg	0.0034	0.00054	EPA-8260B	ND		1	
1,1-Dichloroethane	ND	mg/kg	0.0034	0.00043	EPA-8260B	ND		1	
1,2-Dichloroethane	ND	mg/kg	0.0034	0.00049	EPA-8260B	ND		1	
1,1-Dichloroethene	ND	mg/kg	0.0034	0.00075	EPA-8260B	ND		1	
cis-1,2-Dichloroethene	ND	mg/kg	0.0034	0.00037	EPA-8260B	ND		1	
trans-1,2-Dichloroethene	ND	mg/kg	0.0034	0.00025	EPA-8260B	ND		1	
1,2-Dichloropropane	ND	mg/kg	0.0034	0.00054	EPA-8260B	ND		1	
1,3-Dichloropropane	ND	mg/kg	0.0034	0.00045	EPA-8260B	ND		1	
2,2-Dichloropropane	ND	mg/kg	0.0034	0.00045	EPA-8260B	ND		1	
1,1-Dichloropropene	ND	mg/kg	0.0034	0.00045	EPA-8260B	ND		1	

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4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:	2317918-01	Client Sample Name:	SB-5-4', 9/18/2023 10:20:00AM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0034	0.00039	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0034	0.00045	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0034	0.00047	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0034	0.00045	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0034	0.00054	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0034	0.00040	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.0068	0.00075	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0034	0.00038	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0034	0.00067	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0034	0.00048	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0034	0.00042	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0034	0.00064	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0034	0.00057	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0034	0.00066	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0034	0.00047	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0034	0.0010	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0034	0.00095	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0034	0.00045	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0034	0.00064	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0034	0.00050	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0034	0.0010	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0034	0.0013	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0034	0.00068	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0034	0.00054	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0034	0.00045	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0034	0.00040	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.0068	0.0017	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0034	0.0010	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0034	0.00063	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.9	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.pacelabs.com



APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assesment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID: 2317918-01	Client Sample Name: SB-5-4', 9/18/2023 10:20:00AM, Scott B
----------------------------------	---

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-8260B	09/26/23 15:10	09/26/23	23:30	EAB	MS-V17	0.678	B174618	EPA 5035 Soil MS

DCN = Data Continuation Number

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4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-01	Client Sample Name: SB-5-4', 9/18/2023 10:20:00AM, Scott B
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Acenaphthylene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Aldrin	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Aniline	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1
Anthracene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzidine	ND	mg/kg	3.0	0.0093	EPA-8270C	ND		1
Benzo[a]anthracene	ND	mg/kg	0.10	0.0077	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	mg/kg	0.10	0.0082	EPA-8270C	ND		1
Benzo[b+k]fluoranthene	ND	mg/kg	0.10	0.0082	EPA-8270C	ND		1
Benzo[a]pyrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	mg/kg	0.10	0.013	EPA-8270C	ND		1
Benzoic acid	ND	mg/kg	0.50	0.014	EPA-8270C	ND		1
Benzyl alcohol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
alpha-BHC	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
beta-BHC	ND	mg/kg	0.10	0.0075	EPA-8270C	ND		1
delta-BHC	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	mg/kg	0.10	0.0097	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chloroaniline	ND	mg/kg	0.10	0.015	EPA-8270C	ND		1
2-Chloronaphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Chrysene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,4'-DDD	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,4'-DDE	ND	mg/kg	0.10	0.0068	EPA-8270C	ND		1
4,4'-DDT	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dibenzofuran	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1

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APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-01	Client Sample Name: SB-5-4', 9/18/2023 10:20:00AM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,2-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
Dieldrin	ND	mg/kg	0.10	0.0077	EPA-8270C	ND		1
Diethyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dimethyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	mg/kg	0.10	0.0085	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Endosulfan I	ND	mg/kg	0.20	0.0088	EPA-8270C	ND		1
Endosulfan II	ND	mg/kg	0.20	0.0088	EPA-8270C	ND		1
Endosulfan sulfate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Endrin	ND	mg/kg	0.20	0.0086	EPA-8270C	ND		1
Endrin aldehyde	ND	mg/kg	0.50	0.0070	EPA-8270C	ND		1
Fluoranthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Fluorene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Heptachlor	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Heptachlor epoxide	ND	mg/kg	0.10	0.013	EPA-8270C	ND		1
Hexachlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Hexachlorobutadiene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	mg/kg	0.10	0.015	EPA-8270C	ND		1
Hexachloroethane	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.10	0.0069	EPA-8270C	ND		1
Isophorone	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2-Methylnaphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Naphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2-Naphthylamine	ND	mg/kg	3.0	0.036	EPA-8270C	ND		1
2-Nitroaniline	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3-Nitroaniline	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
4-Nitroaniline	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1

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APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-01 **Client Sample Name:** SB-5-4', 9/18/2023 10:20:00AM, Scott B

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
N-Nitrosodimethylamine	ND	mg/kg	0.10	0.040	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Phenanthrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Pyrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
2-Chlorophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.50	0.0067	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	mg/kg	0.50	0.0067	EPA-8270C	ND		1
2-Methylphenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	mg/kg	0.20	0.014	EPA-8270C	ND		1
Total Methylphenol	ND	mg/kg	0.20	0.021	EPA-8270C	ND		1
2-Nitrophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Nitrophenol	ND	mg/kg	0.20	0.018	EPA-8270C	ND		1
Pentachlorophenol	ND	mg/kg	0.20	0.017	EPA-8270C	ND		1
Phenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
Pyridine	ND	mg/kg	0.50	0.065	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	74.6	%	20 - 130 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	79.4	%	30 - 130 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	75.9	%	30 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	76.2	%	30 - 140 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	67.2	%	20 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	87.2	%	30 - 150 (LCL - UCL)		EPA-8270C			1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-8270C	09/28/23 14:56	09/29/23 16:03		CMM	MS-B9	1.010	B174941	EPA 3550B

DCN = Data Continuation Number

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APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assesment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Chemical Analysis

BCL Sample ID: 2317918-01	Client Sample Name: SB-5-4', 9/18/2023 10:20:00AM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	19.5	%	0.05	0.05	Calc	ND		1
Solids	80.5	%	0.05	0.05	SM-2540G			2

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	Calc	09/22/23	09:56	10/10/23	12:35	SPB	Calc	1	B174498	Calc
2	SM-2540G	09/27/23	14:00	09/28/23	09:00	ELR	MANUAL	1	B174741	SM 2540G

DCN = Data Continuation Number

APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Total Concentrations (TTLIC)

BCL Sample ID:	2317918-01	Client Sample Name:	SB-5-4', 9/18/2023 10:20:00AM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Arsenic	3.1	mg/kg	1.0	0.40	EPA-6010B	ND		1	
Barium	83	mg/kg	0.50	0.18	EPA-6010B	ND		1	
Cadmium	ND	mg/kg	0.50	0.052	EPA-6010B	ND		1	
Chromium	24	mg/kg	0.50	0.050	EPA-6010B	0.074		1	
Total Hexavalent Chromium	0.64	mg/kg	1.0	0.30	EPA-7199	ND	J	2	
Lead	5.8	mg/kg	2.5	0.41	EPA-6010B	ND		1	
Mercury	0.017	mg/kg	0.16	0.016	EPA-7471A	ND	J	3	
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	ND		1	
Silver	ND	mg/kg	0.50	0.067	EPA-6010B	ND		1	

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	09/25/23 11:35	10/04/23	15:18	JRG	PE-OP4	0.926	B174581	EPA 3050B
2	EPA-7199	09/26/23 07:00	09/28/23	22:32	EEC	IC11	0.970	B174633	EPA 3060A
3	EPA-7471A	09/27/23 08:40	09/27/23	13:47	MG2	CETAC3	0.977	B174712	EPA 7471A

DCN = Data Continuation Number

APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:	2317918-02	Client Sample Name:	SB-4-4', 9/18/2023 11:00:00AM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Benzene	ND	mg/kg	0.0074	0.00099	EPA-8260B	ND		1	
Bromobenzene	ND	mg/kg	0.0074	0.0013	EPA-8260B	ND		1	
Bromochloromethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1	
Bromodichloromethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1	
Bromoform	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1	
Bromomethane	ND	mg/kg	0.0074	0.0025	EPA-8260B	ND		1	
n-Butylbenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1	
sec-Butylbenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1	
tert-Butylbenzene	ND	mg/kg	0.0074	0.0013	EPA-8260B	ND		1	
Carbon tetrachloride	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1	
Chlorobenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1	
Chloroethane	ND	mg/kg	0.0074	0.0016	EPA-8260B	ND		1	
Chloroform	ND	mg/kg	0.0074	0.0013	EPA-8260B	ND		1	
Chloromethane	ND	mg/kg	0.0074	0.0016	EPA-8260B	ND		1	
2-Chlorotoluene	ND	mg/kg	0.0074	0.0013	EPA-8260B	ND		1	
4-Chlorotoluene	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1	
Dibromochloromethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1	
1,2-Dibromoethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1	
Dibromomethane	ND	mg/kg	0.0074	0.0021	EPA-8260B	ND		1	
1,2-Dichlorobenzene	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1	
1,3-Dichlorobenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1	
1,4-Dichlorobenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1	
Dichlorodifluoromethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1	
1,1-Dichloroethane	ND	mg/kg	0.0074	0.00095	EPA-8260B	ND		1	
1,2-Dichloroethane	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1	
1,1-Dichloroethene	ND	mg/kg	0.0074	0.0016	EPA-8260B	ND		1	
cis-1,2-Dichloroethene	ND	mg/kg	0.0074	0.00080	EPA-8260B	ND		1	
trans-1,2-Dichloroethene	ND	mg/kg	0.0074	0.0055	EPA-8260B	ND		1	
1,2-Dichloropropane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1	
1,3-Dichloropropane	ND	mg/kg	0.0074	0.00099	EPA-8260B	ND		1	
2,2-Dichloropropane	ND	mg/kg	0.0074	0.00099	EPA-8260B	ND		1	
1,1-Dichloropropene	ND	mg/kg	0.0074	0.00099	EPA-8260B	ND		1	

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APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:	2317918-02	Client Sample Name:	SB-4-4', 9/18/2023 11:00:00AM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
cis-1,3-Dichloropropene	ND	mg/kg	0.0074	0.00086	EPA-8260B	ND		1	
trans-1,3-Dichloropropene	ND	mg/kg	0.0074	0.00098	EPA-8260B	ND		1	
Ethylbenzene	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1	
Hexachlorobutadiene	ND	mg/kg	0.0074	0.00099	EPA-8260B	ND		1	
Isopropylbenzene	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1	
p-Isopropyltoluene	ND	mg/kg	0.0074	0.00088	EPA-8260B	ND		1	
Methylene chloride	ND	mg/kg	0.015	0.0016	EPA-8260B	ND		1	
Methyl t-butyl ether	ND	mg/kg	0.0074	0.00083	EPA-8260B	ND		1	
Naphthalene	ND	mg/kg	0.0074	0.0015	EPA-8260B	ND		1	
n-Propylbenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1	
Styrene	ND	mg/kg	0.0074	0.00092	EPA-8260B	ND		1	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1	
Tetrachloroethene	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1	
Toluene	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0074	0.0022	EPA-8260B	ND		1	
1,2,4-Trichlorobenzene	ND	mg/kg	0.0074	0.0021	EPA-8260B	ND		1	
1,1,1-Trichloroethane	ND	mg/kg	0.0074	0.00099	EPA-8260B	ND		1	
1,1,2-Trichloroethane	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1	
Trichloroethene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1	
Trichlorofluoromethane	ND	mg/kg	0.0074	0.0022	EPA-8260B	ND		1	
1,2,3-Trichloropropane	ND	mg/kg	0.0074	0.0028	EPA-8260B	ND		1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0074	0.0015	EPA-8260B	ND		1	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0074	0.00098	EPA-8260B	ND		1	
Vinyl chloride	ND	mg/kg	0.0074	0.00088	EPA-8260B	ND		1	
Total Xylenes	ND	mg/kg	0.015	0.0037	EPA-8260B	ND		1	
p- & m-Xylenes	ND	mg/kg	0.0074	0.0022	EPA-8260B	ND		1	
o-Xylene	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1	
1,2-Dichloroethane-d4 (Surrogate)	110	%	70 - 121 (LCL - UCL)		EPA-8260B			1	
Toluene-d8 (Surrogate)	99.1	%	81 - 117 (LCL - UCL)		EPA-8260B			1	
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)		EPA-8260B			1	

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APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assesment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID: 2317918-02	Client Sample Name: SB-4-4', 9/18/2023 11:00:00AM, Scott B
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-8260B	09/26/23 16:09	09/26/23 23:52		EAB	MS-V17	1.484	B174618	EPA 5035 Soil MS

DCN = Data Continuation Number

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APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-02		Client Sample Name:	SB-4-4', 9/18/2023 11:00:00AM, Scott B				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Acenaphthylene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Aldrin	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Aniline	ND	mg/kg	2.0	0.11	EPA-8270C	ND	A10	1
Anthracene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Benzidine	ND	mg/kg	30	0.093	EPA-8270C	ND	A10	1
Benzo[a]anthracene	ND	mg/kg	1.0	0.077	EPA-8270C	ND	A10	1
Benzo[b]fluoranthene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Benzo[k]fluoranthene	ND	mg/kg	1.0	0.082	EPA-8270C	ND	A10	1
Benzo[b+k]fluoranthene	ND	mg/kg	1.0	0.082	EPA-8270C	ND	A10	1
Benzo[a]pyrene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Benzo[g,h,i]perylene	ND	mg/kg	1.0	0.13	EPA-8270C	ND	A10	1
Benzoic acid	ND	mg/kg	5.0	0.14	EPA-8270C	ND	A10	1
Benzyl alcohol	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Benzyl butyl phthalate	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
alpha-BHC	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
beta-BHC	ND	mg/kg	1.0	0.075	EPA-8270C	ND	A10	1
delta-BHC	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
bis(2-Chloroethoxy)methane	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
bis(2-Chloroethyl) ether	ND	mg/kg	1.0	0.097	EPA-8270C	ND	A10	1
bis(2-Chloroisopropyl)ether	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
bis(2-Ethylhexyl)phthalate	ND	mg/kg	2.0	0.067	EPA-8270C	ND	A10	1
4-Bromophenyl phenyl ether	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
4-Chloroaniline	ND	mg/kg	1.0	0.15	EPA-8270C	ND	A10	1
2-Chloronaphthalene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
4-Chlorophenyl phenyl ether	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Chrysene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
4,4'-DDD	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
4,4'-DDE	ND	mg/kg	1.0	0.068	EPA-8270C	ND	A10	1
4,4'-DDT	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Dibenzo[a,h]anthracene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Dibenzofuran	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1

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APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-02	Client Sample Name: SB-4-4', 9/18/2023 11:00:00AM, Scott B
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,2-Dichlorobenzene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
1,3-Dichlorobenzene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
1,4-Dichlorobenzene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
3,3-Dichlorobenzidine	ND	mg/kg	2.0	0.067	EPA-8270C	ND	A10	1
Dieldrin	ND	mg/kg	1.0	0.077	EPA-8270C	ND	A10	1
Diethyl phthalate	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Dimethyl phthalate	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Di-n-butyl phthalate	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
2,4-Dinitrotoluene	ND	mg/kg	1.0	0.085	EPA-8270C	ND	A10	1
2,6-Dinitrotoluene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Di-n-octyl phthalate	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
1,2-Diphenylhydrazine	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Endosulfan I	ND	mg/kg	2.0	0.088	EPA-8270C	ND	A10	1
Endosulfan II	ND	mg/kg	2.0	0.088	EPA-8270C	ND	A10	1
Endosulfan sulfate	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Endrin	ND	mg/kg	2.0	0.086	EPA-8270C	ND	A10	1
Endrin aldehyde	ND	mg/kg	5.0	0.070	EPA-8270C	ND	A10	1
Fluoranthene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Fluorene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Heptachlor	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Heptachlor epoxide	ND	mg/kg	1.0	0.13	EPA-8270C	ND	A10	1
Hexachlorobenzene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Hexachlorobutadiene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Hexachlorocyclopentadiene	ND	mg/kg	1.0	0.15	EPA-8270C	ND	A10	1
Hexachloroethane	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	1.0	0.069	EPA-8270C	ND	A10	1
Isophorone	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
2-Methylnaphthalene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Naphthalene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
2-Naphthylamine	ND	mg/kg	30	0.36	EPA-8270C	ND	A10	1
2-Nitroaniline	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
3-Nitroaniline	ND	mg/kg	2.0	0.067	EPA-8270C	ND	A10	1
4-Nitroaniline	ND	mg/kg	2.0	0.11	EPA-8270C	ND	A10	1

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APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-02	Client Sample Name: SB-4-4', 9/18/2023 11:00:00AM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrobenzene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
N-Nitrosodimethylamine	ND	mg/kg	1.0	0.40	EPA-8270C	ND	A10	1
N-Nitrosodi-N-propylamine	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
N-Nitrosodiphenylamine	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Phenanthrene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Pyrene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
1,2,4-Trichlorobenzene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
4-Chloro-3-methylphenol	ND	mg/kg	2.0	0.067	EPA-8270C	ND	A10	1
2-Chlorophenol	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
2,4-Dichlorophenol	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
2,4-Dimethylphenol	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
4,6-Dinitro-2-methylphenol	ND	mg/kg	5.0	0.067	EPA-8270C	ND	A10	1
2,4-Dinitrophenol	ND	mg/kg	5.0	0.067	EPA-8270C	ND	A10	1
2-Methylphenol	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
3- & 4-Methylphenol	ND	mg/kg	2.0	0.14	EPA-8270C	ND	A10	1
Total Methylphenol	ND	mg/kg	2.0	0.21	EPA-8270C	ND	A10	1
2-Nitrophenol	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
4-Nitrophenol	ND	mg/kg	2.0	0.18	EPA-8270C	ND	A10	1
Pentachlorophenol	ND	mg/kg	2.0	0.17	EPA-8270C	ND	A10	1
Phenol	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
2,4,5-Trichlorophenol	ND	mg/kg	2.0	0.11	EPA-8270C	ND	A10	1
2,4,6-Trichlorophenol	ND	mg/kg	2.0	0.067	EPA-8270C	ND	A10	1
Pyridine	ND	mg/kg	5.0	0.65	EPA-8270C	ND	A10	1
2-Fluorophenol (Surrogate)	64.0	%	20 - 130 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	69.5	%	30 - 130 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	66.5	%	30 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	62.5	%	30 - 140 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	0	%	20 - 150 (LCL - UCL)		EPA-8270C		S09	1
p-Terphenyl-d14 (Surrogate)	50.0	%	30 - 150 (LCL - UCL)		EPA-8270C			1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-8270C	09/28/23 14:56	09/29/23 18:45		CMM	MS-B9	9.836	B174941	EPA 3550B

DCN = Data Continuation Number



APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assesment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Chemical Analysis

BCL Sample ID: 2317918-02	Client Sample Name: SB-4-4', 9/18/2023 11:00:00AM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	14.7	%	0.05	0.05	Calc	ND		1
Solids	85.3	%	0.05	0.05	SM-2540G			2

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	Calc	09/22/23	09:56	10/10/23	12:35	SPB	Calc	1	B174498	Calc
2	SM-2540G	09/27/23	14:00	09/28/23	09:00	ELR	MANUAL	1	B174741	SM 2540G

DCN = Data Continuation Number

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Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Total Concentrations (TTLIC)

BCL Sample ID: 2317918-02		Client Sample Name: SB-4-4', 9/18/2023 11:00:00AM, Scott B							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Arsenic	3.3	mg/kg	5.0	2.0	EPA-6010B	ND	J,A10	1	
Barium	410	mg/kg	2.5	0.90	EPA-6010B	ND	A10	1	
Cadmium	ND	mg/kg	2.5	0.26	EPA-6010B	ND	A10	1	
Chromium	35	mg/kg	2.5	0.25	EPA-6010B	0.40	A10	1	
Total Hexavalent Chromium	0.65	mg/kg	1.0	0.30	EPA-7199	ND	J	2	
Lead	7.6	mg/kg	12	2.0	EPA-6010B	ND	J,A10	1	
Mercury	ND	mg/kg	0.16	0.016	EPA-7471A	ND		3	
Selenium	ND	mg/kg	5.0	4.9	EPA-6010B	ND	A10	1	
Silver	ND	mg/kg	2.5	0.34	EPA-6010B	ND	A10	1	

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	09/25/23 11:35	10/04/23	18:32	JRG	PE-OP4	4.950	B174581	EPA 3050B
2	EPA-7199	09/26/23 07:00	09/28/23	23:31	SM2	IC11	0.983	B174633	EPA 3060A
3	EPA-7471A	09/27/23 08:40	09/27/23	14:05	MG2	CETAC3	0.962	B174712	EPA 7471A

DCN = Data Continuation Number

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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:	2317918-03	Client Sample Name:	SB-3-4', 9/18/2023 12:00:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0074	0.0013	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0074	0.0025	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0074	0.0013	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0074	0.0016	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0074	0.0013	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0074	0.0016	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0074	0.0013	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0074	0.0021	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0074	0.00095	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0074	0.0016	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0074	0.00080	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0074	0.0055	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1

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APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:	2317918-03	Client Sample Name:	SB-3-4', 9/18/2023 12:00:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0074	0.00086	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0074	0.00098	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0074	0.00088	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.015	0.0016	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0074	0.00083	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0074	0.0015	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0074	0.00092	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0074	0.0022	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0074	0.0021	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0074	0.0022	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0074	0.0028	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0074	0.0015	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0074	0.00098	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0074	0.00088	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.015	0.0037	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0074	0.0022	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assesment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID: 2317918-03	Client Sample Name: SB-3-4', 9/18/2023 12:00:00PM, Scott B
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/26/23 15:10	09/27/23 00:14	EAB	MS-V17	1.488	B174618 EPA 5035 Soil MS

DCN = Data Continuation Number

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Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-03		Client Sample Name: SB-3-4', 9/18/2023 12:00:00PM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Acenaphthylene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Aldrin	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Aniline	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1
Anthracene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzidine	ND	mg/kg	3.0	0.0093	EPA-8270C	ND		1
Benzo[a]anthracene	ND	mg/kg	0.10	0.0077	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	mg/kg	0.10	0.0082	EPA-8270C	ND		1
Benzo[b+k]fluoranthene	ND	mg/kg	0.10	0.0082	EPA-8270C	ND		1
Benzo[a]pyrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	mg/kg	0.10	0.013	EPA-8270C	ND		1
Benzoic acid	ND	mg/kg	0.50	0.014	EPA-8270C	ND		1
Benzyl alcohol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
alpha-BHC	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
beta-BHC	ND	mg/kg	0.10	0.0075	EPA-8270C	ND		1
delta-BHC	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	mg/kg	0.10	0.0097	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chloroaniline	ND	mg/kg	0.10	0.015	EPA-8270C	ND		1
2-Chloronaphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Chrysene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,4'-DDD	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,4'-DDE	ND	mg/kg	0.10	0.0068	EPA-8270C	ND		1
4,4'-DDT	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dibenzofuran	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1

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APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-03	Client Sample Name: SB-3-4', 9/18/2023 12:00:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,2-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
Dieldrin	ND	mg/kg	0.10	0.0077	EPA-8270C	ND		1
Diethyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dimethyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	mg/kg	0.10	0.0085	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Endosulfan I	ND	mg/kg	0.20	0.0088	EPA-8270C	ND		1
Endosulfan II	ND	mg/kg	0.20	0.0088	EPA-8270C	ND		1
Endosulfan sulfate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Endrin	ND	mg/kg	0.20	0.0086	EPA-8270C	ND		1
Endrin aldehyde	ND	mg/kg	0.50	0.0070	EPA-8270C	ND		1
Fluoranthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Fluorene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Heptachlor	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Heptachlor epoxide	ND	mg/kg	0.10	0.013	EPA-8270C	ND		1
Hexachlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Hexachlorobutadiene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	mg/kg	0.10	0.015	EPA-8270C	ND		1
Hexachloroethane	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.10	0.0069	EPA-8270C	ND		1
Isophorone	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2-Methylnaphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Naphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2-Naphthylamine	ND	mg/kg	3.0	0.036	EPA-8270C	ND		1
2-Nitroaniline	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3-Nitroaniline	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
4-Nitroaniline	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1

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APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-03	Client Sample Name: SB-3-4', 9/18/2023 12:00:00PM, Scott B
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
N-Nitrosodimethylamine	ND	mg/kg	0.10	0.040	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Phenanthrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Pyrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
2-Chlorophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.50	0.0067	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	mg/kg	0.50	0.0067	EPA-8270C	ND		1
2-Methylphenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	mg/kg	0.20	0.014	EPA-8270C	ND		1
Total Methylphenol	ND	mg/kg	0.20	0.021	EPA-8270C	ND		1
2-Nitrophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Nitrophenol	ND	mg/kg	0.20	0.018	EPA-8270C	ND		1
Pentachlorophenol	ND	mg/kg	0.20	0.017	EPA-8270C	ND		1
Phenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
Pyridine	ND	mg/kg	0.50	0.065	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	67.2	%	20 - 130 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	74.8	%	30 - 130 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	68.5	%	30 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	39.2	%	30 - 140 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	36.7	%	20 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	23.4	%	30 - 150 (LCL - UCL)		EPA-8270C		S09	1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-8270C	09/28/23 14:56	09/29/23 15:36		CMM	MS-B9	1	B174941	EPA 3550B

DCN = Data Continuation Number



APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assesment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Chemical Analysis

BCL Sample ID: 2317918-03	Client Sample Name: SB-3-4', 9/18/2023 12:00:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	12.9	%	0.05	0.05	Calc	ND		1
Solids	87.1	%	0.05	0.05	SM-2540G			2

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	Calc	09/22/23	09:56	10/10/23	12:35	SPB	Calc	1	B174498	Calc
2	SM-2540G	09/27/23	14:00	09/28/23	09:00	ELR	MANUAL	1	B174741	SM 2540G

DCN = Data Continuation Number

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Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assesment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Total Concentrations (TTLIC)

BCL Sample ID: 2317918-03		Client Sample Name: SB-3-4', 9/18/2023 12:00:00PM, Scott B							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Arsenic	5.4	mg/kg	5.0	2.0	EPA-6010B	ND	A10	1	
Barium	160	mg/kg	2.5	0.90	EPA-6010B	ND	A10	1	
Cadmium	ND	mg/kg	2.5	0.26	EPA-6010B	ND	A10	1	
Chromium	39	mg/kg	2.5	0.25	EPA-6010B	0.40	A10	1	
Total Hexavalent Chromium	1.2	mg/kg	1.0	0.30	EPA-7199	ND		2	
Lead	11	mg/kg	12	2.0	EPA-6010B	ND	J,A10	1	
Mercury	0.050	mg/kg	0.16	0.016	EPA-7471A	ND	J	3	
Selenium	ND	mg/kg	5.0	4.9	EPA-6010B	ND	A10	1	
Silver	ND	mg/kg	2.5	0.34	EPA-6010B	ND	A10	1	

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	09/25/23 11:35	10/04/23	15:06	JRG	PE-OP4	5	B174581	EPA 3050B
2	EPA-7199	09/26/23 07:00	09/28/23	23:40	SM2	IC11	0.991	B174633	EPA 3060A
3	EPA-7471A	09/27/23 08:40	09/27/23	14:07	MG2	CETAC3	0.977	B174712	EPA 7471A

DCN = Data Continuation Number

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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:	2317918-04	Client Sample Name:	SB-1-4', 9/18/2023 1:40:00PM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Benzene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1	
Bromobenzene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1	
Bromochloromethane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1	
Bromodichloromethane	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1	
Bromoform	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1	
Bromomethane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1	
n-Butylbenzene	ND	mg/kg	0.0050	0.00076	EPA-8260B	ND		1	
sec-Butylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1	
tert-Butylbenzene	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1	
Carbon tetrachloride	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1	
Chlorobenzene	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1	
Chloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1	
Chloroform	ND	mg/kg	0.0050	0.00090	EPA-8260B	ND		1	
Chloromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1	
2-Chlorotoluene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1	
4-Chlorotoluene	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1	
Dibromochloromethane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.00096	EPA-8260B	ND		1	
1,2-Dibromoethane	ND	mg/kg	0.0050	0.00082	EPA-8260B	ND		1	
Dibromomethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1	
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1	
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1	
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1	
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1	
1,1-Dichloroethane	ND	mg/kg	0.0050	0.00064	EPA-8260B	ND		1	
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1	
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1	
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.00054	EPA-8260B	ND		1	
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0037	EPA-8260B	ND		1	
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1	
1,3-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1	
2,2-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1	
1,1-Dichloropropene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1	

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APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID: 2317918-04		Client Sample Name: SB-1-4', 9/18/2023 1:40:00PM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00058	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0011	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00056	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.00062	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00095	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	0.00097	EPA-8260B	ND		1
Toluene	0.0018	mg/kg	0.0050	0.00069	EPA-8260B	ND	J	1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00094	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.00074	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0019	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0025	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.00093	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.0	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	101	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assesment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID: 2317918-04	Client Sample Name: SB-1-4', 9/18/2023 1:40:00PM, Scott B						
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID

1	EPA-8260B	09/26/23 15:40	09/26/23 21:21	EAB	MS-V17	1.010	B174684 EPA 5035 Soil MS
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DCN = Data Continuation Number

APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-04		Client Sample Name: SB-1-4', 9/18/2023 1:40:00PM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Acenaphthylene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Aldrin	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Aniline	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1
Anthracene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzidine	ND	mg/kg	3.0	0.0093	EPA-8270C	ND		1
Benzo[a]anthracene	ND	mg/kg	0.10	0.0077	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	mg/kg	0.10	0.0082	EPA-8270C	ND		1
Benzo[b+k]fluoranthene	ND	mg/kg	0.10	0.0082	EPA-8270C	ND		1
Benzo[a]pyrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	mg/kg	0.10	0.013	EPA-8270C	ND		1
Benzoic acid	ND	mg/kg	0.50	0.014	EPA-8270C	ND		1
Benzyl alcohol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
alpha-BHC	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
beta-BHC	ND	mg/kg	0.10	0.0075	EPA-8270C	ND		1
delta-BHC	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	mg/kg	0.10	0.0097	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chloroaniline	ND	mg/kg	0.10	0.015	EPA-8270C	ND		1
2-Chloronaphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Chrysene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,4'-DDD	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,4'-DDE	ND	mg/kg	0.10	0.0068	EPA-8270C	ND		1
4,4'-DDT	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dibenzofuran	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1

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APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-04 **Client Sample Name:** SB-1-4', 9/18/2023 1:40:00PM, Scott B

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,2-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
Dieldrin	ND	mg/kg	0.10	0.0077	EPA-8270C	ND		1
Diethyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dimethyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	mg/kg	0.10	0.0085	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Endosulfan I	ND	mg/kg	0.20	0.0088	EPA-8270C	ND		1
Endosulfan II	ND	mg/kg	0.20	0.0088	EPA-8270C	ND		1
Endosulfan sulfate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Endrin	ND	mg/kg	0.20	0.0086	EPA-8270C	ND		1
Endrin aldehyde	ND	mg/kg	0.50	0.0070	EPA-8270C	ND		1
Fluoranthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Fluorene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Heptachlor	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Heptachlor epoxide	ND	mg/kg	0.10	0.013	EPA-8270C	ND		1
Hexachlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Hexachlorobutadiene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	mg/kg	0.10	0.015	EPA-8270C	ND		1
Hexachloroethane	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.10	0.0069	EPA-8270C	ND		1
Isophorone	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2-Methylnaphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Naphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2-Naphthylamine	ND	mg/kg	3.0	0.036	EPA-8270C	ND		1
2-Nitroaniline	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3-Nitroaniline	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
4-Nitroaniline	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1

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APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-04	Client Sample Name: SB-1-4', 9/18/2023 1:40:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
N-Nitrosodimethylamine	ND	mg/kg	0.10	0.040	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Phenanthrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Pyrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
2-Chlorophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.50	0.0067	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	mg/kg	0.50	0.0067	EPA-8270C	ND		1
2-Methylphenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3- & 4-Methylphenol	0.061	mg/kg	0.20	0.014	EPA-8270C	ND	J	1
Total Methylphenol	0.061	mg/kg	0.20	0.021	EPA-8270C	ND	J	1
2-Nitrophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Nitrophenol	ND	mg/kg	0.20	0.018	EPA-8270C	ND		1
Pentachlorophenol	ND	mg/kg	0.20	0.017	EPA-8270C	ND		1
Phenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
Pyridine	ND	mg/kg	0.50	0.065	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	68.0	%	20 - 130 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	73.8	%	30 - 130 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	65.6	%	30 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	60.5	%	30 - 140 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	61.4	%	20 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	74.8	%	30 - 150 (LCL - UCL)		EPA-8270C			1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-8270C	09/28/23 14:56	09/29/23 16:30		CMM	MS-B9	0.990	B174941	EPA 3550B

DCN = Data Continuation Number



APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assesment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Chemical Analysis

BCL Sample ID: 2317918-04	Client Sample Name: SB-1-4', 9/18/2023 1:40:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	17.8	%	0.05	0.05	Calc	ND		1
Solids	82.2	%	0.05	0.05	SM-2540G		S05	2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	Calc	09/22/23 09:56	10/10/23	12:35	SPB	Calc	1	B174498	Calc
2	SM-2540G	10/09/23 09:30	10/10/23	09:00	ELR	SC-2	1	B175676	SM 2540G

DCN = Data Continuation Number

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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Total Concentrations (TTLC)

BCL Sample ID: 2317918-04	Client Sample Name: SB-1-4', 9/18/2023 1:40:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Arsenic	4.3	mg/kg	5.0	2.0	EPA-6010B	ND	J,A10	1
Barium	150	mg/kg	2.5	0.90	EPA-6010B	ND	A10	1
Cadmium	ND	mg/kg	2.5	0.26	EPA-6010B	ND	A10	1
Chromium	33	mg/kg	2.5	0.25	EPA-6010B	0.38	A10	1
Lead	9.9	mg/kg	12	2.0	EPA-6010B	ND	J,A10	1
Mercury	0.10	mg/kg	0.16	0.016	EPA-7471A	ND	J	2
Selenium	ND	mg/kg	5.0	4.9	EPA-6010B	ND	A10	1
Silver	ND	mg/kg	2.5	0.34	EPA-6010B	ND	A10	1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	09/25/23 11:35	10/04/23 18:31		JRG	PE-OP4	4.762	B174581	EPA 3050B
2	EPA-7471A	09/27/23 08:40	09/27/23 14:09		MG2	CETAC3	1.025	B174712	EPA 7471A

DCN = Data Continuation Number

APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID: 2317918-05	Client Sample Name: SB-2-7', 9/18/2023 2:00:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0045	0.00060	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0045	0.00078	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0045	0.00073	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0045	0.00070	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0045	0.00063	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0045	0.0015	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0045	0.00068	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0045	0.00064	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0045	0.00076	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0045	0.00070	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0045	0.00069	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0045	0.00099	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0045	0.00081	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0045	0.00099	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0045	0.00078	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0045	0.00063	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0045	0.00072	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0045	0.00086	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0045	0.00073	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0045	0.0013	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0045	0.00071	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0045	0.00065	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0045	0.00065	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0045	0.00071	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0045	0.00057	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0045	0.00065	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0045	0.00099	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0045	0.00048	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0045	0.0033	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0045	0.00072	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0045	0.00060	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0045	0.00060	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0045	0.00060	EPA-8260B	ND		1

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 Concord, CA 94520

Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID: 2317918-05	Client Sample Name: SB-2-7', 9/18/2023 2:00:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0045	0.00052	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0045	0.00059	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0045	0.00062	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0045	0.00060	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0045	0.00072	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0045	0.00053	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.0090	0.00099	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0045	0.00050	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0045	0.00089	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0045	0.00064	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0045	0.00056	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0045	0.00085	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0045	0.00075	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0045	0.00087	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0045	0.00062	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0045	0.0013	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0045	0.0013	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0045	0.00060	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0045	0.00084	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0045	0.00066	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0045	0.0013	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0045	0.0017	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0045	0.00090	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0045	0.00072	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0045	0.00059	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0045	0.00053	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.0090	0.0022	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0045	0.0013	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0045	0.00083	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.7	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	101	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assesment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID: 2317918-05	Client Sample Name: SB-2-7', 9/18/2023 2:00:00PM, Scott B						
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID

1	EPA-8260B	09/26/23 15:40	09/27/23 00:35	EAB	MS-V17	0.896	B174684 EPA 5035 Soil MS
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DCN = Data Continuation Number

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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-05		Client Sample Name: SB-2-7', 9/18/2023 2:00:00PM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Acenaphthylene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Aldrin	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Aniline	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1
Anthracene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzidine	ND	mg/kg	3.0	0.0093	EPA-8270C	ND		1
Benzo[a]anthracene	ND	mg/kg	0.10	0.0077	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	mg/kg	0.10	0.0082	EPA-8270C	ND		1
Benzo[b+k]fluoranthene	ND	mg/kg	0.10	0.0082	EPA-8270C	ND		1
Benzo[a]pyrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	mg/kg	0.10	0.013	EPA-8270C	ND		1
Benzoic acid	ND	mg/kg	0.50	0.014	EPA-8270C	ND		1
Benzyl alcohol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
alpha-BHC	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
beta-BHC	ND	mg/kg	0.10	0.0075	EPA-8270C	ND		1
delta-BHC	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	mg/kg	0.10	0.0097	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chloroaniline	ND	mg/kg	0.10	0.015	EPA-8270C	ND		1
2-Chloronaphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Chrysene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,4'-DDD	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,4'-DDE	ND	mg/kg	0.10	0.0068	EPA-8270C	ND		1
4,4'-DDT	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dibenzofuran	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1

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APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-05	Client Sample Name: SB-2-7', 9/18/2023 2:00:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,2-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
Dieldrin	ND	mg/kg	0.10	0.0077	EPA-8270C	ND		1
Diethyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dimethyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	mg/kg	0.10	0.0085	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Endosulfan I	ND	mg/kg	0.20	0.0088	EPA-8270C	ND		1
Endosulfan II	ND	mg/kg	0.20	0.0088	EPA-8270C	ND		1
Endosulfan sulfate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Endrin	ND	mg/kg	0.20	0.0086	EPA-8270C	ND		1
Endrin aldehyde	ND	mg/kg	0.50	0.0070	EPA-8270C	ND		1
Fluoranthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Fluorene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Heptachlor	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Heptachlor epoxide	ND	mg/kg	0.10	0.013	EPA-8270C	ND		1
Hexachlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Hexachlorobutadiene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	mg/kg	0.10	0.015	EPA-8270C	ND		1
Hexachloroethane	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.10	0.0069	EPA-8270C	ND		1
Isophorone	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2-Methylnaphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Naphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2-Naphthylamine	ND	mg/kg	3.0	0.036	EPA-8270C	ND		1
2-Nitroaniline	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3-Nitroaniline	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
4-Nitroaniline	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1

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APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-05	Client Sample Name: SB-2-7', 9/18/2023 2:00:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
N-Nitrosodimethylamine	ND	mg/kg	0.10	0.040	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Phenanthrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Pyrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
2-Chlorophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.50	0.0067	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	mg/kg	0.50	0.0067	EPA-8270C	ND		1
2-Methylphenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	mg/kg	0.20	0.014	EPA-8270C	ND		1
Total Methylphenol	ND	mg/kg	0.20	0.021	EPA-8270C	ND		1
2-Nitrophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Nitrophenol	ND	mg/kg	0.20	0.018	EPA-8270C	ND		1
Pentachlorophenol	ND	mg/kg	0.20	0.017	EPA-8270C	ND		1
Phenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
Pyridine	ND	mg/kg	0.50	0.065	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	60.7	%	20 - 130 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	67.3	%	30 - 130 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	57.7	%	30 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	48.9	%	30 - 140 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	53.8	%	20 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	66.1	%	30 - 150 (LCL - UCL)		EPA-8270C			1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-8270C	09/28/23 14:56	09/29/23 16:57		CMM	MS-B9	0.987	B174941	EPA 3550B

DCN = Data Continuation Number



APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assesment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Chemical Analysis

BCL Sample ID: 2317918-05	Client Sample Name: SB-2-7', 9/18/2023 2:00:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	18.5	%	0.05	0.05	Calc	ND		1
Solids	81.5	%	0.05	0.05	SM-2540G			2

DCN	Method	Prep Date		Run		Analyst	Instrument	Dilution	QC	
				Date/Time	Date/Time				Batch ID	Prep Method
1	Calc	09/22/23	09:56	10/10/23	12:35	SPB	Calc	1	B174498	Calc
2	SM-2540G	09/27/23	14:00	09/28/23	09:00	ELR	MANUAL	1	B174741	SM 2540G

DCN = Data Continuation Number

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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Total Concentrations (TTLC)

BCL Sample ID: 2317918-05	Client Sample Name: SB-2-7', 9/18/2023 2:00:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Arsenic	4.4	mg/kg	5.0	2.0	EPA-6010B	ND	J,A10	1
Barium	150	mg/kg	2.5	0.90	EPA-6010B	ND	A10	1
Cadmium	ND	mg/kg	2.5	0.26	EPA-6010B	ND	A10	1
Chromium	32	mg/kg	2.5	0.25	EPA-6010B	0.37	A10	1
Lead	9.3	mg/kg	12	2.0	EPA-6010B	ND	J,A10	1
Mercury	0.030	mg/kg	0.16	0.016	EPA-7471A	ND	J	2
Selenium	ND	mg/kg	5.0	4.9	EPA-6010B	ND	A10	1
Silver	ND	mg/kg	2.5	0.34	EPA-6010B	ND	A10	1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	09/25/23 11:35	10/04/23 18:33		JRG	PE-OP4	4.587	B174581	EPA 3050B
2	EPA-7471A	09/27/23 08:40	09/27/23 14:11		MG2	CETAC3	1.025	B174712	EPA 7471A

DCN = Data Continuation Number

APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2317918-06	Client Sample Name: SB-3-W, 9/18/2023 4:15:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260B	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260B	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-8260B	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260B	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-8260B	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1

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 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2317918-06	Client Sample Name: SB-3-W, 9/18/2023 4:15:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Naphthalene	0.50	ug/L	0.50	0.36	EPA-8260B	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Toluene	0.27	ug/L	0.50	0.093	EPA-8260B	ND	J	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	121	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	110	%	80 - 120 (LCL - UCL)		EPA-8260B			1

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APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assesment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2317918-06	Client Sample Name: SB-3-W, 9/18/2023 4:15:00PM, Scott B
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DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	09/20/23	15:00	09/21/23	03:27	RCC	MS-V21	1	B174357	EPA 5030 Water MS

DCN = Data Continuation Number

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Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-06	Client Sample Name:	SB-3-W, 9/18/2023 4:15:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.28	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	1.6	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	0.52	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
bis(2-Chloroisopropyl) ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	4.0	0.20	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.24	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.34	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1

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 Concord, CA 94520

Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-06	Client Sample Name: SB-3-W, 9/18/2023 4:15:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,3-Dichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	0.53	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.39	EPA-8270C	ND		1
Diethyl phthalate	3.0	ug/L	2.0	0.20	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.40	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	0.31	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	0.30	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.23	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.44	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.25	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.29	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	1.3	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.38	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1

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 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-06	Client Sample Name: SB-3-W, 9/18/2023 4:15:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
N-Nitrosodimethylamine	ND	ug/L	2.0	1.2	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.24	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	0.40	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.40	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
Pyridine	ND	ug/L	10	1.6	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	35.2	%	30 - 120 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	35.5	%	12 - 110 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	63.7	%	50 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	71.8	%	55 - 125 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	68.8	%	40 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	0	%	40 - 150 (LCL - UCL)		EPA-8270C		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	09/25/23 15:30	09/28/23 00:03	CMM	MS-B2	1	B174351	EPA 3510C

DCN = Data Continuation Number

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Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Metals Analysis

BCL Sample ID:	2317918-06	Client Sample Name:	SB-3-W, 9/18/2023 4:15:00PM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Hexavalent Chromium	0.52	ug/L	0.20	0.13	EPA-7199	ND	S05	1	
Total Arsenic	ND	ug/L	50	7.8	EPA-6010B	ND		2	
Total Barium	120	ug/L	10	3.5	EPA-6010B	ND		2	
Total Cadmium	ND	ug/L	10	1.1	EPA-6010B	ND		2	
Total Chromium	21	ug/L	10	1.1	EPA-6010B	1.2		2	
Total Lead	4.9	ug/L	50	4.0	EPA-6010B	ND	J	2	
Total Mercury	0.023	ug/L	0.20	0.022	EPA-7470A	ND	J	3	
Total Selenium	ND	ug/L	100	15	EPA-6010B	ND		2	
Total Silver	ND	ug/L	10	1.9	EPA-6010B	ND		2	

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-7199	09/19/23 17:00	09/19/23	18:15	ANN	IC11	1	B174262	No Prep
2	EPA-6010B	09/22/23 17:20	10/05/23	18:46	ARD	PE-OP4	1	B174539	EPA 3010A
3	EPA-7470A	09/28/23 08:45	09/28/23	13:29	MG2	CETAC4	1	B174799	EPA 7470A

DCN = Data Continuation Number

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4005 Port Chicago Highway, Suite 200
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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2317918-07	Client Sample Name: SB-4-W, 9/18/2023 3:00:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260B	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260B	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-8260B	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260B	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-8260B	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1

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Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2317918-07	Client Sample Name: SB-4-W, 9/18/2023 3:00:00PM, Scott B
---------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260B	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Toluene	0.19	ug/L	0.50	0.093	EPA-8260B	ND	J	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	130	%	75 - 125 (LCL - UCL)		EPA-8260B		S09	1
Toluene-d8 (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	109	%	80 - 120 (LCL - UCL)		EPA-8260B			1

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APTIM -Concord
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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assesment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2317918-07	Client Sample Name: SB-4-W, 9/18/2023 3:00:00PM, Scott B
----------------------------------	---

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	09/20/23	15:00	09/21/23	09:39	RCC	MS-V21	1	B174357	EPA 5030 Water MS

DCN = Data Continuation Number

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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-07	Client Sample Name: SB-4-W, 9/18/2023 3:00:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.28	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	1.6	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	0.52	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
bis(2-Chloroisopropyl) ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	4.0	0.20	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.24	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.34	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1

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Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-07	Client Sample Name: SB-4-W, 9/18/2023 3:00:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,3-Dichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	0.53	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.39	EPA-8270C	ND		1
Diethyl phthalate	3.4	ug/L	2.0	0.20	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Di-n-butyl phthalate	2.9	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.40	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	0.31	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	0.30	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.23	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.44	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.25	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.29	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	1.3	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.38	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1

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Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-07	Client Sample Name: SB-4-W, 9/18/2023 3:00:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
N-Nitrosodimethylamine	ND	ug/L	2.0	1.2	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.24	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	0.40	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.40	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
Pyridine	ND	ug/L	10	1.6	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	33.0	%	30 - 120 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	32.8	%	12 - 110 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	58.1	%	50 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	68.1	%	55 - 125 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	70.8	%	40 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	64.8	%	40 - 150 (LCL - UCL)		EPA-8270C			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	09/25/23 15:30	09/28/23 00:32	CMM	MS-B2	1	B174351	EPA 3510C

DCN = Data Continuation Number



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Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assesment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Metals Analysis

BCL Sample ID:	2317918-07	Client Sample Name:	SB-4-W, 9/18/2023 3:00:00PM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Hexavalent Chromium	ND	ug/L	0.20	0.13	EPA-7199	ND	S05	1	
Total Arsenic	ND	ug/L	50	7.8	EPA-6010B	ND		2	
Total Barium	81	ug/L	10	3.5	EPA-6010B	ND		2	
Total Cadmium	ND	ug/L	10	1.1	EPA-6010B	ND		2	
Total Chromium	20	ug/L	10	1.1	EPA-6010B	1.2		2	
Total Lead	ND	ug/L	50	4.0	EPA-6010B	ND		2	
Total Mercury	0.16	ug/L	0.20	0.022	EPA-7470A	ND	J	3	
Total Selenium	ND	ug/L	100	15	EPA-6010B	ND		2	
Total Silver	ND	ug/L	10	1.9	EPA-6010B	ND		2	

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-7199	09/19/23 17:00	09/19/23	18:25	ANN	IC11	1	B174262	No Prep
2	EPA-6010B	09/22/23 17:20	10/05/23	18:48	ARD	PE-OP4	1	B174539	EPA 3010A
3	EPA-7470A	09/28/23 08:45	09/28/23	13:31	MG2	CETAC4	1	B174799	EPA 7470A

DCN = Data Continuation Number

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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2317918-08	Client Sample Name: SB-5-W, 9/18/2023 3:40:00PM, Scott B
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260B	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260B	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-8260B	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260B	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-8260B	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1

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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	2317918-08	Client Sample Name:	SB-5-W, 9/18/2023 3:40:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260B	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Toluene	0.30	ug/L	0.50	0.093	EPA-8260B	ND	J	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	125	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	112	%	80 - 120 (LCL - UCL)		EPA-8260B			1

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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assesment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2317918-08	Client Sample Name: SB-5-W, 9/18/2023 3:40:00PM, Scott B
----------------------------------	---

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	09/20/23	15:00	09/21/23	10:06	RCC	MS-V21	1	B174357	EPA 5030 Water MS

DCN = Data Continuation Number

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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-08	Client Sample Name: SB-5-W, 9/18/2023 3:40:00PM, Scott B
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Acenaphthylene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Aldrin	ND	ug/L	10	1.2	EPA-8270C	ND	A10	1
Aniline	ND	ug/L	25	1.4	EPA-8270C	ND	A10	1
Anthracene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Benzidine	ND	ug/L	100	8.0	EPA-8270C	ND	A10	1
Benzo[a]anthracene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Benzo[b]fluoranthene	ND	ug/L	10	1.2	EPA-8270C	ND	A10	1
Benzo[k]fluoranthene	ND	ug/L	10	1.5	EPA-8270C	ND	A10	1
Benzo[a]pyrene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Benzo[g,h,i]perylene	ND	ug/L	10	1.6	EPA-8270C	ND	A10	1
Benzoic acid	ND	ug/L	50	2.6	EPA-8270C	ND	A10	1
Benzyl alcohol	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Benzyl butyl phthalate	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
alpha-BHC	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
beta-BHC	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
delta-BHC	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
gamma-BHC (Lindane)	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
bis(2-Chloroethoxy)methane	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
bis(2-Chloroethyl) ether	ND	ug/L	10	1.6	EPA-8270C	ND	A10	1
bis(2-Chloroisopropyl) ether	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
bis(2-Ethylhexyl)phthalate	ND	ug/L	20	1.0	EPA-8270C	ND	A10	1
4-Bromophenyl phenyl ether	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
4-Chloroaniline	ND	ug/L	10	5.5	EPA-8270C	ND	A10	1
2-Chloronaphthalene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
4-Chlorophenyl phenyl ether	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Chrysene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
4,4'-DDD	ND	ug/L	10	1.3	EPA-8270C	ND	A10	1
4,4'-DDE	ND	ug/L	15	1.2	EPA-8270C	ND	A10	1
4,4'-DDT	ND	ug/L	10	1.1	EPA-8270C	ND	A10	1
Dibenzo[a,h]anthracene	ND	ug/L	15	1.7	EPA-8270C	ND	A10	1
Dibenzofuran	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
1,2-Dichlorobenzene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1

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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-08	Client Sample Name: SB-5-W, 9/18/2023 3:40:00PM, Scott B
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,3-Dichlorobenzene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
1,4-Dichlorobenzene	ND	ug/L	10	1.4	EPA-8270C	ND	A10	1
3,3-Dichlorobenzidine	ND	ug/L	50	2.6	EPA-8270C	ND	A10	1
Dieldrin	ND	ug/L	15	2.0	EPA-8270C	ND	A10	1
Diethyl phthalate	3.1	ug/L	10	1.0	EPA-8270C	ND	J,A10	1
Dimethyl phthalate	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Di-n-butyl phthalate	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
2,4-Dinitrotoluene	ND	ug/L	10	2.0	EPA-8270C	ND	A10	1
2,6-Dinitrotoluene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Di-n-octyl phthalate	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
1,2-Diphenylhydrazine	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Endosulfan I	ND	ug/L	50	1.6	EPA-8270C	ND	A10	1
Endosulfan II	ND	ug/L	50	1.5	EPA-8270C	ND	A10	1
Endosulfan sulfate	ND	ug/L	15	1.2	EPA-8270C	ND	A10	1
Endrin	ND	ug/L	10	1.9	EPA-8270C	ND	A10	1
Endrin aldehyde	ND	ug/L	50	2.2	EPA-8270C	ND	A10	1
Fluoranthene	ND	ug/L	10	1.4	EPA-8270C	ND	A10	1
Fluorene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Heptachlor	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Heptachlor epoxide	ND	ug/L	10	1.3	EPA-8270C	ND	A10	1
Hexachlorobenzene	ND	ug/L	10	1.2	EPA-8270C	ND	A10	1
Hexachlorobutadiene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Hexachlorocyclopentadiene	ND	ug/L	10	1.6	EPA-8270C	ND	A10	1
Hexachloroethane	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	ug/L	10	1.4	EPA-8270C	ND	A10	1
Isophorone	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
2-Methylnaphthalene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Naphthalene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
2-Naphthylamine	ND	ug/L	100	6.5	EPA-8270C	ND	A10	1
2-Nitroaniline	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
3-Nitroaniline	ND	ug/L	10	1.1	EPA-8270C	ND	A10	1
4-Nitroaniline	ND	ug/L	25	1.9	EPA-8270C	ND	A10	1
Nitrobenzene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1

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Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2317918-08	Client Sample Name: SB-5-W, 9/18/2023 3:40:00PM, Scott B
---------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
N-Nitrosodimethylamine	ND	ug/L	10	6.0	EPA-8270C	ND	A10	1
N-Nitrosodi-N-propylamine	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
N-Nitrosodiphenylamine	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Phenanthrene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Pyrene	ND	ug/L	10	1.1	EPA-8270C	ND	A10	1
1,2,4-Trichlorobenzene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
4-Chloro-3-methylphenol	ND	ug/L	25	1.0	EPA-8270C	ND	A10	1
2-Chlorophenol	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
2,4-Dichlorophenol	ND	ug/L	10	1.2	EPA-8270C	ND	A10	1
2,4-Dimethylphenol	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
4,6-Dinitro-2-methylphenol	ND	ug/L	50	1.2	EPA-8270C	ND	A10	1
2,4-Dinitrophenol	ND	ug/L	50	1.0	EPA-8270C	ND	A10	1
2-Methylphenol	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
3- & 4-Methylphenol	ND	ug/L	10	2.0	EPA-8270C	ND	A10	1
2-Nitrophenol	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
4-Nitrophenol	ND	ug/L	10	1.5	EPA-8270C	ND	A10	1
Pentachlorophenol	ND	ug/L	50	2.0	EPA-8270C	ND	A10	1
Phenol	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
2,4,5-Trichlorophenol	ND	ug/L	25	1.0	EPA-8270C	ND	A10	1
2,4,6-Trichlorophenol	ND	ug/L	25	1.0	EPA-8270C	ND	A10	1
Pyridine	ND	ug/L	50	8.0	EPA-8270C	ND	A10	1
2-Fluorophenol (Surrogate)	34.8	%	30 - 120 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	35.4	%	12 - 110 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	56.2	%	50 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	64.9	%	55 - 125 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	61.5	%	40 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	58.5	%	40 - 150 (LCL - UCL)		EPA-8270C			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	09/25/23 15:30	09/28/23 04:21	CMM	MS-B2	5	B174351	EPA 3510C

DCN = Data Continuation Number

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Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Metals Analysis

BCL Sample ID:	2317918-08	Client Sample Name:	SB-5-W, 9/18/2023 3:40:00PM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Hexavalent Chromium	0.17	ug/L	0.20	0.13	EPA-7199	ND	J,S05	1	
Total Arsenic	ND	ug/L	50	7.8	EPA-6010B	ND		2	
Total Barium	180	ug/L	10	3.5	EPA-6010B	ND		2	
Total Cadmium	ND	ug/L	10	1.1	EPA-6010B	ND		2	
Total Chromium	41	ug/L	10	1.1	EPA-6010B	1.2		2	
Total Lead	ND	ug/L	50	4.0	EPA-6010B	ND		2	
Total Mercury	0.092	ug/L	0.20	0.022	EPA-7470A	ND	J	3	
Total Selenium	ND	ug/L	100	15	EPA-6010B	ND		2	
Total Silver	ND	ug/L	10	1.9	EPA-6010B	ND		2	

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-7199	09/19/23 17:00	09/19/23	18:34	ANN	IC11	1	B174262	No Prep
2	EPA-6010B	09/22/23 17:20	10/05/23	18:49	ARD	PE-OP4	1	B174539	EPA 3010A
3	EPA-7470A	09/28/23 08:45	09/28/23	13:33	MG2	CETAC4	1	B174799	EPA 7470A

DCN = Data Continuation Number



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 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B174357							
Benzene	B174357-BLK1	ND	ug/L	0.50	0.083		1
Bromobenzene	B174357-BLK1	ND	ug/L	0.50	0.13		1
Bromochloromethane	B174357-BLK1	ND	ug/L	0.50	0.24		1
Bromodichloromethane	B174357-BLK1	ND	ug/L	0.50	0.14		1
Bromoform	B174357-BLK1	ND	ug/L	0.50	0.27		1
Bromomethane	B174357-BLK1	ND	ug/L	1.0	0.25		1
n-Butylbenzene	B174357-BLK1	ND	ug/L	0.50	0.11		1
sec-Butylbenzene	B174357-BLK1	ND	ug/L	0.50	0.15		1
tert-Butylbenzene	B174357-BLK1	ND	ug/L	0.50	0.13		1
Carbon tetrachloride	B174357-BLK1	ND	ug/L	0.50	0.18		1
Chlorobenzene	B174357-BLK1	ND	ug/L	0.50	0.093		1
Chloroethane	B174357-BLK1	ND	ug/L	0.50	0.14		1
Chloroform	B174357-BLK1	ND	ug/L	0.50	0.12		1
Chloromethane	B174357-BLK1	ND	ug/L	0.50	0.14		1
2-Chlorotoluene	B174357-BLK1	ND	ug/L	0.50	0.20		1
4-Chlorotoluene	B174357-BLK1	ND	ug/L	0.50	0.15		1
Dibromochloromethane	B174357-BLK1	ND	ug/L	0.50	0.13		1
1,2-Dibromo-3-chloropropane	B174357-BLK1	ND	ug/L	1.0	0.44		1
1,2-Dibromoethane	B174357-BLK1	ND	ug/L	0.50	0.16		1
Dibromomethane	B174357-BLK1	ND	ug/L	0.50	0.24		1
1,2-Dichlorobenzene	B174357-BLK1	ND	ug/L	0.50	0.072		1
1,3-Dichlorobenzene	B174357-BLK1	ND	ug/L	0.50	0.15		1
1,4-Dichlorobenzene	B174357-BLK1	ND	ug/L	0.50	0.062		1
Dichlorodifluoromethane	B174357-BLK1	ND	ug/L	0.50	0.099		1
1,1-Dichloroethane	B174357-BLK1	ND	ug/L	0.50	0.11		1
1,2-Dichloroethane	B174357-BLK1	ND	ug/L	0.50	0.17		1
1,1-Dichloroethene	B174357-BLK1	ND	ug/L	0.50	0.18		1
cis-1,2-Dichloroethene	B174357-BLK1	ND	ug/L	0.50	0.085		1
trans-1,2-Dichloroethene	B174357-BLK1	ND	ug/L	0.50	0.15		1
1,2-Dichloropropane	B174357-BLK1	ND	ug/L	0.50	0.13		1
1,3-Dichloropropane	B174357-BLK1	ND	ug/L	0.50	0.086		1
2,2-Dichloropropane	B174357-BLK1	ND	ug/L	0.50	0.13		1
1,1-Dichloropropene	B174357-BLK1	ND	ug/L	0.50	0.085		1
cis-1,3-Dichloropropene	B174357-BLK1	ND	ug/L	0.50	0.14		1

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Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B174357							
trans-1,3-Dichloropropene	B174357-BLK1	ND	ug/L	0.50	0.079		1
Ethylbenzene	B174357-BLK1	ND	ug/L	0.50	0.098		1
Hexachlorobutadiene	B174357-BLK1	ND	ug/L	0.50	0.17		1
Isopropylbenzene	B174357-BLK1	ND	ug/L	0.50	0.14		1
p-Isopropyltoluene	B174357-BLK1	ND	ug/L	0.50	0.12		1
Methylene chloride	B174357-BLK1	ND	ug/L	1.0	0.48		1
Methyl t-butyl ether	B174357-BLK1	ND	ug/L	0.50	0.11		1
Naphthalene	B174357-BLK1	ND	ug/L	0.50	0.36		1
n-Propylbenzene	B174357-BLK1	ND	ug/L	0.50	0.11		1
Styrene	B174357-BLK1	ND	ug/L	0.50	0.068		1
1,1,1,2-Tetrachloroethane	B174357-BLK1	ND	ug/L	0.50	0.18		1
1,1,1,2,2-Tetrachloroethane	B174357-BLK1	ND	ug/L	0.50	0.17		1
Tetrachloroethane	B174357-BLK1	ND	ug/L	0.50	0.13		1
Toluene	B174357-BLK1	ND	ug/L	0.50	0.093		1
1,2,3-Trichlorobenzene	B174357-BLK1	ND	ug/L	0.50	0.16		1
1,2,4-Trichlorobenzene	B174357-BLK1	ND	ug/L	0.50	0.19		1
1,1,1-Trichloroethane	B174357-BLK1	ND	ug/L	0.50	0.11		1
1,1,2-Trichloroethane	B174357-BLK1	ND	ug/L	0.50	0.16		1
Trichloroethene	B174357-BLK1	ND	ug/L	0.50	0.085		1
Trichlorofluoromethane	B174357-BLK1	ND	ug/L	0.50	0.13		1
1,2,3-Trichloropropane	B174357-BLK1	ND	ug/L	1.0	0.24		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B174357-BLK1	ND	ug/L	0.50	0.15		1
1,2,4-Trimethylbenzene	B174357-BLK1	ND	ug/L	0.50	0.12		1
1,3,5-Trimethylbenzene	B174357-BLK1	ND	ug/L	0.50	0.12		1
Vinyl chloride	B174357-BLK1	ND	ug/L	0.50	0.12		1
Total Xylenes	B174357-BLK1	ND	ug/L	1.0	0.36		1
p- & m-Xylenes	B174357-BLK1	ND	ug/L	0.50	0.28		1
o-Xylene	B174357-BLK1	ND	ug/L	0.50	0.082		1
1,2-Dichloroethane-d4 (Surrogate)	B174357-BLK1	87.9	%	75 - 125 (LCL - UCL)			1
Toluene-d8 (Surrogate)	B174357-BLK1	96.3	%	80 - 120 (LCL - UCL)			1
4-Bromofluorobenzene (Surrogate)	B174357-BLK1	96.3	%	80 - 120 (LCL - UCL)			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B174357-BLK1	PB	EPA-8260B	09/20/23	09/20/23 19:35	RCC	MS-V21	1

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Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B174357											
Benzene	B174357-BS1	LCS	26.380	25.000	ug/L	106		70 - 130			1
Bromodichloromethane	B174357-BS1	LCS	28.080	25.000	ug/L	112		70 - 130			1
Chlorobenzene	B174357-BS1	LCS	27.500	25.000	ug/L	110		70 - 130			1
Chloroethane	B174357-BS1	LCS	26.830	25.000	ug/L	107		70 - 130			1
1,4-Dichlorobenzene	B174357-BS1	LCS	29.200	25.000	ug/L	117		70 - 130			1
1,1-Dichloroethane	B174357-BS1	LCS	26.170	25.000	ug/L	105		70 - 130			1
1,1-Dichloroethene	B174357-BS1	LCS	27.460	25.000	ug/L	110		70 - 130			1
Toluene	B174357-BS1	LCS	27.470	25.000	ug/L	110		70 - 130			1
Trichloroethene	B174357-BS1	LCS	25.400	25.000	ug/L	102		70 - 130			1
1,2-Dichloroethane-d4 (Surrogate)	B174357-BS1	LCS	10.030	10.000	ug/L	100		75 - 125			1
Toluene-d8 (Surrogate)	B174357-BS1	LCS	9.8600	10.000	ug/L	98.6		80 - 120			1
4-Bromofluorobenzene (Surrogate)	B174357-BS1	LCS	10.990	10.000	ug/L	110		80 - 120			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B174357-BS1	LCS	EPA-8260B	09/20/23	09/20/23	17:23	RCC	ms-v21	1

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APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals	R#
									RPD	Percent Recovery		
QC Batch ID: B174357		Used client sample: N										
Benzene	MS	2318002-02	ND	20.310	25.000	ug/L		81.2		70 - 130		1
	MSD	2318002-02	ND	20.090	25.000	ug/L	1.1	80.4	20	70 - 130		2
Bromodichloromethane	MS	2318002-02	ND	26.980	25.000	ug/L		108		70 - 130		1
	MSD	2318002-02	ND	25.230	25.000	ug/L	6.7	101	20	70 - 130		2
Chlorobenzene	MS	2318002-02	ND	27.730	25.000	ug/L		111		70 - 130		1
	MSD	2318002-02	ND	26.140	25.000	ug/L	5.9	105	20	70 - 130		2
Chloroethane	MS	2318002-02	ND	26.590	25.000	ug/L		106		70 - 130		1
	MSD	2318002-02	ND	26.430	25.000	ug/L	0.6	106	20	70 - 130		2
1,4-Dichlorobenzene	MS	2318002-02	ND	29.410	25.000	ug/L		118		70 - 130		1
	MSD	2318002-02	ND	28.200	25.000	ug/L	4.2	113	20	70 - 130		2
1,1-Dichloroethane	MS	2318002-02	ND	19.490	25.000	ug/L		78.0		70 - 130		1
	MSD	2318002-02	ND	19.240	25.000	ug/L	1.3	77.0	20	70 - 130		2
1,1-Dichloroethene	MS	2318002-02	ND	20.990	25.000	ug/L		84.0		70 - 130		1
	MSD	2318002-02	ND	20.980	25.000	ug/L	0.0	83.9	20	70 - 130		2
Toluene	MS	2318002-02	ND	24.740	25.000	ug/L		99.0		70 - 130		1
	MSD	2318002-02	ND	24.110	25.000	ug/L	2.6	96.4	20	70 - 130		2
Trichloroethene	MS	2318002-02	ND	22.230	25.000	ug/L		88.9		70 - 130		1
	MSD	2318002-02	ND	21.110	25.000	ug/L	5.2	84.4	20	70 - 130		2
1,2-Dichloroethane-d4 (Surrogate)	MS	2318002-02	ND	11.780	10.000	ug/L		118		75 - 125		1
	MSD	2318002-02	ND	11.570	10.000	ug/L	1.8	116		75 - 125		2
Toluene-d8 (Surrogate)	MS	2318002-02	ND	10.150	10.000	ug/L		102		80 - 120		1
	MSD	2318002-02	ND	10.020	10.000	ug/L	1.3	100		80 - 120		2
4-Bromofluorobenzene (Surrogate)	MS	2318002-02	ND	11.250	10.000	ug/L		112		80 - 120		1
	MSD	2318002-02	ND	10.920	10.000	ug/L	3.0	109		80 - 120		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B174357-MS1	MS	EPA-8260B	09/20/23	09/20/23 22:38	RCC	MS-V21	1
2	B174357-MSD1	MSD	EPA-8260B	09/20/23	09/20/23 23:05	RCC	MS-V21	1

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APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B174618							
Benzene	B174618-BLK1	ND	mg/kg	0.0050	0.00067		1
Bromobenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00087		1
Bromochloromethane	B174618-BLK1	ND	mg/kg	0.0050	0.00081		1
Bromodichloromethane	B174618-BLK1	ND	mg/kg	0.0050	0.00078		1
Bromoform	B174618-BLK1	ND	mg/kg	0.0050	0.00070		1
Bromomethane	B174618-BLK1	ND	mg/kg	0.0050	0.0017		1
n-Butylbenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00076		1
sec-Butylbenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00071		1
tert-Butylbenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00085		1
Carbon tetrachloride	B174618-BLK1	ND	mg/kg	0.0050	0.00078		1
Chlorobenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00077		1
Chloroethane	B174618-BLK1	ND	mg/kg	0.0050	0.0011		1
Chloroform	B174618-BLK1	ND	mg/kg	0.0050	0.00090		1
Chloromethane	B174618-BLK1	ND	mg/kg	0.0050	0.0011		1
2-Chlorotoluene	B174618-BLK1	ND	mg/kg	0.0050	0.00087		1
4-Chlorotoluene	B174618-BLK1	ND	mg/kg	0.0050	0.00070		1
Dibromochloromethane	B174618-BLK1	ND	mg/kg	0.0050	0.00080		1
1,2-Dibromo-3-chloropropane	B174618-BLK1	ND	mg/kg	0.0050	0.00096		1
1,2-Dibromoethane	B174618-BLK1	ND	mg/kg	0.0050	0.00082		1
Dibromomethane	B174618-BLK1	ND	mg/kg	0.0050	0.0014		1
1,2-Dichlorobenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00079		1
1,3-Dichlorobenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00073		1
1,4-Dichlorobenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00073		1
Dichlorodifluoromethane	B174618-BLK1	ND	mg/kg	0.0050	0.00079		1
1,1-Dichloroethane	B174618-BLK1	ND	mg/kg	0.0050	0.00064		1
1,2-Dichloroethane	B174618-BLK1	ND	mg/kg	0.0050	0.00073		1
1,1-Dichloroethene	B174618-BLK1	ND	mg/kg	0.0050	0.0011		1
cis-1,2-Dichloroethene	B174618-BLK1	ND	mg/kg	0.0050	0.00054		1
trans-1,2-Dichloroethene	B174618-BLK1	ND	mg/kg	0.0050	0.0037		1
1,2-Dichloropropane	B174618-BLK1	ND	mg/kg	0.0050	0.00080		1
1,3-Dichloropropane	B174618-BLK1	ND	mg/kg	0.0050	0.00067		1
2,2-Dichloropropane	B174618-BLK1	ND	mg/kg	0.0050	0.00067		1
1,1-Dichloropropene	B174618-BLK1	ND	mg/kg	0.0050	0.00067		1
cis-1,3-Dichloropropene	B174618-BLK1	ND	mg/kg	0.0050	0.00058		1

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APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B174618							
trans-1,3-Dichloropropene	B174618-BLK1	ND	mg/kg	0.0050	0.00066		1
Ethylbenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00069		1
Hexachlorobutadiene	B174618-BLK1	ND	mg/kg	0.0050	0.00067		1
Isopropylbenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00080		1
p-Isopropyltoluene	B174618-BLK1	ND	mg/kg	0.0050	0.00059		1
Methylene chloride	B174618-BLK1	ND	mg/kg	0.010	0.0011		1
Methyl t-butyl ether	B174618-BLK1	ND	mg/kg	0.0050	0.00056		1
Naphthalene	B174618-BLK1	ND	mg/kg	0.0050	0.00099		1
n-Propylbenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00071		1
Styrene	B174618-BLK1	ND	mg/kg	0.0050	0.00062		1
1,1,1,2-Tetrachloroethane	B174618-BLK1	ND	mg/kg	0.0050	0.00095		1
1,1,1,2-Tetrachloroethane	B174618-BLK1	ND	mg/kg	0.0050	0.00084		1
Tetrachloroethane	B174618-BLK1	ND	mg/kg	0.0050	0.00097		1
Toluene	B174618-BLK1	ND	mg/kg	0.0050	0.00069		1
1,2,3-Trichlorobenzene	B174618-BLK1	ND	mg/kg	0.0050	0.0015		1
1,2,4-Trichlorobenzene	B174618-BLK1	ND	mg/kg	0.0050	0.0014		1
1,1,1-Trichloroethane	B174618-BLK1	ND	mg/kg	0.0050	0.00067		1
1,1,2-Trichloroethane	B174618-BLK1	ND	mg/kg	0.0050	0.00094		1
Trichloroethene	B174618-BLK1	ND	mg/kg	0.0050	0.00074		1
Trichlorofluoromethane	B174618-BLK1	ND	mg/kg	0.0050	0.0015		1
1,2,3-Trichloropropane	B174618-BLK1	ND	mg/kg	0.0050	0.0019		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B174618-BLK1	ND	mg/kg	0.0050	0.0010		1
1,2,4-Trimethylbenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00080		1
1,3,5-Trimethylbenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00066		1
Vinyl chloride	B174618-BLK1	ND	mg/kg	0.0050	0.00059		1
Total Xylenes	B174618-BLK1	ND	mg/kg	0.010	0.0025		1
p- & m-Xylenes	B174618-BLK1	ND	mg/kg	0.0050	0.0015		1
o-Xylene	B174618-BLK1	ND	mg/kg	0.0050	0.00093		1
1,2-Dichloroethane-d4 (Surrogate)	B174618-BLK1	113	%	70 - 121 (LCL - UCL)			1
Toluene-d8 (Surrogate)	B174618-BLK1	101	%	81 - 117 (LCL - UCL)			1
4-Bromofluorobenzene (Surrogate)	B174618-BLK1	102	%	74 - 121 (LCL - UCL)			1
QC Batch ID: B174684							
Benzene	B174684-BLK1	ND	mg/kg	0.0050	0.00067		2

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APTIM -Concord
 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B174684							
Bromobenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00087		2
Bromochloromethane	B174684-BLK1	ND	mg/kg	0.0050	0.00081		2
Bromodichloromethane	B174684-BLK1	ND	mg/kg	0.0050	0.00078		2
Bromoform	B174684-BLK1	ND	mg/kg	0.0050	0.00070		2
Bromomethane	B174684-BLK1	ND	mg/kg	0.0050	0.0017		2
n-Butylbenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00076		2
sec-Butylbenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00071		2
tert-Butylbenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00085		2
Carbon tetrachloride	B174684-BLK1	ND	mg/kg	0.0050	0.00078		2
Chlorobenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00077		2
Chloroethane	B174684-BLK1	ND	mg/kg	0.0050	0.0011		2
Chloroform	B174684-BLK1	ND	mg/kg	0.0050	0.00090		2
Chloromethane	B174684-BLK1	ND	mg/kg	0.0050	0.0011		2
2-Chlorotoluene	B174684-BLK1	ND	mg/kg	0.0050	0.00087		2
4-Chlorotoluene	B174684-BLK1	ND	mg/kg	0.0050	0.00070		2
Dibromochloromethane	B174684-BLK1	ND	mg/kg	0.0050	0.00080		2
1,2-Dibromo-3-chloropropane	B174684-BLK1	ND	mg/kg	0.0050	0.00096		2
1,2-Dibromoethane	B174684-BLK1	ND	mg/kg	0.0050	0.00082		2
Dibromomethane	B174684-BLK1	ND	mg/kg	0.0050	0.0014		2
1,2-Dichlorobenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00079		2
1,3-Dichlorobenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00073		2
1,4-Dichlorobenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00073		2
Dichlorodifluoromethane	B174684-BLK1	ND	mg/kg	0.0050	0.00079		2
1,1-Dichloroethane	B174684-BLK1	ND	mg/kg	0.0050	0.00064		2
1,2-Dichloroethane	B174684-BLK1	ND	mg/kg	0.0050	0.00073		2
1,1-Dichloroethene	B174684-BLK1	ND	mg/kg	0.0050	0.0011		2
cis-1,2-Dichloroethene	B174684-BLK1	ND	mg/kg	0.0050	0.00054		2
trans-1,2-Dichloroethene	B174684-BLK1	ND	mg/kg	0.0050	0.0037		2
1,2-Dichloropropane	B174684-BLK1	ND	mg/kg	0.0050	0.00080		2
1,3-Dichloropropane	B174684-BLK1	ND	mg/kg	0.0050	0.00067		2
2,2-Dichloropropane	B174684-BLK1	ND	mg/kg	0.0050	0.00067		2
1,1-Dichloropropene	B174684-BLK1	ND	mg/kg	0.0050	0.00067		2
cis-1,3-Dichloropropene	B174684-BLK1	ND	mg/kg	0.0050	0.00058		2
trans-1,3-Dichloropropene	B174684-BLK1	ND	mg/kg	0.0050	0.00066		2

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 4005 Port Chicago Highway, Suite 200
 Concord, CA 94520

Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B174684							
Ethylbenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00069		2
Hexachlorobutadiene	B174684-BLK1	ND	mg/kg	0.0050	0.00067		2
Isopropylbenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00080		2
p-Isopropyltoluene	B174684-BLK1	ND	mg/kg	0.0050	0.00059		2
Methylene chloride	B174684-BLK1	ND	mg/kg	0.010	0.0011		2
Methyl t-butyl ether	B174684-BLK1	ND	mg/kg	0.0050	0.00056		2
Naphthalene	B174684-BLK1	ND	mg/kg	0.0050	0.00099		2
n-Propylbenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00071		2
Styrene	B174684-BLK1	ND	mg/kg	0.0050	0.00062		2
1,1,1,2-Tetrachloroethane	B174684-BLK1	ND	mg/kg	0.0050	0.00095		2
1,1,2,2-Tetrachloroethane	B174684-BLK1	ND	mg/kg	0.0050	0.00084		2
Tetrachloroethene	B174684-BLK1	ND	mg/kg	0.0050	0.00097		2
Toluene	B174684-BLK1	ND	mg/kg	0.0050	0.00069		2
1,2,3-Trichlorobenzene	B174684-BLK1	ND	mg/kg	0.0050	0.0015		2
1,2,4-Trichlorobenzene	B174684-BLK1	ND	mg/kg	0.0050	0.0014		2
1,1,1-Trichloroethane	B174684-BLK1	ND	mg/kg	0.0050	0.00067		2
1,1,2-Trichloroethane	B174684-BLK1	ND	mg/kg	0.0050	0.00094		2
Trichloroethene	B174684-BLK1	ND	mg/kg	0.0050	0.00074		2
Trichlorofluoromethane	B174684-BLK1	ND	mg/kg	0.0050	0.0015		2
1,2,3-Trichloropropane	B174684-BLK1	ND	mg/kg	0.0050	0.0019		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B174684-BLK1	ND	mg/kg	0.0050	0.0010		2
1,2,4-Trimethylbenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00080		2
1,3,5-Trimethylbenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00066		2
Vinyl chloride	B174684-BLK1	ND	mg/kg	0.0050	0.00059		2
Total Xylenes	B174684-BLK1	ND	mg/kg	0.010	0.0025		2
p- & m-Xylenes	B174684-BLK1	ND	mg/kg	0.0050	0.0015		2
o-Xylene	B174684-BLK1	ND	mg/kg	0.0050	0.00093		2
1,2-Dichloroethane-d4 (Surrogate)	B174684-BLK1	101	%	70 - 121 (LCL - UCL)			2
Toluene-d8 (Surrogate)	B174684-BLK1	98.6	%	81 - 117 (LCL - UCL)			2
4-Bromofluorobenzene (Surrogate)	B174684-BLK1	100	%	74 - 121 (LCL - UCL)			2

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Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assesment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B174618-BLK1	PB	EPA-8260B	09/26/23	09/26/23 11:37	EAB	MS-V17	1
2	B174684-BLK1	PB	EPA-8260B	09/26/23	09/26/23 21:42	EAB	MS-V17	1

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Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B174618											
Benzene	B174618-BS1	LCS	0.11963	0.12500	mg/kg	95.7		70 - 130			1
Bromodichloromethane	B174618-BS1	LCS	0.14374	0.12500	mg/kg	115		70 - 130			1
Chlorobenzene	B174618-BS1	LCS	0.12678	0.12500	mg/kg	101		70 - 130			1
Chloroethane	B174618-BS1	LCS	0.10405	0.12500	mg/kg	83.2		70 - 130			1
1,4-Dichlorobenzene	B174618-BS1	LCS	0.14307	0.12500	mg/kg	114		70 - 130			1
1,1-Dichloroethane	B174618-BS1	LCS	0.11799	0.12500	mg/kg	94.4		70 - 130			1
1,1-Dichloroethene	B174618-BS1	LCS	0.12772	0.12500	mg/kg	102		70 - 130			1
Toluene	B174618-BS1	LCS	0.12786	0.12500	mg/kg	102		70 - 130			1
Trichloroethene	B174618-BS1	LCS	0.13159	0.12500	mg/kg	105		70 - 130			1
1,2-Dichloroethane-d4 (Surrogate)	B174618-BS1	LCS	0.056550	0.050000	mg/kg	113		70 - 121			1
Toluene-d8 (Surrogate)	B174618-BS1	LCS	0.051380	0.050000	mg/kg	103		81 - 117			1
4-Bromofluorobenzene (Surrogate)	B174618-BS1	LCS	0.052790	0.050000	mg/kg	106		74 - 121			1

QC Batch ID: B174684											
Benzene	B174684-BS1	LCS	0.12223	0.12500	mg/kg	97.8		70 - 130			2
Bromodichloromethane	B174684-BS1	LCS	0.13981	0.12500	mg/kg	112		70 - 130			2
Chlorobenzene	B174684-BS1	LCS	0.13227	0.12500	mg/kg	106		70 - 130			2
Chloroethane	B174684-BS1	LCS	0.10977	0.12500	mg/kg	87.8		70 - 130			2
1,4-Dichlorobenzene	B174684-BS1	LCS	0.14323	0.12500	mg/kg	115		70 - 130			2
1,1-Dichloroethane	B174684-BS1	LCS	0.11919	0.12500	mg/kg	95.4		70 - 130			2
1,1-Dichloroethene	B174684-BS1	LCS	0.12812	0.12500	mg/kg	102		70 - 130			2
Toluene	B174684-BS1	LCS	0.13467	0.12500	mg/kg	108		70 - 130			2
Trichloroethene	B174684-BS1	LCS	0.13919	0.12500	mg/kg	111		70 - 130			2
1,2-Dichloroethane-d4 (Surrogate)	B174684-BS1	LCS	0.049240	0.050000	mg/kg	98.5		70 - 121			2
Toluene-d8 (Surrogate)	B174684-BS1	LCS	0.050410	0.050000	mg/kg	101		81 - 117			2
4-Bromofluorobenzene (Surrogate)	B174684-BS1	LCS	0.051740	0.050000	mg/kg	103		74 - 121			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B174618-BS1	LCS	EPA-8260B	09/26/23	09/26/23 11:59	EAB	MS-V17	1
2	B174684-BS1	LCS	EPA-8260B	09/26/23	09/26/23 22:04	EAB	MS-V17	1

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APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab	R#
									RPD	Percent Recovery		
QC Batch ID: B174618		Used client sample: N										
Benzene	MS	2318247-01	ND	0.11295	0.12500	mg/kg		90.4	70 - 130			1
	MSD	2318247-01	ND	0.092560	0.12500	mg/kg	19.8	74.0	20	70 - 130		2
Bromodichloromethane	MS	2318247-01	ND	0.13266	0.12500	mg/kg		106	70 - 130			1
	MSD	2318247-01	ND	0.10557	0.12500	mg/kg	22.7	84.5	20	70 - 130	Q02	2
Chlorobenzene	MS	2318247-01	ND	0.10017	0.12500	mg/kg		80.1	70 - 130			1
	MSD	2318247-01	ND	0.077860	0.12500	mg/kg	25.1	62.3	20	70 - 130	Q02,Q03	2
Chloroethane	MS	2318247-01	ND	0.10477	0.12500	mg/kg		83.8	70 - 130			1
	MSD	2318247-01	ND	0.087610	0.12500	mg/kg	17.8	70.1	20	70 - 130		2
1,4-Dichlorobenzene	MS	2318247-01	ND	0.069920	0.12500	mg/kg		55.9	70 - 130		Q03	1
	MSD	2318247-01	ND	0.052000	0.12500	mg/kg	29.4	41.6	20	70 - 130	Q02,Q03	2
1,1-Dichloroethane	MS	2318247-01	ND	0.11699	0.12500	mg/kg		93.6	70 - 130			1
	MSD	2318247-01	ND	0.096280	0.12500	mg/kg	19.4	77.0	20	70 - 130		2
1,1-Dichloroethene	MS	2318247-01	ND	0.12198	0.12500	mg/kg		97.6	70 - 130			1
	MSD	2318247-01	ND	0.099820	0.12500	mg/kg	20.0	79.9	20	70 - 130		2
Toluene	MS	2318247-01	ND	0.10467	0.12500	mg/kg		83.7	70 - 130			1
	MSD	2318247-01	ND	0.083270	0.12500	mg/kg	22.8	66.6	20	70 - 130	Q02,Q03	2
Trichloroethene	MS	2318247-01	ND	0.11122	0.12500	mg/kg		89.0	70 - 130			1
	MSD	2318247-01	ND	0.088540	0.12500	mg/kg	22.7	70.8	20	70 - 130	Q02	2
1,2-Dichloroethane-d4 (Surrogate)	MS	2318247-01	ND	0.055900	0.050000	mg/kg		112	70 - 121			1
	MSD	2318247-01	ND	0.055760	0.050000	mg/kg	0.3	112		70 - 121		2
Toluene-d8 (Surrogate)	MS	2318247-01	ND	0.050010	0.050000	mg/kg		100	81 - 117			1
	MSD	2318247-01	ND	0.049780	0.050000	mg/kg	0.5	99.6		81 - 117		2
4-Bromofluorobenzene (Surrogate)	MS	2318247-01	ND	0.050720	0.050000	mg/kg		101	74 - 121			1
	MSD	2318247-01	ND	0.050270	0.050000	mg/kg	0.9	101		74 - 121		2
QC Batch ID: B174684		Used client sample: Y - Description: SB-1-4', 09/18/2023 13:40										
Benzene	MS	2317918-04	ND	0.098120	0.12500	mg/kg		78.5	70 - 130			3
	MSD	2317918-04	ND	0.093550	0.12500	mg/kg	4.8	74.8	20	70 - 130		4
Bromodichloromethane	MS	2317918-04	ND	0.10547	0.12500	mg/kg		84.4	70 - 130			3
	MSD	2317918-04	ND	0.097390	0.12500	mg/kg	8.0	77.9	20	70 - 130		4
Chlorobenzene	MS	2317918-04	ND	0.091050	0.12500	mg/kg		72.8	70 - 130			3
	MSD	2317918-04	ND	0.084050	0.12500	mg/kg	8.0	67.2	20	70 - 130	Q03	4
Chloroethane	MS	2317918-04	ND	0.092350	0.12500	mg/kg		73.9	70 - 130			3
	MSD	2317918-04	ND	0.089640	0.12500	mg/kg	3.0	71.7	20	70 - 130		4
1,4-Dichlorobenzene	MS	2317918-04	ND	0.067630	0.12500	mg/kg		54.1	70 - 130		Q03	3
	MSD	2317918-04	ND	0.059610	0.12500	mg/kg	12.6	47.7	20	70 - 130	Q03	4

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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Volatile Organic Analysis (EPA Method 8260B/5035)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab	R#
									RPD	Percent Recovery		
QC Batch ID: B174684		Used client sample: Y - Description: SB-1-4', 09/18/2023 13:40										
1,1-Dichloroethane	MS	2317918-04	ND	0.099200	0.12500	mg/kg		79.4		70 - 130		3
	MSD	2317918-04	ND	0.094320	0.12500	mg/kg	5.0	75.5	20	70 - 130		4
1,1-Dichloroethene	MS	2317918-04	ND	0.10794	0.12500	mg/kg		86.4		70 - 130		3
	MSD	2317918-04	ND	0.10525	0.12500	mg/kg	2.5	84.2	20	70 - 130		4
Toluene	MS	2317918-04	0.0017778	0.10325	0.12500	mg/kg		81.2		70 - 130		3
	MSD	2317918-04	0.0017778	0.098510	0.12500	mg/kg	4.7	77.4	20	70 - 130		4
Trichloroethene	MS	2317918-04	ND	0.10928	0.12500	mg/kg		87.4		70 - 130		3
	MSD	2317918-04	ND	0.10593	0.12500	mg/kg	3.1	84.7	20	70 - 130		4
1,2-Dichloroethane-d4 (Surrogate)	MS	2317918-04	ND	0.048460	0.050000	mg/kg		96.9		70 - 121		3
	MSD	2317918-04	ND	0.048090	0.050000	mg/kg	0.8	96.2		70 - 121		4
Toluene-d8 (Surrogate)	MS	2317918-04	ND	0.050070	0.050000	mg/kg		100		81 - 117		3
	MSD	2317918-04	ND	0.049900	0.050000	mg/kg	0.3	99.8		81 - 117		4
4-Bromofluorobenzene (Surrogate)	MS	2317918-04	ND	0.051350	0.050000	mg/kg		103		74 - 121		3
	MSD	2317918-04	ND	0.051640	0.050000	mg/kg	0.6	103		74 - 121		4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B174618-MS1	MS	EPA-8260B	09/26/23	09/26/23 12:20	EAB	MS-V17	1
2	B174618-MSD1	MSD	EPA-8260B	09/26/23	09/26/23 12:42	EAB	MS-V17	1
3	B174684-MS1	MS	EPA-8260B	09/26/23	09/26/23 22:26	EAB	MS-V17	1
4	B174684-MSD1	MSD	EPA-8260B	09/26/23	09/26/23 22:47	EAB	MS-V17	1

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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B174351							
Acenaphthene	B174351-BLK1	ND	ug/L	2.0	0.20		1
Acenaphthylene	B174351-BLK1	ND	ug/L	2.0	0.20		1
Aldrin	B174351-BLK1	ND	ug/L	2.0	0.23		1
Aniline	B174351-BLK1	ND	ug/L	5.0	0.28		1
Anthracene	B174351-BLK1	ND	ug/L	2.0	0.20		1
Benzidine	B174351-BLK1	ND	ug/L	20	1.6		1
Benzo[a]anthracene	B174351-BLK1	ND	ug/L	2.0	0.21		1
Benzo[b]fluoranthene	B174351-BLK1	ND	ug/L	2.0	0.24		1
Benzo[k]fluoranthene	B174351-BLK1	ND	ug/L	2.0	0.30		1
Benzo[a]pyrene	B174351-BLK1	ND	ug/L	2.0	0.20		1
Benzo[g,h,i]perylene	B174351-BLK1	ND	ug/L	2.0	0.33		1
Benzoic acid	B174351-BLK1	ND	ug/L	10	0.52		1
Benzyl alcohol	B174351-BLK1	ND	ug/L	2.0	0.20		1
Benzyl butyl phthalate	B174351-BLK1	ND	ug/L	2.0	0.20		1
alpha-BHC	B174351-BLK1	ND	ug/L	2.0	0.20		1
beta-BHC	B174351-BLK1	ND	ug/L	2.0	0.20		1
delta-BHC	B174351-BLK1	ND	ug/L	2.0	0.20		1
gamma-BHC (Lindane)	B174351-BLK1	ND	ug/L	2.0	0.20		1
bis(2-Chloroethoxy)methane	B174351-BLK1	ND	ug/L	2.0	0.20		1
bis(2-Chloroethyl) ether	B174351-BLK1	ND	ug/L	2.0	0.31		1
bis(2-Chloroisopropyl) ether	B174351-BLK1	ND	ug/L	2.0	0.20		1
bis(2-Ethylhexyl)phthalate	B174351-BLK1	ND	ug/L	4.0	0.20		1
4-Bromophenyl phenyl ether	B174351-BLK1	ND	ug/L	2.0	0.20		1
4-Chloroaniline	B174351-BLK1	ND	ug/L	2.0	1.1		1
2-Chloronaphthalene	B174351-BLK1	ND	ug/L	2.0	0.20		1
4-Chlorophenyl phenyl ether	B174351-BLK1	ND	ug/L	2.0	0.20		1
Chrysene	B174351-BLK1	ND	ug/L	2.0	0.20		1
4,4'-DDD	B174351-BLK1	ND	ug/L	2.0	0.26		1
4,4'-DDE	B174351-BLK1	ND	ug/L	3.0	0.24		1
4,4'-DDT	B174351-BLK1	ND	ug/L	2.0	0.22		1
Dibenzo[a,h]anthracene	B174351-BLK1	ND	ug/L	3.0	0.34		1
Dibenzofuran	B174351-BLK1	ND	ug/L	2.0	0.20		1
1,2-Dichlorobenzene	B174351-BLK1	ND	ug/L	2.0	0.20		1
1,3-Dichlorobenzene	B174351-BLK1	ND	ug/L	2.0	0.20		1

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Reported: 10/17/2023 8:28
 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B174351							
1,4-Dichlorobenzene	B174351-BLK1	ND	ug/L	2.0	0.27		1
3,3-Dichlorobenzidine	B174351-BLK1	ND	ug/L	10	0.53		1
Dieldrin	B174351-BLK1	ND	ug/L	3.0	0.39		1
Diethyl phthalate	B174351-BLK1	ND	ug/L	2.0	0.20		1
Dimethyl phthalate	B174351-BLK1	ND	ug/L	2.0	0.20		1
Di-n-butyl phthalate	B174351-BLK1	ND	ug/L	2.0	0.20		1
2,4-Dinitrotoluene	B174351-BLK1	ND	ug/L	2.0	0.40		1
2,6-Dinitrotoluene	B174351-BLK1	ND	ug/L	2.0	0.20		1
Di-n-octyl phthalate	B174351-BLK1	ND	ug/L	2.0	0.21		1
1,2-Diphenylhydrazine	B174351-BLK1	ND	ug/L	2.0	0.20		1
Endosulfan I	B174351-BLK1	ND	ug/L	10	0.31		1
Endosulfan II	B174351-BLK1	ND	ug/L	10	0.30		1
Endosulfan sulfate	B174351-BLK1	ND	ug/L	3.0	0.23		1
Endrin	B174351-BLK1	ND	ug/L	2.0	0.38		1
Endrin aldehyde	B174351-BLK1	ND	ug/L	10	0.44		1
Fluoranthene	B174351-BLK1	ND	ug/L	2.0	0.28		1
Fluorene	B174351-BLK1	ND	ug/L	2.0	0.20		1
Heptachlor	B174351-BLK1	ND	ug/L	2.0	0.20		1
Heptachlor epoxide	B174351-BLK1	ND	ug/L	2.0	0.26		1
Hexachlorobenzene	B174351-BLK1	ND	ug/L	2.0	0.25		1
Hexachlorobutadiene	B174351-BLK1	ND	ug/L	2.0	0.20		1
Hexachlorocyclopentadiene	B174351-BLK1	ND	ug/L	2.0	0.31		1
Hexachloroethane	B174351-BLK1	ND	ug/L	2.0	0.20		1
Indeno[1,2,3-cd]pyrene	B174351-BLK1	ND	ug/L	2.0	0.29		1
Isophorone	B174351-BLK1	ND	ug/L	2.0	0.20		1
2-Methylnaphthalene	B174351-BLK1	ND	ug/L	2.0	0.20		1
Naphthalene	B174351-BLK1	ND	ug/L	2.0	0.20		1
2-Naphthylamine	B174351-BLK1	ND	ug/L	20	1.3		1
2-Nitroaniline	B174351-BLK1	ND	ug/L	2.0	0.20		1
3-Nitroaniline	B174351-BLK1	ND	ug/L	2.0	0.22		1
4-Nitroaniline	B174351-BLK1	ND	ug/L	5.0	0.38		1
Nitrobenzene	B174351-BLK1	ND	ug/L	2.0	0.20		1
N-Nitrosodimethylamine	B174351-BLK1	ND	ug/L	2.0	1.2		1
N-Nitrosodi-N-propylamine	B174351-BLK1	ND	ug/L	2.0	0.21		1

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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B174351							
N-Nitrosodiphenylamine	B174351-BLK1	ND	ug/L	2.0	0.20		1
Phenanthrene	B174351-BLK1	ND	ug/L	2.0	0.20		1
Pyrene	B174351-BLK1	ND	ug/L	2.0	0.22		1
1,2,4-Trichlorobenzene	B174351-BLK1	ND	ug/L	2.0	0.20		1
4-Chloro-3-methylphenol	B174351-BLK1	ND	ug/L	5.0	0.20		1
2-Chlorophenol	B174351-BLK1	ND	ug/L	2.0	0.20		1
2,4-Dichlorophenol	B174351-BLK1	ND	ug/L	2.0	0.23		1
2,4-Dimethylphenol	B174351-BLK1	ND	ug/L	2.0	0.20		1
4,6-Dinitro-2-methylphenol	B174351-BLK1	ND	ug/L	10	0.24		1
2,4-Dinitrophenol	B174351-BLK1	ND	ug/L	10	0.20		1
2-Methylphenol	B174351-BLK1	ND	ug/L	2.0	0.20		1
3- & 4-Methylphenol	B174351-BLK1	ND	ug/L	2.0	0.40		1
2-Nitrophenol	B174351-BLK1	ND	ug/L	2.0	0.20		1
4-Nitrophenol	B174351-BLK1	ND	ug/L	2.0	0.30		1
Pentachlorophenol	B174351-BLK1	ND	ug/L	10	0.40		1
Phenol	B174351-BLK1	ND	ug/L	2.0	0.21		1
2,4,5-Trichlorophenol	B174351-BLK1	ND	ug/L	5.0	0.20		1
2,4,6-Trichlorophenol	B174351-BLK1	ND	ug/L	5.0	0.20		1
Pyridine	B174351-BLK1	ND	ug/L	10	1.6		1
2-Fluorophenol (Surrogate)	B174351-BLK1	56.8	%	30 - 120 (LCL - UCL)			1
Phenol-d5 (Surrogate)	B174351-BLK1	65.2	%	12 - 110 (LCL - UCL)			1
Nitrobenzene-d5 (Surrogate)	B174351-BLK1	70.7	%	50 - 130 (LCL - UCL)			1
2-Fluorobiphenyl (Surrogate)	B174351-BLK1	68.4	%	55 - 125 (LCL - UCL)			1
2,4,6-Tribromophenol (Surrogate)	B174351-BLK1	59.4	%	40 - 150 (LCL - UCL)			1
p-Terphenyl-d14 (Surrogate)	B174351-BLK1	86.1	%	40 - 150 (LCL - UCL)			1
QC Batch ID: B174941							
Acenaphthene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Acenaphthylene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Aldrin	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Aniline	B174941-BLK1	ND	mg/kg	0.20	0.011		2
Anthracene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Benzidine	B174941-BLK1	ND	mg/kg	3.0	0.0093		2
Benzo[a]anthracene	B174941-BLK1	ND	mg/kg	0.10	0.0077		2

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Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B174941							
Benzo[b]fluoranthene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Benzo[k]fluoranthene	B174941-BLK1	ND	mg/kg	0.10	0.0082		2
Benzo[b+k]fluoranthene	B174941-BLK1	ND	mg/kg	0.10	0.0082		2
Benzo[a]pyrene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Benzo[g,h,i]perylene	B174941-BLK1	ND	mg/kg	0.10	0.013		2
Benzoic acid	B174941-BLK1	ND	mg/kg	0.50	0.014		2
Benzyl alcohol	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Benzyl butyl phthalate	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
alpha-BHC	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
beta-BHC	B174941-BLK1	ND	mg/kg	0.10	0.0075		2
delta-BHC	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
gamma-BHC (Lindane)	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
bis(2-Chloroethoxy)methane	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
bis(2-Chloroethyl) ether	B174941-BLK1	ND	mg/kg	0.10	0.0097		2
bis(2-Chloroisopropyl)ether	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
bis(2-Ethylhexyl)phthalate	B174941-BLK1	ND	mg/kg	0.20	0.0067		2
4-Bromophenyl phenyl ether	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
4-Chloroaniline	B174941-BLK1	ND	mg/kg	0.10	0.015		2
2-Chloronaphthalene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
4-Chlorophenyl phenyl ether	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Chrysene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
4,4'-DDD	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
4,4'-DDE	B174941-BLK1	ND	mg/kg	0.10	0.0068		2
4,4'-DDT	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Dibenzo[a,h]anthracene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Dibenzofuran	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
1,2-Dichlorobenzene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
1,3-Dichlorobenzene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
1,4-Dichlorobenzene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
3,3-Dichlorobenzidine	B174941-BLK1	ND	mg/kg	0.20	0.0067		2
Dieldrin	B174941-BLK1	ND	mg/kg	0.10	0.0077		2
Diethyl phthalate	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Dimethyl phthalate	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Di-n-butyl phthalate	B174941-BLK1	ND	mg/kg	0.10	0.0067		2

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APTIM -Concord
4005 Port Chicago Highway, Suite 200
Concord, CA 94520

Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B174941							
2,4-Dinitrotoluene	B174941-BLK1	ND	mg/kg	0.10	0.0085		2
2,6-Dinitrotoluene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Di-n-octyl phthalate	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
1,2-Diphenylhydrazine	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Endosulfan I	B174941-BLK1	ND	mg/kg	0.20	0.0088		2
Endosulfan II	B174941-BLK1	ND	mg/kg	0.20	0.0088		2
Endosulfan sulfate	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Endrin	B174941-BLK1	ND	mg/kg	0.20	0.0086		2
Endrin aldehyde	B174941-BLK1	ND	mg/kg	0.50	0.0070		2
Fluoranthene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Fluorene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Heptachlor	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Heptachlor epoxide	B174941-BLK1	ND	mg/kg	0.10	0.013		2
Hexachlorobenzene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Hexachlorobutadiene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Hexachlorocyclopentadiene	B174941-BLK1	ND	mg/kg	0.10	0.015		2
Hexachloroethane	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Indeno[1,2,3-cd]pyrene	B174941-BLK1	ND	mg/kg	0.10	0.0069		2
Isophorone	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
2-Methylnaphthalene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Naphthalene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
2-Naphthylamine	B174941-BLK1	ND	mg/kg	3.0	0.036		2
2-Nitroaniline	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
3-Nitroaniline	B174941-BLK1	ND	mg/kg	0.20	0.0067		2
4-Nitroaniline	B174941-BLK1	ND	mg/kg	0.20	0.011		2
Nitrobenzene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
N-Nitrosodimethylamine	B174941-BLK1	ND	mg/kg	0.10	0.040		2
N-Nitrosodi-N-propylamine	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
N-Nitrosodiphenylamine	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Phenanthrene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Pyrene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
1,2,4-Trichlorobenzene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
4-Chloro-3-methylphenol	B174941-BLK1	ND	mg/kg	0.20	0.0067		2
2-Chlorophenol	B174941-BLK1	ND	mg/kg	0.10	0.0067		2

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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B174941							
2,4-Dichlorophenol	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
2,4-Dimethylphenol	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
4,6-Dinitro-2-methylphenol	B174941-BLK1	ND	mg/kg	0.50	0.0067		2
2,4-Dinitrophenol	B174941-BLK1	ND	mg/kg	0.50	0.0067		2
2-Methylphenol	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
3- & 4-Methylphenol	B174941-BLK1	ND	mg/kg	0.20	0.014		2
Total Methylphenol	B174941-BLK1	ND	mg/kg	0.20	0.021		2
2-Nitrophenol	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
4-Nitrophenol	B174941-BLK1	ND	mg/kg	0.20	0.018		2
Pentachlorophenol	B174941-BLK1	ND	mg/kg	0.20	0.017		2
Phenol	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
2,4,5-Trichlorophenol	B174941-BLK1	ND	mg/kg	0.20	0.011		2
2,4,6-Trichlorophenol	B174941-BLK1	ND	mg/kg	0.20	0.0067		2
Pyridine	B174941-BLK1	ND	mg/kg	0.50	0.065		2
2-Fluorophenol (Surrogate)	B174941-BLK1	77.7	%	20 - 130 (LCL - UCL)			2
Phenol-d5 (Surrogate)	B174941-BLK1	84.5	%	30 - 130 (LCL - UCL)			2
Nitrobenzene-d5 (Surrogate)	B174941-BLK1	83.2	%	30 - 130 (LCL - UCL)			2
2-Fluorobiphenyl (Surrogate)	B174941-BLK1	84.0	%	30 - 140 (LCL - UCL)			2
2,4,6-Tribromophenol (Surrogate)	B174941-BLK1	63.8	%	20 - 150 (LCL - UCL)			2
p-Terphenyl-d14 (Surrogate)	B174941-BLK1	94.0	%	30 - 150 (LCL - UCL)			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B174351-BLK1	PB	EPA-8270C	09/25/23	09/28/23	11:49	CMM	MS-B2	1
2	B174941-BLK1	PB	EPA-8270C	09/28/23	09/29/23	13:48	CMM	MS-B9	1.010

APTIM -Concord
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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B174351											
Acenaphthene	B174351-BS1	LCS	46.950	50.000	ug/L	93.9		50 - 120			1
	B174351-BSD1	LCSD	47.770	50.000	ug/L	95.5	1.7	50 - 120	30		2
1,4-Dichlorobenzene	B174351-BS1	LCS	45.840	50.000	ug/L	91.7		50 - 120			1
	B174351-BSD1	LCSD	46.120	50.000	ug/L	92.2	0.6	50 - 120	30		2
2,4-Dinitrotoluene	B174351-BS1	LCS	47.850	50.000	ug/L	95.7		50 - 120			1
	B174351-BSD1	LCSD	51.630	50.000	ug/L	103	7.6	50 - 120	30		2
Hexachlorobenzene	B174351-BS1	LCS	43.300	50.000	ug/L	86.6		60 - 120			1
	B174351-BSD1	LCSD	42.980	50.000	ug/L	86.0	0.7	60 - 120	30		2
Hexachlorobutadiene	B174351-BS1	LCS	41.470	50.000	ug/L	82.9		40 - 110			1
	B174351-BSD1	LCSD	40.510	50.000	ug/L	81.0	2.3	40 - 110	30		2
Hexachloroethane	B174351-BS1	LCS	47.950	50.000	ug/L	95.9		40 - 120			1
	B174351-BSD1	LCSD	48.290	50.000	ug/L	96.6	0.7	40 - 120	30		2
Nitrobenzene	B174351-BS1	LCS	46.520	50.000	ug/L	93.0		50 - 120			1
	B174351-BSD1	LCSD	46.060	50.000	ug/L	92.1	1.0	50 - 120	30		2
N-Nitrosodi-N-propylamine	B174351-BS1	LCS	45.770	50.000	ug/L	91.5		50 - 120			1
	B174351-BSD1	LCSD	49.370	50.000	ug/L	98.7	7.6	50 - 120	30		2
Pyrene	B174351-BS1	LCS	48.040	50.000	ug/L	96.1		40 - 140			1
	B174351-BSD1	LCSD	46.940	50.000	ug/L	93.9	2.3	40 - 140	30		2
1,2,4-Trichlorobenzene	B174351-BS1	LCS	45.480	50.000	ug/L	91.0		45 - 120			1
	B174351-BSD1	LCSD	44.840	50.000	ug/L	89.7	1.4	45 - 120	30		2
4-Chloro-3-methylphenol	B174351-BS1	LCS	45.970	50.000	ug/L	91.9		50 - 120			1
	B174351-BSD1	LCSD	49.300	50.000	ug/L	98.6	7.0	50 - 120	30		2
2-Chlorophenol	B174351-BS1	LCS	45.080	50.000	ug/L	90.2		50 - 120			1
	B174351-BSD1	LCSD	46.610	50.000	ug/L	93.2	3.3	50 - 120	30		2
2-Methylphenol	B174351-BS1	LCS	41.960	50.000	ug/L	83.9		40 - 110			1
	B174351-BSD1	LCSD	44.630	50.000	ug/L	89.3	6.2	40 - 110	30		2
3- & 4-Methylphenol	B174351-BS1	LCS	90.390	100.00	ug/L	90.4		40 - 110			1
	B174351-BSD1	LCSD	97.100	100.00	ug/L	97.1	7.2	40 - 110	30		2
4-Nitrophenol	B174351-BS1	LCS	45.490	50.000	ug/L	91.0		10 - 110			1
	B174351-BSD1	LCSD	48.360	50.000	ug/L	96.7	6.1	10 - 110	30		2
Pentachlorophenol	B174351-BS1	LCS	34.070	50.000	ug/L	68.1		30 - 130			1
	B174351-BSD1	LCSD	33.410	50.000	ug/L	66.8	2.0	30 - 130	30		2
Phenol	B174351-BS1	LCS	41.330	50.000	ug/L	82.7		20 - 110			1
	B174351-BSD1	LCSD	43.560	50.000	ug/L	87.1	5.3	20 - 110	30		2
2,4,6-Trichlorophenol	B174351-BS1	LCS	46.080	50.000	ug/L	92.2		54 - 120			1
	B174351-BSD1	LCSD	46.870	50.000	ug/L	93.7	1.7	54 - 120	30		2

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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B174351											
Pyridine	B174351-BS1	LCS	ND	50.000	ug/L	2.8		1 - 110		L01	1
	B174351-BSD1	LCSD	ND	50.000	ug/L	2.9	2.1	1 - 110	30	L26	2
2-Fluorophenol (Surrogate)	B174351-BS1	LCS	27.950	40.000	ug/L	69.9		30 - 120			1
	B174351-BSD1	LCSD	28.280	40.000	ug/L	70.7	1.2	30 - 120			2
Phenol-d5 (Surrogate)	B174351-BS1	LCS	36.960	40.000	ug/L	92.4		12 - 110			1
	B174351-BSD1	LCSD	38.900	40.000	ug/L	97.2	5.1	12 - 110			2
Nitrobenzene-d5 (Surrogate)	B174351-BS1	LCS	30.990	40.000	ug/L	77.5		50 - 130			1
	B174351-BSD1	LCSD	33.010	40.000	ug/L	82.5	6.3	50 - 130			2
2-Fluorobiphenyl (Surrogate)	B174351-BS1	LCS	37.380	40.000	ug/L	93.4		55 - 125			1
	B174351-BSD1	LCSD	37.040	40.000	ug/L	92.6	0.9	55 - 125			2
2,4,6-Tribromophenol (Surrogate)	B174351-BS1	LCS	35.700	40.000	ug/L	89.2		40 - 150			1
	B174351-BSD1	LCSD	36.540	40.000	ug/L	91.4	2.3	40 - 150			2
p-Terphenyl-d14 (Surrogate)	B174351-BS1	LCS	21.060	20.000	ug/L	105		40 - 150			1
	B174351-BSD1	LCSD	20.720	20.000	ug/L	104	1.6	40 - 150			2
QC Batch ID: B174941											
Acenaphthene	B174941-BS1	LCS	1.5023	1.6611	mg/kg	90.4		50 - 130			3
1,4-Dichlorobenzene	B174941-BS1	LCS	1.4033	1.6611	mg/kg	84.5		50 - 130			3
2,4-Dinitrotoluene	B174941-BS1	LCS	1.5395	1.6611	mg/kg	92.7		50 - 130			3
Hexachlorobenzene	B174941-BS1	LCS	1.4791	1.6611	mg/kg	89.0		40 - 130			3
Hexachlorobutadiene	B174941-BS1	LCS	1.3698	1.6611	mg/kg	82.5		50 - 130			3
Hexachloroethane	B174941-BS1	LCS	1.4166	1.6611	mg/kg	85.3		50 - 130			3
Nitrobenzene	B174941-BS1	LCS	1.4545	1.6611	mg/kg	87.6		50 - 130			3
N-Nitrosodi-N-propylamine	B174941-BS1	LCS	1.4017	1.6611	mg/kg	84.4		40 - 120			3
Pyrene	B174941-BS1	LCS	1.6757	1.6611	mg/kg	101		40 - 150			3
1,2,4-Trichlorobenzene	B174941-BS1	LCS	1.4817	1.6611	mg/kg	89.2		50 - 120			3
4-Chloro-3-methylphenol	B174941-BS1	LCS	1.4681	1.6611	mg/kg	88.4		50 - 130			3
2-Chlorophenol	B174941-BS1	LCS	1.3960	1.6611	mg/kg	84.0		50 - 130			3
2-Methylphenol	B174941-BS1	LCS	1.3904	1.6611	mg/kg	83.7		50 - 130			3
3- & 4-Methylphenol	B174941-BS1	LCS	2.8751	3.3223	mg/kg	86.5		50 - 130			3
4-Nitrophenol	B174941-BS1	LCS	0.93987	1.6611	mg/kg	56.6		30 - 130			3
Pentachlorophenol	B174941-BS1	LCS	0.95482	1.6611	mg/kg	57.5		20 - 130			3
Phenol	B174941-BS1	LCS	1.3967	1.6611	mg/kg	84.1		40 - 120			3
2,4,6-Trichlorophenol	B174941-BS1	LCS	1.4618	1.6611	mg/kg	88.0		50 - 130			3
Pyridine	B174941-BS1	LCS	ND	1.6611	mg/kg	2.0		10 - 110		L07	3
2-Fluorophenol (Surrogate)	B174941-BS1	LCS	1.0269	1.3289	mg/kg	77.3		20 - 130			3

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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B174941											
Phenol-d5 (Surrogate)	B174941-BS1	LCS	1.1106	1.3289	mg/kg	83.6		30 - 130			3
Nitrobenzene-d5 (Surrogate)	B174941-BS1	LCS	1.1020	1.3289	mg/kg	82.9		30 - 130			3
2-Fluorobiphenyl (Surrogate)	B174941-BS1	LCS	1.1927	1.3289	mg/kg	89.8		30 - 140			3
2,4,6-Tribromophenol (Surrogate)	B174941-BS1	LCS	1.0196	1.3289	mg/kg	76.7		20 - 150			3
p-Terphenyl-d14 (Surrogate)	B174941-BS1	LCS	0.68638	0.66445	mg/kg	103		30 - 150			3

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B174351-BS1	LCS	EPA-8270C	09/25/23	09/28/23	12:16	CMM	MS-B2	1
2	B174351-BSD1	LCSD	EPA-8270C	09/25/23	09/28/23	12:45	CMM	MS-B2	1
3	B174941-BS1	LCS	EPA-8270C	09/28/23	09/29/23	14:15	CMM	MS-B9	0.997

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Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab	R#
									RPD	Percent Recovery		
QC Batch ID: B174941		Used client sample: Y - Description: SB-3-4', 09/18/2023 12:00										
Acenaphthene	MS	2317918-03	ND	1.3447	1.6949	mg/kg		79.3		30 - 140		1
	MSD	2317918-03	ND	1.3228	1.6502	mg/kg	1.6	80.2	30	30 - 140		2
1,4-Dichlorobenzene	MS	2317918-03	ND	1.2780	1.6949	mg/kg		75.4		50 - 130		1
	MSD	2317918-03	ND	1.2495	1.6502	mg/kg	2.3	75.7	30	50 - 130		2
2,4-Dinitrotoluene	MS	2317918-03	ND	1.3820	1.6949	mg/kg		81.5		50 - 130		1
	MSD	2317918-03	ND	1.2931	1.6502	mg/kg	6.7	78.4	30	50 - 130		2
Hexachlorobenzene	MS	2317918-03	ND	1.3007	1.6949	mg/kg		76.7		50 - 130		1
	MSD	2317918-03	ND	1.2795	1.6502	mg/kg	1.6	77.5	30	50 - 130		2
Hexachlorobutadiene	MS	2317918-03	ND	1.2478	1.6949	mg/kg		73.6		50 - 130		1
	MSD	2317918-03	ND	1.2066	1.6502	mg/kg	3.4	73.1	30	50 - 130		2
Hexachloroethane	MS	2317918-03	ND	1.2742	1.6949	mg/kg		75.2		50 - 130		1
	MSD	2317918-03	ND	1.1848	1.6502	mg/kg	7.3	71.8	30	50 - 130		2
Nitrobenzene	MS	2317918-03	ND	1.3410	1.6949	mg/kg		79.1		30 - 120		1
	MSD	2317918-03	ND	1.2828	1.6502	mg/kg	4.4	77.7	30	30 - 120		2
N-Nitrosodi-N-propylamine	MS	2317918-03	ND	1.2664	1.6949	mg/kg		74.7		20 - 130		1
	MSD	2317918-03	ND	1.2215	1.6502	mg/kg	3.6	74.0	30	20 - 130		2
Pyrene	MS	2317918-03	ND	1.5288	1.6949	mg/kg		90.2		40 - 140		1
	MSD	2317918-03	ND	1.3964	1.6502	mg/kg	9.1	84.6	30	40 - 140		2
1,2,4-Trichlorobenzene	MS	2317918-03	ND	1.3312	1.6949	mg/kg		78.5		50 - 130		1
	MSD	2317918-03	ND	1.3125	1.6502	mg/kg	1.4	79.5	30	50 - 130		2
4-Chloro-3-methylphenol	MS	2317918-03	ND	1.3664	1.6949	mg/kg		80.6		50 - 130		1
	MSD	2317918-03	ND	1.3257	1.6502	mg/kg	3.0	80.3	30	50 - 130		2
2-Chlorophenol	MS	2317918-03	ND	1.3000	1.6949	mg/kg		76.7		50 - 130		1
	MSD	2317918-03	ND	1.2842	1.6502	mg/kg	1.2	77.8	30	50 - 130		2
2-Methylphenol	MS	2317918-03	ND	1.2776	1.6949	mg/kg		75.4		50 - 130		1
	MSD	2317918-03	ND	1.2518	1.6502	mg/kg	2.0	75.9	30	50 - 130		2
3- & 4-Methylphenol	MS	2317918-03	ND	2.6037	3.3898	mg/kg		76.8		50 - 130		1
	MSD	2317918-03	ND	2.5248	3.3003	mg/kg	3.1	76.5	30	50 - 130		2
4-Nitrophenol	MS	2317918-03	ND	0.94983	1.6949	mg/kg		56.0		30 - 140		1
	MSD	2317918-03	ND	0.79307	1.6502	mg/kg	18.0	48.1	30	30 - 140		2
Pentachlorophenol	MS	2317918-03	ND	1.0766	1.6949	mg/kg		63.5		30 - 130		1
	MSD	2317918-03	ND	0.77228	1.6502	mg/kg	32.9	46.8	30	30 - 130	Q02	2
Phenol	MS	2317918-03	ND	1.2881	1.6949	mg/kg		76.0		40 - 150		1
	MSD	2317918-03	ND	1.2637	1.6502	mg/kg	1.9	76.6	30	40 - 150		2
2,4,6-Trichlorophenol	MS	2317918-03	ND	1.4095	1.6949	mg/kg		83.2		50 - 130		1
	MSD	2317918-03	ND	1.3997	1.6502	mg/kg	0.7	84.8	30	50 - 130		2

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Reported: 10/17/2023 8:28
Project: Phase 2 Site Assessment, Zero Waste Sonoma
Project Number: 631034162.00131101
Project Manager: Scott Bittinger

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab	R#
									RPD	Percent Recovery		
QC Batch ID: B174941		Used client sample: Y - Description: SB-3-4', 09/18/2023 12:00										
Pyridine	MS	2317918-03	ND	0.30203	1.6949	mg/kg		17.8		10 - 110	J	1
	MSD	2317918-03	ND	0.29274	1.6502	mg/kg	3.1	17.7	30	10 - 110	J	2
2-Fluorophenol (Surrogate)	MS	2317918-03	ND	0.93492	1.3559	mg/kg		69.0		20 - 130		1
	MSD	2317918-03	ND	1.0188	1.3201	mg/kg	8.6	77.2		20 - 130		2
Phenol-d5 (Surrogate)	MS	2317918-03	ND	1.0820	1.3559	mg/kg		79.8		30 - 130		1
	MSD	2317918-03	ND	1.0752	1.3201	mg/kg	0.6	81.4		30 - 130		2
Nitrobenzene-d5 (Surrogate)	MS	2317918-03	ND	1.0573	1.3559	mg/kg		78.0		30 - 130		1
	MSD	2317918-03	ND	1.0297	1.3201	mg/kg	2.6	78.0		30 - 130		2
2-Fluorobiphenyl (Surrogate)	MS	2317918-03	ND	1.1183	1.3559	mg/kg		82.5		30 - 140		1
	MSD	2317918-03	ND	1.1003	1.3201	mg/kg	1.6	83.3		30 - 140		2
2,4,6-Tribromophenol (Surrogate)	MS	2317918-03	ND	1.0203	1.3559	mg/kg		75.2		20 - 150		1
	MSD	2317918-03	ND	0.99274	1.3201	mg/kg	2.7	75.2		20 - 150		2
p-Terphenyl-d14 (Surrogate)	MS	2317918-03	ND	0.63966	0.67797	mg/kg		94.3		30 - 150		1
	MSD	2317918-03	ND	0.62079	0.66007	mg/kg	3.0	94.0		30 - 150		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B174941-MS1	MS	EPA-8270C	09/28/23	09/29/23 14:42	CMM	MS-B9	1.017
2	B174941-MSD1	MSD	EPA-8270C	09/28/23	09/29/23 19:12	CMM	MS-B9	0.990



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Chemical Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B174498							
Moisture	B174498-BLK1	ND	%	0.05	0.05		1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B174498-BLK1	PB	Calc	09/22/23	09/28/23 15:30	AMM	Calc	1

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Chemical Analysis

Quality Control Report - Precision & Accuracy

Constituent	Source Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals	R#
									RPD	Percent Recovery		
QC Batch ID: B174741		Used client sample: Y - Description: SB-3-4', 09/18/2023 12:00										
Solids	DUP	2317918-03	87.138	87.153		%	0.0		20			1
QC Batch ID: B175676		Used client sample: Y - Description: SB-1-4', 09/18/2023 13:40										
Solids	DUP	2317918-04	82.210	83.721		%	1.8		20			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B174741-DUP1	DUP	SM-2540G	09/27/23	09/28/23 09:00	ELR	MANUAL	1
2	B175676-DUP1	DUP	SM-2540G	10/09/23	10/10/23 09:00	ELR	SC-2	1

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Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B174581							
Arsenic	B174581-BLK2	ND	mg/kg	1.0	0.40		1
Barium	B174581-BLK2	ND	mg/kg	0.50	0.18		1
Cadmium	B174581-BLK2	ND	mg/kg	0.50	0.052		1
Chromium	B174581-BLK2	0.079876	mg/kg	0.50	0.050	J	1
Lead	B174581-BLK2	ND	mg/kg	2.5	0.41		1
Selenium	B174581-BLK2	ND	mg/kg	1.0	0.98		1
Silver	B174581-BLK2	ND	mg/kg	0.50	0.067		1

QC Batch ID: B174633							
Total Hexavalent Chromium	B174633-BLK1	ND	mg/kg	1.0	0.30		2

QC Batch ID: B174712							
Mercury	B174712-BLK1	ND	mg/kg	0.16	0.016		3

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B174581-BLK2	PB	EPA-6010B	09/25/23	10/04/23 15:03	JRG	PE-OP4	1
2	B174633-BLK1	PB	EPA-7199	09/26/23	09/28/23 22:12	EEC	IC11	1
3	B174712-BLK1	PB	EPA-7471A	09/27/23	09/27/23 13:20	MG2	CETAC3	1



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Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B174581											
Arsenic	B174581-BS2	LCS	19.496	20.000	mg/kg	97.5		75 - 125			1
Barium	B174581-BS2	LCS	102.86	100.00	mg/kg	103		75 - 125			1
Cadmium	B174581-BS2	LCS	9.1509	10.000	mg/kg	91.5		75 - 125			1
Chromium	B174581-BS2	LCS	98.713	100.00	mg/kg	98.7		75 - 125			1
Lead	B174581-BS2	LCS	97.966	100.00	mg/kg	98.0		75 - 125			1
Selenium	B174581-BS2	LCS	17.100	20.000	mg/kg	85.5		75 - 125			1
Silver	B174581-BS2	LCS	9.4556	10.000	mg/kg	94.6		75 - 125			1

QC Batch ID: B174633											
Total Hexavalent Chromium	B174633-BS1	LCS	44.713	40.000	mg/kg	112		80 - 120			2

QC Batch ID: B174712											
Mercury	B174712-BS1	LCS	0.72160	0.80000	mg/kg	90.2		80 - 120			3
	B174712-BSD1	LCSD	0.81760	0.80000	mg/kg	102	12.5	80 - 120	20		4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B174581-BS2	LCS	EPA-6010B	09/25/23	10/04/23	15:04	JRG	PE-OP4	1
2	B174633-BS1	LCS	EPA-7199	09/26/23	09/28/23	22:22	EEC	IC11	1
3	B174712-BS1	LCS	EPA-7471A	09/27/23	09/27/23	13:26	MG2	CETAC3	1
4	B174712-BSD1	LCSD	EPA-7471A	09/27/23	09/27/23	14:56	MG2	CETAC3	1

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Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab	R#
									RPD	Percent Recovery		
QC Batch ID: B174581		Used client sample: Y - Description: SB-3-4', 09/18/2023 12:00										
Arsenic	DUP	2317918-03	5.4260	4.4362		mg/kg	20.1		20		J,A02	1
	MS	2317918-03	5.4260	22.354	20.000	mg/kg		84.6		75 - 125		2
	MSD	2317918-03	5.4260	23.723	20.000	mg/kg	5.9	91.5	20	75 - 125		3
Barium	DUP	2317918-03	155.90	155.82		mg/kg	0.0		20			1
	MS	2317918-03	155.90	266.66	100.00	mg/kg		111		75 - 125		2
	MSD	2317918-03	155.90	275.16	100.00	mg/kg	3.1	119	20	75 - 125		3
Cadmium	DUP	2317918-03	ND	ND		mg/kg			20			1
	MS	2317918-03	ND	9.4764	10.000	mg/kg		94.8		75 - 125		2
	MSD	2317918-03	ND	9.7057	10.000	mg/kg	2.4	97.1	20	75 - 125		3
Chromium	DUP	2317918-03	39.171	38.657		mg/kg	1.3		20			1
	MS	2317918-03	39.171	140.80	100.00	mg/kg		102		75 - 125		2
	MSD	2317918-03	39.171	143.51	100.00	mg/kg	1.9	104	20	75 - 125		3
Lead	DUP	2317918-03	10.777	10.265		mg/kg	4.9		20		J	1
	MS	2317918-03	10.777	111.05	100.00	mg/kg		100		75 - 125		2
	MSD	2317918-03	10.777	113.53	100.00	mg/kg	2.2	103	20	75 - 125		3
Selenium	DUP	2317918-03	ND	ND		mg/kg			20			1
	MS	2317918-03	ND	14.650	20.000	mg/kg		73.2		75 - 125	Q03	2
	MSD	2317918-03	ND	14.688	20.000	mg/kg	0.3	73.4	20	75 - 125	Q03	3
Silver	DUP	2317918-03	ND	ND		mg/kg			20			1
	MS	2317918-03	ND	9.6657	10.000	mg/kg		96.7		75 - 125		2
	MSD	2317918-03	ND	10.435	10.000	mg/kg	7.7	104	20	75 - 125		3
QC Batch ID: B174633		Used client sample: Y - Description: SB-5-4', 09/18/2023 10:20										
Total Hexavalent Chromium	DUP	2317918-01	0.63645	0.64445		mg/kg	1.2		20		J	4
	MS	2317918-01	0.63645	21.868	39.401	mg/kg		53.9		75 - 125	Q03	5
	MSD	2317918-01	0.63645	22.017	39.494	mg/kg	0.7	54.1	20	75 - 125	Q03	6
QC Batch ID: B174712		Used client sample: N										
Mercury	DUP	2317981-01	0.031746	0.018571		mg/kg	52.4		20		J,Q01	7
	MS	2317981-01	0.031746	0.84921	0.79365	mg/kg		103		80 - 120		8
	MSD	2317981-01	0.031746	0.78095	0.79365	mg/kg	8.4	94.4	20	80 - 120		9

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Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B174581-DUP2	DUP	EPA-6010B	09/25/23	10/04/23 15:07	JRG	PE-OP4	5
2	B174581-MS2	MS	EPA-6010B	09/25/23	10/04/23 15:10	JRG	PE-OP4	5
3	B174581-MSD2	MSD	EPA-6010B	09/25/23	10/04/23 15:11	JRG	PE-OP4	5
4	B174633-DUP1	DUP	EPA-7199	09/26/23	09/28/23 22:42	EEC	IC11	0.977
5	B174633-MS1	MS	EPA-7199	09/26/23	09/28/23 22:51	EEC	IC11	0.985
6	B174633-MSD1	MSD	EPA-7199	09/26/23	09/28/23 23:01	EEC	IC11	0.987
7	B174712-DUP1	DUP	EPA-7471A	09/27/23	09/27/23 13:30	MG2	CETAC3	0.992
8	B174712-MS1	MS	EPA-7471A	09/27/23	09/27/23 13:38	MG2	CETAC3	0.992
9	B174712-MSD1	MSD	EPA-7471A	09/27/23	09/27/23 13:40	MG2	CETAC3	0.992

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Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
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QC Batch ID: B174262

Hexavalent Chromium	B174262-BLK1	ND	ug/L	0.20	0.13		1
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QC Batch ID: B174539

Total Arsenic	B174539-BLK1	ND	ug/L	50	7.8		2
Total Barium	B174539-BLK1	ND	ug/L	10	3.5		2
Total Cadmium	B174539-BLK1	ND	ug/L	10	1.1		2
Total Chromium	B174539-BLK1	1.2235	ug/L	10	1.1	J	2
Total Lead	B174539-BLK1	ND	ug/L	50	4.0		2
Total Selenium	B174539-BLK1	ND	ug/L	100	15		2
Total Silver	B174539-BLK1	ND	ug/L	10	1.9		2

QC Batch ID: B174799

Total Mercury	B174799-BLK1	ND	ug/L	0.20	0.022		3
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Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B174262-BLK1	PB	EPA-7199	09/19/23	09/19/23 20:12	ANN	IC11	1
2	B174539-BLK1	PB	EPA-6010B	09/22/23	10/05/23 18:39	ARD	PE-OP4	1
3	B174799-BLK1	PB	EPA-7470A	09/28/23	09/28/23 13:03	MG2	CETAC4	1

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Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B174262											
Hexavalent Chromium	B174262-BS1	LCS	20.042	20.000	ug/L	100		90 - 110			1
QC Batch ID: B174539											
Total Arsenic	B174539-BS1	LCS	190.54	200.00	ug/L	95.3		80 - 120			2
	B174539-BSD1	LCSD	188.82	200.00	ug/L	94.4	0.9	80 - 120	20		3
Total Barium	B174539-BS1	LCS	400.64	400.00	ug/L	100		80 - 120			2
	B174539-BSD1	LCSD	392.06	400.00	ug/L	98.0	2.2	80 - 120	20		3
Total Cadmium	B174539-BS1	LCS	180.93	200.00	ug/L	90.5		80 - 120			2
	B174539-BSD1	LCSD	172.92	200.00	ug/L	86.5	4.5	80 - 120	20		3
Total Chromium	B174539-BS1	LCS	200.58	200.00	ug/L	100		80 - 120			2
	B174539-BSD1	LCSD	194.04	200.00	ug/L	97.0	3.3	80 - 120	20		3
Total Lead	B174539-BS1	LCS	429.41	400.00	ug/L	107		80 - 120			2
	B174539-BSD1	LCSD	408.14	400.00	ug/L	102	5.1	80 - 120	20		3
Total Selenium	B174539-BS1	LCS	179.21	200.00	ug/L	89.6		80 - 120			2
	B174539-BSD1	LCSD	176.71	200.00	ug/L	88.4	1.4	80 - 120	20		3
Total Silver	B174539-BS1	LCS	91.714	100.00	ug/L	91.7		80 - 120			2
	B174539-BSD1	LCSD	88.826	100.00	ug/L	88.8	3.2	80 - 120	20		3

QC Batch ID: B174799											
Total Mercury	B174799-BS1	LCS	1.1175	1.0000	ug/L	112		85 - 115			4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B174262-BS1	LCS	EPA-7199	09/19/23	09/19/23	20:22	ANN	IC11	1
2	B174539-BS1	LCS	EPA-6010B	09/22/23	10/05/23	18:21	ARD	PE-OP4	1
3	B174539-BSD1	LCSD	EPA-6010B	09/22/23	10/05/23	18:23	ARD	PE-OP4	1
4	B174799-BS1	LCS	EPA-7470A	09/28/23	09/28/23	13:06	MG2	CETAC4	1



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 Concord, CA 94520

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 Project: Phase 2 Site Assessment, Zero Waste Sonoma
 Project Number: 631034162.00131101
 Project Manager: Scott Bittinger

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab	R#
									RPD	Percent Recovery		
QC Batch ID: B174262		Used client sample: N										
Hexavalent Chromium	DUP	2317872-08	1065.1	1176.6		ug/L	10.0		10		A10	1
	MS	2317872-08	1065.1	2184.7	1010.1	ug/L		111		90 - 110	A10	2
	MSD	2317872-08	1065.1	2172.2	1010.1	ug/L	0.6	110	10	90 - 110	A10	3
QC Batch ID: B174539		Used client sample: N										
Total Arsenic	DUP	2318109-01	ND	ND		ug/L				20		4
	MS	2318109-01	ND	183.54	200.00	ug/L		91.8		75 - 125		5
	MSD	2318109-01	ND	188.71	200.00	ug/L	2.8	94.4	20	75 - 125		6
Total Barium	DUP	2318109-01	98.870	103.69		ug/L	4.8			20		4
	MS	2318109-01	98.870	483.67	400.00	ug/L		96.2		75 - 125		5
	MSD	2318109-01	98.870	485.26	400.00	ug/L	0.3	96.6	20	75 - 125		6
Total Cadmium	DUP	2318109-01	ND	ND		ug/L				20		4
	MS	2318109-01	ND	173.93	200.00	ug/L		87.0		75 - 125		5
	MSD	2318109-01	ND	172.47	200.00	ug/L	0.8	86.2	20	75 - 125		6
Total Chromium	DUP	2318109-01	ND	1.1013		ug/L				20	J	4
	MS	2318109-01	ND	196.60	200.00	ug/L		98.3		75 - 125		5
	MSD	2318109-01	ND	194.60	200.00	ug/L	1.0	97.3	20	75 - 125		6
Total Lead	DUP	2318109-01	ND	4.6995		ug/L				20	J	4
	MS	2318109-01	ND	407.21	400.00	ug/L		102		75 - 125		5
	MSD	2318109-01	ND	409.12	400.00	ug/L	0.5	102	20	75 - 125		6
Total Selenium	DUP	2318109-01	ND	ND		ug/L				20		4
	MS	2318109-01	ND	177.31	200.00	ug/L		88.7		75 - 125		5
	MSD	2318109-01	ND	178.66	200.00	ug/L	0.8	89.3	20	75 - 125		6
Total Silver	DUP	2318109-01	ND	ND		ug/L				20		4
	MS	2318109-01	ND	88.792	100.00	ug/L		88.8		75 - 125		5
	MSD	2318109-01	ND	90.807	100.00	ug/L	2.2	90.8	20	75 - 125		6
QC Batch ID: B174799		Used client sample: N										
Total Mercury	DUP	2318121-01	0.040500	0.047500		ug/L	15.9			20	J	7
	MS	2318121-01	0.040500	1.1050	1.0000	ug/L		106		70 - 130		8
	MSD	2318121-01	0.040500	1.1275	1.0000	ug/L	2.0	109	20	70 - 130		9

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
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Metals Analysis

Quality Control Report - Precision & Accuracy

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B174262-DUP1	DUP	EPA-7199	09/19/23	09/20/23 08:47	SM2	IC11	50
2	B174262-MS1	MS	EPA-7199	09/19/23	09/20/23 08:57	SM2	IC11	50.505
3	B174262-MSD1	MSD	EPA-7199	09/19/23	09/20/23 09:06	SM2	IC11	50.505
4	B174539-DUP1	DUP	EPA-6010B	09/22/23	10/05/23 18:26	ARD	PE-OP4	1
5	B174539-MS1	MS	EPA-6010B	09/22/23	10/05/23 18:29	ARD	PE-OP4	1
6	B174539-MSD1	MSD	EPA-6010B	09/22/23	10/05/23 18:31	ARD	PE-OP4	1
7	B174799-DUP1	DUP	EPA-7470A	09/28/23	09/28/23 13:10	MG2	CETAC4	1
8	B174799-MS1	MS	EPA-7470A	09/28/23	09/28/23 13:12	MG2	CETAC4	1
9	B174799-MSD1	MSD	EPA-7470A	09/28/23	09/28/23 13:14	MG2	CETAC4	1

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Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A02	The difference between duplicate readings is less than the quantitation limit.
A10	Detection and quantitation limits were raised due to matrix interference.
L01	The Laboratory Control Sample Water (LCSW) recovery is not within laboratory established control limits.
L07	The Laboratory Control Sample (LCS) recovery is not within laboratory established control limits.
L26	The relative percent difference between the Laboratory Control Sample Soil (LCSS) and the LCSS Duplicate exceeds the control limit.
Q01	Sample precision is not within the control limits.
Q02	Matrix spike precision is not within the control limits.
Q03	Matrix spike recovery(s) was(were) not within the control limits.
S05	The sample holding time was exceeded.
S09	The surrogate recovery for this compound was not within the control limits.

PRELIMINARY FINDINGS OF THE VISUAL ASSESSMENT

FOR THE

Pruitt Avenue Bridge Over Pruitt Creek

Prepared for Zero Waste Sonoma



Prepared by



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PH: (510) 625-9900

November 2023

BCA JOB # 2023302

This Structural Assessment report was prepared by Biggs Cardoso Associates, Inc. (BCA) in general accordance with the scope of work as per our agreement with Zero Waste Sonoma. The recommendations in this report are based on site investigations, and standard engineering practice. No as-built plans, maintenance reports or inspections reports were provided to BCA for preparation of this report. Due to the inherent limitations in site investigations, it is neither uncommon to encounter unforeseen variations in conditions along the project alignment nor is it practical to determine all such variations during a program of field investigation for a project of this scope. Such variations, when encountered, generally require additional engineering services to attain a reasonable explanation and resolution.

INTRODUCTION

1.1 Background and Organization of Report

Zero Waste Sonoma is considering taking ownership of a parcel of land that is to the Northeast of Pruitt Avenue and Standard Avenue. There is a bridge within this parcel of land. This report documents the structural assessment of the existing bridge that has been completed as part of this acquisition process. The scope of this report is limited to structural inspection and assessment of the structure.

The Structural Assessment Report includes the following sections:

- Summary of Existing Structure
- Summary of Structural Assessment approach and methodology
- Summary of Structural Assessment findings including:
 - Existing structure condition
 - Proposed structure mitigation measures
 - Recommended inspection frequency

1.1 Existing Structure Description

General:

The bridge is located just north of Standard Avenue and Pruitt Avenue. The parcel of land is just to the West of Highway 101 and South of Shiloh Road in the Town of Windsor. The bridge runs North/South and provides access over Pruitt Creek. There is another bridge approximately 500 feet to the West of this bridge at Caletti Avenue. The bridge is approximately 25'-10" long and 20'-11" wide. No as-built drawings or inspection reports were provided at the time of inspection.

Historical maps show that the bridge was constructed between 1950 and 1980 as part of Standard Avenue. Pruitt Avenue was built around 1987 and it appears that at that time, the portion of Standard Avenue between Pruitt Avenue and Shiloh Road, including this bridge, became part of a private parcel. We understand there is a roadway easement through this parcel that includes the bridge.

A vicinity map and parcel map indicating the location of the structure and its proximity to surrounding streets and highways has been included as part of this report in Appendix A.

Bridge Description:

a) Substructure:

The single span bridge is supported by two concrete abutments. Each abutment consists of a stemwall, two wingwalls, and a backwall. From our site visit, it appears the abutments are supported on spread footings. No piles were observed under the footing in areas of undermining. The stemwalls are 28'-10" wide and approximately 8'-8" tall based on the North abutment. The wingwalls are 8'-2" long and approximately 11.5" thick. The backwalls are the same width as the stemwall and 8" thick. The extents of the spread footing are unknown but is approximately 16"-18" thick and the same width as the stemwall. The seat of the abutment is approximately 10" wide.

b) Superstructure:

The main superstructure consists of (9) wide flange stringers that spans the total length of the bridge with timber decking laid transversely over the stringers. Asphalt was laid on top of this decking as a wearing surface. The top and bottom flanges of the stringers are 7.5" wide and 7/16" thick. The overall beam depth is 18". The stringers are spaced at approximately 27" on-center. There is a wide flange beam perpendicular to the main stringers near the midspan of the bridge bolted to the bottom flange of the stringers. In addition to the main stringers, an additional beam has been added to the outer East side of the bridge to become the new edge stringer for support of a railing replacement. This added beam consists of a wide flange beam with a steel channel welded to the top flange.. The stringers are supported directly on top of the abutment concrete seats.

c) Deck:

The bridge deck consists of timber decking with 4" thick asphalt overlay. The timber deck consists of transverse 2x6 untreated timbers laid directly on the steel stringers. The timbers are oriented to be 5 ½" tall. There are no spaces between the timbers and connections between timbers, if any, were not visible. There are steel bolts connecting the timbers to the top flange of the steel stringers.

Miscellaneous Bridge Elements:**a) Railings:**

Railings consist steel pipe posts and horizontal rails and steel mesh infill between the rails. The posts at the abutments are installed in post pockets in the wingwalls. The railings appear to have been installed with the last 10 years without formal design. Components are typically tack welded together.

b) Channel Bank Protection

There is rock riprap upstream of the bridge in the channel bed and banks near the outfall of a 42" corrugated metal pipe (CMP) on the south bank of the creek.

At the upstream end of the north abutment, there is an area of asphalt on the north bank of the creek. There is also sacked concrete in this area that may have been installed prior to the asphalt for bank protection.

c) Utilities

There is a steel conduit on the west side of the North abutment that is carrying a insulated cable. This cable exits the conduit and travels diagonally under the bridge to the east side of the South abutment where it transitions to underground. The cable lays on the creek bed under the bridge.

The owner and purpose of this cable was not evident. With the cable laying within the channel bed and across the full width of the channel, there is substantial risk for debris catching on the cable and obstructing the creek flow or breaking the cable. The cable should be relocated or removed based on coordination with the cable owner.

STRUCTURAL ASSESSMENT METHODOLOGY

2.1 General

This section provides an overview of the approach to conducting the structural assessment. The assessment was performed in three phases:

- Phase 1: Data Collection
- Phase 2: Field Review
- Phase 3: Data Evaluation

2.2 Data Collection

As-built drawings for the bridge were not available at the time of this report. Field measurements were taken in lieu of this. Photos were taken in the field and sketches were created to document the dimensions of the existing structural members. Excerpts of field photos are included in Appendix B and a copy of the field sketches are in Appendix C.

2.3 Field Review Approach

A preliminary field review was conducted by a two-person inspection team comprised of structural engineers to evaluate the condition of the bridge. The inspection was performed on October 10th, 2023. The two-person inspection team conducted detailed structure inspections including visual inspections, photo log preparation, observation of visible evidence of structure condition/ deterioration and preparation of draft field review reports.

In general, the detailed inspection consisted of making observations, taking measurements needed to determine the physical and functional condition of the bridge, and verification of any posted load capacity. These inspections are generally conducted from the deck, ground and/or water level

2.4 Structural Assessment Approach

Based on the findings of the fieldwork and data collection, structural assessment was made and the Field Review Report was finalized (See Appendix D). Biggs Cardosa Associates, Inc reviewed the draft field review and photo log and estimated existing structural condition and prepared structural assessment recommendations. In general, the condition rating can be grouped into three broad categories:

- Rating (G): Good Condition
- Rating (F): Fair Condition
- Rating (P): Poor Condition

2.5 Structural Assessment

In general, the structure is in FAIR Condition and the following is a summary of the rating given to the main components of the structure (See Appendix E):

- APPROACH ROADWAY ALIGNMENT: Rating = GOOD Condition
- DECK: Rating = POOR Condition
- SUPERSTRUCTURE: Rating = GOOD Condition
- SUBSTRUCTURE: Rating = FAIR Condition

- RAILINGS: Rating = POOR Condition
- OVERALL CHANNEL AND CHANNEL PROTECTION: Rating = POOR Condition
- WATER ADEQUACY: Rating = POOR Condition

Since there were no available as-built documents, we do not know the original design loading criteria of this bridge. Overall, the structure is in FAIR Condition and performed well when a large front loader drove over it with no signs of excessive deflection or vibration.

Below is a list of deficiencies noted during the inspection of the bridge:

- Significant scour and undermining at the North abutment. This undermining appears to have resulted primarily from lateral migration of the creek towards the north abutment. Based on this preliminary assessment, it appears the bridge would be classified as Scour Critical, meaning that future high-flow storm events could result in further undermining, reducing the stability of the abutment and potentially could result in failure.
- The existing cable laying within the channel bed and across the full width of the channel creates a substantial risk for debris catching on the cable and obstructing the creek flow or breaking the cable. The cable should be relocated or removed based on coordination with the cable owner.
- Localized concrete failure and rebar corrosion in North abutment foundation. This appears to be a localized condition in two areas of the footing approximately 2' long and may result from inadequate concrete thickness over the steel reinforcing resulting in localized corrosion of individual reinforcement bars.
- Significant paint failure on steel stringers. No significant corrosion of the stringers was observed.
- Significant timber decking deterioration. This was observed at the edges and ends of the bridge and in other isolated areas. This likely results from long term water exposure at the unprotected ends of the decking at the edges of the bridge deck and at areas where the asphalt overlay has failed, allowing surface water to pass through to the timber. The asphalt overlay prevented a complete survey of the deck condition. Further observations are recommended with removal of areas of overlay to allow for a more complete assessment of the timber deck condition. The existing overlay may conceal significant timber deck deterioration.
- Railing at the bridge and wingwalls do not provide adequate fall protection for pedestrians or vehicles. The design and construction of the railings do not appear to meet code requirements for pedestrian or vehicular barriers and do not provide adequate fall protection.
- Expansion joints have been paved over and are not sealed. This has resulted in water ingress and significant localized deterioration of decking.
- Damaged chain link fencing at the north east wingwall

2.6 Recommended Mitigations/ Repair:

This structure is in FAIR condition overall. Most of the deficiencies listed above could be rectified by maintenance and repairs. However, scour and undermining of the abutment would require significant work to the channel. Since this work would be within the jurisdiction of a number of regulatory agencies: California Department of Fish and Wildlife (CDFW), the Regional Water Quality Control Board (RWQCB), Army Corps of Engineers (ACOE) and FEMA, there may be significant restrictions on this work and significant additional mitigation work as permit requirements. Due to the cost and permit restrictions on this work, bridge replacement should be considered as an alternative.

We understand that the bridge is not required for the future planned use of the parcel. It is not clear if the existing roadway easement requires the bridge to remain open for pedestrian or vehicular use. If not, closing the bridge or removing the bridge could be considered

a) Alternative 1 – Bridge Maintenance

Bridge maintenance and repairs could be completed to restore the bridge to close to its original condition. Some additional repairs could be completed to make improvements to the original design. This could include:

- Bridge scour and undermining. Regulatory agencies typically limit the extent of any new concrete or other unnatural materials placed within the creek bed and banks, and typically require mitigation for this loss of natural creek bed and banks. Mitigation may include requirements to improve a similar area of creek bank close to the site. Remedial work to reduce the potential for scour could include installation of additional rock riprap, vegetated rock riprap, articulated concrete mats or similar erosion-resistant materials in the creek. Hydrology and hydraulic analysis are required to determine design requirements for this scour mitigation, including the extent of the required scour mitigation and the rock sizing. In some cases, long term scour mitigation is not feasible due to those requirements, and bridge replacement may be required with new foundations either located outside of scour areas or supported on deep foundations that extend below the depth of potential scour. It may be feasible to install rock riprap or other materials to reduce the potential for scour in smaller and more frequent high-flow storm events.
- Abutment footing concrete repairs. This repair would consist of localized removal of deteriorated concrete and patching with proprietary repair products. This is a standard concrete repair method that would be performed within jurisdictional areas.
- Re-painting. Due to the extent of paint failure, full repainting is recommended. This would consist of testing of the existing paint to identify any hazards, including lead, installation of a temporary containment system to prevent debris from falling into the creek, removal of the existing paint and surface protection and applying prime coats and finish coats. This work would be over the jurisdictional areas. Ideally this work would be completed in conjunction with deck replacement so the top surface of the beams can be re-painted and access to the beams is improved.
- Decking replacement. This would consist of removing the existing timber and asphalt and replacing “in kind” with similar new materials. Pressure-treated timber could be considered to extend the effective life of the timber, although may be prohibited by permit requirements. Additional waterproof flashings could be installed along the ends and edges of the bridge to extend the effective life of the new timber. This work would be over jurisdictional areas and would require a containment system to be installed under the bridge to prevent debris from entering the creek.

- Railing replacement. New code-compliant railings should be installed along the edges of the bridge and the wingwalls. Due to the nature of the bridge superstructure, full compliance with requirements for vehicular barriers may not be possible.
- Replace expansion joints. As the asphalt overlay on the bridge deck is replaced, standard bridge joints should be installed. This consists of a joint filler board in the lower portion of the joint covered by a sealant. The sealant is intended to accommodate minor movements due to thermal or load changes of the bridge while preventing surface water from seeping through the deck to the timber.
- Replace chain link fence.

Permits from regulatory agencies would be required for all work within the jurisdictional areas. There may be existing maintenance agreements and permits for the bridge and adjacent areas of the creek that may cover some or all of the work described above.

The cost of these repairs, including design and permitting is anticipated to be in the range of \$750,000 to \$1,000,000. We recommend the bridge be closed to pedestrians until the railings have been replaced and closed to vehicular traffic until the bridge deck has been replaced.

b) Alternative 2 – Bridge Closure and Remove

If the existing roadway easement does not require the bridge to be maintained in place, or the easement is modified accordingly, the bridge could be closed and removed. The removal could be completed in several phases:

- Phase 1 - Install a physical barrier to prevent access. This could install a movable concrete barrier, for example a piece of standard “K-Rail” traffic barrier to prevent vehicular access and chain link fence to prevent pedestrian access. We recommend signage also be added.
- Phase 2 - Remove the bridge superstructure. This would include removing portions of the steel railing, the timber decking and asphalt overlay and the steel stringers.

This work would be over jurisdictional areas and would require a containment system to be installed under the bridge to prevent debris from entering the creek. This work may be covered by existing maintenance agreements and permits. If the work is not covered by existing permits, consultation with regulatory agencies may be required. CDFW, RWQCB and ACOE may consider there are no permanent impacts to the creek and may either confirm this work does not require a permit or would issue a permit with limited requirements to address the temporary impacts, mainly related to the potential workers, equipment and materials temporarily within the creek. Sonoma County Public Infrastructure routinely coordinate with and obtain permits from these agencies and may be able to provide further guidance.

This reach of Pruitt Creek is a FEMA Regulatory Floodway. The flood hazard areas shown on FEMA maps show a significant change in shape at the bridge, suggesting the bridge or grading directly adjacent to the bridge may influence the extent of flooding. The stringers and deck may be submerged during storm flow conditions related to these FEMA flood hazard areas, and as a result removal of these components could result in changes to the storm flow water surface elevation and extent of flooding upstream and downstream of the

bridge. As a result, this work may require modifications to the FEMA mapping. This would require hydraulic analysis to verify the extent of change, if any, and consultation with FEMA. The Sonoma County or Town of Windsor Floodplain Administrator could provide further guidance on this and potentially a policy decision on the extent of any analysis and FEMA coordination.

The existing cable could be relocated to either overhead or under the creek, using a trenchless installation method. The cost of this relocation may be the responsibility of the utility owner or bridge owner, depending on the existing agreements and easements.

- Phase 3 - Remove the bridge abutments. This would include removing the concrete abutments including buried portions typically to a depth of 3' below grade. The creek banks would also need to be locally regraded and fences or railings may be required or desired to limit access and reduce fall hazards. The extent of regrading and potential impacts to the downstream retaining wall and other existing features are undetermined and would require hydraulic analysis and creek restoration design.

This work would result in temporary and permanent impacts to the creek that would be included in the CDFW, RWQCB and ACOE permits. Mitigation requirements may include restoring planting to the area, including temporary irrigation, monitoring over a period of 5 to 10 years and replanting if required.

Since this work would remove concrete and stream obstructions from the creek, these agencies would consider it an overall improvement to creek. As a result, it may be possible to complete this work as part of other County projects on this creek and for this work to be used as mitigation for permanent impacts of the other project.

FEMA consultation and modifications to FEMA mapping may also be required.

The cost of full bridge removal including creek restoration is difficult to assess until the extent of work within the creek is known, but could be in the range of \$250,000 to \$1,000,000, with most of this cost incurred in removing the abutments.

c) Alternative 3 – Bridge Replacement

A replacement bridge would be designed to meet current code and permit requirements and would have a design life of around 75 years with routine maintenance. Since the bridge is on private property and potentially not open to public traffic, some design requirements including vehicle loads could potentially be reduced.

Bridge abutments are now typically located outside of the creek banks, resulting in a longer bridge of around 60'. The bridge deck may also have to be raised a few feet to clear the design storm-flow water elevation. This may require regrading of the roadway approaches and potentially short retaining walls along the sides of the approaches.

Since the bridge would not be open to public traffic, reduced vehicular loading could be considered.

Since the abutments would be outside of the creek, temporary and permanent impacts requiring permits and FEMA consultation and modifications to mapping would be similar to those for Alternative 2.

The cost of the replacement bridge, including design and permitting, could be approximately \$2,500,000.

3 RECOMMENDED INSPECTION FREQUENCY

3.1 General

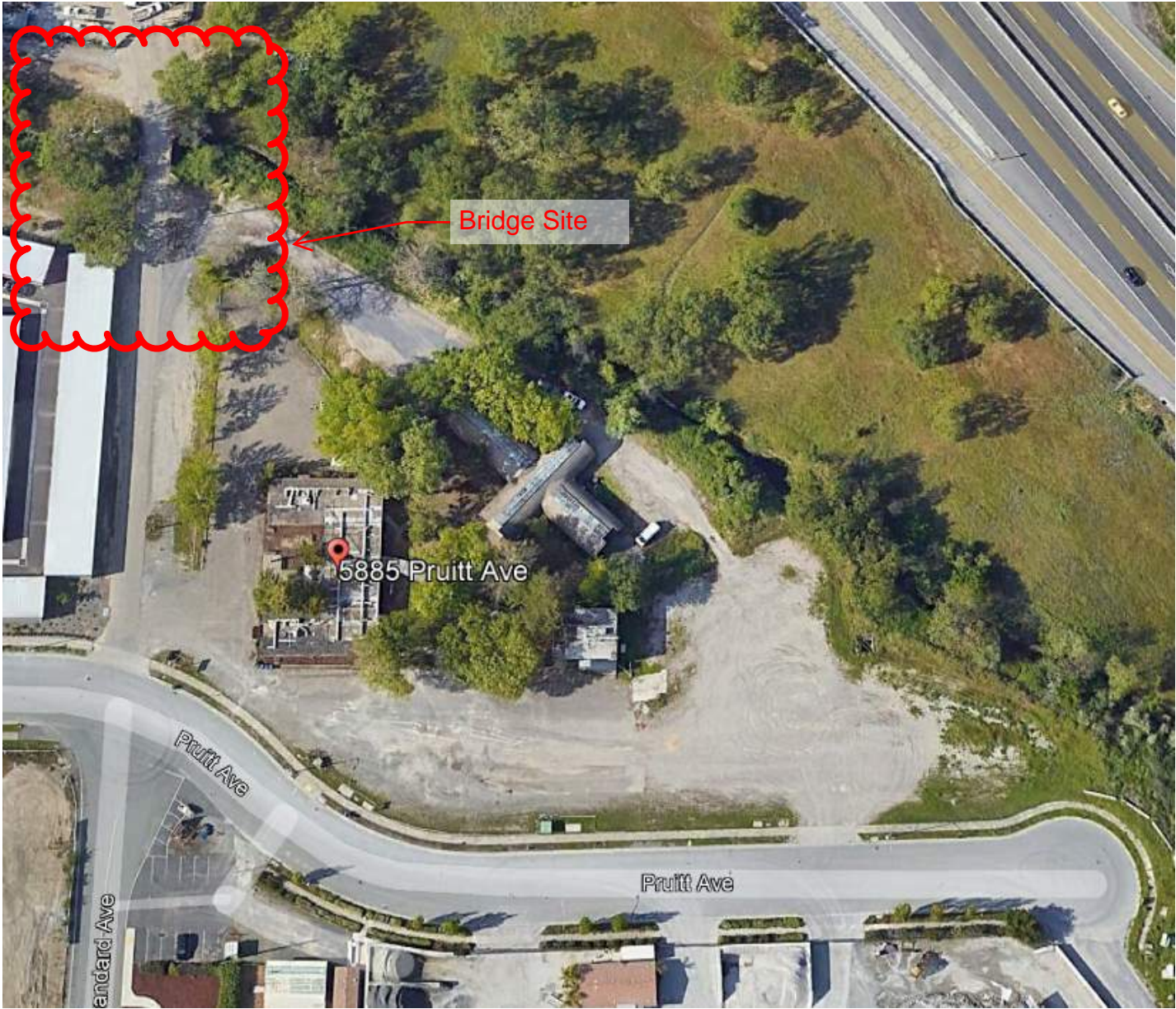
It is recommended that the owner provide structural inspections of the subject bridge on a 24 month basis. It is also recommended that the bridge foundations be observed following high-flow storm events. The structure is in FAIR Condition. Based on a preliminary assessment, the bridge would be classified as scour critical.

The following guidelines were used to determine inspection frequency recommendations for bridge structures. These guidelines are in general conformance with the NBIS criteria for routine inspections.

1. Routine inspection interval of 48-months. This inspection frequency is consistent with the NBIS maximum recommended inspection frequency for non-critical and/or non-suspect bridge structures.
2. Inspection intervals of 24-months are recommended for structures that fall into one or more of the following categories:
 - (a) Structures with a condition rating of POOR
 - (b) Structures that have a reduced load rating
 - (c) Structures without load path redundancy
 - (d) Structures that are very susceptible to vehicular damage, e.g. structures with vertical over or under clearances less than 14'-0"; narrow through or pony trusses.
 - (e) Structures that are very susceptible to scour damage, e.g. structures with Overall Channel and Channel Protection Condition Rating of 5 or less
 - (f) New or newly rehabilitated structures that have been inspected less than two (2) times (initial inspection plus 1 routine inspection) in order to establish structure baseline condition and performance.

APPENDIX A
Location Map

Pruitt Avenue Bridge over Pruitt Creek



APPENDIX B
Field Photo Excerpts

Pruitt Avenue Bridge over Pruitt Creek



Fig. 1: North view of bridge from approach



Fig 2: South view of bridge from approach



Fig 3: East view of bridge from creek bed



Fig 4: West view of bridge from roadway



Fig 5: Southwest wingwall



Fig 6: Northwest wingwall with metal conduit and cable



Fig 7: North Abutment Foundation



Fig 8: Localized concrete failure and rebar corrosion



Fig 9: "Intact" spalling at South abutment bearing



Fig 10: Unknown black cable disappearing underground at South abutment.

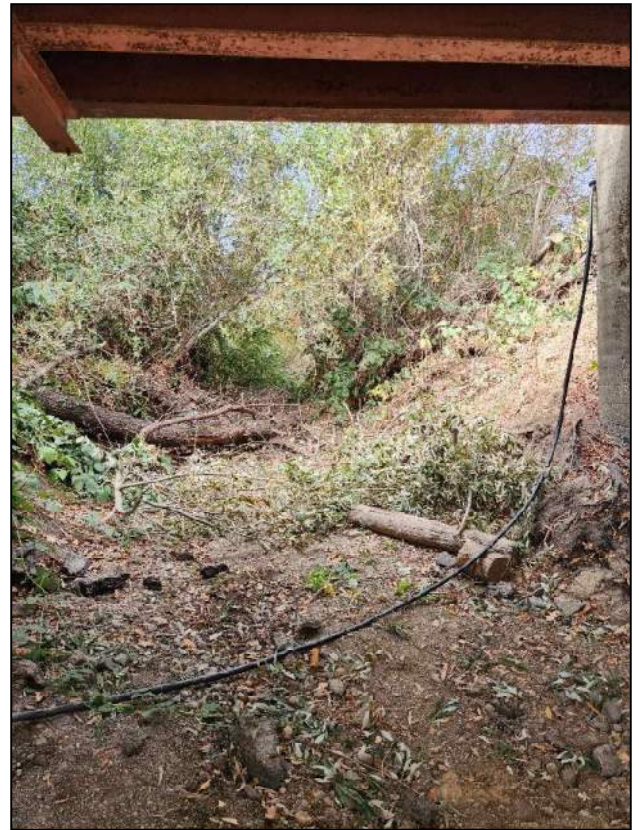


Fig 11: Unknown black cable running under the bridge from the North abutment.



Fig 12: Sacked Concrete in creek bed



Fig 13: Tree trunk and debris downstream within channel



Fig 14: Asphalt that was used to try to stabilize North abutment.

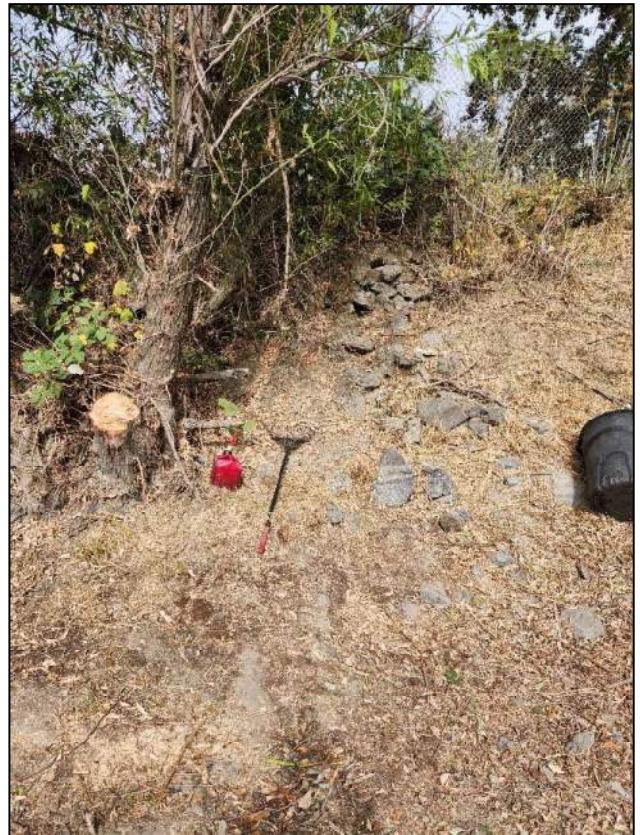


Fig 15: RSP on Northeast side of bridge



Fig 16: 42" CMP upstream from bridge

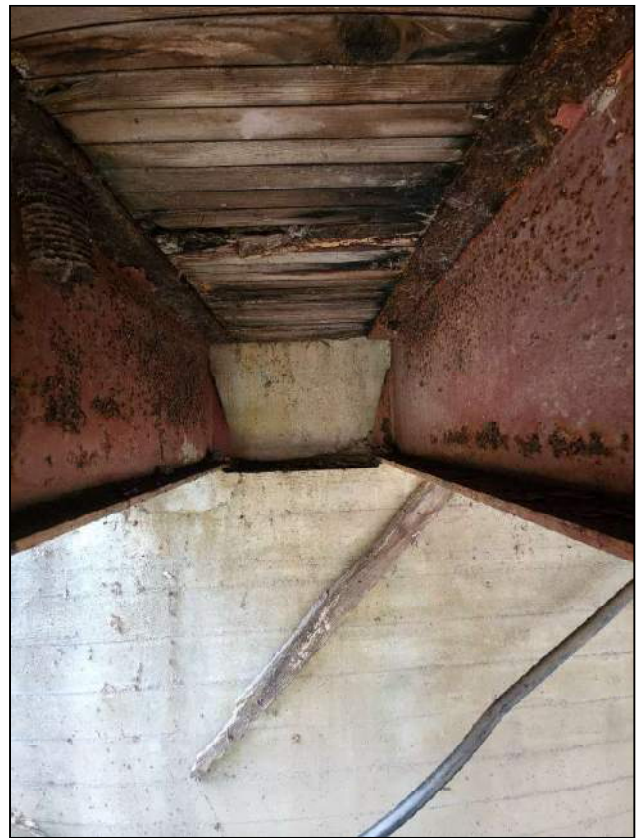


Fig 17: Broken timber decking facing South abutment

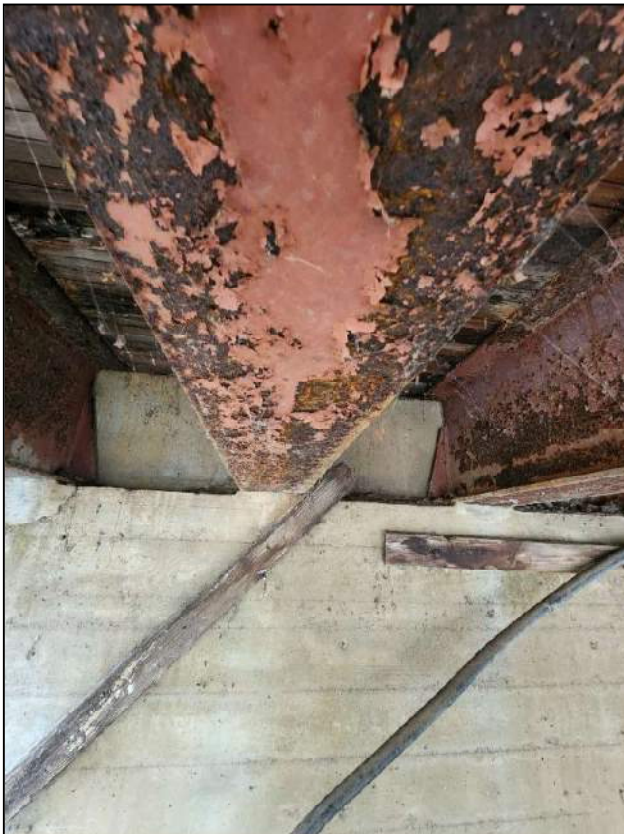


Fig 18: Paint peeling off from steel girders



Fig 19: New edge girder added for railing



Fig 20: Timber decking deterioration on Southwest edge of bridge

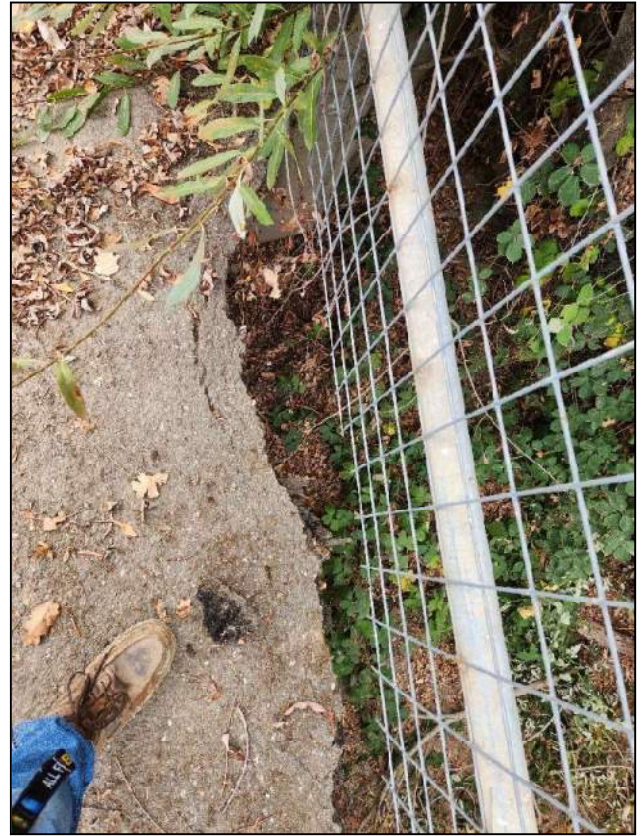


Fig 21: Asphalt crumbling on Southwest edge of bridge



Fig 22: Post not attached to any part of deck



Fig 23: Zipties holding mesh to tube railing



Fig 24: Tack welds holding railing together



Fig 25: Sagging fence and gate post on Northeast side of bridge



Fig 26: "Alligator" cracks at approach

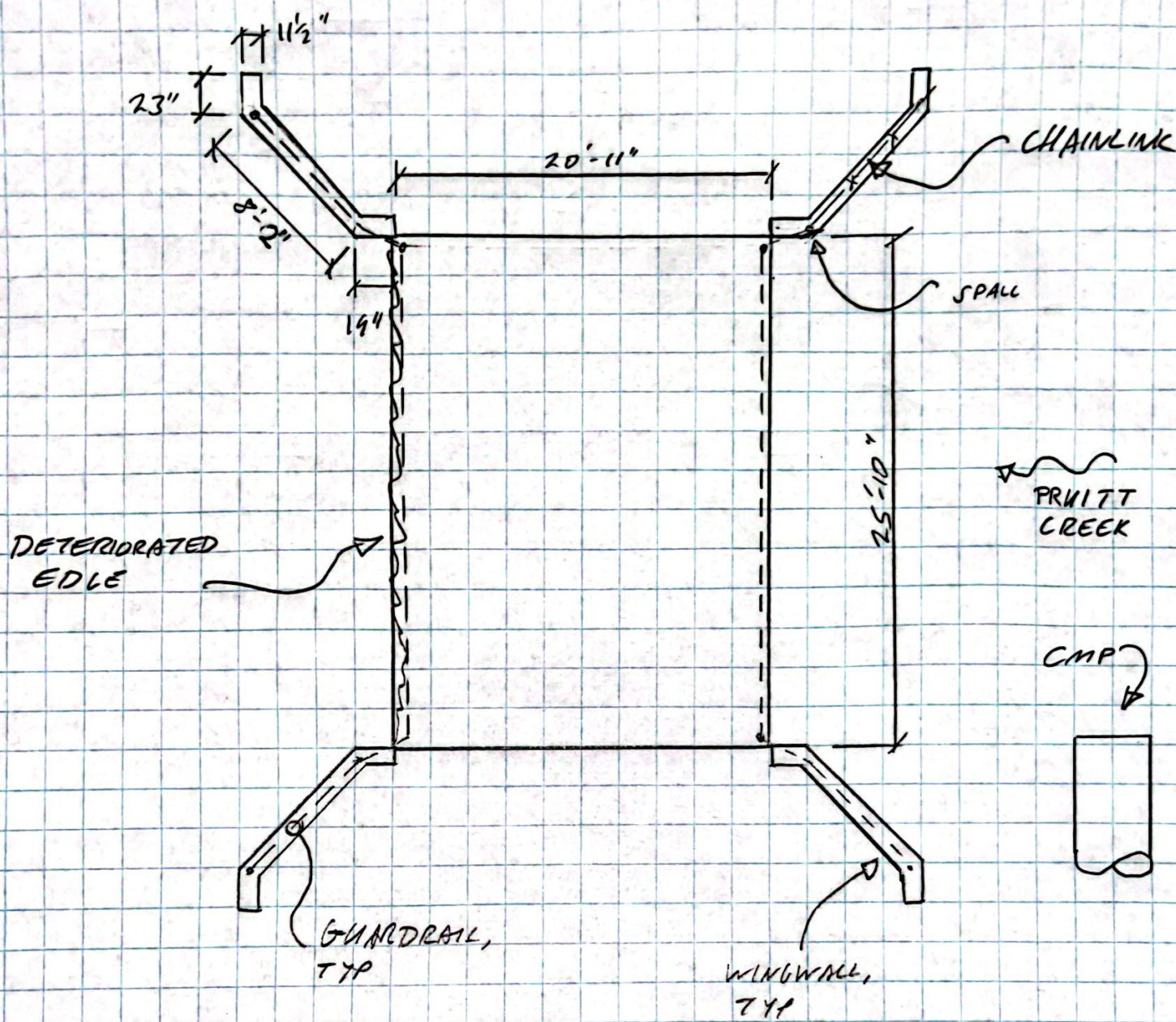


Fig 27: South abutment crack at expansion joint



Fig 28: North abutment crack at expansion joint

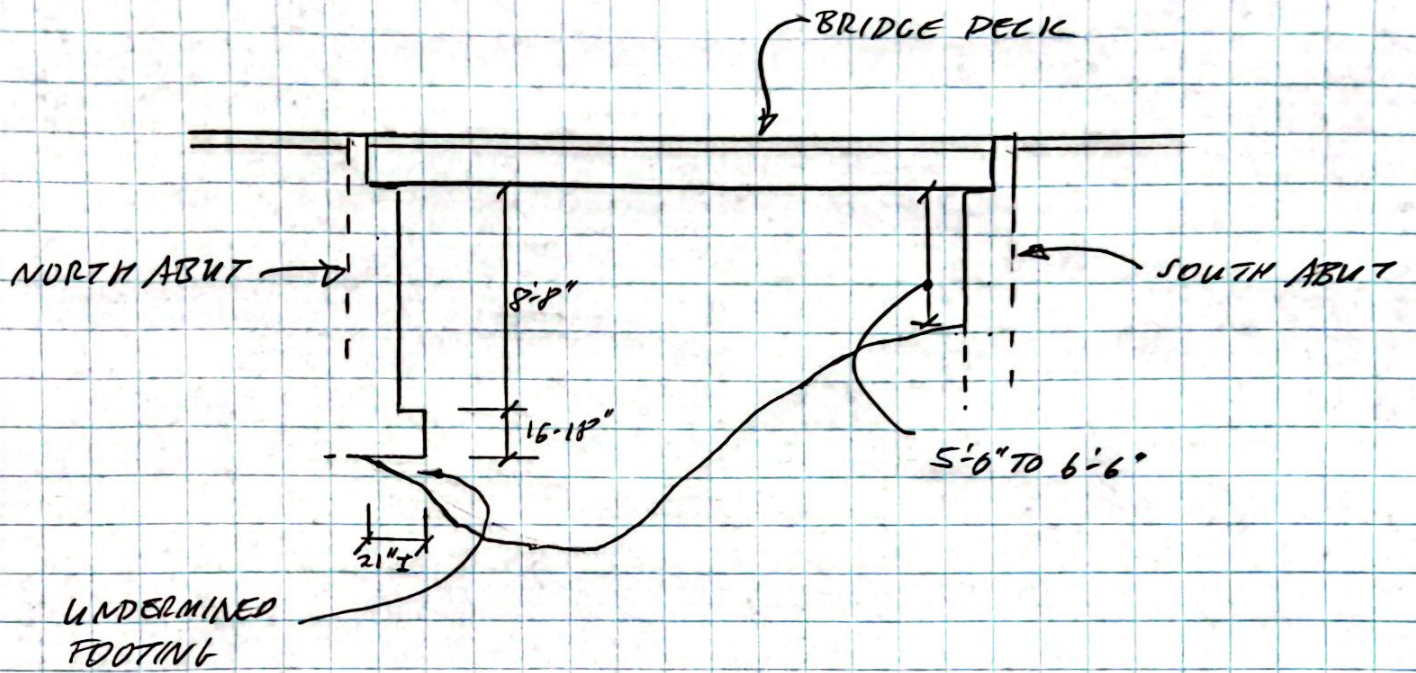
APPENDIX C
Field Sketches



PLAN

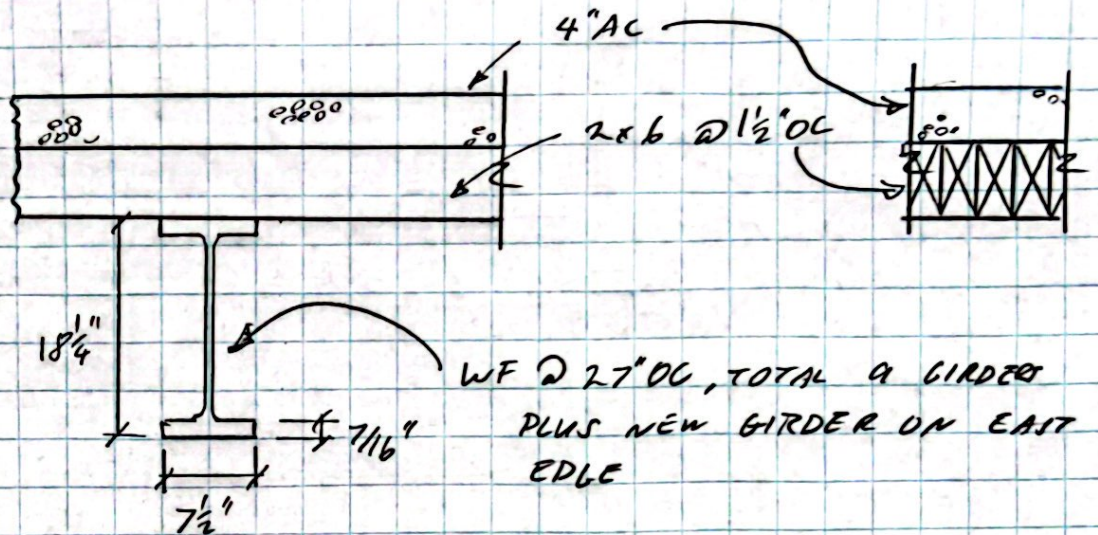


PRUITT AVE
BCA 10/23

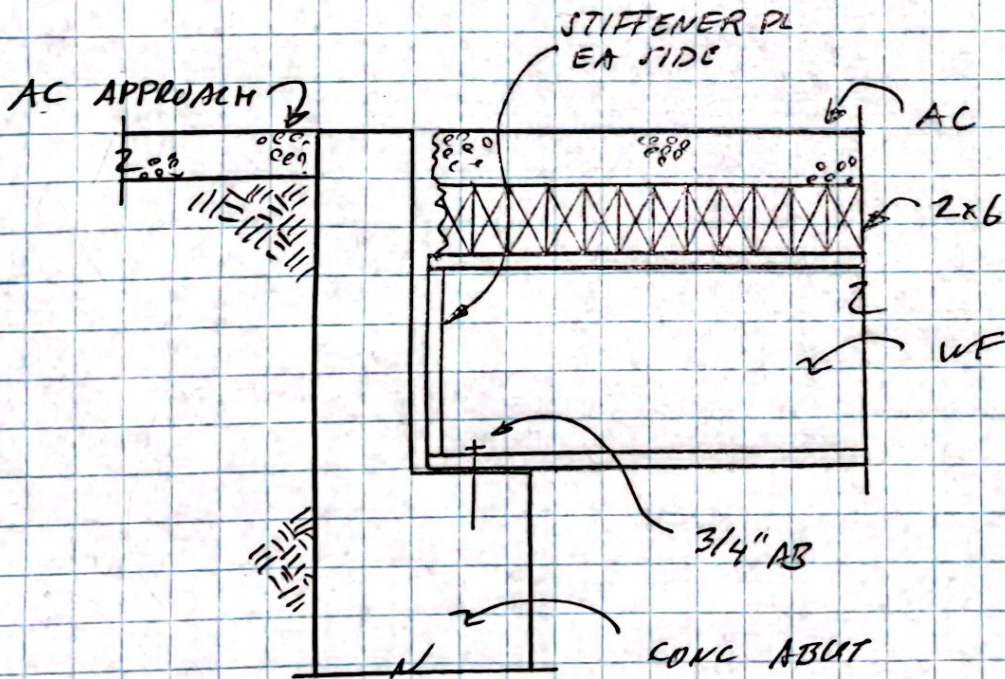


ELEVATION LOOKING EAST

PRUITT AVE
BLA 10/23



TYPICAL DECK SECTION



GIRDER SEAT

PRUITT AVE
BCA 10/23

APPENDIX D
Field Review Report

SUMMARY REPORT OF BRIDGE SURVEY

Structure No.: NA	Name: Standard Avenue Bridge over Pruitt Creek
Location: Within private parcel at the north end of Standard Avenue	Dimensions:
Type: Steel girder bridge with timber decking	Length: 25'-10"±
General Description: Existing bridge over Pruitt Creek	Width: 24'-11"±
	Roadway Width: 24'-11"±
Date Constructed: Between 1955 and 1980	Date of Other Work: Unknown (additional stringer on east side of bridge and replacement railings)
Date of Inspection: 10/10/2023	Date of Last Inspection: Unknown
Repair Work Since Last Inspection: Unknown	

Structure Component	Material	General Remarks
Approaches	Asphalt	Approaches are in Fair Condition with alligator cracking in the asphalt surface. No signs of settlement adjacent to the ends of the bridge.
Deck	Asphalt over Timber	Deck is in Poor Condition with significant deterioration of asphalt and timber at edges and ends of bridge and other localized areas.
Superstructure	Steel Stringers	Superstructure is in Good Condition. Paint has significant deterioration resulting in minor isolated surface corrosion.
Substructure	Concrete	Substructure is in Fair Condition. Concrete is in Good Condition. There is significant scour and undermining of the north abutment.

Non-Structural Items	General Remarks
Railings	Railings are in Poor Condition and do not provide adequate fall protection for pedestrians or vehicles
Channel	Channel is in Poor Condition due to lateral migration, scour and failed channel protection. There is debris downstream that is partially obstructing the channel.
Waterway Adequacy	Reported upstream flooding indicates Poor waterway flow.

Summary of Findings: Bridge is in Fair Condition.
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SUMMARY REPORT OF BRIDGE SURVEY

Conclusions and Recommendations: Bridge is in Fair Condition.

OVERALL BRIDGE CONDITION RATING: G F P N/A

Recommendations and conclusions provided here are based on visual observations of existing conditions at the time of the field survey. Certain conditions may not be visible or may be affected by the passage of time.

Structural Element Condition Rating

Code	Description
G	GOOD - element is limited to only minor problems.
F	FAIR - structural capacity of element is not affected by minor deterioration, section loss, spalling, cracking, or other deficiency.
P	POOR - structural capacity of element is affected or jeopardized by advanced deterioration, section loss, spalling, cracking, or other deficiency.

BRIDGE INSPECTION FORM

Date	10/10/2023		Structure Name	Standard Avenue Bridge over Pruitt Creek
Temperature	68 degrees F		Structure No.	N/A
Inspected By	Best Tech and Anthony Richardson		Structure Type	Steel girder bridge with timber deck and asphalt topping
City	Windsor		Location	North end of property
County	Sonoma		Features Intersected	Pruitt Creek
Weather	Sunny		ADT/Year	Unknown
			Functional Classification	N/A

GEOMETRIC DATA

Structure Dimensions:

No. of Traffic Lanes	N/A		Span Length	25'-10"	
Curb-to-Curb Dimension	No Curbs		Vertical Over clearance	N/A	
Deck Width, Out-to-Out	20'-11"		Skew	None	degrees
Handrail Width	20'		Approach Roadway Width (w/Shoulders)	N/A	feet
Structure Length	25'-10"	feet			
Number of Spans	1		Bridge Median	N/A	feet
Comments:					

Bridge Signing:

Speed Limit =	NA	MPH			
Weight Restrictions =	NA	Tons;		Tons/Comb.	
No signs indicating rating for vehicle loads.					
Speed Limit Reduction	<input checked="" type="checkbox"/> None	Minor	Substantial		
Vertical Clearance	Overhead	N/A	Ft.		In.
Comments:	This bridge is on private property and we understand is not intended to be open to public traffic. There are no physical barriers preventing public access and no signs were observed restricting access.				

APPROACH ROADWAY ALIGNMENT APPRAISAL RATING: G F P N/A

Comments:	There is some settlement at the transitions onto the bridge.

BRIDGE INSPECTION FORM

<u>Approach Elements</u>	<u>Rating</u>				<u>Remarks</u>
Pavement Condition	G	F	P	N/A	There are "Alligator" cracks on the approach pavement. Please see figure 26 in Appendix B
Vertical Alignment (North Abut.)	G	F	P	N/A	
Horizontal Alignment (North Abut.)	G	F	P	N/A	
Vertical Alignment (South Abut.)	G	F	P	N/A	
Horizontal Alignment (South Abut.)	G	F	P	N/A	

OVERALL CHANNEL AND CHANNEL PROTECTION CONDITION RATING: G F **P** N/A

Comments:

Approximately 10-feet upstream of the bridge at the corrugated metal pipe culvert (CMP), there is rock riprap/rock slope protection (RSP) that was placed and is still intact. At the upstream end of the north abutment, there appears to have been several attempts to stabilize the channel as scour and undermining has occurred. At some point, asphalt and sacked concrete were placed to try to provide channel protection. The asphalt has been undermined by continuing scour and the sacked concrete appears to have been undermined and has moved into the channel.

On the downstream side, there is no scour protection, but also no significant scour. The stream is partially obstructed with various debris.

The soil near and underneath the bridge appears to be fine silty sand and is potentially erodible/scourable.

<u>Channel Elements</u>	<u>Remarks</u>
Channel	
Streambed (align, scour, etc.)	There is a bend upstream and a 42" CMP. There was some riprap upstream in the creek bed and banks that was placed to possibly minimize erosion of the channel at the CMP. There is scour and undermining at the North Abutment.
Embankments (vegetation, etc.)	The sides of the banks are vegetated and about 20' downstream there is a timber retaining wall supporting the south bank of the creek
Streamflow (velocity, etc.)	Dry at the time of inspection.
Drift and Debris	There is a tree trunk that is approximately 14" in diameter that is partially obstructing the creek on the downstream side of the bridge. There were various forms of vegetation partially obstructing the stream as well. Please see figure 13

<u>Channel Protection</u>	<u>Rating</u>				<u>Remarks</u>
Riprap	G	F	P	N/A	Upstream RSP in the creek bed and banks appears to be stable and appears to be limiting scour and erosion.
Gabions	G	F	P	N/A	
Slope Protection	G	F	P	N/A	Sacked concrete appears to have moved and failed.
Footing Aprons	G	F	P	N/A	Asphalt that was placed to help protect the bridge foundation is undermined.

BRIDGE INSPECTION FORM

WATERWAY ADEQUACY APPRAISAL RATING: G F **P** N/A

Comments: The bridge is within a FEMA floodplain and reportedly floods upstream. Channel appears to have migrated laterally towards the north abutment contributing to the scour and undermining of the abutment.

<u>Waterway Elements</u>	<u>Remarks</u>
Hydraulic Opening	Reportedly floods upstream. It is not known if the bridge significantly affects or causes this flooding.
Freeboard	Reportedly the floods do not reach the top of the deck.
Span	The North abutment is at the toe of the slope of channel and appears to impinge on creek flows. This may be the result of lateral migration of the creek
Floodplain	The floodplain is within FEMA Floodplain.
Chance of Overtopping	
Unknown	Based on visual inspection and available records, it is unknown as to what the chances of overtopping are.
Slight	
Occasional	
Frequent	

OVERALL DECK CONDITION RATING: G F **P** N/A

Comments: There are several locations of the deck that appear to be in poor condition. The edges, ends and the centerline of the bridge have deteriorated significantly. This is likely due to water ingress at the exposed edges of the deck and at joints and cracks in the asphalt.

On the North East wingwall, there appears to be a gate post for a full width gate. Gate has been removed.

<u>Deck Elements</u>	<u>Rating</u>				<u>Remarks</u>
Wearing Surface	G	F	P	N/A	Overall, the asphalt wearing surface is good. There are full depth cracks at the ends of the bridge. There appears to be a joint at the centerline of the bridge deck.
Deck - Topside	G	F	P	N/A	Top of deck was not able to be inspected due to asphalt. More investigation may need to be conducted.
Deck - Underside	G	F	P	N/A	Decking at ends, edges, and isolated areas toward the middle of bridge severely deteriorating due to wood rot.
Curbs/Concrete Barrier	G	F	P	N/A	
Medians	G	F	P	N/A	
Sidewalks	G	F	P	N/A	
Parapets	G	F	P	N/A	
Railing	G	F	P	N/A	Railing is in poor condition and poorly constructed. There are portions of unattached mesh, tack-welded connections of main members

BRIDGE INSPECTION FORM

Deck Elements	Rating				Remarks
					and poor connections of the posts to the bridge. The post on the west side of the bridge is not attached to the bridge.
Expansion Joints	G	F	P	N/A	The expansion joints have previously been paved over and the asphalt now has full depth cracks at the ends of the bridge. There is significant timber decking deterioration due to ongoing water ingress at these cracks.
Drainage System	G	F	P	N/A	No drainage system visible. The bridge deck is almost flat with inadequate slopes for drainage.
Lighting	G	F	P	N/A	No lighting.
Utilities	G	F	P	N/A	There is the one black cable beneath the bridge; please see "Superstructure Elements"
Fencing	G	F	P	N/A	North East abutment fence is sagging and pushed over. Please see figure 25

OVERALL SUPERSTRUCTURE CONDITION RATING: **G** F P N/A

Comments: The superstructure elements appear to be in good condition. A large front loader was observed driving over the bridge and caused no significant deflections or vibrations. As mentioned in the deck "Deck Elements" portion, the deck elements are in poor condition.

Superstructure Elements	Rating				Remarks
Concrete Slab/Deck	G	F	P	N/A	Please see "Deck Elements"
Stringers	G	F	P	N/A	The stringers don't appear to have any significant corrosion, damage or deterioration.
Floorbeams	G	F	P	N/A	
Floor System Bracing	G	F	P	N/A	
Multibeams	G	F	P	N/A	
Girders	G	F	P	N/A	
Arches	G	F	P	N/A	
Cables	G	F	P	N/A	
Paint	G	F	P	N/A	There is significant paint failure. Estimated more than 50% of the paint has failed. The paint protects the steel from corrosion.
Bearing Devices	G	F	P	N/A	No bearing pads. The stringers are supported directly on the concrete abutment. On the East end of the South abutment, there is one intact concrete spall directly beneath a stringer bearing on the south abutment. Please see figure 9
Connections	G	F	P	N/A	
Welds	G	F	P	N/A	The minor welds at the new edge girder and at stiffener plates at the ends of the stringers are in good condition.

BRIDGE INSPECTION FORM

<u>Superstructure Elements</u>	<u>Rating</u>	<u>Remarks</u>
Timber Decay		See "Deck Elements". Significant timber decay in the decking.
Concrete Deterioration	N/A	
Steel Corrosion		Minor steel corrosion visible.
Collision Damage		No collision damage visible.
Live Load Deflection		No significant deflections were detected during inspections as large front loader drove across the bridge.
Vibration		No significant vibrations detected during inspections as large front loader drove across the bridge.
Member Alignment		Member alignment is Good other than railing
Utilities		Unknown black cable running under the bridge. The cable runs along the West wingwall of the North abutment through a metal conduit, then goes underneath the bridge diagonally and then is underground toward the East wingwall of the South abutment. Assumed to be electrical. The cable may have been previously supported on the bridge.

OVERALL SUBSTRUCTURE CONDITION RATING: G F P N/A

Comments: The substructure is in generally good condition except for undermining and two areas of localized deterioration on the north abutment. The footing/foundation for the North abutment has been exposed and partially undermined by scour. There are two areas of localized spalling or inadequate concrete cover that has resulted in corrosion of steel reinforcing bars.

<u>Substructure Elements</u>	<u>Rating</u>				<u>Remarks</u>
Abutments	G	F	P	N/A	Abutments are in general Good Condition.
Piles	G	F	P	N/A	No piles were observed in the undermined areas of the North abutment
End Diaphragm	G	F	P	N/A	
Bearing Seat	G	F	P	N/A	On the East end of the South abutment, there is one intact concrete spall directly beneath a stringer bearing on the south abutment. Please see figure 9
Backwall	G	F	P	N/A	Backwalls were observed from below the bridge.
Wingwall	G	F	P	N/A	No major damage or deterioration from either the top or the sides on the visible portions of the inspection. There is one spall on the north east wingwall with no exposed reinforcement or rust staining
Foundation	G	F	P	N/A	The foundation on the North abutment is in poor condition due to undermining and scour underneath the foundation. There are two areas of localized corrosion of reinforcement along the front edge of the foundation.
Pier Cap	G	F	P	N/A	
Piers	G	F	P	N/A	
Scour/Undermining	Significant Scour as mentioned above in "Foundation" and in "Overall				

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BRIDGE INSPECTION FORM

<u>Substructure Elements</u>	<u>Rating</u>	<u>Remarks</u>
		substructure” comments.
Settlement		No settlement of the structure or approaches was observed.
Substructure Protection		RSP seems to be providing channel stability upstream of the bridge. There is significant scour at the north abutment and failed asphalt and sacked concrete at the upstream end of the north abutment.
Fender System	N/A	
Collision Damage		No collision damage observed.
Highwater Mark		No high-water mark observed.
Timber Decay	N/A	
Concrete Deterioration		As mentioned above in “Foundations”, the North abutment footing has localized deteriorating concrete and corroding rebar.
Steel Corrosion	N/A	
Connections between pier walls and underside of deck?	N/A	
Connections between pier walls and pier cap?	N/A	
Paint	N/A	

GENERAL COMMENTS

Comments:	No As-Built plans available

Follow-up Comments

Underwater Inspection:	Not required
Fracture Critical Inspection:	Not required
NDT:	Not required
Load Rating:	Not required if bridge is closed to traffic. Consider a load rating if the bridge to remains open and there is potential for heavier vehicles.
Inspection Frequency:	Recommend every 2 years
Special Equipment:	None
General:	

Additional comments and/or sketches: None