

2546 Rolling Hills Ct.  
Alamo, CA 94507

March 14, 2023

**VIA HAND DELIVERY**

Watsonville City Council  
275 Main Street  
Suite 400 (4th Floor)  
Watsonville, CA 95076

**Re: Dangerous Condition at Highway 129 and Locust Street Relating to  
Ceiba College Preparatory Academy Student Bus Drop-Off and Pick-up**

Dear Members of the Council,

During the February 28th Special Council Meeting, Ceiba Principal Josh Ripp maintained he would enforce the policy of prohibiting student drop-off and pick-up activity on Highway 129. However, the very next day, on March 1st, Ceiba violated this policy regarding Highway 129 and the existing Condition of Approval 18 from Resolution No. 08-13(PC) dated June 4, 2013, which states:

The school access shall be limited to the driveway off of Locust Street. The Riverside Drive access shall not be utilized. (CDD-P, WFD).

Ceiba used both Highway 129 and Ceiba's Riverside Drive access to manage student drop-off and pick-up activity for a bus trip.

1. Two Monterey County Office of Education buses were chartered by Ceiba for a field trip on March 1, 2023, transporting approximately 80 students to/from California State University Monterey Bay.
2. At approximately 3:00 PM, the two buses dropped off students along the shoulder of Highway 129 in a 45 MPH zone in front of the Golden Brands building located at 270 W. Riverside Drive.



3. There were no red flashing lights on the bus, nor did there appear to be a bus driver directing student traffic.
4. Ceiba students disembarked and entered the Ceiba campus on the Highway 129/Riverside Drive driveway.



*Two Monterey County Office of Education School buses dropping off students along the shoulder of Highway 129.*



*Ceiba students disembark from the two buses and enter the Ceiba campus on Highway 129 driveway access.*



It is well established that Ceiba lacks adequate site capacity to run a school of its size. Moreover, due to the tight driveways, Ceiba's site is unable to handle bus traffic. Obviously, there are no safe and appropriate places on Highway 129 for bus drop-off and pick-up protocols, as the buses will extend past the highway edgeline. Ceiba routinely charts buses for field trips, however, it is unclear where they conduct bus pick-up and drop-off activities. Buses have been seen parked in the middle of the street on the southern end of Locust Street. It is unclear what safety protocol, if any, Ceiba is using to determine where buses should pick up and drop off students for field trips. Highway 129 is a hazardous option, as is entering/exiting the campus from the Riverside Drive access point. Bus loading near the Locust Street/Highway 129 intersection will create significant congestion due to the narrowness of Locust Street.

In the February 28, 2023 Agenda Packet, City Staff set forth several conditions forbidding the use of the Highway 129/Riverside Drive access, including Special Use Permit Conditions of Approval 27 and 29 (Page 335):

27. **Driveway Access.** The school access for student drop off and pick up shall be limited to the driveway off of Locust Street. The Riverside Drive access shall not be utilized. (CDD-P, WFD)

29. **On- and Off-Site Traffic Circulation.** School Administration staff shall prioritize management of traffic flow to and from the site during student drop off and pick up. School staff, crossing guards and volunteers shall adhere to the SRTS plan to ensure appropriate onsite drop off and pick up locations. School staff, crossing guards and volunteers shall also ensure queuing of vehicles onsite and that traffic does not back up onto City streets, thereby avoiding causing traffic congestion and unsafe conditions. Any issues arising from poor traffic control, due to Ceiba's management of traffic flow, shall be remedied by the school upon notification from City staff.

School Administration staff will institute a policy that no student drop off or pick up is to take place along Riverside Drive. (CDD-P, PWD)

In its submission to the Agenda packet, Ceiba maintained that these conditions were met. As has been shown, however, Ceiba has wasted no time in violating them. Looking forward, it is structurally problematic on how Ceiba will be managing bus protocols for future offsite events.

It is quite possible that Ceiba has been in violation of this since it began operations at 260 W. Riverside Drive. Historically, it appears the 2013 Condition 18 has never been enforced by the City of Watsonville.



Related to this issue, there are ongoing challenges regarding a Public Records Request with the Monterey County Office of Education. It has been difficult to obtain from Deputy Superintendent Brett McFadden, who was involved in Ceiba's siting in 2013, relevant information that would explain what is going on with the hazardous loading activity on Highway 129. (Email exchanges attached.)

Ceiba's reckless student drop-off and pick-up protocols pose ongoing threats to students, neighboring stakeholders, and drivers using public roadways. The dangers posed to the community are unprecedented for any school in Watsonville.

Respectfully,



Marta J Bulaich

Attachments



**Public Records Request**

12 messages

Marta Bulaich <martabulaich@gmail.com>  
To: "rhughes@montereycoe.org" <rhughes@montereycoe.org>  
Bcc: Marta Bulaich <martabulaich@gmail.com>

Thu, Mar 2, 2023 at 1:37 PM

Dear Ms. Hughes,

Pursuant to California Government Code Section 6250, I request that you provide me with the following:

1. Any and all records concerning, documenting, or consisting of communications (including but not limited to any emails, telephone calls, log of telephone calls, voicemails, calendar entries, audio and/or video recordings, memoranda, letters, correspondences, notes, text messages, group texts, group messages, and messages originating from communications platforms or other messaging apps) regarding transportation requests made by Ceiba College Preparatory Academy, Ceiba Public Schools, Ceiba Public Schools Foundation, and/or anyone representing said Ceiba entities in any way whatsoever, occurring between July 1, 2014 and March 2, 2023 between any employee or official of the Monterey County Office of Education.
2. Please provide the following information concerning every Request for Transportation made to the Monterey County Office of Education between July 1, 2014 and March 2, 2023 by any person representing, in any capacity, Ceiba College Preparatory Academy, Ceiba Public Schools, and/or Ceiba Public Schools Foundation, including, but not limited to Josh Ripp, Tom Brown, Annie Millar, Mike Rich, and/or Daniel Ornelas:
  - a. Date of Request
  - b. School Year
  - c. Name of Requestor
  - d. Requestor's Department
  - e. Requestor's Phone
  - f. Requestor's Email
  - g. Requestor's Budget or PO #
  - h. Date of Trip
  - i. Pick-Up Location
  - j. Pick-Up time
  - k. Event Start Time
  - l. Event Return Time
  - m. Destination Location
  - n. Address of Destination Location
  - o. Number of Participants
  - p. Event Contact Information
  - q. Total Miles Assigned to Driver
  - r. Total Hours Assigned to Driver
  - s. Total Cost of Trip

As provided in public records law, I expect your response within ten (10) days of your receipt of this request. I agree to pay any reasonable copying costs.



I greatly appreciate your assistance in this matter.

Sincerely,

Marta Bulaich

--  
Marta J Bulaich  
+1 415 816 1665  
@martahari

Junel Ceralde <juceralde@montereycoe.org>  
To: martabulaich@gmail.com

Fri, Mar 10, 2023 at 9:32 AM

Good afternoon Ms. Bulaich,

Attached please find the records you requested regarding Ceiba related Transportation requests.

Stay safe and dry,

Junel Ceralde

----- Forwarded message -----

From: Robin Hughes <rhughes@montereycoe.org>  
Date: Thu, Mar 2, 2023 at 1:51 PM  
Subject: Fwd: Public Records Request  
To: Brett McFadden <bmcfadden@montereycoe.org>, Junel Ceralde <juceralde@montereycoe.org>  
Cc: Cindy Dunn <cdunn@montereycoe.org>

Afternoon Brett. Here is a PRAR just received in our office.  
Junel - this is the request we talked about this morning that I had expected to receive to forward to you.

Please lmk if you have questions.

Robin Hughes  
Superintendent's Coordinator  
(831) 755-6463 | rhughes@montereycoe.org  
[Quoted text hidden]

MCOE Online: [Website](#) | MCOE on [Facebook](#) | MCOE on [Twitter](#)

Leadership, Support and Service to Prepare All Students for Success

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--  
*Junel Ceralde*

Senior Executive Assistant

to the Deputy Superintendent, Brett W. McFadden

Monterey County Office of Education

901 Blanco Circle

P.O. Box 80851

Salinas | California | 93912

Phone: 831.755.0300 ext. 1196




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 **PRA - Ceiba Requests.pdf**  
51K

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Junel Ceralde <juceralde@montereycoe.org>  
To: martabulaich@gmail.com

Fri, Mar 10, 2023 at 9:36 AM

Apologies Ms. Bulaich, the wrong document was attached, please see the correct document below.  
[Quoted text hidden]

---

 **PRA - Ceiba Transportation Documents.pdf**  
1069K

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Marta Bulaich <martabulaich@gmail.com>  
To: Junel Ceralde <juceralde@montereycoe.org>

Fri, Mar 10, 2023 at 9:36 AM

Hi Junel,  
Thank you for your email. The only attachment is a copy of my public records act request. Did you intend to send anything else?  
All the best,  
Marta

On Fri, Mar 10, 2023 at 9:32AM Junel Ceralde <juceralde@montereycoe.org> wrote:  
[Quoted text hidden]

---  
Marta J. Bulaich  
[Quoted text hidden]

---

Junel Ceralde <juceralde@montereycoe.org>  
To: Marta Bulaich <martabulaich@gmail.com>

Fri, Mar 10, 2023 at 9:38 AM

I think we may have crossed emails, I did send an updated email, did you receive it?  
[Quoted text hidden]

---

Marta Bulaich <martabulaich@gmail.com>  
To: Junel Ceralde <juceralde@montereycoe.org>

Fri, Mar 10, 2023 at 10:08 AM

Yes, thank you. However, the March 1, 2023, trip information you provided is **incomplete and does not include Ceiba's drop-off or pick-up addresses** for the two Monterey County Office of Education buses used that day to transport Ceiba students to and from their event. Please provide this data.

All the best,  
Marta  
[Quoted text hidden]

---

Junel Ceralde <juceralde@montereycoe.org>  
To: Marta Bulaich <martabulaich@gmail.com>

Fri, Mar 10, 2023 at 10:14 AM

Hello Ms. Bulaich,  
  
I will reach out to our Transportation team and see if they are able to provide the missing data.  
  
Thank you.  
[Quoted text hidden]


---

Junel Ceralde <juceralde@montereycoe.org>  
To: Marta Bulaich <martabulaich@gmail.com>

Fri, Mar 10, 2023 at 10:24 AM

Please see the attached Trip Information sheet containing the information of the drop off and pick up.  
[Quoted text hidden]

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 **Trip Information Sheet - 03-01-2023.pdf**  
88K

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Marta Bulaich <martabulaich@gmail.com>  
To: Junel Ceralde <juceralde@montereycoe.org>

Fri, Mar 10, 2023 at 11:43 AM

Hi Junel,



Thanks for sending the Trip Information Sheet. This document merely lists Ceiba's billing address and **does not show the addresses of the pick-up and drop-off locations**. Please provide documentation that states the addresses your bus drivers used for pick-up and drop-off locations during the March 1, 2023 Ceiba trip.

All the best,  
Marta

[Quoted text hidden]

---

Junel Ceralde <juceralde@montereycoe.org>  
To: Marta Bulaich <martabulaich@gmail.com>

Fri, Mar 10, 2023 at 1:05 PM

Hello Ms. Bulaich,

The drivers used a navigation system to map these locations:

Pick up participants at Ceiba College Preparatory Academy. Transport and drop off participants at CSUMB. Around 12:30 - 1:00 PM. Transport participants to Monterey History & Art at Stanton Center. At about 4:00 PM, return participants to Ceiba CPA. Contact for Trip is Nathan Winchell [REDACTED]

[Quoted text hidden]

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Marta Bulaich <martabulaich@gmail.com>  
To: Junel Ceralde <juceralde@montereycoe.org>

Fri, Mar 10, 2023 at 2:43 PM

Hi Junel,

Thanks for your email. Unfortunately, your response still does not answer my public documents request. **Which Ceiba address (or addresses)** were provided by the navigation system to your bus drivers for the drop-off and pick-up locations? Clearly, this data would be essential for the Monterey County Office of Education to have in order to generate the invoice you produced earlier. Moreover, **in order to comply with federal and state regulations**, the Monterey County Office of Education is required to record where its bus drivers pick up and drop off students as part of its regular record-keeping procedures for student transportation services.

Also, kindly confirm there were eighty (80) students and five (5) adults from Ceiba on the two buses, as indicated in the form you produced.

All the best,

Marta

[Quoted text hidden]

---

Junel Ceralde <juceralde@montereycoe.org>  
To: Marta Bulaich <martabulaich@gmail.com>

Fri, Mar 10, 2023 at 3:04 PM

Hello Ms. Bulaich,

I am only the liaison between the department and yourself. I will go ahead and speak with our Transportation department regarding your further request.

As you may already know, per Government Code Section 6253.9:

(c) Nothing in this section shall be construed to require the public agency to reconstruct a record in an electronic format if the agency no longer has the record available in an electronic format.

I will be out of the office the remainder of the day but will return on Monday.

Have a safe weekend,

[Quoted text hidden]



----- Forwarded message -----

From: **Marta Bulaich** <[martabulaich@gmail.com](mailto:martabulaich@gmail.com)>

Date: Thu, Mar 2, 2023 at 1:37 PM

Subject: Public Records Request

To: [rhughes@montereycoe.org](mailto:rhughes@montereycoe.org) <[rhughes@montereycoe.org](mailto:rhughes@montereycoe.org)>

Dear Ms. Hughes,

Pursuant to California Government Code Section 6250, I request that you provide me with the following:

1. Any and all records concerning, documenting, or consisting of communications (including but not limited to any emails, telephone calls, log of telephone calls, voicemails, calendar entries, audio and/or video recordings, memoranda, letters, correspondences, notes, text messages, group texts, group messages, and messages originating from communications platforms or other messaging apps) regarding transportation requests made by Ceiba College Preparatory Academy, Ceiba Public Schools, Ceiba Public Schools Foundation, and/or anyone representing said Ceiba entities in any way whatsoever, occurring between July 1, 2014 and March 2, 2023 between any employee or official of the Monterey County Office of Education.
2. Please provide the following information concerning every Request for Transportation made to the Monterey County Office of Education between July 1, 2014 and March 2, 2023 by any person representing, in any capacity, Ceiba College Preparatory Academy, Ceiba Public Schools, and/or Ceiba Public Schools Foundation, including, but not limited to Josh Ripp, Tom Brown, Annie Millar, Mike Rich, and/or Daniel Ornelas:
  - a. Date of Request
  - b. School Year
  - c. Name of Requestor
  - d. Requestor's Department
  - e. Requestor's Phone
  - f. Requestor's Email
  - g. Requestor's Budget or PO #
  - h. Date of Trip
  - i. Pick-Up Location
  - j. Pick-Up time
  - k. Event Start Time



l. Event Return Time

m. Destination Location

n. Address of Destination Location

o. Number of Participants

p. Event Contact Information

q. Total Miles Assigned to Driver

r. Total Hours Assigned to Driver

s. Total Cost of Trip

As provided in public records law, I expect your response within ten (10) days of your receipt of this request. I agree to pay any reasonable copying costs.

I greatly appreciate your assistance in this matter.

Sincerely,

Marta Bulaich

--

Marta J Bulaich  
+1 415 816 1665  
@martahari

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Jarrett Garife <jgarife@montereycoe.org>

---

## Fwd: Estimate for CSUMB Field Trip 3/1/23

1 message

---

Ismael Herrera Jr. <iherrera@montereycoe.org>  
To: Jarrett Garife <jgarife@montereycoe.org>

Fri, Feb 17, 2023 at 1:09 PM

Good Question...

----- Forwarded message -----

From: Clarissa Ruvalcaba <clarissa.ruvalcaba@ceibaprep.org>  
Date: Fri, Feb 17, 2023 at 11:35 AM  
Subject: Re: Estimate for CSUMB Field Trip 3/1/23  
To: Ismael Herrera Jr. <iherrera@montereycoe.org>

Hi Ismael,

I approve this invoice. What is the best way to give you payment?

Thank you

On Fri, Feb 17, 2023 at 9:49 AM Ismael Herrera Jr. <iherrera@montereycoe.org> wrote:  
For your approval

--

Junior Herrera

Monterey County Office of Education

Dispatcher - Transportation

901 Blanco Circle | Salinas | CA 93901

PO Box 80851 | Salinas | CA 93912

Desk: 831.755.6426 | Cell: 831.596.6999

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--

Clarissa Ruvalcaba  
Student Activities Coordinator  
She/ Her/ Hers  
Ceiba College Prep  
215 Locust St, Watsonville



3/7/23, 2:42 PM

Monterey County Office of Education Mail - Fwd: Estimate for CSUMB Field Trip 3/1/23

Watsonville, CA 95076  
831.288.2538

--

Junior Herrera

Monterey County Office of Education

Dispatcher - Transportation

901 Blanco Circle | Salinas | CA 93901

PO Box 80851 | Salinas | CA 93912

Desk: 831.755.6426 | Cell: 831.596.6999

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Jarrett Garife <jgarife@montereycoe.org>

## Sign or Review: Form for Clarissa Ruvalcaba - 03/01/2023 - 2022-23 titled Request for Transportation

1 message

Clarissa Ruvalcaba via Informed K12 <forms@informedk12.com>  
Reply-To: clarissa.ruvalcaba@ceibaprep.org  
To: jgarife@montereycoe.org

Tue, Feb 14, 2023 at 3:06 PM



FORM WAITING

Hi Transportation,

You have received a document for Clarissa Ruvalcaba - 03/01/2023 - 2022-23 from Clarissa Ruvalcaba.

Please fill out your parts of the form and submit according to instructions on the online form and website.

**You can check the status of your form by clicking on the button or link below at any time:**



If you're unable to access the link above, please copy and paste this URL into your browser: [https://app.informedk12.com/docs/99?form\\_request\\_id=32523681&token=81S6QwqoEk3deveZAx7W6H8P](https://app.informedk12.com/docs/99?form_request_id=32523681&token=81S6QwqoEk3deveZAx7W6H8P)

### **Do not share this email**

This is your personal, private link to the form. Please do not forward or share this email.



3/7/23, 2:43 PM

Monterey County Office of Education Mail - Sign or Review: Form for Clarissa Ruvalcaba - 03/01/2023 - 2022-23 titled Request for Transportation

A small thumbnail image of a 'Request for Transportation' form. The form has a header with the title and a section for 'Student Information' with fields for name, address, and phone number. Below that is a section for 'Transportation Information' with fields for school, bus route, and other details. The form is partially filled out with handwritten text.A small thumbnail image of a 'Request for Transportation' form, similar to the one above, showing the same fields and handwritten information.

**Title**

Request for Transportation

**For**

Clarissa Ruvalcaba - 03/01/2023 - 2022-23

**Sent**

02/14/2023 3:06pm PST





Monterey County Office of Education

# Request for Transportation

Today's Date 02/14/2023

School Year 2022-23

## Requestor's Information

Name Clarissa Ruvalcaba

Department Education

Phone 831-288-2538

Email clarissa.ruvalcaba@ceibaprep.org

Enter Budget or PO # 3,000

## Trip Information

Date of Trip 03/01/2023

Pick Up Location Ceiba College Preparatory Academy

Pick Up Time 8:45am Event Start Time 9:45am Return Time 4:00pm

Destination Location CSUMB Address 100 Campus Center, Seaside, CA 93955

Number of Participants # of Students 80 # of Adults 5 W/C Students 0

Event Contact Information Nathan Winchell

## Trip Itinerary (Include all stops. Attach a separate sheet of paper if additional space is needed)

First pick up: Ceiba College Prep  
Drop off: CSUMB  
Pick: CSUMB to the second activity  
Depart: Second activity  
Arrive: Ceiba College Prep

Clarissa Ruvalcaba 02/14/2023

Signature of Requestor

Signature of MCOE, Transportation Manager

## OFFICE USE ONLY

### Driver Assigned:

Miles

Total Miles = \_\_\_\_\_

START ODOMETER

END ODOMETER

Time

Total Hours = \_\_\_\_\_

START

END

### Total Cost of Trip

X	\$3.50	+	X	\$40.00	=	
Total Miles	Rate/Mile		Total Hours	Rate/Hour		Total Cost

**-Return completed form to MCOE, Transportation Department-**

For any questions contact Transportation at 831-755-6426 or [ndeherdt@monterevcoe.org](mailto:ndeherdt@monterevcoe.org)





Jarrett Garife <jgarife@montereycoe.org>

## Sign or Review: Form for Clarissa Ruvalcaba - 04/12/2023 - 2022-23 titled Request for Transportation

1 message

Clarissa Ruvalcaba via Informed K12 <forms@informedk12.com>  
Reply-To: clarissa.ruvalcaba@ceibaprep.org  
To: jgarife@montereycoe.org

Fri, Feb 24, 2023 at 9:34 AM



FORM WAITING

Hi Transportation,

You have received a document for Clarissa Ruvalcaba - 04/12/2023 - 2022-23 from Clarissa Ruvalcaba.

Please fill out your parts of the form and submit according to instructions on the online form and website.

**You can check the status of your form by clicking on the button or link below at any time:**



If you're unable to access the link above, please copy and paste this URL into your browser: [https://app.informedk12.com/docs/99?form\\_request\\_id=32800353&token=rfKCVfhoZ1iUfSCUeN73bAoA](https://app.informedk12.com/docs/99?form_request_id=32800353&token=rfKCVfhoZ1iUfSCUeN73bAoA)

**Do not share this email**

This is your personal, private link to the form. Please do not forward or share this email.



3/7/23, 2:43 PM

Monterey County Office of Education Mail - Sign or Review: Form for Clarissa Ruvalcaba - 04/12/2023 - 2022-23 titled Request for Transportation



**Title**

Request for Transportation

**For**

Clarissa Ruvalcaba - 04/12/2023 - 2022-23

**Sent**

02/24/2023 9:34am PST

Dear Mr. [Name],

I am writing to you regarding the Request for Transportation form that you submitted to the Monterey County Office of Education. The form was received on 02/24/2023 at 9:34am PST.





Monterey County Office of Education

# Request for Transportation

Today's Date 02/24/2023

School Year 2022-23

## Requestor's Information

Name Clarissa Ruvalcaba

Department Education

Phone 831-288-2538

Email clarissa.ruvalcaba@ceibaprep.org

Enter Budget or PO # 2,000

## Trip Information

Date of Trip 04/12/2023

Pick Up Location 215 Locust St, Watsonville, CA 95076

Pick Up Time 8:00am Event Start Time 9:00am Return Time 12:00pm

Destination Location Earth Farms Address 172 Litchfield Ln, Watsonville, CA 95076

Number of Participants # of Students 70 # of Adults 7 W/C Students 0

Event Contact Information David Ray

## Trip Itinerary (Include all stops. Attach a separate sheet of paper if additional space is needed)

Pick up: Ceiba  
Drop off: Earth Farms  
Pick up: Earth Farms  
Drop off: Ceiba

Clarissa Ruvalcaba

02/24/2023

Signature of Requestor

Signature of MCOE, Transportation Manager

## OFFICE USE ONLY

### Driver Assigned:

Miles

Total Miles = \_\_\_\_\_

START ODOMETER

END ODOMETER

Time

Total Hours = \_\_\_\_\_

START

END

### Total Cost of Trip

	X	\$3.50	+		X	\$40.00	=	
Total Miles		Rate/Mile		Total Hours		Rate/Hour		Total Cost

**-Return completed form to MCOE, Transportation Department-**

For any questions contact Transportation at 831-755-6426 or ndeherdt@montereycne.org





Ismael Herrera Jr. <iherrera@montereycoe.org>

---

## Estimate for CSUMB Field Trip 3/1/23

2 messages

Ismael Herrera Jr. <iherrera@montereycoe.org>

Fri, Feb 17, 2023 at 9:49 AM

To: "Clarissa Ruvalcaba@ceibaprep.org" <clarissa.ruvalcaba@ceibaprep.org>

For your approval

--

Ismael Herrera

Monterey County Office of Education

Dispatcher - Transportation

901 Blanco Circle | Salinas | CA 93901

PO Box 80851 | Salinas | CA 93912

Desk: 831.755.6426 | Cell: 831.596.6999

---

 Ceiba CPA - CSUMB 3\_1\_23 (A).pdf  
51K

---

Clarissa Ruvalcaba <clarissa.ruvalcaba@ceibaprep.org>

Fri, Feb 17, 2023 at 11:35 AM

To: "Ismael Herrera Jr." <iherrera@montereycoe.org>

Hi Ismael,

I approve this invoice. What is the best way to give you payment?

Thank you

[Quoted text hidden]

[Quoted text hidden]

MCOE Online: [Website](#) | MCOE on [Facebook](#) | MCOE on [Twitter](#)

Leadership, Support and Service to Prepare All Students for Success

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--

**Clarissa Ruvalcaba**  
Student Activities Coordinator  
She/ Her/ Hers  
Ceiba College Prep  
215 Locust St, Watsonville  
Watsonville, CA 95076  
831.288.2538



o: Jarrett Garife <jgarife@montereycoe.org>

Good Question...

[Quoted text hidden]

---

Ismael Herrera Jr. <iherrera@montereycoe.org>  
o: Clarissa Ruvalcaba <clarissa.ruvalcaba@ceibaprep.org>

Fri, Feb 17, 2023 at 1:13 PM

MCOE will invoice you after service rendered, maam.

[Quoted text hidden]

---

Clarissa Ruvalcaba <clarissa.ruvalcaba@ceibaprep.org>  
o: "Ismael Herrera Jr." <iherrera@montereycoe.org>

Fri, Feb 17, 2023 at 1:48 PM

Perfect, thank you! Have you heard any news about us possibly getting a second bus if another driver is available?

Thank you

[Quoted text hidden]

---

Ismael Herrera Jr. <iherrera@montereycoe.org>  
o: Clarissa Ruvalcaba <clarissa.ruvalcaba@ceibaprep.org>

Fri, Feb 17, 2023 at 2:35 PM

Yes! 2 Drivers are interested in doing the trip.

Hey the second activity to the museum, around what time were you thinking of heading over to the site?

[Quoted text hidden]

---

Clarissa Ruvalcaba <clarissa.ruvalcaba@ceibaprep.org>  
o: "Ismael Herrera Jr." <iherrera@montereycoe.org>

Fri, Feb 17, 2023 at 2:37 PM

We are planning to head over there by 12:45. We will wrap up our day at CSUMB at 12:30 and we have our tour booked for 1pm.

[Quoted text hidden]

---

Ismael Herrera Jr. <iherrera@montereycoe.org>  
o: Clarissa Ruvalcaba <clarissa.ruvalcaba@ceibaprep.org>

Fri, Feb 17, 2023 at 4:32 PM

Updated Estimate for your approval

[Quoted text hidden]

---

 **Ceiba CPA - CSUMB 3\_1\_23.pdf**  
52K

---

Clarissa Ruvalcaba <clarissa.ruvalcaba@ceibaprep.org>  
o: "Ismael Herrera Jr." <iherrera@montereycoe.org>

Fri, Feb 17, 2023 at 5:07 PM

I approve this estimate.

Thank you

[Quoted text hidden]

---

Ismael Herrera Jr. <iherrera@montereycoe.org>  
o: Clarissa Ruvalcaba <clarissa.ruvalcaba@ceibaprep.org>

Tue, Feb 21, 2023 at 7:30 AM

Good Morning Clarissa. Quick question, The event contact person you listed in the RFT says Nathan Winchell, but you did not list a contact number for him. Can we have his number please?

[Quoted text hidden]

---

Clarissa Ruvalcaba <clarissa.ruvalcaba@ceibaprep.org>  
o: "Ismael Herrera Jr." <iherrera@montereycoe.org>

Tue, Feb 21, 2023 at 7:45 AM



Good morning,

Yes, his number is 209-614-5286

Thank you

[Quoted text hidden]

---

**mael Herrera Jr.** <iherrera@montereycoe.org>

Tue, Feb 21, 2023 at 7:46 AM

> Clarissa Ruvalcaba <clarissa.ruvalcaba@ceibaprep.org>

Thank you much

[Quoted text hidden]



MCOE Transportation Dept. Field Trip Quote

Trip Name: Ceiba College Preparatory Academy - CSUMB 3\_1\_23

Price per mile      \$      3.50

Estimated roundtrip milies

100

Price per driver hr    \$      40.00

Estimated roundtrip driver hours

10

Number of buses

1

**Below is an estimated total field trip cost for the proposed field trip**

Total field trip mileage cost

\$ 350.00

Cost per trip

\$ 750.00

Total driver hour cost

\$ 400.00

Total field trip cost

\$ 750.00



MCOE Transportation Dept. Field Trip Quote

Trip Name: Ceiba College Preparatory Academy - CSUMB 3\_1\_23

Price per mile \$ 3.50

Estimated roundtrip milies

Price per driver hr \$ 40.00

Estimated roundtrip driver hours

Number of buses

**Below is an estimated total field trip cost for the proposed field trip**

Total field trip mileage cost

Cost per trip

Total driver hour cost

Total field trip cost



# MONTEREY COUNTY OFFICE OF EDUCATION

## Transportation Department

901 Blanco Circle, P.O. Box 80851, Salinas, CA 93912-0851

(831) 755-6426

### TRIP INFORMATION

Date Received	Data Entry Date	Trip #	Trip Customer Information	
2/14/2023	2/21/2023	39	<b>Bill To:</b> Ceiba College Preparatory Academy	
			<b>Address:</b> 215 Locust St.	
			Watsonville, CA 95076	
			<b>Phone:</b> 831-740-8800	
			<b>Contact:</b> Clarissa Ruvalcaba	
			<b>E-Mail:</b> clarissa.ruvalcaba@@ceibaprep.org	
<b>Destination</b>				
<b>Location Name:</b> CSUMB/Monterey Art Museum				
<b>Address:</b>				
Monterey, CA 93940				
<b>Phone:</b>				
<b>Depart Date:</b> 3/1/23		<b>Driver Sign-in:</b>	7:00 AM	
<b>Return Date:</b> 3/1/23		<b>Leave Yard:</b>	7:30 AM	
		<b>Arrive School:</b>	8:45 AM	
<b>Trip Type</b>		<b>Depart School:</b>		
		<b>Event:</b>		
		<b>Return School:</b>	4:00 PM	
		<b>Return MCOE:</b>	5:00 PM	
<b>Student #:</b>	80	<b>Adult #:</b>	5	
<b>W/C:</b>	0	<b>Bus #:</b>	2	
<b>Estimated Trip Cost</b>				
<b>Hourly Rate:</b> \$40.00		<b>Mileage Rate:</b> \$3.50		
<b>Est. Trip Hours:</b> 10.00		<b>Est. Trip Mileage:</b> 110		
<b>Est. Hourly Cost:</b> \$400.00		<b>Est. Mileage Cost:</b> \$385.00		
		<b>Total Est. Trip Cost</b> \$1,570.00		

### Trip Instructions

Pick up participants at Ceiba College Preparatory Academy. Transport and drop off participants at CSUMB. Around 12:30 - 1:00 PM, Transport participants to Monterey History & Art at Stanton Center. At about 4:00 PM, return participants to Ceiba CPA. Contact for Trip is Nathan Winchell [REDACTED]

CONFIRMED (TRANSPORTATION): \_\_\_\_\_

DATE: \_\_\_\_\_





Irwin Ortiz <irwin.ortiz@cityofwatsonville.org>

---

## March 14, 2023 Watsonville City Council Meeting - Agenda Item 10.L

1 message

---

**Marta Bulaich** <martabulaich@gmail.com>

Tue, Mar 14, 2023 at 1:59 PM

To: citycouncil@cityofwatsonville.org, cityclerk@cityofwatsonville.org

Dear City Clerk and Members of the Council:

Submitted herewith, for consideration by the City Council, is my document titled, "Ceiba's Incompatibility with Adjacent Industrial and Residential Zones."

For the City Clerk, please consider this email a request to include this email and the attached document for the March 14, 2023 City Council Meeting.

If you have any questions, please feel free to contact me.

Respectfully,

Marta J Bulaich

 **031423Final Ceiba's Incompatibility with the Re...**

--

Marta J. Bulaich  
+1 415 816 1665  
@martahari



# **Ceiba's Incompatibility with Adjacent Industrial and Residential Zones**

Submitted by:  
Marta Bulaich  
March 14, 2023



# Introduction

This presentation details the City of Watsonville's failure to present necessary findings to justify a proposed zoning map amendment for Ceiba Charter School, including failures to:

1. Establish compatibility
2. Provide safe and efficient movement of traffic
3. Meet parking requirements
4. Preserve neighborhood protection
5. Preserve existing neighborhood quality
6. Provide safe environment for youth

For the past decade, Ceiba and the City of Watsonville have placed students, neighborhood stakeholders, and all drivers traveling on public roadways in significant danger. The illegal siting of a school in an incompatible location coupled with zero enforcement regarding traffic, parking, reckless and irresponsible drop-off and pick-up locations, and multiple nuisances, have resulted in Ceiba being a total blight on the neighborhood. This failure has caused ten years of suffering to the neighboring community. Moreover, the proposed Conditions of Approval fail to mitigate the ongoing hardship to both the residential and industrial stakeholders.



# **City Staff's "Cropped" Watsonville's Zoning Map**

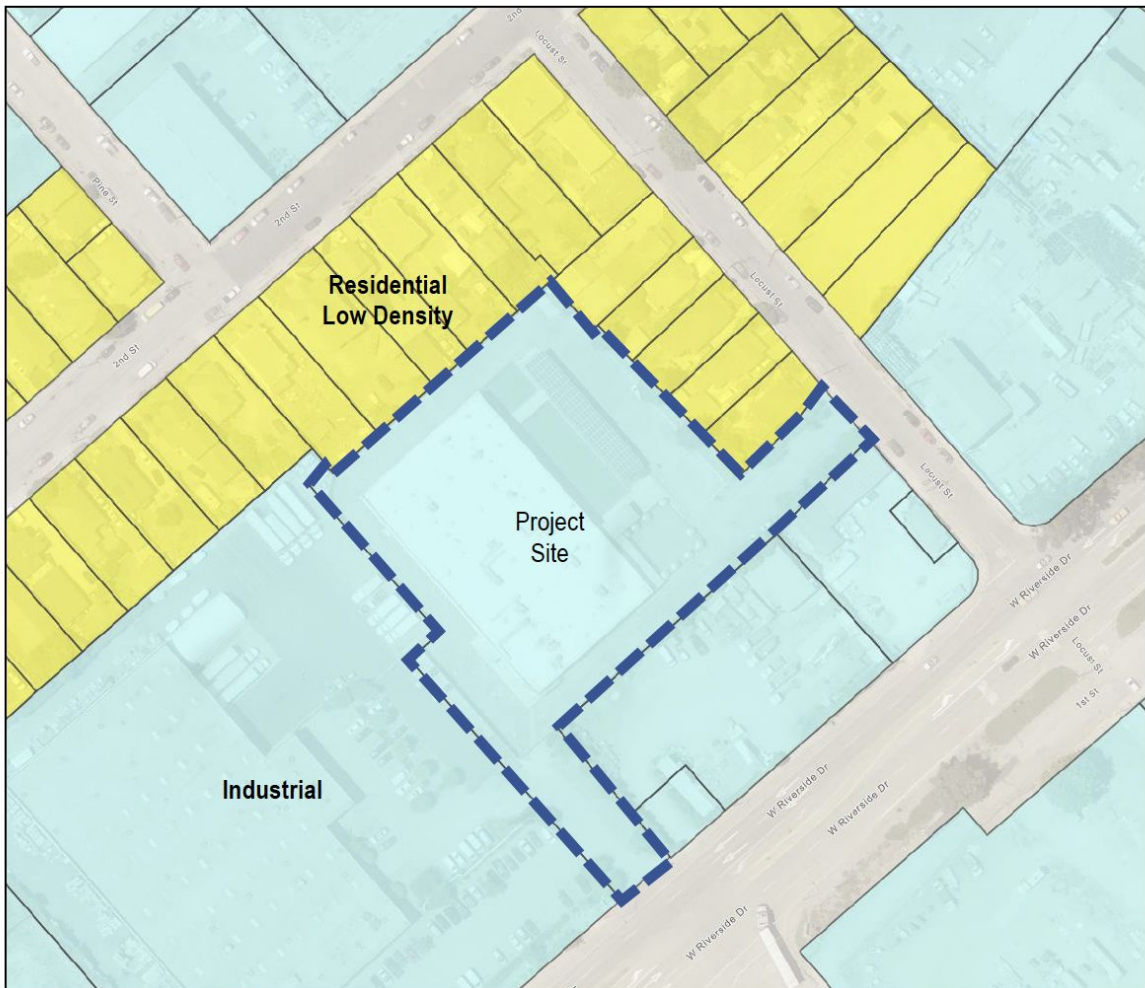
## **Failure to Adequately Identify Adjacent Industrial Uses**



# February 28, 2023 [Zoning Map]

## Description:

The City of Watsonville Zoning map presented by City Staff. Due to the map being severely cropped, **this slide fails to accurately depict Ceiba's incompatibility with adjacent businesses, agriculture, and industrial companies.** The City of Watsonville Zoning Map on the following page shows this rezoning is the worst form of spot zoning.

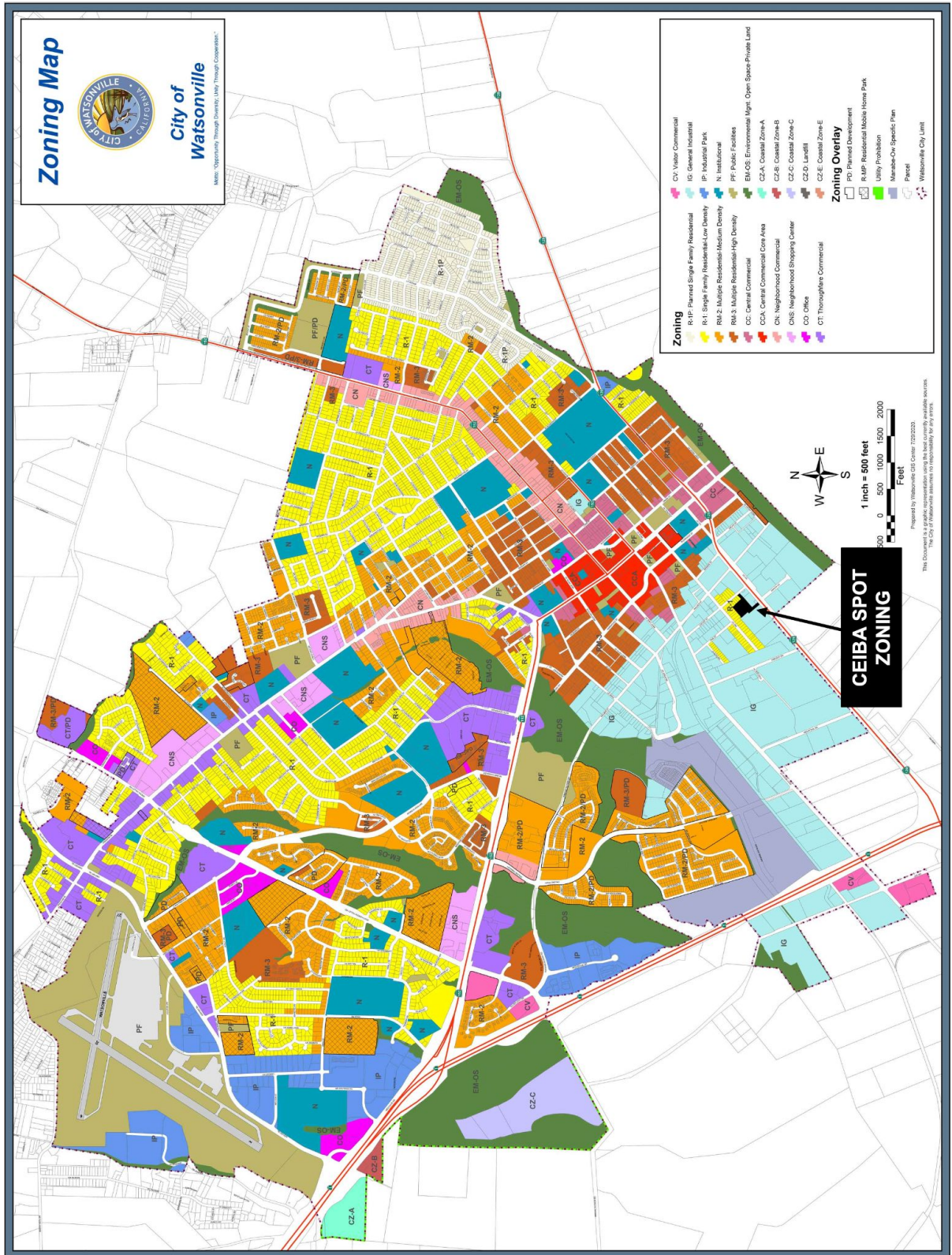


**FIGURE 2** General Plan land use designations for the project site and surrounding area

Source: Watsonville GIS View, 2022



# City of Watsonville Zoning Map





## Incompatible with Adjacent Industrial Stakeholders - Propane truck use, alcohol distribution, toxic sites, and hazardous chemicals

### 209 Locust Street:

**Oliveira Plastering** - Family business, that specializing in lath, exterior cement plaster and fine interior plaster finishes. Heavy truck use and propane tanks during school hours.

### 1. BACKING TRUCKS

A large Industrial Propane Truck is BACKING into the driveway of an industrial use right across the street from the CEIBA Prep School. Blocks Locust St traffic.

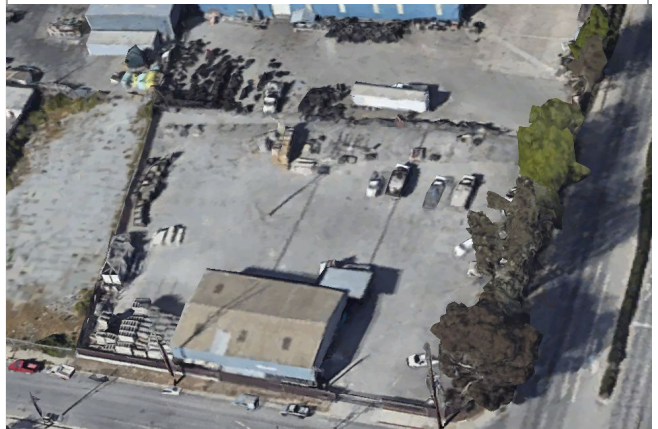
An unsafe condition for students

Locust St at W Riverside (Highway 129)

Traveling NORTHBOUND on Locust St. Date: 9/27/2022 TUE, 4:10 pm

### 135 Walker Street

**Richard Hammond Company** - is listed as a toxic site on the California Department Toxic Substance Control Envirostar website. ***Land restrictions list that public and private schools for persons under 21 are prohibited.***



### 270 W. Riverside Drive:

**Golden Brands** is a beverage distribution business primarily focused on alcoholic beverages. They provide the largest assortment of beers in the country, and a growing number of specialty spirits. Including the best-selling brands.



### 25 Sakata Lane

### Lakeside Organics

Agriculture distribution with 100 trucks daily and 13,000 pounds of ammonia onsite at all times.





# Incompatible with Adjacent Residential/Business Stakeholders - Traffic Congestion, Parking Impact, and Nuisances

## TRAFFIC

- LEVEL F CONGESTION
- UNSAFE DROP-OFF AND PICK-UP LOCATIONS
- BLOCKED DRIVEWAYS
- INCOMPETENT CROSSING GUARDS



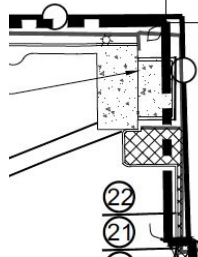
## PARKING

- USURPED BY CEIBA STAFF AND STUDENTS
- PARENTS ROUTINELY DOUBLE-PARK
- CITY WAIVED REQUIREMENTS



## NUISANCES:

- ODORS
- TRESPASSING
- VIOLENT BEHAVIOR (SPITTING ON AND TRIPPING NEIGHBORS)



TRASH ENCLOSURES  
ADJACENT TO RESIDENCES:  
CEIBA HAS FAILED TO  
PROPERLY SECURE AND  
MAINTAIN THEM

## MOBILE FOOD VENDOR VIOLATIONS IN THE EXCLUSION ZONE





# **Condition 28:**

## **Safe Routes to School (“SRTS”)**



# February 28, 2023

## **Description:**

City Staff Report Condition of Approval 28

## **Summary:**

Despite being sited in an industrial zone and having had the only student pedestrian accident in the PVUSD, Ceiba has implemented marginal Safe Routes to School plans, including photoshopping a walking map.

The City's Condition 28 continues to place students, neighborhood stakeholders, and all drivers who use public roadways in danger. It sets forth no minimum standards for Ceiba's SRTS and merely states that Ceiba needs to prepare one. There is no way to ensure that it is sufficient, especially given the dangers Ceiba presents to the community.

In fact, Ceiba's latest submission is the most dangerous to date. It shows students walking eastbound on Highway 129 towards Locust Street (which would only be via a parent dropping off/picking up a student in a 45 MPH zone). It also instructs parents to drive to Ceiba from Riverside Drive, which will result in parents dropping off/picking up students in the middle of the street or causing congestion by needing to make a left turn into the school facility.





## WALKING - CAMINANDO

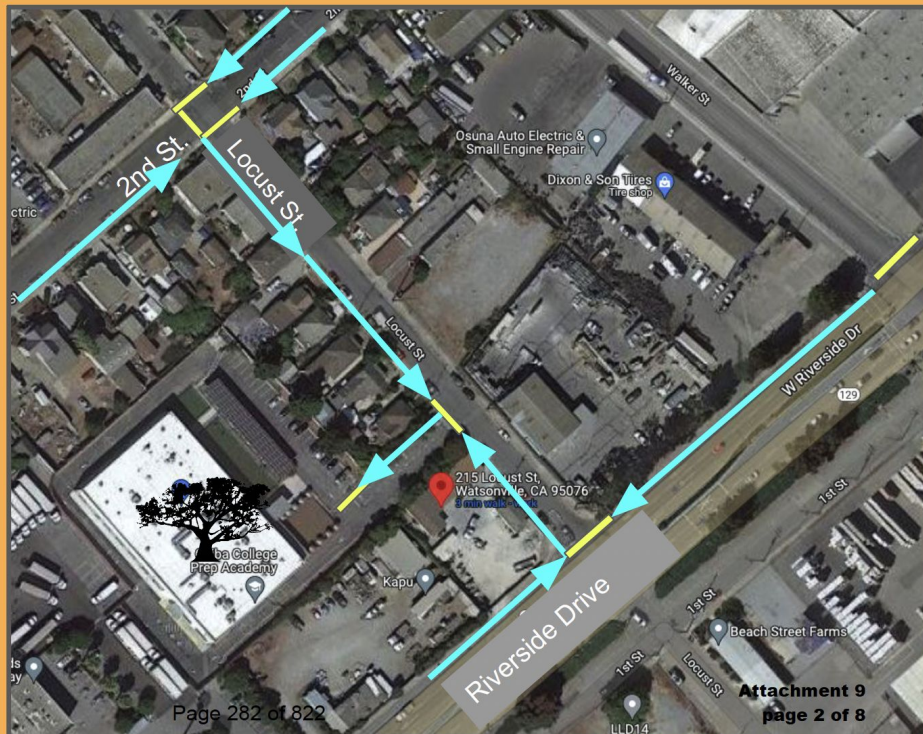
Cross at 2nd Street and Locust  
Cruce en 2nd Street y Locust

Cross at Riverside and Locust  
Cruz en Riverside y Locust

**DO NOT CROSS IN FRONT OF  
THE DRIVEWAY.  
NO CRUCE POR DELANTE DE  
LA CALZADA.**

Cross at Crosswalks - Cruce  
por los pasos de peatones

**(Yellow Lines  
Líneas amarillas)**



Attachment 9  
page 2 of 8  
Ceiba SSRT Slide 1 /Diapositiva 1



## DRIVING - CONDUCIR

Turn **right** into Ceiba.

Gire a la derecha en Ceiba.

Turn **right** out of Ceiba.

Gire a la derecha para salir de Ceiba.

Turn **right** onto Riverside Drive.

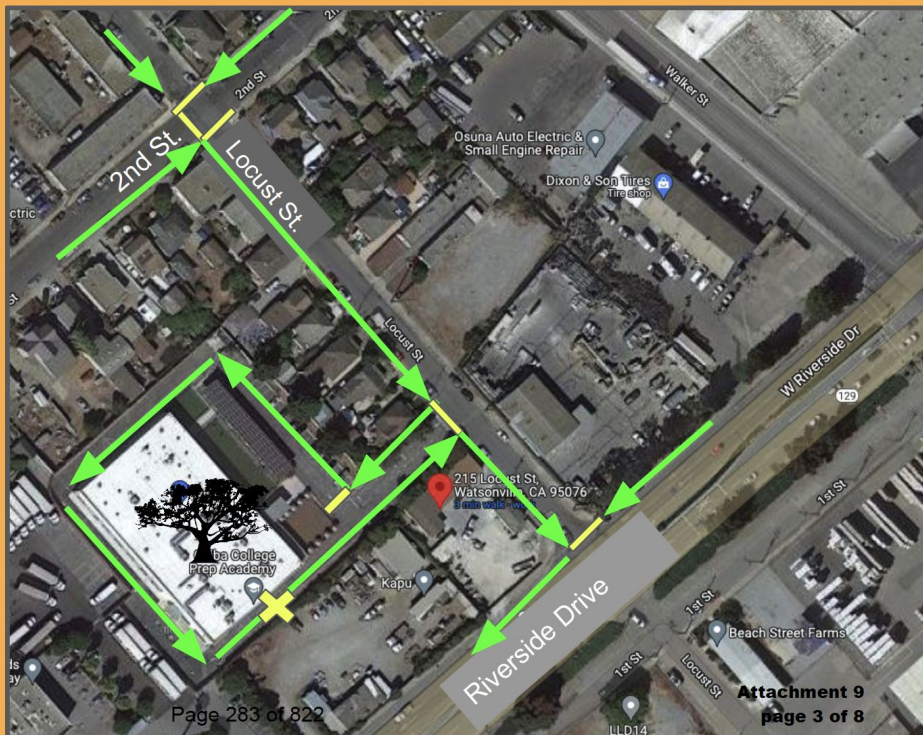
Gire a la derecha en Riverside Drive.

Please be extra cautious at the cross  
walks and follow the crossing guards at  
all times.

Por favor, extreme las precauciones en  
los pasos de peatones y siga a los  
guardias de cruce en todo momento.

Student drop-off and pick-up

Dejar y recoger a los estudiantes



Attachment 9  
page 3 of 8  
Ceiba SSRT Slide 2 /Diapositiva 2



# February 28, 2023

## Description:

Email dated July 18, 2022 from Katie Riutta from Hexagon Transportation Consultants (Hexagon) to Elizabeth Sanborn Falcon and Josh Ripp re Ceiba School Traffic Operations Study

## Summary:

In this email, Riutta highlights the biggest sources of congestion. The shortcomings in Conditions of Approval 28, 29, 30 and 46 will further contribute to the congestion.



**Katie Riutta**

July 18, 2022 at 10:49 AM

RE: Ceiba School Traffic Operations Study

To: Elizabeth Sanborn, Michelle Hunt, Cc: Josh Ripp

[Details](#)

Hi Elizabeth,

The two major sources of congestion were the student crossings and the double-parking. The left-turns into the site probably contributed a little to the congestion.

Can you please provide a name or location of the Rocketship school you are referencing? We have not been able to find any existing schools with drop off areas across the street.

Thank you,

**Katie Riutta**

Planner

**Hexagon Transportation Consultants, Inc.**

San Jose | Gilroy | Pleasanton

**NOTE NEW OFFICE ADDRESS:**

100 Century Center Court, Suite 501 | San Jose, California 95112  
phone 408.971.6100 | fax 408.971.6102 | direct 669.207.4505

**[www.hextrans.com](http://www.hextrans.com)**

Please consider the environment before printing this material.

[See More from Elizabeth Sanborn](#)



# **Condition 29:**

**Ongoing Reckless  
and Irresponsible Use  
of a High Speed  
Facility (Highway 129)  
for Student Drop-off  
and Pick-up**



In addition, the Head of School Josh Ripp has proposed establishing a policy intended to prohibit parents from dropping off or picking up students along Riverside Drive (SR 129), which has been added to Condition of Approval No. 29 as follows:

- 29. On- and Off-Site Traffic Circulation.** School Administration staff shall prioritize management of traffic flow to and from the site during student drop off and pick up. School staff, crossing guards and volunteers shall adhere to the SRTS plan to ensure appropriate onsite drop off and pick up locations. School staff, crossing guards and volunteers shall also ensure queuing of vehicles onsite and that traffic does not back up onto City streets, thereby avoiding causing traffic congestion and unsafe conditions. Any issues arising from poor traffic control, due to Ceiba's management of traffic flow, shall be remedied by the school upon notification from City staff.

School Administration staff will institute a policy that no student drop off or pick up is to take place along Riverside Drive. (CDD-P, PWD)



# February 28, 2023

## **Description:**

City Staff Report Condition of Approval 29

## **Summary:**

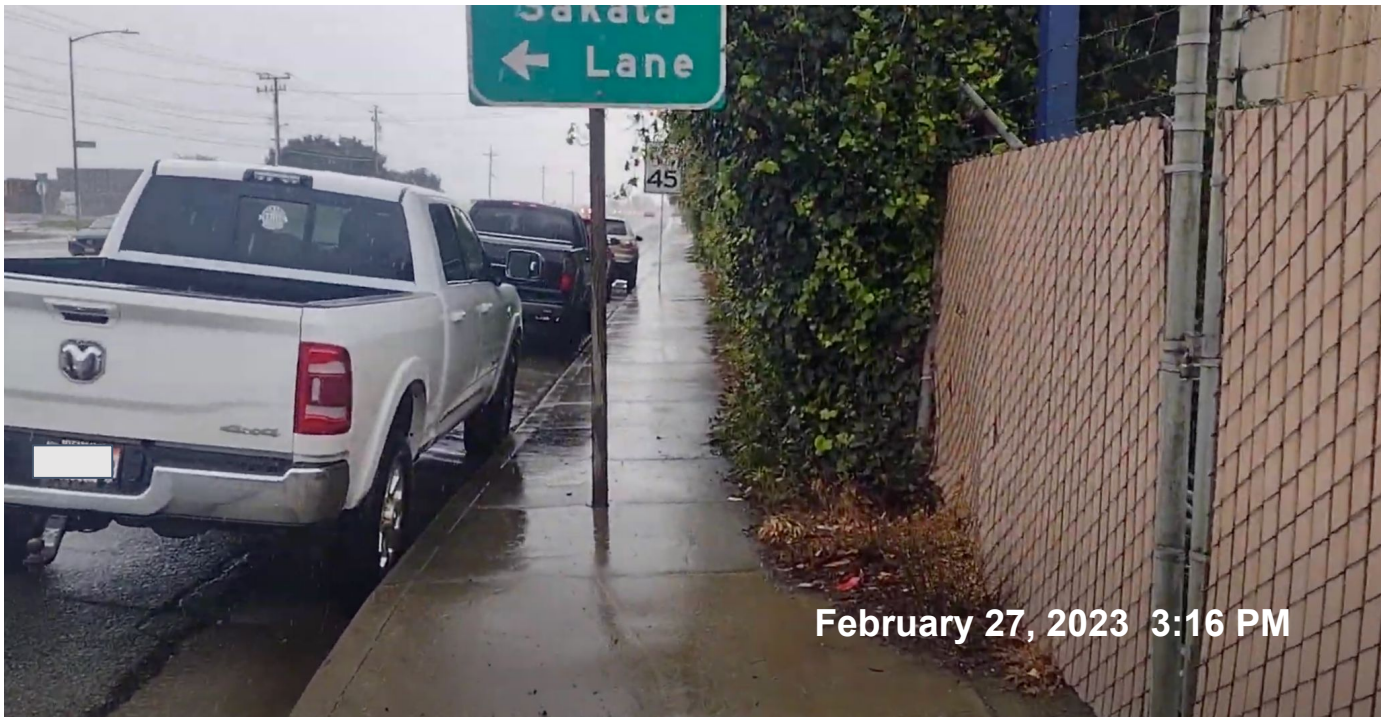
This condition, as written, is completely unenforceable and dangerous. Principal Josh Ripp stated to the **Pajaronian** that beginning February 21st, the School has instructed parents to stop using Highway 129. However, parents still drop off/pick up students here. Moreover, the City and School have failed to provide an alternative to the reckless and irresponsible pick-up and drop-off protocol. Given that the traffic loop has never worked and and alternative drop-off and pick-up locations have not had any traffic analyses, this is a serious issue which will inevitably result in significant traffic congestion to the community.

Also, parents continue to block driveways and drop off and pick up students in the middle of the street.





February 27, 2023 3:16 PM



February 27, 2023 3:16 PM



# September 29, 2022

## Description:

During the September 29, 2022 Information and Listening Session, City Staff Applauded the New Drop-off and Pick-up Protocols (Highway 129 and other locations scattered across the industrial zone).

## Summary:

“I want to say that we have been working with the school and **we have been seeing all of the improvements that have been made, especially in dropping off and picking up your kids in the morning**, so I want to thank you all for that. Let’s keep it up let’s keep up the good work.” - Suzi Merriam  
(Emphasis added)



# February 24, 2023

## **Description:**

Traffic Reports submitted by **registered traffic engineers** James Jeffery and Grant Johnson on February 24, 2023

## **Summary:**

These two traffic reports highlight the history and dangers of Ceiba's placement in an industrial zone. Of particular note is the crosswalk on Highway 129, which poses a threat to students, neighborhood stakeholders, and all drivers traveling on Highway 129. These traffic studies are in the Agenda Packet.



# October 3, 2022

## **Description:**

Email exchanges dated October 3, 2023 with Adolfo Gonzalez, Murray Fontes, and Maria Esther Rodriguez regarding Thursday, 09/29 CEIBA Mtg

## **Summary:**

These email exchanges discuss the safety question regarding Highway 129, which was posed during the September 29, 2022 City of Watsonville and Ceiba Co-Sponsored “Information and Listening Session.”

In this exchange, Gonzalez states that the question regarding the safety and appropriateness of the student drop-off and pick-up location on a State Highway was a “baited question.”

The exchanges also refer to the citizens concerned about the safety of the community as “non-supportive residents.”

Given the history and mindset of City Staff, we anticipate enforcement of Highway 129 to be non-existent, despite the severe and imminent threat to all travelers in the Monterey Bay region.



**From:** [Murray Fontes](#) on behalf of [Murray Fontes <murray.fontes@cityofwatsonville.org>](#)  
**To:** [Adolfo Gonzalez](#)  
**Cc:** [Maria Esther Rodriguez](#)  
**Subject:** Re: Thursday, 09/29 CEIBA Mtg  
**Date:** Monday, October 3, 2022 9:02:24 AM

---

Adolfo,

Thanks for the prompt response and the suggestion about the traffic report by the non-supportive residents. If you have a copy of the report, can you share it with me? If you don't have a copy, do you know who we could contact to get one?

Murray Fontes

On Mon, Oct 3, 2022 at 8:58 AM Adolfo Gonzalez  
<[adolfo.gonzalez@cityofwatsonville.org](mailto:adolfo.gonzalez@cityofwatsonville.org)> wrote:

>  
> Hello Murray,  
> I did attend the CEIBA informational meeting in case there were any traffic related questions that came up. There was only one question related to the safety of Riverside Dr. It was more of a "baited" question. No follow up items from traffic at this time.  
>  
> When CEIBA does go before the City Council I think we need to be prepared to respond to questions or comments related to the traffic report from the non-supportive residents.  
>

>  
>  
>  
> Adolfo Gonzalez  
> Traffic Operations Manager  
> Public Works & Utilities  
> 320 Harvest Drive  
> Watsonville, CA 95076  
>  
> 831-768-3140  
> [adolfo.gonzalez@cityofwatsonville.org](mailto:adolfo.gonzalez@cityofwatsonville.org)  
>  
>

> On Mon, Oct 3, 2022 at 8:52 AM Murray Fontes <[murray.fontes@cityofwatsonville.org](mailto:murray.fontes@cityofwatsonville.org)> wrote:

>>  
>> Adolfo & Maria Esther,  
>>  
>> I understand that Adolfo attended the Thursday, 09/29 CEIBA mtg in the  
>> City's Community Room. I appreciate that he did so and would like to  
>> know if there are any followup items for our group?  
>>  
>> Murray Fontes



# **Condition 35:**

**Ongoing Reckless  
and Irresponsible Use  
of Highway 129,  
a Highspeed Facility,  
for Student Drop-off  
and Pick-up**



35. **Caltrans Facilities Enhancements: Riverside Drive School Zone Signs, Accessible Ramps, and Crosswalk Upgrades.** Due to the proximity of the school to the State Route 129, School Administration staff shall submit an Encroachment Permit to Caltrans within 12 months of the approval of the Special Use Permit for (a) establishing of a School Zone on Riverside Drive, (b) upgrading existing crosswalk(s) at Riverside Drive and Walker Street to school crosswalks, and (c) upgrading existing ramps at Riverside Drive and Locust Street, (d) installing high-visibility crosswalks and curb extensions at Riverside Drive and Menker Street to meet current ADA standards, and (e) establishing a no-parking zone on Riverside Drive between Walker Street and Locust Street. (Caltrans, PWD)



# February 28, 2023

## **Description:**

City Staff Report Condition of Approval 35

## **Summary:**

This condition promotes significant danger on Highway 129. It establishes a no-parking zone on Highway 129 between Walker Street and Locust Street, but fails to address Highway 129 from Locust Street to Harvest Drive. This area is a marked 45 MPH zone, which is where many Ceiba parents drop off and pick up their students, posing a significant danger to all students, neighboring stakeholders, and any drivers traveling on public roadways.



# **Condition 30:**

# **Crossing Guard Training**



# February 28, 2023

## Description:

City Staff Report Condition of Approval 30

## Summary:

Ceiba's crossing guards have been an ongoing danger to the students, neighborhood stakeholders, and all drivers using public roadways. The Condition requires training of crossing guards, but fails to set forth any standards for that training. There is no way to ensure that the training will be even marginally adequate. Moreover, crossing guards are rarely placed on Walker Street, which is the street where two Ceiba students were hit in the industrial zone.

30. **Pedestrian Guard Training.** School Administration staff shall provide annual training for school staff and any volunteers serving as crossing guards. Crossing guards shall adhere to SRTS plan. Copies of individual crossing guard training certificate(s) shall be provided to City staff, upon request. Information on training can be found at <http://www.casaferoutestoschool.org/adult-crossing-guard-training/>. (CDD-P, PWD)



# February 28, 2023

## Description:

Pajaronian Issue for March 3-9 showing the crossing guard doing nothing as parents pick-up students in the middle of a street on a rainy day.

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## CITY



**SPEAKING OUT** A large crowd representing both Ceiba College Preparatory Academy on Locust Street and its neighbors shows up for a Watsonville City Council meeting Tuesday.

## CEIBA TO STAY

### COUNCIL GRANTS SCHOOL PERMANENT STATUS

By TODD GUILD  
OF THE PAJARONIAN

**WATSONVILLE**—In a 4-3 vote Tuesday after a marathon six-hour meeting that drew hundreds of people, the Watsonville City Council approved an update to the City's general plan and a zoning change that will allow Ceiba College Preparatory Academy to remain permanently at its location in an industrial zone at 215 Locust St.

Councilmembers Ari Parker, Casey Clark and Vanessa Quiroz-Carter dissented.

The Council also approved a special use permit for the school, but added the condition that the school create

→ See CEIBA, 7



**SCHOOL'S OUT** Locust Street in Watsonville is a jumble of motor traffic and pedestrians, many of them Ceiba College Preparatory Academy students, Tuesday as class lets out.

## WEATHER

## Drought gets a soaking

By TARMO HANNULA  
OF THE PAJARONIAN

**CENTRAL COAST**—Forty percent of Santa Cruz County has now been deemed drought-free due to the rains that have drenched the Central Coast since the year began.

Meanwhile, 17% of California is now out of drought conditions following a federal drought monitoring program's report Thursday.

The U.S. Drought Monitor, which is produced by the National Drought Mitigation Center at the University of Nebraska-Lincoln, the National Oceanic and Atmospheric Administration and the U.S. Department of Agriculture, said that a little more than 60% of Santa Cruz County is considered "abnormally dry."

Monterey County has fared even better, officials said, with 73% listed drought-free.

In 2022 around this time, Santa Cruz County was experiencing "severe drought,"

→ See WEATHER, 12



**CHILLY DAYS** A motorist passes snow that has been heaped up by snowplows along Summit Road in the Santa Cruz Mountains.

## EDUCATION



# **Condition 46:**

# **Bicycle Program**



# February 28, 2023

## Description:

City Staff Report Condition of Approval 46

## Summary:

There are no bicycle lanes on Highway 129 or Locust Street. The Hexagon Traffic Operations Study dated June 2022 only showed one bicyclist entering the school.

Moreover, as reflected in James Jeffery's Traffic Report dated February 21, 2023, students illegally ride bicycles on the sidewalk and do not wear helmets, creating a dangerous situation for students, neighborhood stakeholders, and all drivers traveling on public roadways.

46. **Bicycle Program.** To encourage more students and staff to ride bicycles, School Administration staff shall implement a free bikeshare program and/or provide free bicycles to students. Ceiba School currently provides bike racks located at the front entrance with a capacity of 30 bikes. During Hexagon's field observations, seven bikes were observed parked on the racks during the school day. As of May 2022, school staff reported that at most 15 to 20 people have been observed to bike to school. (CDD-P)



# **Condition 33:**

**This Work Has  
Already been Done  
Without an Architect  
or Permit**



# February 28, 2023

## Description:

City Staff Report Condition of Approval 33

## Summary:

33. **Accessible Path-of-Travel.** School Administration staff shall provide an accessible route from Locust Street to the school building within 12 months of the approval of the Special Use Permit. Pursuant to CBC Chapter 11A, Section 1116A.5, when a walk crosses or adjoins a vehicular way, the walking surface shall be separated from the vehicular area by curbs, railings or other elements, or the boundary between the pedestrian areas and the vehicular areas shall be defined by a continuous detectable warning 36 inches wide minimum. In accordance with the recommendations in the Traffic Operations Study prepared by Hexagon (dated June 8, 2022), the school shall install a raised sidewalk in place of the striped pedestrian pathway along the north side of the school driveway. Site work requires issuance of building permit and inspection by a Building Inspector. Any work in the public right-of-way shall require a separate encroachment permit from the Public Works and Utilities Department.  
(CDD-B-E)

The following photos illustrate that this work was in progress in July 2022.



July 28, 2022  
7:40 AM

Construction project  
at 215 Locust Street





July 28, 2022  
7:40 AM

Construction project  
at 215 Locust Street





July 28, 2022  
7:40 AM

Construction project  
at 215 Locust Street





July 28, 2022  
12:26 PM

Construction project  
at 215 Locust Street





July 28, 2022  
6:43 PM

Construction project  
at 215 Locust Street





# July 29, 2022

## Description:

Email dated July 29, 2022, between Nick Bulaich and Suzi Merriam and Justin Meek re Ceiba construction work

## Summary:

----- Forwarded Message -----

**From:** Suzi Merriam <[suzi.merriam@cityofwatsonville.org](mailto:suzi.merriam@cityofwatsonville.org)>  
**To:** nick bulaich <[princelazar1389@yahoo.com](mailto:princelazar1389@yahoo.com)>  
**Cc:** Justin Meek <[justin.meek@cityofwatsonville.org](mailto:justin.meek@cityofwatsonville.org)>  
**Sent:** Monday, August 1, 2022 at 08:45:40 AM PDT  
**Subject:** Re: Ceiba construction work

Hi Nick-  
Thanks for letting us know.

On Fri, Jul 29, 2022 at 5:22 PM nick bulaich <[princelazar1389@yahoo.com](mailto:princelazar1389@yahoo.com)> wrote:

Dear Suzi & Justin: I have observed for the past couple of days that construction work has been done at the Ceiba site.

I understand that Ceiba can spend money however they see fit, but when the school has not received the permanent zoning change they are looking for, yet are spending money for improvements, what are we in the neighborhood supposed to think? What else can I say, but it sure looks to me like we're right back to an "environmental justice" issue where a well-funded entity simply spends money for improvements to use as a justification in trying to "encourage" the City to approve a permanent zoning change for a property that apparently started with an improperly approved, temporary zoning change.

Although the issue has yet to be decided by the City Council, for a lifelong resident of the westside who has seen similar things over the years, the optics of this are looking horrible.

Nick Bulaich



**Suzi Merriam**

Community Development  
Department Director

831. 768.3050

250 Main Street  
Watsonville CA, 95076



# August 9, 2022

## Description:

YouTube video from **Ceiba's Board Meeting** [Start at 8:20]  
<https://www.youtube.com/watch?v=fl7pg3TVM5o>

## Summary:

During this meeting, former Ceiba Operations Manager Daniel Ornelas discusses the latest facility construction work with Ceiba's Board.

“On top of that, we got some work done on the exterior of our facility, some work that will help us with some of the requirements that the City would like for us to do for that permit. They poured a new sidewalk and curb for our students as well as this crosswalk area right here in front of our patio. So they they poured in did all this in a matter of a week and a half. They put the asphalt down.”



# August 9, 2022

## Description:

Slide from the Ops Report during the August 9, 2022 Ceiba Board Meeting

### Facility Upgrades





# August 23, 2022

## **Description:**

Letter dated August 23, 2022, from Rob Allen to Josh Ripp re accessibility improvements to Ceiba's site without the necessary building permits

## **Summary:**

In this letter, Assistant Community Development Director/Building Official Rob Allen, sent a letter to Josh Ripp regarding construction without necessary building permits. Allen notes that, "Failure to secure the required permits for such work places the school in severe liability and risk as well as completing this work without determining adopted code compliance."

Allen adds that "It is further understood that these actions may have caused a change to storm water drainage patterns on the property."

Allen concluded with, "Within 60 days, please submit plans tp [sic] legalize the walkway, or have the improvements removed."

It is unclear if Ceiba ever secured a permit.





## City of Watsonville

"A Community of Opportunities"

Date: Tuesday, August 23, 2022

To: Josh Ripp  
Head of School  
Ceiba College Prep  
215 Locust St  
Watsonville, CA 95076  
(831) 740-8786  
[josh.ripp@ceibaprep.org](mailto:josh.ripp@ceibaprep.org)

Dear Mr. Ripp,

It has come to my attention that the Ceiba School has recently made accessibility improvements to your site without the necessary building permits as would have been required by the City's adopted 2019 California Building Code standards, specifically section 11B. Failure to secure the required permits for such work places the school in severe liability and risk as well as completing this work without determining adopted code compliance.

Let this letter serve as notice that you have conducted work that requires a building permit at a minimum to determine compliance with adopted Building, Zoning, and Public Works standards. It is further understood that these actions may have caused a change to storm water drainage patterns on the property.

Next Steps: To bring these improvements into compliance, a California licensed design professional (Architect or Engineer) is required to develop a set of plans that show compliance with section 11B of the adopted 2019 California Building Code standards, and any other City regulations. Your Architect or Engineer shall apply for a building permit and submit the plans for plan review.

Within 60 days, please submit plans to legalize the walkway, or have the improvements removed. Please contact us should you desire to make any additional improvements in the future before the work is performed to ensure that the school ensures compliance with all local codes and ordinances. My contact information may be found below.

Thanks,

Rob Allen  
Assistant Community Development Director/Building Official  
250 main Street  
City of Watsonville, CA. 95076  
831-768-3065  
[rob.allen@cityofwatsonville.org](mailto:rob.allen@cityofwatsonville.org)

☎ 831-768-3010  
✉ [citymanager@cityofwatsonville.org](mailto:citymanager@cityofwatsonville.org)  
🌐 org

📍 Administration  
275 Main Street, Suite 400  
Watsonville, CA 95076



# September 13, 2022

## **Description:**

Emails dated September 13, 2022, between Lou Bartlett, Josh Ripp and Elizabeth Sanborn re Check-in Encroachment Permits

## **Summary:**

In these exchanges Ceiba Architect Lou Bartlett noted he was unaware of Ceiba's construction on the main entry. The letter includes a reference to Sherry Selden, an employee at Selden & Sons, who noted that the "City Bldg. Dept. was not told about the new walkway."

Bartlett also indicated that that he would meet with Sherry and Will Selden to "see the installation and help decide how to proceed with the City whom I think they are in contact with regarding establishing an "after the fact" permit for what they did.



**From:** Elizabeth Sanborn Falcon esanborn@pacbell.net  
**Subject:** RE: Check-in Encroachment Permits  
**Date:** September 13, 2022 at 3:08 PM  
**To:** Josh Ripp josh.ripp@ceibaprep.org, Lou Bartlett loub@wrdarch.com  
**Cc:** Daniel Ornelas daniel.ornelas@ceibaprep.org

ES

Hi Josh, I should probably jump in here. In looking at this further, Lou and I determined that the permit applications need to include working drawings and need to be submitted in the name of a licensed contractor, so Lou suggested that we revise the COA action plan to provide that the applications will be submitted within 60 days of council approval. Justin et al seem to be pk with this.

**Elizabeth Sanborn Falcon**  
**Benchmark Realty Advisors**  
**900 E. Hamilton Ave. Suite 100**  
**Campbell, CA 95008**

**408-885-1110 (Office)**  
**831-402-3900 (Cell)**  
**CA BRE# 00468326**

**From:** Josh Ripp <josh.ripp@ceibaprep.org>  
**Sent:** Tuesday, September 13, 2022 2:48 PM  
**To:** Lou Bartlett <loub@wrdarch.com>  
**Cc:** Daniel Ornelas <daniel.ornelas@ceibaprep.org>; Elizabeth Sanborn Falcon <esanborn@pacbell.net>  
**Subject:** Check-in Encroachment Permits

Good Afternoon Lou,

It has been a while since we communicated. I wanted to check in about your progress on writing the Ceiba encroachment permits for the construction of crosswalks around our 215 Locust St location. Have you been able to make any progress? Have you encountered any obstacles?

Please let me know.

Thank you!

**Josh Ripp**  
*Head of School*  
*Ceiba College Prep*  
*215 Locust St*  
*Watsonville, CA 95076*  
*(831) 740-8786*



**From:** Lou Bartlett loub@wrldarch.com  
**Subject:** RE: Check-in Encroachment Permits  
**Date:** September 13, 2022 at 3:49 PM  
**To:** Josh Ripp josh.ripp@ceibaprep.org  
**Cc:** Daniel Ornelas daniel.ornelas@ceibaprep.org, Elizabeth Sanborn Falcon esanborn@pacbell.net

LB

Hi Josh,

Hope all is well.

Coincidentally Sherry Selden called me at about the same time you emailed regarding the path of travel improvements they have done from Locust to the main entry, which was one of the Planning Department CUP items.

I was unaware of this construction.

She said a drawing for this is likely needed from us to satisfy the City Bldg. Dept. who was not told about the new walkway.

She also mentioned some fencing that needs to be done now before school opens.

I said I can meet her and Will at the school on Thursday morning at 9 am (9/15/22). Primarily this meeting would be for me to see the installation and help decide how to proceed with the City whom I think they are in contact with regarding establishing an "after the fact" permit for what they did.

Please let me know if this sounds OK and I will send an invite including you in case you are available.

Thanks

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**Lou Bartlett, AIA**  
**ASSOCIATE ARCHITECT**  
**WRD: WALD, RUHNKE & DOST ARCHITECTS, LLP**  
OFF. GENERAL: (831) 649-4642 x118  
**OFF. DIRECT : (831) 717-3409**  
C: (831) 620-5385

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**From:** Josh Ripp [mailto:josh.ripp@ceibaprep.org]  
**Sent:** Tuesday, September 13, 2022 3:19 PM  
**To:** Elizabeth Sanborn Falcon <esanborn@pacbell.net>  
**Cc:** Lou Bartlett <loub@wrldarch.com>; Daniel Ornelas <daniel.ornelas@ceibaprep.org>  
**Subject:** Re: Check-in Encroachment Permits

Got it. Thank you.

**Josh Ripp**  
*Head of School*



# **Ceiba's Construction Spending Campaign for Expansion Further Degrades Traffic, Parking, Safety, and Adversely Impacts the Neighborhood's Quality of Life and Property Usage**



# 2022-2023

## **Description:**

Ceiba Warrants from January 2022 to Present. These show the dollars spent even when the school had an expiring Conditional Use Permit

## **Summary:**

Ceiba spent nearly a nearly \$400,000 on construction with Selden & Sons, including unpermitted work.



**CEIBA Public School**  
**WARRANT REGISTER DETAIL: January 2022**

Check Number	Check Date	Vendor	Transaction Description	Total
121750	1/7/2022	Delta Managed Solutions, Inc	DMS January 2022 Business Services	\$ 10,816.00
121750 Total				\$ 10,816.00
121755	1/18/2022	Adriana San Millan School Psychology and Special Education Services, LLC	SpEd-ERMHS, Speech Services SpEd-Assessment Services	\$ 1,966.09 \$ 1,449.00
121755 Total				\$ 3,415.09
121756	1/18/2022	Alhambra	Water services	\$ 200.32
121756 Total				\$ 200.32
121757	1/18/2022	Association of California School Administrators	Monthly deduction for J. Ripp	\$ 121.50
121757 Total				\$ 121.50
121758	1/18/2022	City of Watsonville Utilities	Utilities-water line 110821-121021	\$ 183.46
121758 Total				\$ 183.46
121759	1/18/2022	Clear Thinking	Oct/Dec 2021 Consulting services for admin/board	\$ 1,125.00
121759 Total				\$ 1,125.00
121760	1/18/2022	Daniel Ornelas	Reim. for staff event purchase	\$ 50.24
121760 Total				\$ 50.24
121761	1/18/2022	Elevator Service Company of Central California, Inc	Monthly Contract Service Semi annual lube and inspection 11/23/21	\$ 275.00 \$ 350.00
121761 Total				\$ 625.00
121762	1/18/2022	Josh Ripp	Reim for staff event purchases	\$ 29.35
121762 Total				\$ 29.35
121763	1/18/2022	Lidia Silva	Reimb for uniforms purchases	\$ 100.00
121763 Total				\$ 100.00
121764	1/18/2022	MBS Business Systems	Qtrly copier maintenance	\$ 1,821.48
121764 Total				\$ 1,821.48
121765	1/18/2022	Measure Education Inc.	Data management services	\$ 1,329.88
121765 Total				\$ 1,329.88
121766	1/18/2022	Michael Rich	Reimb for office/teacher course supplies	\$ 22.48
121766 Total				\$ 22.48
121767	1/18/2022	Nob Hill Catering Inc.	NSLP-Meals December 2021	\$ 8,316.00
121767 Total				\$ 8,316.00
121768	1/18/2022	Pacific Coast Athletic League	Athletics-Winter 2021-2022	\$ 860.00
121768 Total				\$ 860.00
121769	1/18/2022	Pajaro Valley Printing	Printing of assesment reports	\$ 624.91
121769 Total				\$ 624.91
121770	1/18/2022	Paulina Gonzalez	Reim. for athletics purchase	\$ 130.77
121770 Total				\$ 130.77
121771	1/18/2022	PG&E	Utilities Nov/Dec 2021	\$ 8,086.45
121771 Total				\$ 8,086.45
121772	1/18/2022	Pure Janitorial	December 2021 Janitorial Serv/Fogging/supply Semi annual deep clean facility	\$ 6,317.89 \$ 1,600.00
121772 Total				\$ 7,917.89
121773	1/18/2022	Raquel Arenas-Humphrey	Reim for staff event purchase	\$ 306.05
121773 Total				\$ 306.05
121774	1/18/2022	Santa Cruz County Environmental Health Service	Health permit	\$ 388.00
121774 Total				\$ 388.00
121775	1/18/2022	Santa Cruz Fire Equipment Company	Fire Extinguisher services	\$ 432.94
121775 Total				\$ 432.94
121776	1/18/2022	Santa Cruz County Fair	Deposit for End of Year ceremonies	\$ 1,925.00
121776 Total				\$ 1,925.00
121777	1/18/2022	Santa Cruz Signs	Final pmt for school signage	\$ 2,940.03



121777 Total	1/18/2022	School Food Solutions LLC	FSA Service Nov 2021/LCFF support	\$ 2,940.03
121778 Total	1/18/2022	Screen Solutions	Final pmt for blinds installation in classrooms	\$ 2,192.95
121779 Total	1/18/2022	Selden & Son	Project service-Exterior bldg envelope work	\$ 6,342.00
121780 Total	1/18/2022	Shelly Perez	Reimbursement for Postage/snacks	\$ 6,964.00
121781 Total	1/18/2022	Staples Advantage	December 2021 office supplies	\$ 642.95
121782	1/18/2022	TIAA Commercial Finance, Inc.	November 2021 office supplies	\$ 146.37
121782 Total	1/18/2022	Time Warner Cable	Copier Lease	\$ 1,001.26
121783 Total	1/18/2022	Wald, Ruhnke & Dost Architects, LLP	ISP & Phone services 121421-011322	\$ 1,147.63
121784	1/18/2022	Young, Minney & Corr, LLP	Project management facility purchase	\$ 529.88
121784 Total	1/18/2022	Zoom Video Communications Inc.	Project management for electrical improvement	\$ 529.88
121785	1/18/2022	Issac Carrisales	Legal services Dec 21	\$ 3,828.02
121785 Total	1/18/2022	Airtec Service	Cloud Recording Services	\$ 2,000.00
121786 Total	1/18/2022	BSN Sports LLC	HVAC maintenance and materials	\$ 2,400.00
121787 Total	1/18/2022	Card Service Center	REQ-1129 January 2022 Credit Card Statement	\$ 4,400.00
121788 Total	1/20/2022	Central Coast Shipping & Screen	Uniform purchase	\$ 84.07
121789	1/24/2022	City of Watsonville Utilities	Utilities-Fire 121521-011222	\$ 42.20
121789 Total	1/24/2022	City of Watsonville Utilities	Utilities-water,server,waste 121021-010722	\$ 134.56
121790	1/24/2022	MBS Business Systems	Toner supply order	\$ 134.56
121791	1/24/2022	San Joaquin County Office of Education	EDJOIN annual fee for job posting	\$ 4,048.79
121791 Total	1/24/2022	Selden & Son	Maintenance services Dec-21	\$ 3,959.68
121792	1/24/2022	Spinnaker Ventures LLC	February 2022 Rent	\$ 2,824.86
121792 Total	1/24/2022	Sync - Amazon	Amazon prime membership renewal	\$ 2,292.93
121793	1/24/2022		Athletics-Basketball bags for teams	\$ 2,292.93
121793 Total	1/24/2022		Athletics-Basketball for teams	\$ 100.72
121794	1/24/2022		Athletics-Basketball for teams	\$ 100.72
121794 Total	1/24/2022		Classroom materials for math teacher	\$ 1,240.69
121795	1/24/2022		Earbuds for classrooms	\$ 1,240.69
121795 Total	1/24/2022		Face masks for students/staff	\$ 255.57
121796	1/24/2022		Outdoor lighting for exterior facility	\$ 1,200.00
121796 Total	1/24/2022		Science lab materials	\$ 1,200.00
121797	1/24/2022			\$ 1,709.47
121797 Total	1/24/2022			\$ 1,709.47
121798	1/24/2022			\$ 25,428.00
121798 Total	1/24/2022			\$ 25,428.00
121799	1/24/2022			\$ 140.93
				\$ 29.17
				\$ 170.23
				\$ 45.16
				\$ 238.04
				\$ 61.12
				\$ 123.11
				\$ 34.04



121799 Total						\$ 841.80
121800	1/24/2022	Wald, Ruhnke & Dost Architects, LLP	Project management services Dec 2021			\$ 1,600.00
121800 Total						\$ 1,600.00
121807	1/31/2022	Adriana San Millan School Psychology and Special Education Services, LLC	SpEd-Speech Services			\$ 698.75
121807 Total						\$ 698.75
121808	1/31/2022	Alhambra	Water services			\$ 85.42
121808 Total						\$ 85.42
121809	1/31/2022	City of Watsonville Utilities	Utilities-water line 121021-010722			\$ 366.92
121809 Total						\$ 366.92
121810	1/31/2022	California State University Monterey Bay	SpEd-Psychological Assessments			\$ 4,000.00
121810 Total						\$ 4,000.00
121811	1/31/2022	Delta Managed Solutions, Inc	DMS February 2022 Business Services			\$ 10,816.00
121811 Total						\$ 10,816.00
121812	1/31/2022	Melanie Larsen	Reim for art course material			\$ 607.77
			Reim for art curriculum			\$ 147.00
121812 Total						\$ 754.77
121814	1/31/2022	Time Warner Cable	ISP & Phone services 011422-021322			\$ 3,811.43
121814 Total						\$ 3,811.43
8045	1/27/2022	Onsite check	Basketball Tournament for Athletics			\$ 325.00
8045 Total						\$ 325.00
8048	1/21/2022	Onsite check	Permit for facility project Ref #2021-2743			\$ 559.00
8048 Total						\$ 559.00
ACH Debit	1/10/2022	California Dept. of Tax and Fee Administration	Use Tax Filing 010121-123121			\$ 8,802.49
			Use Tax Filing 010121-123121 - Variance			\$ 0.51
	1/25/2022	Santa Cruz County Bank - Loan #6830	Loan#6830 January 2022 ACH Pmt			\$ 35,491.65
ACH Debit Total						\$ 44,294.65
Grand Total						\$191,128.05



**CEIBA Public School  
WARRANT REGISTER DETAIL: February 2022**

Check Number	Check Date	Vendor	Transaction Description	Total
121815	2/3/2022	SISC III - Health Benefits	02/01/22 - 02/28/21 Coverage	\$ 46,945.55
121815 Total				\$ 46,945.55
121816	2/8/2022	BSN Sports LLC	Athletics-Basketball shotclock	\$ 1,219.91
121816 Total				\$ 1,219.91
121817	2/8/2022	Clifton Larson Allen LLP	Audit services	\$ 6,184.50
121817 Total				\$ 6,184.50
121818	2/8/2022	California State University Monterey Bay	SpEd-Psychological Assessments	\$ 1,000.00
121818 Total				\$ 1,000.00
121819	2/8/2022	EventScapes Inc.	End of year decor supply deposit	\$ 1,000.00
121819 Total				\$ 1,000.00
121820	2/8/2022	Pure Janitorial	January 2022 Janitorial/supply/fogging	\$ 7,981.58
121820 Total				\$ 7,981.58
121821	2/8/2022	Santa Cruz Live Scan, Inc.	Fingerprint Fees for staff	\$ 30.00
121821 Total				\$ 30.00
121822	2/8/2022	School Food Solutions LLC	FSA Services and mailings	\$ 572.56
121822 Total				\$ 572.56
121823	2/8/2022	Ventana Wilderness Alliance	Refundable security deposit for student field trip	\$ 500.00
121823 Total				\$ 500.00
121824	2/8/2022	Zoom Video Communications Inc.	Cloud Recording Services	\$ 42.20
121824 Total				\$ 42.20
121825	2/10/2022	Employment Development Department	EDD-LEC charges 12/31/2021	\$ 51.90
121825 Total				\$ 51.90
121828	2/14/2022	Adriana San Millan School Psychology and Special Education Services, LLC	SpEd-Speech Services	\$ 1,188.95
			SpEd-ERMHS Services	\$ 187.50
			SpEd-Psych eval services	\$ 1,495.00
121828 Total				\$ 2,871.45
121829	2/14/2022	Association of California School Administrators	Membership dues Feb-22 J. Ripp	\$ 121.50
121829 Total				\$ 121.50
121830	2/14/2022	Disney Destinations LLC	ASB-Grad Nite for senior trip	\$ 6,069.00
121830 Total				\$ 6,069.00
121831	2/14/2022	DJ Julio Ent	ASB-DJ Services for middle school dance	\$ 350.00
121831 Total				\$ 350.00
121832	2/14/2022	Elevator Service Company of Central California, Inc	Monthly Contract Service	\$ 275.00
			Semi annual lube and inspection 012122	\$ 365.00
121832 Total				\$ 640.00
121833	2/14/2022	MBS Business Systems	Qtrly copier maintenance	\$ 773.14
121833 Total				\$ 773.14
121834	2/14/2022	Michael Rich	Reimb.for technology purchase	\$ 98.28
121834 Total				\$ 98.28
121835	2/14/2022	Nob Hill Catering Inc.	NSLP-Meals January 2022	\$ 8,190.00
121835 Total				\$ 8,190.00
121836	2/14/2022	Pacific Coast Athletic League	Athletics-Spring 2022	\$ 730.00
121836 Total				\$ 730.00
121837	2/14/2022	Paulina Gonzalez	Reim. for athletics purchase	\$ 272.20
121837 Total				\$ 272.20
121838	2/14/2022	Securanty, Inc.	Chronebook insurance for new students	\$ 239.80
121838 Total				\$ 239.80
121839	2/14/2022	Selden & Son	Maintenance services Jan-22	\$ 3,640.89
121839 Total				\$ 3,640.89
121840	2/14/2022	Shannon Parsons	Mileage reimbursement-January 22	\$ 30.20
121840 Total				\$ 30.20



121840 Total				\$ 30.20
121841	2/14/2022	TIAA, FSB	Copier Lease	\$ 529.88
121841 Total				\$ 529.88
121842	2/14/2022	York School	Athletics-Rental fee for facility use	\$ 250.00
121842 Total				\$ 250.00
121843	2/14/2022	Young, Minney & Corr, LLP	Legal services Jan 22	\$ 112.10
121843 Total				\$ 112.10
121845	2/22/2022	Carlos Garcia-Avelar	Athletics-Reim for end year event	\$ 42.91
121845 Total				\$ 42.91
121846	2/22/2022	Elevator Service Company of Central California, Inc	Semi annual lube and inspection 012122	\$ 365.00
121846 Total				\$ 365.00
121847	2/22/2022	PVUSD	PVUSD Quarterly Loan Pymt.31	\$ 52,256.03
121847 Total				\$ 52,256.03
121848	2/22/2022	Raquel Arenas-Humphrey	Reimb for postage for attendance letters	\$ 250.60
121848 Total				\$ 250.60
121849	2/22/2022	Riverside Insights	SpEd-Assessment toolkit	\$ 4,627.94
121849 Total				\$ 4,627.94
121850	2/22/2022	Spinnaker Ventures LLC	March 2022 Rent	\$ 25,428.00
121850 Total				\$ 25,428.00
121851	2/22/2022	Staples Advantage	January 2022 office supplies	\$ 1,276.76
121851 Total				\$ 1,276.76
121852	2/22/2022	Sync - Amazon	Facilities-masks for students	\$ 112.36
			Facilities-water filters	\$ 366.29
121852 Total				\$ 478.65
121853	2/22/2022	The Plumbing Company	Facilities-plumbing work order	\$ 225.00
121853 Total				\$ 225.00
121855	2/28/2022	Alhambra	Water services	\$ 223.30
121855 Total				\$ 223.30
121856	2/28/2022	Blue Ocean Whale Watch	Field trip for Marine Science	\$ 3,000.00
121856 Total				\$ 3,000.00
121857	2/28/2022	City of Watsonville Utilities	Utilities-Fire 011222-021622	\$ 100.72
121857 Total				\$ 100.72
121858	2/28/2022	City of Watsonville Utilities	Utilities-water, sewer, waste 010722-021522	\$ 1,398.53
121858 Total				\$ 1,398.53
121859	2/28/2022	Clifton Larson Allen LLP	Audit services	\$ 840.00
121859 Total				\$ 840.00
121860	2/28/2022	First Alarm	Qtrly monitoring services	\$ 1,370.73
			adress faulted wiring	\$ 986.25
121860 Total				\$ 2,356.98
121861	2/28/2022	MBS Business Systems	Qtrly copier maintenance	\$ 1,023.92
121861 Total				\$ 1,023.92
121862	2/28/2022	PG&E	Utilities Jan 2022	\$ 4,556.21
121862 Total				\$ 4,556.21
121863	2/28/2022	School Food Solutions LLC	FSA Services and mailings	\$ 644.56
121863 Total				\$ 644.56
121864	2/28/2022	Technical Safety Services	Facilities-fume hood testing for science lab	\$ 604.00
121864 Total				\$ 604.00



121865	2/28/2022	Tri County Trophy and Engraving	Athletics-Winter sports awards	\$ 561.55
121865 Total				\$ 561.55
121866	2/28/2022	Wald, Ruhnke & Dost Architects, LLP	Project management facility purchase	\$ 2,675.00
121866 Total				\$ 2,675.00
8001	2/22/2022	Onsite check	Manual Check #8001-Pacific Coast Ath.-NFHS Rule Book	\$ 108.00
8001 Total				\$ 108.00
8046	2/16/2022	Onsite check	Manual Check #8046-CIF winter sport fees	\$ 320.00
8046 Total				\$ 320.00
8050	2/3/2022	Onsite check	SDCOE - FCMAT Training Inv #099-036666	\$ 25.00
8050 Total				\$ 25.00
ACH Debit	2/24/2022	Santa Cruz County Bank - Loan #6830 (blank)	Loan#6830 February 2022 ACH Pmt	\$ 35,491.65
		(blank)	Arbitrpay for referees	\$ 3,011.50
	2/25/2022	(blank)	Wire Transfer - 215 Locus Street File #NCS-1061421-SC (TM)	\$ 150,000.00
ACH Debit Total				\$ 188,503.15
Grand Total				\$ 382,338.45



**CEIBA Public School  
WARRANT REGISTER DETAIL- March 2022**

Check Number	Check Date	Vendor	Transaction Description	Total
121869	3/7/2022	Adriana San Millan School Psychology and Special Education Services, LLC	SpEd-Psych eval IEP services	\$ 1,694.00
121870	3/7/2022	Cara Galleher	Reimb. for classroom/instruct. materials	\$ 405.27
121871	3/7/2022	Delta Managed Solutions, Inc.	DMS March 2022 Business Services	\$ 10,816.00
121872	3/7/2022	Development Group Inc.	10 Year SV11 License/camera Cabeling/construction-Cameras Subscription license-1 camera Technology-environmental sensors	\$ 8,998.22 \$ 4,419.38 \$ 7,900.94 \$ 3,069.38
121872 Total				\$ 24,387.92
121873	3/7/2022	Emily Chavez-Uribe	Athletics-Supplies for end of season banquet	\$ 88.29
121874	3/7/2022	Measure Education Inc.	Data management services	\$ 1,329.88
121875	3/7/2022	Michael's Transportation Service Inc.	Environmental science field trip	\$ 1,329.88
121876	3/7/2022	Nob Hill Catering Inc.	NSLP-Meals February 2022	\$ 1,010.00
121877	3/7/2022	Paulina Gonzalez	Athletics-Reimb. for soccer balls Athletics-Reimb. for soccer jersey screenprinting	\$ 10,112.35 \$ 392.40
121877 Total				\$ 360.00
121878	3/7/2022	Pure Janitorial	February 2022 Janitorial/supply/fogging	\$ 752.40
121879	3/7/2022	Santa Cruz County Office of Education	2021-22 SC/SVNTIP Induction Prog-Mentor Program	\$ 9,161.27
121880	3/7/2022	Santa Cruz Live Scan, Inc.	Fingerprint Fees for staff	\$ 31,200.00
121881	3/7/2022	Watsonville High School	Athletics-Rental fee for facility use	\$ 30.00
121884	3/15/2022	Adriana San Millan School Psychology and Special Education Services, LLC	SpEd-ERMHS/Speech/Counseling Services SpEd-Translation services	\$ 4,499.00 \$ 3,111.42
121884 Total				\$ 400.00
121885	3/15/2022	Pure Janitorial	Supply Ordering	\$ 3,511.42
121886	3/15/2022	Rosario Ortega Infante	Reim for MS Awards fair supply purchase	\$ 325.00
121887	3/15/2022	Skye Marquez	Reimb. for career fair purchases	\$ 259.96
121887 Total				\$ 54.60
121888	3/15/2022	Sports Design Screen Printing	Athletics-Track Uniforms	\$ 1,339.41
121889	3/15/2022	Sync - Amazon	Classroom materials for Art Covid Signage Headphones for classroom PBIS Supply purchase Staff lounge supplies	\$ 76.22 \$ 24.02 \$ 149.78 \$ 344.41 \$ 75.70
121889 Total				\$ 670.13
121890	3/15/2022	TIAA Commercial Finance, Inc.	Contract #20433170 Copier Lease	\$ 529.88
121891	3/15/2022	Young, Minney & Corr. LLP	Legal services Feb 22	\$ 334.40



121891 Total	3/18/2022	Adriana San Millan School Psychology and Special Education Services, LLC	SpEd-ERMHS/Speech services	\$ 334.40
121892				\$ 565.08
121892 Total	3/18/2022	ALASKAN NETS Movie, LLC	Athletics-Movie purchase for fundraiser	\$ 565.08
121893				\$ 20.00
121893 Total	3/18/2022	Carolina Biological Supply Company	Science lab material	\$ 1,108.31
121894				\$ 1,108.31
121894 Total	3/18/2022	California State University Monterey Bay	SpEd-Psychological Assessments	\$ 3,005.00
121895				\$ 3,005.00
121895 Total	3/18/2022	Daniel Ornelas	Reim. for staff event snacks	\$ 35.66
121896				\$ 35.66
121896 Total	3/18/2022	School Food Solutions LLC	FSA Services	\$ 504.45
121897				\$ 504.45
121897 Total	3/18/2022	Shirley De Leon	Reim. for staff event snacks	\$ 121.14
121898				\$ 121.14
121898 Total	3/18/2022	Spinnaker Ventures LLC	April 2022 Rent	\$ 25,428.00
121899				\$ 25,428.00
121899 Total	3/18/2022	State California Department of Justice	Fingerprint service for staff	\$ 49.00
121900				\$ 49.00
121900 Total	3/18/2022	Time Warner Cable	ISP & Phone services 021422-031322	\$ 3,818.02
121901				\$ 3,818.02
121901 Total	3/18/2022	Wald, Ruhnke & Dost Architects, LLP	Project management serv. Electrical upgrade	\$ 694.08
121902				\$ 694.08
121902 Total	3/24/2022	Adriana San Millan School Psychology and Special Education Services, LLC	SpEd-Speech Services	\$ 1,495.00
121903				\$ 1,495.00
121903 Total	3/24/2022	Central Coast Shipping & Screen	SpEd-ERMHS/Speech services	\$ 447.50
121904				\$ 447.50
121904 Total	3/24/2022	Alhambra	Water services	\$ 1,942.50
121905				\$ 223.30
121905 Total	3/24/2022	Carolina Biological Supply Company	Science lab material	\$ 223.30
121906				\$ 618.09
121906 Total	3/24/2022	City of Watsonville Utilities	Athletics-uniforms screen printing fees	\$ 360.00
121907				\$ 3,720.81
121907 Total	3/24/2022	City of Watsonville Utilities	Uniform order	\$ 3,720.81
121908				\$ 100.72
121908 Total	3/24/2022	City of Watsonville Utilities	Utilities-Fire 021622-031622	\$ 100.72
121909				\$ 1,353.59
121909 Total	3/24/2022	City of Watsonville Utilities	Utilities-water,sewer,waste 021522-031422	\$ 1,353.59
121910				\$ 183.46
121910 Total	3/24/2022	K & D Landscaping, Inc.	Utilities-water line 021522-031422	\$ 183.46
121911				\$ 1,437.38
121911 Total	3/24/2022	Raquel Arenas-Humphrey	Landscape design services	\$ 1,437.38
121912				\$ 272.80
121912 Total	3/24/2022	Time Warner Cable	Reimb for postage	\$ 272.80
121913				\$ 3,818.07
121913 Total	3/28/2022	Karen Cortez	ISP & Phone services 031422-041322	\$ 3,818.07
8002				\$ 8.63
8002 Total	3/8/2022	Onsite check	Reissue Stale Dated PR ckl#121720	\$ 8.63
8005				\$ 920.00
8005 Total	3/31/2022	Onsite check	Manual Check #8002-Michaels Transportation-field trip	\$ 920.00
ACH Debit				\$ 2,323.23
ACH Debit Total	3/18/2022	Card Service Center	Manual chk #8005-Inv #31922 Appraisal for 228 & 234 Locust	\$ 2,323.23
				\$ 2,185.70
				\$ 3,137.10
				\$ 35,491.65
				\$ 150.00
				\$ 40,964.45
Grand Total				\$ 196,106.95



**CEIBA Public School**  
**WARRANT REGISTER DETAIL: April 2022**

Check Number	Check Date	Vendor	Transaction Description	Total
121918	4/6/2022	Adriana San Millan School Psychology and Special Education Services, LLC	SpEd-Psych eval/IEP services	\$ 593.75
121918 Total				\$ 593.75
121919			SpEd-ERMHS/Speech services	\$ 3,189.00
121919 Total				\$ 3,189.00
121920	4/6/2022	Cornerstone Earth Group, Inc.	215 Locust-Project services	\$ 2,420.00
121920 Total				\$ 2,420.00
121921	4/6/2022	Development Group Inc.	Camera installation	\$ 8,367.04
121921 Total				\$ 8,367.04
121922	4/6/2022	First Alarm	Qtrly monitoring services	\$ 134.69
121922 Total				\$ 134.69
121923	4/6/2022	GigaKOM	Tech-IT maintenance services	\$ 1,058.50
121923 Total				\$ 1,058.50
121924	4/6/2022	Shannon Parsons	Mileage reimbursement-Feb 22	\$ 40.25
121924 Total				\$ 40.25
121925	4/6/2022	Trefera	Reim for credential program fee	\$ 1,100.00
121925 Total				\$ 1,100.00
121926	4/6/2022	Zaiah Jones	Taxes for Chromebook order	\$ 5,944.14
121926 Total				\$ 5,944.14
121927	4/6/2022	Delta Managed Solutions, Inc	Taxes for Staff computer order	\$ 33.21
121927 Total				\$ 33.21
121928	4/6/2022	ASB-Reim for student club activity		\$ 5,977.35
121928 Total				\$ 5,977.35
121929	4/6/2022	DMS April 2022 Business Services		\$ 36.87
121929 Total				\$ 36.87
121930	4/7/2022	NSLP meal balance refund 20-21 Year		\$ 7,439.70
121930 Total				\$ 7,439.70
121931	4/7/2022	NSLP meal balance refund 20-21 Year		\$ 28.00
121931 Total				\$ 28.00
121932	4/7/2022	NSLP meal balance refund 20-21 Year		\$ 10.60
121932 Total				\$ 10.60
121933	4/7/2022	NSLP meal balance refund 20-21 Year		\$ 30.00
121933 Total				\$ 30.00
121934	4/11/2022	Association of California School Administrators	Membership dues Apr 22 J. Ripp	\$ 121.50
121934 Total				\$ 121.50
121935	4/11/2022	Carolina Biological Supply Company	Science lab material	\$ 1,061.44
121935 Total				\$ 1,061.44
121936	4/11/2022	Daniel Ornelas	Reim. for staff event purchase	\$ 320.14
121936 Total				\$ 320.14
121937	4/11/2022	Elevator Service Company of Central California, Inc	Monthly Contract Service	\$ 275.00
121937 Total				\$ 275.00
121938	4/11/2022	Hexagon Transportation Consultants, Inc.	Parking Study	\$ 3,000.00
121938 Total				\$ 3,000.00
121939	4/11/2022	K & D Landscaping, Inc.	Landscaping Renovation and Pine Tree Removal	\$ 21,533.13
121939 Total				\$ 21,533.13
121940	4/11/2022	Measure Education Inc.	Data management services	\$ 1,329.88
121940 Total				\$ 1,329.88
121941	4/11/2022	Nob Hill Catering Inc.	NSLP-Meals March 2022	\$ 6,716.75
121941 Total				\$ 6,716.75
121942	4/11/2022	PG&E	Utilities 021722-032022	\$ 9,023.78
121942 Total				\$ 9,023.78
121943	4/11/2022	Pure Janitorial	March 2022 Janitorial/supply/fogging	\$ 8,436.70
121943 Total				\$ 8,436.70
121944	4/11/2022	Santa Cruz County Office of Education	School Nurse Services 2022	\$ 27,122.00
121944 Total				\$ 27,122.00
121945	4/11/2022	Shannon Parsons	Reim for credential program fee	\$ 975.00
121945 Total				\$ 975.00



121941 Total	4/11/2022	Young, Minney & Corr, LLP	Legal services Mar 22	\$ 975.00
121942				\$ 956.17
121942 Total	4/11/2022	Zoom Video Communications Inc.	Cloud Recording Services	\$ 42.20
121943				\$ 42.20
121943 Total	4/14/2022	First American Title Insurance Company	Dep. for 228 Locust-Escrow File No:1108726	\$ 12,500.00
121946				\$ 12,500.00
121946 Total	4/14/2022	First American Title Insurance Company	Dep. for 234 Locust-Escrow File No:1108727	\$ 12,500.00
121947				\$ 12,500.00
121947 Total	4/14/2022	Adriana San Millan School Psychology and Special Education Services, LLC	SpEd-Speech Services	\$ 1,495.00
121948			SpEd-IEP services	\$ 140.00
121948 Total	4/14/2022	Airtec Service	HVAC maintenance	\$ 1,635.00
121949				\$ 3,853.00
121949 Total	4/14/2022	Amplify Education, Inc.	Curriculum-ELD Training for teachers	\$ 750.00
121950				\$ 750.00
121950 Total	4/14/2022	Gilroy Gardens Family Theme Park	ASB-Deposit for Prom event	\$ 1,000.00
121951				\$ 1,000.00
121951 Total	4/14/2022	Juan Mariniez	Senior retreat meals	\$ 1,000.00
121952				\$ 600.00
121952 Total	4/14/2022	Sean Ortega	Mileage reimbursement-March 22	\$ 600.00
121953				\$ 21.06
121953 Total	4/14/2022	Spinnaker Ventures LLC	May 2022 Rent	\$ 21.06
121954				\$ 25,428.00
121954 Total	4/14/2022	State California Department of Justice	Fingerprint service for staff	\$ 25,428.00
121955				\$ 179.00
121955 Total	4/14/2022	State of California	Property acquisition	\$ 179.00
121956				\$ 250.00
121956 Total	4/14/2022	Sync - Amazon	PBIS supply purchase	\$ 250.00
121957			Staff lounge supplies	\$ 1,246.75
			Adapters for staff computers	\$ 69.67
			Masks for students	\$ 30.56
			PBIS supplies order	\$ 341.19
			PBIS supply order	\$ 31.10
			Student celebration materials	\$ 129.93
			Tech-Adapters and cables for classroom	\$ 196.56
			Toner for office printer	\$ 67.06
				\$ 77.43
121957 Total	4/14/2022	TIAA Commercial Finance, Inc.	Copier Lease	\$ 2,190.25
121958				\$ 529.88
121958 Total	4/14/2022	Zoom Video Communications Inc.	Cloud Recording Services	\$ 42.20
121959				\$ 42.20
121959 Total	4/25/2022	Adriana San Millan School Psychology and Special Education Services, LLC	SpEd-Speech Services	\$ 42.20
121960			SpEd-ERMHS services	\$ 1,310.25
			SpEd-Speech-IEP services	\$ 250.00
121960 Total	4/25/2022	Alhambra	Water services	\$ 3,189.00
121961				\$ 4,749.25
121961 Total	4/25/2022	City of Watsonville Utilities	Utilities-Fire 031622-041122	\$ 204.83
121962				\$ 100.72
121962 Total	4/25/2022	City of Watsonville Utilities	Utilities-water,server,waste 031422-041122	\$ 100.72
121963				\$ 1,283.17
121963 Total	4/25/2022	Edmentum	EdOptions Academy Active Monthly per Enrollment	\$ 1,283.17
121964				\$ 2,560.00
121964 Total	4/25/2022	Julio Cesar Gonzalez	9th/10th Grade Dance DJ	\$ 2,560.00
121965				\$ 350.00
121965 Total				\$ 350.00



121966	4/25/2022	Measure Education Inc.	Data management services	\$ 2,659.76
121966 Total				\$ 2,659.76
121967	4/25/2022	Premier Training Services LLC - Richard Rocha	Adult & Pediatric First Aid/CPR/AED 2 Year	\$ 1,096.00
			Spanish Adult & Pediatric First Aid/CPR/AED	\$ 822.00
121967 Total				\$ 1,918.00
121968	4/25/2022	Renaissance	90-Minute Remote Session	\$ 450.00
121968 Total				\$ 450.00
121969	4/25/2022	The Plumbing Company	Video inspection work order	\$ 425.00
121969 Total				\$ 425.00
121973	4/29/2022	PG&E	Utilities 021722-032022-remaining balance	\$ 9,000.00
121973 Total				\$ 9,000.00
121974	4/29/2022	Cara Galleher	Reimb. for field trip transportation	\$ 174.60
121974 Total				\$ 174.60
121976	4/29/2022	Delta Managed Solutions, Inc	DMS May 2022 Business Services	\$ 10,816.00
121976 Total				\$ 10,816.00
121977	4/29/2022	Discovery	Saint Marys College trip	\$ 3,252.40
121977 Total				\$ 3,252.40
121978	4/29/2022	MBS Business Systems	Toner Order	\$ 97.33
121978 Total				\$ 97.33
121979	4/29/2022	Pajaro Valley Unified School District	PVUSD Bus Trip to Moss Landing Harbor	\$ 450.59
121979 Total				\$ 450.59
121980	4/29/2022	Raquel Arenas-Humphrey	Reimb for postage	\$ 116.35
121980 Total				\$ 116.35
121981	4/29/2022	Staples Advantage	Office supplies order	\$ 701.16
121981 Total				\$ 701.16
121982	4/29/2022	Time Warner Cable	ISP & Phone services 041422-051322	\$ 3,835.95
121982 Total				\$ 3,835.95
300427	4/4/2022	Employers Assurance	Error ck #300427-Employers Assurance	\$ 3,376.30
300427 Total				\$ 3,376.30
8007	4/21/2022	Onsite check	CA School Finance Authority-CSFA Application	\$ 1,500.00
8007 Total				\$ 1,500.00
8008	4/21/2022	Onsite check	CA School Finance Auth.-Charter ABLE credit enh. program	\$ 1,000.00
8008 Total				\$ 1,000.00
8009	4/21/2022	Onsite check	Gilroy HS ASB-Track & Field	\$ 30.00
8009 Total				\$ 30.00
8010	4/13/2022	Onsite check	King City HS-Track & Field	\$ 35.00
8010 Total				\$ 35.00
8012	4/1/2022	Onsite check	Manual chk #8012-Appraisal for 215 Locust St.	\$ 9,000.00
8012 Total				\$ 9,000.00
ACH Debit	4/25/2022	Santa Cruz County Bank - Loan #6830	Loan#6830 April 2022 ACH Pmt	\$ 35,491.65
	4/27/2022	Card Service Center	REQ-1132 April Credit Card Statement	\$ 7,458.87
ACH Debit Total				\$ 42,950.52
Grand Total				\$ 274,059.65



**CEIBA Public School  
WARRANT REGISTER DETAIL: May 2022**

Check Number	Check Date	Vendor	Transaction Description	Total
121985	5/9/2022	Adriana San Millan School Psychology and Special Education Services, LLC	SpEd-IEP meeting attendance	\$ 295.75
121985 Total				\$ 295.75
121986	5/9/2022	Association of California School Administrators	Membership dues May 22 J. Ripp	\$ 121.50
121986 Total				\$ 121.50
121987	5/9/2022	California's Great America	Field trip for 8th grade	\$ 2,450.00
121987 Total				\$ 2,450.00
121988	5/9/2022	Chartwells Dining Services	Field trip meals	\$ 783.10
121988 Total				\$ 783.10
121989	5/9/2022	EventScapes Inc.	End of year event rental	\$ 3,660.00
121989 Total				\$ 3,660.00
121990	5/9/2022	Josh Ripp	Reim for state testing snacks	\$ 317.82
121990 Total				\$ 317.82
121991	5/9/2022	Michael Rich	Reimb. for testing supplies	\$ 178.18
121991 Total				\$ 178.18
121992	5/9/2022	Michael's Transportation Service Inc.	Field trip transportation	\$ 1,447.50
121992 Total				\$ 1,447.50
121993	5/9/2022	Nob Hill Catering Inc.	NSLP-Meals April 2022	\$ 9,985.50
121993 Total				\$ 9,985.50
121994	5/9/2022	Pure Janitorial	April 2022 Janitorial/supply/fogging	\$ 8,912.45
121994 Total				\$ 8,912.45
121995	5/9/2022	School Food Solutions LLC	FSA Services	\$ 8,095.90
121995 Total				\$ 8,095.90
121996	5/9/2022	Securanty, Inc.	Chromebook insurance payment	\$ 49.00
121996 Total				\$ 49.00
121997	5/9/2022	Shannon Parsons	Mileage reimbursement-March 22	\$ 40.25
			Mileage reimbursement-Apr 22	\$ 30.20
121997 Total				\$ 70.45
121998	5/9/2022	The CLM Group, Inc.	FY 22/23 Meals POS	\$ 875.26
121998 Total				\$ 875.26
121999	5/9/2022	Zoom Video Communications Inc.	Cloud Recording Services	\$ 42.20
121999 Total				\$ 42.20
122001	5/13/2022	Elevator Service Company of Central California, Inc	Monthly Contract Service	\$ 275.00
122001 Total				\$ 275.00
122002	5/13/2022	MBS Business Systems	Qtrly copier maintenance	\$ 1,197.99
122002 Total				\$ 1,197.99
122003	5/13/2022	Measure Education Inc.	Data management services	\$ 1,329.88
122003 Total				\$ 1,329.88
122004	5/13/2022	Melanie Larsen	Reim for art supplies	\$ 735.22
122004 Total				\$ 735.22
122005	5/13/2022	Pajaroa Floral	Mothers day flowers-parent involvement	\$ 121.00
122005 Total				\$ 121.00
122006	5/13/2022	PG&E	Utilities 032122-041922	\$ 3,280.17
122006 Total				\$ 3,280.17
122007	5/13/2022	Sports Design Screen Printing	T-shirts for parent involvement	\$ 367.08
122007 Total				\$ 367.08
122008	5/13/2022	TIAA Commercial Finance, Inc.	Copier Lease	\$ 529.88
122008 Total				\$ 529.88
122009	5/13/2022	Young, Minney & Corr, LLP	Legal services Apr 22	\$ 115.90
122009 Total				\$ 115.90
122010	5/16/2022	PVUSD	PVUSD Quarterly Loan Pymt.32	\$ 52,256.03







122034	5/25/2022	Sync - Amazon	Facilities-classroom materials	\$	11.96
			Facilities-radio purch. for on-site communication	\$	147.21
			Math posters for classroom	\$	22.46
			PBIS supply	\$	377.52
122034 Total				\$	1,336.03
122035	5/26/2022	Adriana San Millan School Psychology and Special Education Services, LLC	SpEd-Speech Services	\$	774.00
			SpEd-ERMHS services	\$	93.75
122035 Total				\$	867.75
122036	5/26/2022	Clifton Larson Allen LLP	Audit services	\$	2,100.00
122036 Total				\$	2,100.00
122037	5/26/2022	Discovery	6th grade Boardwalk Bowl trip	\$	141.20
			6th grade UC Santa Cruz trip	\$	141.20
122037 Total				\$	282.40
122038	5/26/2022	Elevator Service Company of Central California, Inc	Monthly Contract Service	\$	275.00
122038 Total				\$	275.00
122040	5/26/2022	Staples Advantage	Office supplies order	\$	1,475.66
122040 Total				\$	1,475.66
122041	5/26/2022	TIAA Commercial Finance, Inc.	Copier Lease	\$	2,181.86
122041 Total				\$	2,181.86
122042	5/26/2022	USA Custom Pad Corp	70-black leatherette imprints/set up charges	\$	1,084.39
122042 Total				\$	1,084.39
8016	5/12/2022	Manual check	Cal Culinary-UC Berkley-80 student meal vouchers	\$	1,040.00
8016 Total				\$	1,040.00
8017	5/6/2022	Manual check	Invoice #4496-Track and Field V-Boys and Girls	\$	160.00
8017 Total				\$	160.00
8018	5/10/2022	Manual check	PCAL Invoice #307	\$	150.00
8018 Total				\$	150.00
8021	5/12/2022	Manual check	Oakland Zoo- Order-updated student comt	\$	975.00
8021 Total				\$	975.00
8022	5/23/2022	Manual check	Pajaro Valley-Senior retreat 050622	\$	400.00
8022 Total				\$	400.00
8023	5/13/2022	Manual check	Discovery Charters-College trip 3215-3220	\$	17,415.30
8023 Total				\$	17,415.30
8025	5/11/2022	Manual check	Julio C. Gonzalez-PROM DJ	\$	650.00
8025 Total				\$	650.00
8052	5/12/2022	Manual check	Juan Martinez-Tacos Senior Retreat	\$	600.00
8052 Total				\$	600.00
8054	5/13/2022	Manual check	City of Watsonville Application #3539	\$	27,793.00
8054 Total				\$	27,793.00
8055	5/19/2022	Manual check	Roberto Carlos Martinez-8th Grade Dance	\$	350.00
8055 Total				\$	350.00
8056	5/27/2022	Manual check	Discovery Charters-Disney land	\$	5,835.00
8056 Total				\$	5,835.00
ACH Debit	5/24/2022	Santa Cruz County Bank - Loan #6830	May 2022 ACH Pmt	\$	35,491.65
	5/31/2022	Card Service Center	REQ-1133 May Credit Card Statement	\$	9,537.55
ACH Debit Total				\$	45,029.20
Wire Transfer	5/17/2022	Wire Transfer	Wire Transfer - First american title company	\$	52,282.09
Wire Transfer Total				\$	52,282.09
Grand Total				\$	321,639.87



**CEIBA Public School**  
**WARRANT REGISTER DETAIL: June 2022**

Check Number	Check Date	Vendor	Transaction Description	Total
122046	6/3/2022	Adriana San Millan School Psychology and Special Education Services, LLC	SpEd-Speech Services	\$ 300.57
			SpEd-ERMHS counseling	\$ 156.25
			SpEd-Tri eval, IEP services	\$ 3,484.00
122046 Total				\$ 3,940.82
122047	6/3/2022	Audio Resource Group, INC.	Translation devices for family use at events	\$ 2,990.00
122047 Total				\$ 2,990.00
122048	6/3/2022	City of Watsonville Utilities	Utilities-water line 041122-050922	\$ 212.04
122048 Total				\$ 212.04
122049	6/3/2022	California State University Monterey Bay	SpEd-Psych Ed Evaluation	\$ 8,010.00
122049 Total				\$ 8,010.00
122050	6/3/2022	Daniel Ornelas	Reim. for NSLP lunch	\$ 330.08
			Reim. for staff event meal	\$ 381.59
122050 Total				\$ 711.67
122051	6/3/2022	Josh Ripp	Reim for EOY snacks	\$ 119.89
122051 Total				\$ 119.89
122052	6/3/2022	Lifetouch Yearbook	Event#EVTRF298M Yearbook pmt balance	\$ 32.76
122052 Total				\$ 32.76
122053	6/3/2022	Michael Rich	Reimb. for testing snacks for students	\$ 29.94
122053 Total				\$ 29.94
122054	6/3/2022	Raquel Arenas-Humphrey	Reimb for postage for attendance letters	\$ 250.60
122054 Total				\$ 250.60
122055	6/3/2022	School Food Solutions LLC	NSLP-Apr FSA services and mailings	\$ 533.66
122055 Total				\$ 533.66
122056	6/3/2022	College Board	AP Exam order 21-22	\$ 4,845.00
122056 Total				\$ 4,845.00
122057	6/3/2022	Time Warner Cable	ISP & Phone services 051422-061322	\$ 3,835.95
122057 Total				\$ 3,835.95
122058	6/3/2022	University of San Francisco	Field trip meals-USF	\$ 1,758.37
122058 Total				\$ 1,758.37
122059	6/3/2022	Wald, Ruhnke & Dost Architects, LLP	Zoning project management services	\$ 1,000.00
122059 Total				\$ 1,000.00
122060	6/3/2022	Zaiah Jones	Reim for event supplies	\$ 62.11
122060 Total				\$ 62.11
122061	6/3/2022	Zoom Video Communications Inc.	Cloud Recording Services	\$ 42.20
122061 Total				\$ 42.20
122069	6/10/2022	Adriana San Millan School Psychology and Special Education Services, LLC	SpEd-Speech Services	\$ 709.50
			SpEd-Psych eval, IEP services	\$ 4,684.00
			SpEd-ERMHS counseling	\$ 531.25
			SpEd-IEP Attendance	\$ 398.00
122069 Total				\$ 6,322.75
122070	6/10/2022	Cara Galleher	Reimb. for science classroom materials	\$ 67.44
122070 Total				\$ 67.44
122071	6/10/2022	Clarissa Infante	Reimb. for end of year event purchases	\$ 182.26
122071 Total				\$ 182.26
122072	6/10/2022	Daniel Ornelas	Reim. for end of year event, meal purchases	\$ 1,055.92
122072 Total				\$ 1,055.92
122073	6/10/2022	Elevator Service Company of Central California, Inc	Monthly Contract Service	\$ 275.00
122073 Total				\$ 275.00
122074	6/10/2022	GigaKOM	Qtrly Tech-IT maintenance services	\$ 1,058.50
122074 Total				\$ 1,058.50



122075	6/10/2022	Josh Ripp	Reim for EOY event purchase	\$ 39.38
122075 Total				\$ 39.38
122076	6/10/2022	Learningtech.org	FY 22/23 E-Rate category 1 management services	\$ 5,650.00
122076 Total				\$ 5,650.00
122077	6/10/2022	MBS Business Systems	Qtrly copier maintenance	\$ 1,041.50
122077 Total				\$ 1,041.50
122078	6/10/2022	Measure Education Inc.	Data management services	\$ 1,329.88
122078 Total				\$ 1,329.88
122079	6/10/2022	Melanie Larsen	Reim. for art classroom materials	\$ 160.48
122079 Total				\$ 160.48
122080	6/10/2022	Micaiah Sutter	Reimbursement for science lab materials	\$ 157.20
122080 Total				\$ 157.20
122081	6/10/2022	Nob Hill Catering Inc.	NSLP-Meals May 2022	\$ 11,054.50
122081 Total				\$ 11,054.50
122082	6/10/2022	Palмира Gallo	Reimb. for senior project material	\$ 34.49
122082 Total				\$ 34.49
122083	6/10/2022	Parent Institute for Quality Education	Parent workshop for 21/22	\$ 7,800.00
122083 Total				\$ 7,800.00
122084	6/10/2022	PG&E	Utilities 041222-052022	\$ 452.85
122084 Total				\$ 452.85
122085	6/10/2022	PowerSchool Group LLC	FY 22/23 Schoology Learning management system	\$ 6,121.50
122085 Total				\$ 6,121.50
122086	6/10/2022	Pure Janitorial	May 2022 Janitorial/supply/fogging	\$ -
122086 Total				\$ -
122087	6/10/2022	Raquel Arenas-Humphrey	Reimb for postage/end of year purchases	\$ 913.98
122087 Total				\$ 913.98
122088	6/10/2022	Sandra Gutierrez	Reim. for PBIS purchae	\$ 81.37
122088 Total				\$ 81.37
122089	6/10/2022	Securanty, Inc.	Chromebook insurance damage payment	\$ 196.00
122089 Total				\$ 196.00
122090	6/10/2022	Shannon Parsons	Mileage reimbursement-Mayr 22	\$ 40.25
122090 Total				\$ 40.25
122091	6/10/2022	Staples Advantage	Office supplies order-May	\$ 664.66
122091 Total				\$ 664.66
122092	6/10/2022	Inspirit Group, LLC dba STOPit Solutions	FY 22/23 Anti-bullying software	\$ 236.25
122092 Total				\$ 236.25
122093	6/10/2022	TIAA Commercial Finance, Inc.	Copier Lease	\$ 529.88
122093 Total				\$ 529.88
122094	6/10/2022	Tri County Trophy and Engraving	Athletics- awards trophies	\$ 103.79
122094 Total				\$ 103.79
122095	6/10/2022	Victoria Soriano-Izarraras	Reimb. for senior project materials	\$ 131.98
122095 Total				\$ 131.98
122097	6/17/2022	Alhambra	Water services	\$ 242.30
122097 Total				\$ 242.30
122098	6/17/2022	Barry Kyle	Reim for student achievement celebration	\$ 97.58
122098 Total				\$ 97.58
122099	6/17/2022	City of Watsonville	fire inspection services	\$ 169.00
122099 Total				\$ 169.00
122100	6/17/2022	Clouds Design Studio	EOY design services	\$ 550.00
122100 Total				\$ 550.00
122101	6/17/2022	Cornerstone Earth Group, Inc.	215 Locust-facility purchase	\$ 4,300.00
122101 Total				\$ 4,300.00
122102	6/17/2022	Edmentum	FY 22/23 Credit recovery summer enrollment	\$ 8,480.00
122102 Total				\$ 8,480.00
122103	6/17/2022	Nob Hill Catering Inc.	NSLP-Meals June 2022	\$ 3,637.40



122103 Total				\$ 3,637.40
122104	6/17/2022	Rachael Pedley	Athletics-Reimb. for banquet purchase	\$ 159.03
			Reim for EOY purchase/Facility cleanup mat.	\$ 196.40
122104 Total				\$ 355.43
122105	6/17/2022	Sandra Gutierrez	Reim.for PBIS purchase/ASB Disney ticket for chaperone	\$ 176.20
122105 Total				\$ 176.20
122106	6/17/2022	State California Department of Justice	Fingerprint service for staff	\$ 294.00
122106 Total				\$ 294.00
122107	6/21/2022	Sync - Amazon	ASB-event purchase for prom	\$ 122.25
			Blood pressure monitor for sciene	\$ 246.48
			Chromebook replacement	\$ 96.00
			Classroom tech materials	\$ 179.88
			Gloves for lab classroom	\$ 354.23
			Laptop stand for staff office	\$ 15.60
			Office Supplies	\$ 32.25
			PBIS supplies	\$ 600.74
			Posters for senior class	\$ 141.91
122107 Total				\$ 2,162.33
122108	6/27/2022	Spinnaker Ventures LLC	July 2022 Rent	\$ 25,428.00
122108 Total				\$ 25,428.00
122111	6/28/2022	Adriana San Millan School Psychology and Special Education Services, LLC	SpEd-ERMHS counseling	\$ 260.00
			SpEd-Speech Evaluation	\$ 4,485.00
122111 Total				\$ 4,745.00
122112	6/28/2022	American Red Cross Health & Safety Services	CPR certification training for staff	\$ 1,426.00
122112 Total				\$ 1,426.00
122113	6/28/2022	Association of California School Administrators	Membership dues June 22 J. Ripp	\$ 121.50
122113 Total				\$ 121.50
122114	6/28/2022	City of Watsonville Utilities	Utilities-waste 061522	\$ 947.94
122114 Total				\$ 947.94
122115	6/28/2022	City of Watsonville Utilities	Utilities-water line 050922-061322	\$ 100.72
122115 Total				\$ 100.72
122116	6/28/2022	Michael Rich	Reimb. for visualization tool	\$ 19.00
122116 Total				\$ 19.00
122117	6/28/2022	Pajaro Valley Printing	End of year programs printing and diplomas	\$ 990.62
122117 Total				\$ 990.62
122118	6/28/2022	PG&E	Utilities 042022-051822	\$ 2,573.31
122118 Total				\$ 2,573.31
122119	6/28/2022	PNC Bank c/o First Book	Books for teacher	\$ 146.15
122119 Total				\$ 146.15
122120	6/28/2022	Scholastic Book Fairs	Book fair	\$ 1,983.79
122120 Total				\$ 1,983.79
122121	6/28/2022	Time Warner Cable	ISP & Phone services 061422-071322	\$ 3,835.95
122121 Total				\$ 3,835.95
122122	6/28/2022	Wald, Ruhnke & Dost Architects, LLP	Architect services for HVAC project	\$ 600.00
122122 Total				\$ 600.00
122123	6/28/2022	Pure Janitorial	May 2022 Janitorial/supply/fogging	\$ 10,822.49
122123 Total				\$ 10,822.49
122126	6/30/2022	CharterSAFE	FY22/23 Workers Comp & Package Premium	\$ 30,467.00
122126 Total				\$ 30,467.00
122129	6/30/2022	City of Watsonville	Annual security alarm registration	\$ 49.00
122129 Total				\$ 49.00
122130	6/30/2022	City of Watsonville Utilities	Utilities - Water,sewer,waste	\$ 473.14
122130 Total				\$ 473.14
122131	6/30/2022	Clifton Larson Allen LLP	Progress audit billing June 2022	\$ 2,551.50
122131 Total				\$ 2,551.50
122132	6/30/2022	Michael Rich	Reim for PBIS purchase	\$ 491.61



122132 Total				\$ 491.61
122133	6/30/2022	Nob Hill Catering Inc.	Summer session meals 21/22	\$ 1,779.75
122133 Total				\$ 1,779.75
122134	6/30/2022	School Food Solutions LLC	NSLP-May FSA services and mailings	\$ 507.40
122134 Total				\$ 507.40
122135	6/30/2022	Zoom Video Communications Inc.	Cloud Recording Services	\$ 42.20
122135 Total				\$ 42.20
8024	6/6/2022	Manual check	Defensa Private Security-Senior retreat 5/6	\$ 180.00
8051	6/2/2022	Manual check	Jasmine A. Photo Booth	\$ 180.00
8051 Total				\$ 550.00
8058	6/7/2022	Manual check	Jalisco-Ceiba staff meeting 6/6/22	\$ 50.00
8058 Total				\$ 50.00
8059	6/13/2022	Manual check	Santa Cruz County Fair-Inv #2021-06A	\$ 1,925.00
8059 Total				\$ 1,925.00
8060	6/16/2022	Manual check	Roberto Sanchez-promotion/graduation sound	\$ 2,000.00
8060 Total				\$ 2,000.00
8062	6/27/2022	Manual check	Tony Fernandez-234 Locust Clean-up	\$ 2,310.00
8062 Total				\$ 2,310.00
ACH Debit	6/21/2022	Card Service Center	REQ-1134 June Credit Card Statement	\$ 5,241.76
	6/24/2022	Santa Cruz County Bank - Loan #6830	Loan#6830 June 2022 ACH Pmt	\$ 35,491.65
ACH Debit Total				\$ 40,733.41
Grand Total				\$ 232,391.54



**CEIBA Public School**  
**WARRANT REGISTER DETAIL: July 2022**

Check Number	Check Date	Vendor	Transaction Description	Total
122127	7/7/2022	Central Coast Shipping & Screen	Uniforms purchase-50% Deposit	\$ 14,272.01
122127 Total				\$ 14,272.01
122128	7/7/2022	Measure Education Inc.	Data management services	\$ 1,329.88
122128 Total				\$ 1,329.88
122136	7/7/2022	Juan Marinez	Senior retreat meals	\$ 600.00
122136 Total				\$ 600.00
122139	7/18/2022	Santa Cruz Live Scan, Inc.	Fingerprint Fees for staff	\$ 150.00
122140	7/19/2022	Alhambra	Water services	\$ 217.32
122141	7/19/2022	City of Watsonville Utilities	Utilities-water line 050922-061322	\$ 226.33
122141 Total				\$ 226.33
122142	7/19/2022	Lifetouch Yearbook	21-22 Yearbook payment	\$ 1,076.29
122143	7/19/2022	PG&E	Utilities 051622-06162.022	\$ 3,260.90
122143 Total				\$ 3,260.90
122144	7/19/2022	Pure Janitorial	June 2022 Janitorial/supply	\$ 6,736.65
122145	7/19/2022	Rosario Ortega Infante	Reim for facility material purchase	\$ 389.57
122146	7/19/2022	School Service, Inc	Tardy pass books for office	\$ 149.99
122147	7/19/2022	Staples Advantage	Office supplies order	\$ 1,054.39
122148	7/19/2022	State California Department of Justice	Fingerprinting for new staff	\$ 147.00
122148 Total				\$ 147.00
122149	7/19/2022	Sync - Amazon	Classroom tech materials	\$ 562.32
			Office supplies	\$ 32.29
			PBIS supplies	\$ 128.89
			ASB-8th grade dance materials	\$ 88.66
			Banner for awards night	\$ 9.50
			Biology course materials	\$ 141.66
			Chromebook repair parts	\$ 147.99
			EOY event materials	\$ 97.54
			Face masks for school	\$ 369.78
			Headphones for students	\$ 141.97
			PBIS purchase	\$ 516.80
			Repair part for basketball hoop	\$ 89.76
			Soccer balls for PE	\$ 92.85
			Sport materials for PE	\$ 147.06
			Student rally materials	\$ 13.84
			Tech materials purchase	\$ 133.24
			Volleyballs for PE	\$ 80.70
122149 Total				\$ 2,794.85
122150	7/19/2022	Young, Minney & Corr, LLP	Legal services Jun 22	\$ 1,484.85
122150 Total				\$ 1,484.85
122151	7/19/2022	Bloomz Inc.	Family communication tool	\$ 3,912.50
122151 Total				\$ 3,912.50
122152	7/19/2022	Delta Managed Solutions, Inc	DMS July 2022 Business Services	\$ 11,900.00
122152 Total				\$ 11,900.00



122153	7/19/2022	Elevator Service Company of Central California, Inc	Monthly Contract Service	\$ 275.00
122153 Total				\$ 275.00
122154	7/19/2022	Sync - Amazon	Biology course materials	\$ 15.74
			Tech materials purchase	\$ 49.70
			Balloons for orientation	\$ 10.91
			Classroom materials	\$ 981.62
			Family event purchase	\$ 15.30
			Teacher desk chair purchase	\$ 227.38
122154 Total				\$ 1,300.65
122155	7/19/2022	TIAA Commercial Finance, Inc.	Copier Lease	\$ 529.88
122155 Total				\$ 529.88
122157	7/26/2022	Adriana Morales	Reim for MTSS PD Meals	\$ 185.38
			Reim for MTSS PD Mileage	\$ 414.18
122157 Total				\$ 599.56
122158	7/26/2022	Card Service Center	REQ-1135 July Credit Card Statement	\$ 5,184.10
122158 Total				\$ 5,184.10
122159	7/26/2022	Charter Schools Development Center	Membership for FY22/23	\$ 1,575.00
122159 Total				\$ 1,575.00
122160	7/26/2022	City of Watsonville Utilities	Utilities-fire services 061322-071222	\$ 100.72
122160 Total				\$ 100.72
122161	7/26/2022	City of Watsonville Utilities	Utilities - Water,sewer,waste	\$ 1,202.83
122161 Total				\$ 1,202.83
122162	7/26/2022	City of Watsonville Utilities	Utilities-water line 061322-071222	\$ 212.04
122162 Total				\$ 212.04
122163	7/26/2022	Glenn Rankin	Reim for MTSS PD Meals	\$ 163.10
			Reim for MTSS PD Mileage	\$ 414.18
122163 Total				\$ 577.28
122164	7/26/2022	Karol Steele	Sequential Middle & High School health curriculum	\$ 1,102.50
122164 Total				\$ 1,102.50
122165	7/26/2022	Josh Ripp	Reim for MTSS PD Meals	\$ 181.96
			Reim for MTSS hotel lodging	\$ 4,476.94
			Reimb for MTSS PD Mileage	\$ 414.18
122165 Total				\$ 5,073.08
122166	7/26/2022	Nathan Winchell	Reimb for MTSS PD Mileage	\$ 414.18
122166 Total				\$ 414.18
122167	7/26/2022	Spinnaker Ventures LLC	August 2022 Rent	\$ 25,428.00
122167 Total				\$ 25,428.00
122168	7/26/2022	Tony Fernandez	Landscaping cleanup 07/2022	\$ 2,000.00
122168 Total				\$ 2,000.00
122169	7/26/2022	GigaKOM	Qtrly Tech-IT maintenance services	\$ 1,058.50
122169 Total				\$ 1,058.50
8057	7/26/2022	Manual Check	National Association of Sped Teachers-Recognition Spring 22	\$ 250.00
ACH Total				\$ 250.00
ACH Debit	7/25/2022	Santa Cruz County Bank - Loan #6830	Loan#6830 July 2022 ACH Pmt	\$ 35,491.65
ACH Debit Total				\$ 35,491.65
Grand Total				\$ 132,077.50



**CEIBA Public School**  
**WARRANT REGISTER DETAIL: August 2022**

Check Number	Check Date	Vendor	Transaction Description	Total
122174	8/4/2022	Delta Managed Solutions, Inc	DMS August 2022 Business Services	\$ 11,900.00
122174 Total				\$ 11,900.00
122176	8/10/2022	School Food Solutions LLC	FY 21/22 NSLP-June FSA services	\$ 519.20
122176 Total				\$ 519.20
122177	8/10/2022	Seiden & Son	FY 21/22 June repair and maintenance	\$ 11,256.02
122177 Total				\$ 11,256.02
122178	8/10/2022	5-Star Students	PBIS Subscription	\$ 1,500.00
122178 Total				\$ 1,500.00
122179	8/10/2022	Airtec Service	HVAC maintenance	\$ 3,918.07
122179 Total				\$ 3,918.07
122180	8/10/2022	Ana C Leonor	Mileage Reim for MTSS conference	\$ 442.50
122180 Total				\$ 442.50
122181	8/10/2022	B. E. Publishing	Curriculum purchase for Anatomy course	\$ 8,395.00
122181 Total				\$ 8,395.00
122182	8/10/2022	Books International, Inc.	Curriculum purchase for Spanish	\$ 6,005.98
122182 Total				\$ 6,005.98
122183	8/10/2022	Carlos Garcia-Avelar	Reim for MTSS hotel lodging	\$ 493.66
			Mileage reimb. for MTSS conference	\$ 442.50
			Reim. for MTSS meals	\$ 64.95
122183 Total				\$ 1,001.11
122184	8/10/2022	CharacterStrong	Socioemotional learning toolkit subscription	\$ 1,999.00
122184 Total				\$ 1,999.00
122185	8/10/2022	Development Group Inc.	Tech-Camera Purchase for Campus	\$ 9,431.42
122185 Total				\$ 9,431.42
122186	8/10/2022	Elevator Service Company of Central California, Inc	Monthly Contract Service	\$ 275.00
122186 Total				\$ 275.00
122187	8/10/2022	ETR Advancing Health Equality	Curriculum-Health curriculum purchase	\$ 999.99
122187 Total				\$ 999.99
122188	8/10/2022	First Alarm	Cust #100132844 Qtrly monitoring services	\$ 1,370.73
122188 Total				\$ 1,370.73
122189	8/10/2022	Kesler Science	Science course tool	\$ 299.00
122189 Total				\$ 299.00
122190	8/10/2022	Mary Berger	Reim for classroom materials	\$ 85.78
122190 Total				\$ 85.78
122191	8/10/2022	Micaliah Sutter	Mileage Reim for MTSS conference	\$ 442.50
122191 Total				\$ 442.50
122192	8/10/2022	Nathan Winchell	Reimbursement for MTSS meals	\$ 108.29
			Reimbursement for PBIS purchase	\$ 18.52
122192 Total				\$ 126.81
122193	8/10/2022	Paulina Gonzalez	Reimb. for athletics uniforms and materials	\$ 621.86
122193 Total				\$ 621.86
122194	8/10/2022	Premier Training Services LLC - Richard Rocha	First aid/CPR training for staff	\$ 822.00
122194 Total				\$ 822.00
122195	8/10/2022	Pure Janitorial	July 2022 Janitorial/supply/fogging	\$ 12,895.00
122195 Total				\$ 12,895.00
122196	8/10/2022	Renaissance	Interim assessment subscription for 22/23 PD for teachers	\$ 5,690.00
122196 Total				\$ 5,690.00
122197	8/10/2022	TCI	Curriculum-social studies MS/HS curriculum license	\$ 23,282.00
122197 Total				\$ 23,282.00



122198	8/10/2022	Time Warner Cable	ISP & Phone services 071422-081322	\$ 3,871.41
122198 Total				\$ 3,871.41
122199	8/10/2022	Zalah Jones	Reim. for school retreat food purchase	\$ 1,408.00
			Reim. for student orientation meals	\$ 177.99
122199 Total				\$ 1,585.99
122200	8/10/2022	Zoom Video Communications Inc.	Annual cloud recording	\$ 5,253.90
122200 Total				\$ 5,253.90
122201	8/15/2022	Melissa Varvaro	Employee: Varvaro; Pay Date: 8/15/2022	\$ 5,199.75
122201 Total				\$ 5,199.75
122202	8/15/2022	Laura Contreras	Employee: Contreras; Pay Date: 8/15/2022	\$ 5,376.26
122202 Total				\$ 5,376.26
122203	8/15/2022	Marissa K. Decker	Employee: Decker; Pay Date: 8/15/2022	\$ 3,807.02
122203 Total				\$ 3,807.02
122204	8/15/2022	Denise Estrella	Employee: Estrella; Pay Date: 8/15/2022	\$ 7,059.17
122204 Total				\$ 7,059.17
122205	8/15/2022	Jessica Fredrickson	Employee: Fredrickson; Pay Date: 8/15/2022	\$ 5,152.11
122205 Total				\$ 5,152.11
122206	8/15/2022	Steve Han	Employee: Han; Pay Date: 8/15/2022	\$ 5,625.04
122206 Total				\$ 5,625.04
122207	8/15/2022	Kevin Oliveira	Employee: Oliveira; Pay Date: 8/15/2022	\$ 5,199.75
122207 Total				\$ 5,199.75
122208	8/15/2022	David Ray	Employee: Ray; Pay Date: 8/15/2022	\$ 6,834.14
122208 Total				\$ 6,834.14
122209	8/15/2022	Henry Schrandt	Employee: Schrandt; Pay Date: 8/15/2022	\$ 5,116.79
122209 Total				\$ 5,116.79
122210	8/15/2022	Sanjevi Subbiah	Employee: Subbiah; Pay Date: 8/15/2022	\$ 7,974.96
122210 Total				\$ 7,974.96
122211	8/16/2022	Accrediting Commission for Schools Western Assoc of Schools & Colleges	Annual Accreditation Membership fee	\$ 1,130.00
122211 Total				\$ 1,130.00
122212	8/16/2022	Alhambra	Acct #512442213360291 Water services	\$ 54.95
122212 Total				\$ 54.95
122213	8/16/2022	EducatorsHandbook.com	Student incident management tool 22/23	\$ 698.00
122213 Total				\$ 698.00
122214	8/16/2022	Elevator Service Company of Central California, Inc	Semi annual inspection	\$ 365.00
122214 Total				\$ 365.00
122215	8/16/2022	MBS Business Systems	Acct#CC18 Qtrly copier maintenance	\$ 661.57
122215 Total				\$ 661.57
122216	8/16/2022	Measure Education Inc.	Data management services	\$ 1,368.88
122216 Total				\$ 1,368.88
122217	8/16/2022	Santa Cruz County Office of Education	COE membership dues 21/22	\$ 533.00
122217 Total				\$ 533.00
122218	8/16/2022	SC Swimming CAFL, Inc.	FY 21/22 Swimming sessions for students	\$ 3,562.50
122218 Total				\$ 3,562.50
122219	8/16/2022	Sean Ortega	Reimb for SpEd classroom materials	\$ 60.27
122219 Total				\$ 60.27
122220	8/16/2022	Securly Inc.	Web filtering services	\$ 6,902.00
122220 Total				\$ 6,902.00
122221	8/16/2022	Shannon Parsons	Mileage reimb for MTSS Conference travel	\$ 442.50
			Reim for MTSS Conference meal	\$ 23.66
			Reim for SpEd classroom materials	\$ 69.76
122221 Total				\$ 535.92
122222	8/16/2022	Shirley De Leon	Reim. for staff PD meals	\$ 556.56
122222 Total				\$ 556.56
122223	8/16/2022	The Plumbing Company	Facilities backflow repair per City guidance	\$ 200.00
122223 Total				\$ 200.00



122224	8/16/2022	TIAA Commercial Finance, Inc.	Contract #20433170 Copier Lease	\$ 529.88
122224 Total				\$ 529.88
122225	8/16/2022	Young, Minney & Corr, LLP	Legal services July 22	\$ 626.52
122225 Total				\$ 626.52
122226	8/19/2022	PVUSD	PVUSD Quarterly Loan Pymt.33	\$ 52,256.03
122226 Total				\$ 52,256.03
122228	8/22/2022	California State Teachers' Retirement System	Buyback - Sandra Gutierrez CID: 1543109648 AR1946	\$ 1,173.34
122228 Total				\$ 1,173.34
122229	8/29/2022	Association of California School Administrators	ACSA Dues-Ripp Aug. 2022	\$ 101.59
			ACSA Dues-Ripp July 2022	\$ 101.59
122229 Total				\$ 203.18
122230	8/29/2022	Carolina Coverttech, Inc	Facilities-Safety shade for classrooms	\$ 199.35
122230 Total				\$ 199.35
122231	8/29/2022	Cengage Learning Inc.	Curriculum material purchase	\$ 2,750.00
122232 Total				\$ 26.25
122233	8/29/2022	Delta Managed Solutions, Inc	DMS September 2022 Business Services	\$ 11,900.00
122233 Total				\$ 11,900.00
122234	8/29/2022	PG&E	Utilities 061722-07192022	\$ 1,965.11
122235	8/29/2022	SchoolMate	School planners for students	\$ 1,496.25
122235 Total				\$ 1,496.25
122236	8/29/2022	Salden & Son	Facilities-Construction project for curb installation at ent	\$ 68,562.00
			Facilities-Electrical upgrade labor	\$ 20,584.98
			Facilities-Electrical upgrade materials	\$ 4,028.76
			Facilities-HVAC upgrade labor	\$ 78,501.89
			Facilities-HVAC upgrade materials	\$ 53,643.86
			Maintenance and repair work July-22	\$ 6,021.85
122236 Total				\$ 231,343.34
122237	8/29/2022	Spinnaker Ventures LLC	September 2022 Rent	\$ 28,178.00
122237 Total				\$ 28,178.00
122238	8/29/2022	Sync - Amazon	Curriculum materials for AP Psychology	\$ 6,194.10
			Facilities-stools for lab classroom	\$ 5,669.70
			PBIS material-remaining balance	\$ 33.75
122238 Total				\$ 11,897.55
122239	8/29/2022	The Plumbing Company	Facilities-water heater installation in single stall restroo	\$ 3,555.00
			Facilities-water heater installation project	\$ 9,975.00
			Facilities-water line installation at front of facility	\$ 4,195.00
122239 Total				\$ 17,725.00
122240	8/29/2022	Young, Minney & Corr, LLP	FY 21/22 Legal services related to facility purchase	\$ 1,999.27
122240 Total				\$ 1,999.27
122243	8/30/2022	Adriana San Millan School Psychology and Special Education Services, LLC	SpEd-IEP attendance and Psych-Ed Evaluations	\$ 6,575.00
122243 Total				\$ 6,575.00
122244	8/30/2022	Central Coast Shipping & Screen	Uniforms purchase-remainder balance	\$ 14,272.01
122244 Total				\$ 14,272.01
122245	8/30/2022	City of Watsonville Utilities	Utilities-fire services 071222-081522	\$ 102.24
122245 Total				\$ 102.24
122246	8/30/2022	City of Watsonville Utilities	Utilities - Water, sewer, waste	\$ 1,352.52
122246 Total				\$ 1,352.52
122247	8/30/2022	Clarissa Infante	Reimb. for snacks at events, PBIS purchases	\$ 173.13
122247 Total				\$ 173.13
122248	8/30/2022	MBS Business Systems	Qtrly copier maintenance August 2022	\$ 1,198.47
122248 Total				\$ 1,198.47
122249	8/30/2022	PowerSchool Group LLC	Schoolology integration services	\$ 1,500.00
122249 Total				\$ 1,500.00
122250	8/30/2022	Staples Advantage	FY 21/22 Office supply order February 2022	\$ 1,684.12
			Office supplies order July 2022	\$ 1,414.92



122250 Total					\$ 3,099.04
122251	8/30/2022	WestEd	Healthy kids survey for parents,staff,students		\$ 609.00
122251 Total					\$ 609.00
122253	8/31/2022	CharterSAFE	September 2022 Workers Comp & Package Premium		\$ 12,090.00
122253 Total					\$ 12,090.00
8064	8/1/2022	Manual Check	Juan Martinez-Tacos for Parent Orientation		\$ 2,500.00
8064 Total					\$ 2,500.00
ACH Debit	8/29/2022	Card Service Center	Invoice for REQ-1137 August Credit Card Statement		\$ 5,596.09
ACH Debit Total					\$ 5,596.09
Grand Total					\$ 601,600.48



**CEIBA Public School**  
**WARRANT REGISTER DETAIL: September 2022**

Check Number	Check Date	Vendor	Transaction Description	Total
122257	9/2/2022	Ana C Leonor	Reimb for PD for counselor	\$ 128.12
122257 Total				\$ 128.12
122258	9/2/2022	Rachael Pedley	Reimb for class labels/dance materials/PD meals	\$ 308.46
122258 Total				\$ 308.46
122259	9/2/2022	Reliable Translations, Inc.	FY 21/22 Translation services for Board Meeting	\$ 147.00
122259 Total				\$ 147.00
122260	9/2/2022	Rosario Ortega Infante	Reimb for PD Meal	\$ 36.00
122260 Total				\$ 36.00
122262	9/13/2022	Clifton Larson Allen LLP	Audit services	\$ 2,100.00
122262 Total				\$ 2,100.00
122263	9/15/2022	Association of California School Administrators	Monthly deduction invoice- J Ripp	\$ 101.59
122263 Total				\$ 101.59
122264	9/15/2022	Carolina Biological Supply Company	Science lab material order	\$ 1,522.54
122264 Total				\$ 1,522.54
122265	9/15/2022	Edmentum	Credit recovery tool	\$ 800.00
			ELA reading assessment tool	\$ 5,972.00
122265 Total				\$ 6,772.00
122266	9/15/2022	Elevator Service Company of Central California, Inc	Monthly Contract Service	\$ 275.00
122266 Total				\$ 275.00
122267	9/15/2022	GigaKOM	Remote IT Service maintenance	\$ 1,058.49
122267 Total				\$ 1,058.49
122268	9/15/2022	Hugo Nolasco Fletes	ASB-Banda night band	\$ 2,850.00
122268 Total				\$ 2,850.00
122269	9/15/2022	IXL Learning	Math curriculum software	\$ 2,510.00
122269 Total				\$ 2,510.00
122270	9/15/2022	Measure Education Inc.	Data management services	\$ 1,388.88
122270 Total				\$ 1,388.88
122271	9/15/2022	Michael Rich	Reim facilities materials	\$ 124.30
122271 Total				\$ 124.30
122272	9/15/2022	Miles J. Dolinger, Attorney at Law	Legal serv. for facility rezoning-215 Locust	\$ 4,632.50
122272 Total				\$ 4,632.50
122273	9/15/2022	Nob Hill Catering Inc.	NSLP-Meals Aug 2022	\$ 13,717.50
122273 Total				\$ 13,717.50
122274	9/15/2022	PG&E	Utilities 072022-081822	\$ 4,220.47
122274 Total				\$ 4,220.47
122275	9/15/2022	Pure Janitorial	August 2022 Janitorial/supply/fogging	\$ 9,589.54
122275 Total				\$ 9,589.54
122276	9/15/2022	Raquel Arenas-Humphrey	Reimb for food for events	\$ 188.51
122276 Total				\$ 188.51
122277	9/15/2022	Santa Cruz Pipe Fitters	Facilities-Gas line inspection	\$ 180.00
122277 Total				\$ 180.00
122278	9/15/2022	Securanty, Inc.	Chrombook insurance damage payment	\$ 49.00
122278 Total				\$ 49.00
122279	9/15/2022	TIAA Commercial Finance, Inc.	Contract Copier Lease	\$ 529.88
122279 Total				\$ 529.88
122280	9/15/2022	Today's Classroom LLC	Desk purchase for classrooms	\$ 9,769.44
122280 Total				\$ 9,769.44
122282	9/22/2022	Adriana San Millan School Psychology and Special Education Services, LLC	SpEd-Triennial psych evaluations	\$ 3,590.00
122282 Total				\$ 3,590.00
122283	9/22/2022	Books International, Inc.	Spanish curriculum purchase	\$ 548.90
122283 Total				\$ 548.90



122283 Total	9/22/2022	Central Coast Shipping & Screen	Unifrom order	\$ 548.90
122284				\$ 12,741.42
122284 Total	9/22/2022	City of Watsonville Utilities	Utilities-water line 071222-081222	\$ 12,741.42
122285				\$ 221.90
122285 Total	9/22/2022	Diligent Corporation	Board agenda software	\$ 221.90
122286				\$ 3,150.00
122286 Total	9/22/2022	Discovery	Bus transportation for college trip	\$ 3,150.00
122287				\$ 4,100.00
122287 Total	9/22/2022	First Alarm	Qtrly monitoring services	\$ 4,100.00
122288				\$ 1,370.73
122288 Total	9/22/2022	Flinn Scientific	Science lab materials	\$ 1,370.73
122289				\$ 818.53
122289 Total	9/22/2022	Josh Ripp	Reimb for postage	\$ 818.53
122290				\$ 19.06
122290 Total	9/22/2022	Pajaro Valley Unified School District	NSLP-Meals 08/25/22-09/02/22	\$ 19.06
122291				\$ 6,912.50
122291 Total	9/22/2022	Paulina Gonzalez	Reimb for athletics purchase-uniforms	\$ 6,912.50
122292				\$ 221.29
122292 Total	9/22/2022	School Service, Inc	Tardy pass books for office	\$ 221.29
122293				\$ 149.99
122293 Total	9/22/2022	Spinner Ventures LLC	October 2022 Rent	\$ 149.99
122294				\$ 26,245.50
122294 Total	9/22/2022	Staples Advantage	Office supplies order/August 2022	\$ 26,245.50
122295				\$ 2,555.71
122295 Total	9/22/2022	State California Department of Justice	Fingerprinting services	\$ 2,555.71
122296				\$ 196.00
122296 Total	9/22/2022	The Plumbing Company	Plumbing service order	\$ 196.00
122297				\$ 225.00
122297 Total	9/22/2022	Time Warner Cable	ISP & Phone services 081422-091322	\$ 225.00
122298				\$ 3,871.41
122298 Total	9/22/2022	ULINE	Carts for lunch service	\$ 3,871.41
122299				\$ 650.61
122299 Total	9/26/2022	Adriana Morales	ASB-Wellness club supplies for banda night fundraiser	\$ 650.61
122300				\$ 220.25
122300 Total	9/26/2022	Carolina Coverttech, Inc	Facilities-Safety shade for classrooms	\$ 220.25
122301				\$ 1,823.65
122301 Total	9/26/2022	CIF/ Central Coast Section	Athletics-Fall season dues	\$ 1,823.65
122302				\$ 160.00
122302 Total	9/26/2022	CIF State Office	Athletics-Annual dues	\$ 160.00
122303				\$ 236.72
122303 Total	9/26/2022	City of Watsonville Utilities	Utilities-fire services 081522-091222	\$ 236.72
122304				\$ 102.24
122304 Total	9/26/2022	City of Watsonville Utilities	Utilities - Water,sewer,waste 081222-091222	\$ 102.24
122305				\$ 1,460.99
122305 Total	9/26/2022	Hexagon Transportation Consultants, Inc.	Traffic operations analysis	\$ 1,460.99
122306				\$ 7,410.00
122306 Total	9/26/2022	Pacific Coast Athletic League	Athletics-Fall 2022	\$ 7,410.00
122307				\$ 795.00
122307 Total	9/26/2022	ParentSquare Inc.	Family communication tool	\$ 795.00
122308				\$ 3,000.00
122308 Total	9/26/2022	Terminix Processing Center	facilities-Pest control services	\$ 3,000.00
122309				\$ 138.00
122309 Total	9/26/2022	The Tech Interactive	College visit-12th grade college tour activity	\$ 138.00
122310				\$ 378.00
122310 Total	9/26/2022	TIAA Commercial Finance, Inc.	Contract #20433170 Copier Lease	\$ 378.00
122311				\$ 78.93
122311 Total				\$ 78.93



122312	9/26/2022	Tony Fernandez	Facilities-monthly landscape maintenance	\$ 350.00
122312 Total				\$ 350.00
122313	9/26/2022	Wald, Ruhnke & Dost Architects, LLP	Facilities-Architect services for permit	\$ 1,000.00
			Facilities-Project management for HVAC upgrade	\$ 1,680.90
122313 Total				\$ 2,680.90
122314	9/26/2022	Young, Minney & Corr, LLP	Legal services August 22	\$ 2,351.72
122314 Total				\$ 2,351.72
122315	9/26/2022	Zaiah Jones	ASB-Reim for YMOC club fundraising materials	\$ 216.78
122315 Total				\$ 216.78
122316	9/27/2022	California State Teachers' Retirement System	Buyback - Sandra Gutierrez	\$ 1,173.34
122316 Total				\$ 1,173.34
122317	9/27/2022	CharterSAFE	October 2022 Workers Comp & Package Premium	\$ 12,090.00
122319 Total				\$ 8,035.65
8065	9/1/2022	Manual check	Miles J. Attorney at Law-Zoning matter manual ck #8065	\$ 6,375.00
8065 Total				\$ 6,375.00
8067	9/22/2022	Manual check	Watsonville HS-Boys Basketball 12/7/22-12/13/22	\$ 375.00
8067 Total				\$ 375.00
8068	9/12/2022	Manual check	Tony Fernandez-081422 Maintenance	\$ 350.00
8068 Total				\$ 350.00
8069	9/26/2022	Manual check	North Salinas Cross Country-Saturday 091022 Monterey Boy	\$ 100.00
8069 Total				\$ 100.00
8071	9/19/2022	Manual check	Hugo N. Fletes-Banda Night 6-9pm	\$ 2,850.00
8071 Total				\$ 2,850.00
ACH debit	9/26/2022	Santa Cruz County Bank - Loan #6830	September 2022 ACH Pmt	\$ 35,491.65
ACH debit Total				\$ 35,491.65
Grand Total				\$ 218,031.59



**CEIBA Public School**  
**WARRANT REGISTER DETAIL: October 2022**

Check Number	Check Date	Vendor	Transaction Description	Total
122321	10/4/2022	Cara Galleher	Reimb-Science lab materials	\$ 184.18
122321 Total				\$ 184.18
122322	10/4/2022	Carlos Garcia-Avelar	Reim-Athletics uniform purchase	\$ 272.50
122322 Total				\$ 272.50
122323	10/4/2022	Chartwells Dining Services	College trips-SJSU 12th grade dining	\$ 757.97
122323 Total				\$ 757.97
122324	10/4/2022	City of Watsonville Utilities	Utilities-water line 081222-091222	\$ 221.90
122324 Total				\$ 221.90
122325	10/4/2022	Delta Managed Solutions, Inc	DMS October 2022 Business Services	\$ 11,900.00
122325 Total				\$ 11,900.00
122326	10/4/2022	Discovery	College trips-Transportation for 8th SFSU	\$ 3,354.80
122326 Total				\$ 3,354.80
122327	10/4/2022	Edlio, LLC	Website Content Management system renewal	\$ 4,860.00
122327 Total				\$ 4,860.00
122328	10/4/2022	Lux Bus America Co.	College Trips-Transp. for 11th Stanislaus	\$ 5,450.84
122328 Total				\$ 5,450.84
122329	10/4/2022	Melanie Larsen	Reim-Art course materials	\$ 700.76
122329 Total				\$ 700.76
122330	10/4/2022	Michael Rich	Reim.carts for facility	\$ 85.22
122330 Total				\$ 85.22
122331	10/4/2022	Nathan Winchell	Reimbursement for act II	\$ 3,270.91
122331 Total				\$ 3,270.91
122332	10/4/2022	Paulina Gonzalez	Reimb-Athletics uniform purchase	\$ 335.09
122332 Total				\$ 335.09
122333	10/4/2022	Reliable Translations, Inc.	Translation services for parent meeting	\$ 621.00
122333 Total				\$ 621.00
122334	10/4/2022	Santa Cruz County Office of Education	22/23 Tier II Credentialing-Witchell	\$ 3,250.00
122334 Total				\$ 3,250.00
122335	10/4/2022	Sync - Amazon	Book for administrator	\$ 35.68
			Classroom materials	\$ 297.63
			Classroom tech materials	\$ 657.15
			Facilities-water filter	\$ 286.61
			Magnets for office	\$ 9.29
			Material for student activities	\$ 438.56
			Office chair for staff	\$ 185.71
			Shelves for facility	\$ 142.26
			SpEd class materials	\$ 769.98
			Tech-Macbook purchase	\$ 1,519.68
			Toner for office printer	\$ 51.56
122335 Total				\$ 4,394.11
122336	10/4/2022	Time Warner Cable	ISP & Phone services 091422-101322	\$ 3,871.40
122336 Total				\$ 3,871.40
122337	10/7/2022	Adriana San Millan School Psychology and Special Education Services, LLC	SpEd-IEP Meetings & Triennial psych evaluations	\$ 2,385.00
122337 Total				\$ 2,385.00
122338	10/7/2022	Alhambra	Water services	\$ 292.26
122338 Total				\$ 292.26
122339	10/7/2022	BrainPOP, LLC	Curriculum too-teacher access	\$ 230.00
122339 Total				\$ 230.00
122340	10/7/2022	Carlos Garcia-Avelar	Reim-Athletics uniform Jerseys	\$ 163.50
122340 Total				\$ 163.50
122341	10/7/2022	Josh Ripp	Reim for coffee and donuts for parenting meeting	\$ 42.73
122341 Total				\$ 42.73



122342	10/7/2022	Liminex, Inc.	Educational App	\$ 2,755.04
122342 Total				\$ 2,755.04
122343	10/7/2022	Lux Bus America Co.	College Trips-Transp. for 12th SJISU	\$ 4,110.65
122343 Total				\$ 4,110.65
122344	10/7/2022	Measure Education Inc.	Data management services	\$ 1,388.88
122344 Total				\$ 1,388.88
122345	10/7/2022	Michael Rich	Reim. for 12th grade lunch drinks	\$ 47.57
122345 Total				\$ 47.57
122346	10/7/2022	Nob Hill Catering Inc.	NSLP-Meals Sep 2022	\$ 13,497.50
122346 Total				\$ 13,497.50
122347	10/7/2022	Paulina Gonzalez	Reimb-Athletics uniform jerseys	\$ 1,046.40
122347 Total				\$ 1,046.40
122348	10/7/2022	PG&E	Utilities 08/19/22-09/19/22	\$ 5,371.89
122348 Total				\$ 5,371.89
122349	10/7/2022	Pure Janitorial	September 2022 Janitorial/supply/fogging	\$ 10,142.77
122349 Total				\$ 10,142.77
122350	10/7/2022	Security Crime Prevention Corp	Security for Banda Night	\$ 200.00
122350 Total				\$ 200.00
122351	10/7/2022	Sports Design Screen Printing	Athletic Uniform/Jerseys for Basketball	\$ 4,260.46
122351 Total				\$ 4,260.46
122352	10/14/2022	Mark T. Pierce	Employee: Pierce; Pay Date: 10/14/2022	\$ 2,055.93
122352 Total				\$ 2,055.93
122355	10/21/2022	Association of California School Administrators	Monthly deduction Invoice- J Ripp	\$ 101.59
122355 Total				\$ 101.59
122356	10/21/2022	CharacterStrong	Socioemotional learning toolkit subscription	\$ 750.00
122356 Total				\$ 750.00
122357	10/21/2022	Creative Design League	Senior Class T-Shirts	\$ 884.93
122357 Total				\$ 884.93
122358	10/21/2022	Elevator Service Company of Central California, Inc	Monthly Contract Service	\$ 275.00
122358 Total				\$ 275.00
122359	10/21/2022	Finn Scientific	Science lab materials	\$ 54.53
122359 Total				\$ 54.53
122360	10/21/2022	Maria A. Campos-Orona	Translation of the Ceiba Handbook	\$ 240.00
122360 Total				\$ 240.00
122361	10/21/2022	Spinnaker Ventures LLC	November 2022 Rent	\$ 26,245.50
122361 Total				\$ 26,245.50
122362	10/21/2022	State California Department of Justice	Fingerprinting services-Sept 2022	\$ 49.00
122362 Total				\$ 49.00
122363	10/21/2022	TIAA Commercial Finance, Inc.	Copier Lease	\$ 780.46
122363 Total				\$ 780.46
122364	10/21/2022	Tony Fernandez	Facilities-monthly landscape mtnc. for Locust St empty lot	\$ 350.00
122364 Total				\$ 350.00
122365	10/21/2022	Watsonville Pajaronian	Advertising in local newspaper	\$ 565.00
122365 Total				\$ 565.00
122366	10/21/2022	School Food Solutions LLC	NSLP-Apr 2022 FSA services and mailings	\$ 533.66
122366 Total				\$ 533.66
122367	10/24/2022	Airtac Service	HVAC preventative maintenance	\$ 3,853.00
122367 Total				\$ 3,853.00
122368	10/24/2022	BSN Sports LLC	Boys basketball uniforms	\$ 2,877.69
122368 Total				\$ 2,877.69
122369	10/24/2022	Henry Schrandt	Reimb for classroom books	\$ 246.30
122369 Total				\$ 246.30
122370	10/24/2022	Hexagon Transportation Consultants, Inc.	Traffic operations analysis	\$ 5,590.00
122370 Total				\$ 5,590.00



122371	10/24/2022	Jeffrey Garcia	Mileage reimb. for backpacking trip	\$ 121.25
122371 Total				\$ 121.25
122372	10/24/2022	Miles J. Dolinger, Attorney at Law	Legal serv. for facility rezoning-215 Locust	\$ 1,275.00
122372 Total				\$ 1,275.00
122373	10/24/2022	Monarch Embroidery & Design	Sports Uniforms	\$ 1,586.86
122373 Total				\$ 1,586.86
122374	10/24/2022	Nathan Winchell	Mileage reimbursement	\$ 216.25
122374 Total				\$ 216.25
122375	10/24/2022	Pacific Coast Athletic League	Athletics-Winter season dues! 2022-2023	\$ 860.00
122375 Total				\$ 860.00
122376	10/24/2022	Scholastic Book Fairs	School Book fair	\$ 1,112.60
122376 Total				\$ 1,112.60
122377	10/24/2022	Shelly De Leon	Reimbursement for PD Meals	\$ 149.21
			5-Star supplies/Snacks	\$ 986.10
			Acer monitors	\$ 616.47
			Classroom science supplies	\$ 1,938.98
			ELA book supplies	\$ 276.48
			IBENZER/Mac computer covers	\$ 32.76
			Noise cancelation ear plugs for teachers	\$ 28.09
			Radio communication	\$ 53.00
			Senior sunrise supplies	\$ 66.07
			Sterilite containers/Cafeteria supplies	\$ 67.74
			Thermal laminator supplies	\$ 24.02
122378 Total				\$ 4,674.67
122379	10/24/2022	Tony Fernandez	Facilities-monthly cleanup landscape	\$ 350.00
			Facilities-monthly cleanup mtrnc. for Locust St empty lot	\$ 350.00
122379 Total				\$ 700.00
122380	10/24/2022	Wald, Ruhnke & Dost Architects, LLP	Facilities-Architect services for permit	\$ 2,100.00
122380 Total				\$ 2,100.00
8073	10/13/2022	Manual Check	Watsonville HS-Girls Soccer Winter tournament	\$ 325.00
8073 Total				\$ 325.00
8074	10/17/2022	CIF/ Central Coast Section	Central Coast CIF-CCS Admin Fee	\$ 900.00
8074 Total				\$ 900.00
8075	10/11/2022	Manual Check	Griselda C.- Staff Lunch 10/12/22	\$ 350.00
8075 Total				\$ 350.00
8076	10/31/2022	Manual Check	UC Regents-6th Grade UCSC Lunch	\$ 212.98
8076 Total				\$ 212.98
8077	10/28/2022	Manual Check	UC Regents-6th Grade UCSC Lunch	\$ 221.69
8077 Total				\$ 221.69
8079	10/27/2022	Manual Check	US Regents-6th Grade UCSC lunch	\$ 242.66
8079 Total				\$ 242.66
8080	10/20/2022	Manual Check	San Francisco Zoo-8th grade college trip activity	\$ 1,725.00
8080 Total				\$ 1,725.00
8081	10/21/2022	Manual Check	Cartwheels-College tour 11th Grade	\$ 997.18
8081 Total				\$ 997.18
8082	10/25/2022	Manual Check	James Lunk Removal-Inv #122 Removal of broken desks	\$ 1,950.00
8082 Total				\$ 1,950.00
8084	10/24/2022	Manual Check	Griselda Cuevas-102122 Lunch prep.	\$ 71.08
8084 Total				\$ 71.08
8085	10/31/2022	Manual Check	Cal Poly Uni. Catering-Tour 80 guests	\$ 1,196.91
8085 Total				\$ 1,196.91
8086	10/31/2022	Manual Check	Cartwheels Dining serv.-College Trip	\$ 962.06
8086 Total				\$ 962.06
ACH Debit	10/21/2022	Card Service Center	Invoice for REQ-1138 September Credit Card Statement	\$ 5,661.29
			Invoice for REQ-1139 October 2022 Credit Card Statement	\$ 3,534.65
ACH Debit Total				\$ 9,195.94



Grand Total	\$ 166,064.26
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**CEIBA Public School**  
**WARRANT REGISTER DETAIL: November 2022**

Check Number	Check Date	Vendor	Transaction Description	Total
122386	11/1/2022	Clifton Larson Allen LLP	Audit services FY 21/22	\$ 12,057.15
122386 Total				\$ 12,057.15
122387	11/1/2022	Defensa Private Security, Inc.	Security for haloween carnival	\$ 396.00
122387 Total				\$ 396.00
122388	11/1/2022	Delta Managed Solutions, Inc	DMS November 2022 Business Services	\$ 11,900.00
122388 Total				\$ 11,900.00
122389	11/1/2022	Discovery	College trips-Transpostation for 8th SFSU-Balance	\$ 297.40
122389 Total				\$ 297.40
122390	11/1/2022	eLuma	SpEd-Speech & Language/Mental healthserv for FY 22/23	\$ 43,950.89
122391	11/1/2022	Griselda Cuevas	PD lunch for staff	\$ 600.00
122391 Total				\$ 600.00
122392	11/1/2022	Lifetouch Yearbook	22/23 Yearbook deposit	\$ 1,238.04
122392 Total				\$ 1,238.04
122393	11/1/2022	Michael's Transportation Service Inc.	6th grade college trip to USCS	\$ 2,822.00
			7th grade college trip to CSUMB	\$ 2,032.00
				\$ 4,314.00
122393 Total				\$ 320.00
122394	11/1/2022	Pajaro Valley Unified School District	Mello Center-college acceptance day	\$ 320.00
122394 Total				\$ 320.00
122395	11/1/2022	Staples Advantage	Office supplies order September 2022	\$ 2,456.38
122395 Total				\$ 2,456.38
122396	11/1/2022	Time Warner Cable	ISP & Phone services 101422-111322	\$ 3,855.57
122396 Total				\$ 3,855.57
122397	11/1/2022	Triad Electric	Service order-power for water heaters in restroom	\$ 667.47
122397 Total				\$ 667.47
122398	11/1/2022	Young, Minney & Corr, LLP	general attorney services	\$ 85.50
122398 Total				\$ 85.50
122400	11/7/2022	Alhambra	Water services	\$ 459.62
122400 Total				\$ 459.62
122401	11/7/2022	Anne Flesler	Vision and hearing screenings for SpEd/GenEd	\$ 375.00
122401 Total				\$ 375.00
122402	11/7/2022	Defensa Private Security, Inc.	Security for homecoming dance	\$ 198.00
122402 Total				\$ 198.00
122403	11/7/2022	Development Group Inc.	Tech-Cabling	\$ 1,361.72
122403 Total				\$ 1,361.72
122404	11/7/2022	Edmentum	Credit recovery tool	\$ 5,600.00
122404 Total				\$ 5,600.00
122405	11/7/2022	Nob Hill Catering Inc.	NSLP-Meals Sep 2022	\$ 11,599.25
122405 Total				\$ 11,599.25
122406	11/7/2022	PG&E	Utilities 092022-101822	\$ 4,510.09
122406 Total				\$ 4,510.09
122407	11/7/2022	Pure Janitorial	October 2022 Janitorial/supply/fogging	\$ 8,105.66
122407 Total				\$ 8,105.66
122408	11/7/2022	Santa Cruz County Tax Collector	22/23 1st/2nd Installment property tax bill for 228 Locust	\$ 1,169.42
			22/23 1st/2nd Installment property tax bill for 234 Locust	\$ 2,957.00
				\$ 4,126.42
122408 Total				\$ 3,750.00
122409	11/7/2022	Santa Clara County Office of Education	Tuition pmnt-CASC Teier II Tuition Fee	\$ 3,750.00
122409 Total				\$ 3,750.00
122410	11/7/2022	School Food Solutions L3C	FSA September 2022	\$ 598.85
122410 Total				\$ 598.85
122411	11/7/2022	Shannon Parsons	Mileage reimb for Sped conf/backpacking trip	\$ 372.25
122411 Total				\$ 372.25



122412	11/7/2022	Sync - Amazon	Radio communication	\$ 1,169.08
			5- star supplies	\$ 10.91
			5-star supplies	\$ 429.54
			ASB-cactus photo backdrop	\$ 18.39
			Banda night decorations	\$ 100.06
			Books	\$ 42.11
			Building supplies	\$ 19.36
			Colored paper	\$ 18.70
			DSM-5 Overview	\$ 8.60
			ELA Books supplies	\$ 446.29
			General supp-guitar strings	\$ 50.68
			General supplies	\$ 8.73
			Metal detector wand	\$ 92.96
			Office supplies	\$ 36.33
			Q2 Rally supplies	\$ 27.07
			Science supplies	\$ 51.88
			Supplies	\$ 21.62
122412 Total				\$ 2,552.31
122413	11/7/2022	Wald, Ruhnke & Dost Architects, LLP	ATA Survey	\$ 600.00
122413 Total				\$ 600.00
122416	11/14/2022	Adriana San Millan School Psychology and Special Education Services, LLC	SpEd-Psych eval,IEP services	\$ 2,090.00
122416 Total				\$ 2,090.00
122417	11/14/2022	Association of California School Administrators	Monthly deduction invoice- J Ripp	\$ 101.59
122417 Total				\$ 101.59
122418	11/14/2022	BSN Sports LLC	Girls basketball uniforms	\$ 3,738.88
122418 Total				\$ 3,738.88
122419	11/14/2022	City of Watsonville Utilities	Utilities-water line 10122022	\$ 221.90
122419 Total				\$ 221.90
122420	11/14/2022	Development Group Inc.	Tech-Cabling for cameras	\$ 12,255.50
122420 Total				\$ 12,255.50
122421	11/14/2022	Elevator Service Company of Central California, Inc	Monthly Contract Service	\$ 275.00
122421 Total				\$ 275.00
122422	11/14/2022	Flinn Scientific	Science lab materials	\$ 8.75
122422 Total				\$ 8.75
122423	11/14/2022	Measure Education Inc.	Data management services	\$ 1,388.88
122423 Total				\$ 1,388.88
122424	11/14/2022	Michael Rich	Reim.for CA Assessment conf./Ace/iPad	\$ 216.06
122424 Total				\$ 216.06
122425	11/14/2022	Miles J. Dolinger, Attorney at Law	Legal serv. for facility reoncing-215 Locust	\$ 85.00
122425 Total				\$ 85.00
122426	11/14/2022	PVUSD	PVUSD Quarterly Loan Pymt.34	\$ 52,256.03
122426 Total				\$ 52,256.03
122427	11/14/2022	Securanty, Inc.	Chromebook insurance bill	\$ 147.00
122427 Total				\$ 147.00
122428	11/14/2022	Spinnaker Ventures LLC	December 2022 Rent	\$ 26,245.50
122428 Total				\$ 26,245.50
122429	11/14/2022	Terminix Processing Center	Facilities-Pest control services	\$ 69.00
122429 Total				\$ 69.00
122430	11/14/2022	TIAA Commercial Finance, Inc.	Copier Lease	\$ 529.88
122430 Total				\$ 529.88
122432	11/18/2022	First Alarm	Qtrly monitoring services	\$ 1,370.73
122432 Total				\$ 1,370.73
122433	11/18/2022	Henry Schrandt	Reimb for classroom books	\$ 235.49
122433 Total				\$ 235.49



122434	11/18/2022	MBS Business Systems	Acc#CC18 Qtrly copier maintenance	\$ 1,360.93
122434 Total				\$ 1,360.93
122435	11/18/2022	Renaissance	Accelerated reader subscription	\$ 1,844.85
122435 Total				\$ 1,844.85
122436	11/18/2022	Selden & Son	AC Installation-labor	\$ 45,565.81
			AC Installation-material	\$ 75,009.89
122436 Total				\$ 120,575.70
122437	11/18/2022	Staples Advantage	Office supplies order	\$ 251.70
122437 Total				\$ 251.70
122439	11/28/2022	Carolina Biological Supply Company	Science lab material/supplies-remaining balance	\$ 170.80
122440	11/28/2022	City of Watsonville Utilities	Utilities-fire services 111622	\$ 204.48
122440 Total				\$ 204.48
122442	11/28/2022	City of Watsonville Utilities	Utilities-water line 111622	\$ 236.34
122442 Total				\$ 236.34
122443	11/28/2022	Clarissa Infante	Friendsgiving apple juice	\$ 220.00
122443 Total				\$ 220.00
122444	11/28/2022	Defensa Private Security, Inc.	Security for MS Winter dance	\$ 198.00
122444 Total				\$ 198.00
122445	11/28/2022	Delta Managed Solutions, Inc	DMS December 2022 Business Services	\$ 11,900.00
122445 Total				\$ 11,900.00
122446	11/28/2022	First Alarm	Qtrly monitoring services	\$ 177.50
122446 Total				\$ 177.50
122447	11/28/2022	Flinn Scientific	Science lab materials	\$ 27.31
122447 Total				\$ 27.31
122448	11/28/2022	Rachael Pedley	Reim for transport. for cross country team	\$ 194.30
122448 Total				\$ 194.30
122449	11/28/2022	Rebecca Bogdan RN, PHN	Vision and hearing screening for SpEd/GenEd	\$ 562.50
122449 Total				\$ 562.50
122450	11/28/2022	Rosario Ortega Infante	Reim. for staff thanksgiving snacks-pies,cider	\$ 86.95
122450 Total				\$ 86.95
122451	11/28/2022	School Food Solutions L3C	FSA October 2022	\$ 489.70
122451 Total				\$ 489.70
122452	11/28/2022	Shirley De Leon	Friendsgiving Costco	\$ 364.12
122452 Total				\$ 364.12
122453	11/28/2022	Terminix Processing Center	Monthly pest control	\$ 69.00
122453 Total				\$ 69.00
122454	11/28/2022	Wald, Ruhnke & Dost Architects, LLP	ATA Survey	\$ 420.00
122454 Total				\$ 420.00
8078	11/8/2022	Manual Check	UC Regents-6th grade UCSC lunch cafeteria 3	\$ 242.66
8078 Total				\$ 242.66
8083	11/1/2022	Manual Check	Discovery- 10th grade college trip UC Berk.	\$ 3,404.80
8083 Total				\$ 3,404.80
ACH Debit	11/14/2022	Card Service Center	Invoice for REQ-1140 November Credit Card Statement	\$ 3,305.32
ACH Debit Total				\$ 3,305.32
Grand Total				\$ 376,815.70



**CEIBA Public School**  
**WARRANT REGISTER DETAIL: December 2022**

Check Number	Check Date	Vendor	Transaction Description	Total
122459	12/2/2022	Alhambra	Water services	\$ 254.79
122459 Total				\$ 254.79
122460	12/2/2022	Central Coast Shipping & Screen	Uniform order	\$ 317.55
122460 Total				\$ 317.55
122461	12/2/2022	GigaKOM	Remote IT Service maintenance	\$ 1,058.50
122461 Total				\$ 1,058.50
122462	12/2/2022	Paulina Gonzalez	Reimb-Athletics track suits materials (girls soccer)	\$ 989.53
122462 Total				\$ 989.53
122463	12/2/2022	Tony Fernandez	Facilities-monthly cleanup mtnc. for Locust St empty lot	\$ 700.00
122463 Total				\$ 700.00
122465	12/8/2022	Flinn Scientific	Science lab materials	\$ 818.53
122465 Total				\$ 818.53
122466	12/12/2022	CharacterStrong	Sel and PD license renewal	\$ 1,997.00
122466 Total				\$ 1,997.00
122467	12/12/2022	MBS Business Systems	Qtrly copier maintenance	\$ 157.49
122467 Total				\$ 157.49
122468	12/12/2022	Measure Education Inc.	Data management services	\$ 1,388.88
122468 Total				\$ 1,388.88
122469	12/12/2022	Miles J. Dolinger, Attorney at Law	Legal serv. for facility rezoning-215 Locust	\$ 595.00
122469 Total				\$ 595.00
122470	12/12/2022	Nat Lewva	Sports-Mileage reimbursement for transporting students	\$ 59.50
122470 Total				\$ 59.50
122471	12/12/2022	Nob Hill Catering Inc.	NSLP-Meals Sept & Oct 2022 Adjustments	\$ 512.00
122471 Total				\$ 512.00
122472	12/12/2022	PG&E	Utilities 101922-111722	\$ 5,002.10
122472 Total				\$ 5,002.10
122473	12/12/2022	Pure Janitorial	November 2022 Janitorial/supply/fogging	\$ 9,372.27
122473 Total				\$ 9,372.27
122474	12/12/2022	School Food Solutions LLC	FSA August 2022	\$ 581.15
122474 Total				\$ 581.15
122475	12/12/2022	Spinnaker Ventures LLC	January 2022 Rent	\$ 26,245.50
122475 Total				\$ 26,245.50
122476	12/12/2022	Sync - Amazon	5- star supplies	\$ 278.93
			Classroom supplies	\$ 70.23
			Classroom technology supplies	\$ 40.37
			MS Girls soccer balls	\$ 82.72
			Office supplies/printer toner	\$ 76.46
			Sport supplies-HS boys basketball	\$ 409.70
			Supplies-boys basketball	\$ 436.95
			Supplies-instant ice packs	\$ 25.85
			Supplies-lunch board games	\$ 130.94
			Vacuum cleaner	\$ 196.60
			Vacuum cleaner for front office	\$ 179.86
122476 Total				\$ 1,928.61
122477	12/12/2022	Young, Minney & Corr, LLP	general attorney services	\$ 297.00
122477 Total				\$ 297.00
122482	12/15/2022	Alhambra	Water services	\$ 292.26
122482 Total				\$ 292.26
122483	12/15/2022	Clarissa Infante	Reimb. for MS Dance Decor.	\$ 69.82
122483 Total				\$ 69.82
122484	12/15/2022	Elevator Service Company of Central California, Inc	Monthly Contract Service	\$ 275.00
122484 Total				\$ 275.00



122485	12/15/2022	EventScapes Inc.	Promotion, graduation decorations	\$ 5,467.00
122485 Total				\$ 5,467.00
122486	12/15/2022	Henry Schrandt	Reimb for classroom books	\$ 805.80
122486 Total				\$ 805.80
122487	12/15/2022	MBS Business Systems	Qtrly copier maintenance	\$ 1,515.35
122487 Total				\$ 1,515.35
122488	12/15/2022	Melanie Larsen	Reim-Art course materials	\$ 444.35
122488 Total				\$ 444.35
122489	12/15/2022	Pajaro Valley Unified School District	Mello Center-Venue for Promotion, Graduation	\$ 1,827.00
122489 Total				\$ 1,827.00
122490	12/15/2022	Raquel Arenas-Humphrey	Reimb for Staff holiday supplies	\$ 181.01
122490 Total				\$ 181.01
122491	12/15/2022	Staples Advantage	Office supplies order	\$ 644.53
122491 Total				\$ 644.53
122492	12/15/2022	State California Department of Justice	Fingerprinting services-Nov 2022	\$ 98.00
122492 Total				\$ 98.00
122493	12/15/2022	Tacos Pacheco	Staff holiday lunch	\$ 825.00
122493 Total				\$ 825.00
122494	12/15/2022	Terminix Processing Center	Monthly pest control	\$ 69.00
122494 Total				\$ 69.00
122495	12/15/2022	TIAA Commercial Finance, Inc.	Copier Lease	\$ 529.88
122495 Total				\$ 529.88
122496	12/15/2022	Time Warner Cable	ISP & Phone services 111422-121322	\$ 3,871.41
122496 Total				\$ 3,871.41
122497	12/15/2022	Watsonville High School	HS JV Girls basketball Tourny entry fee	\$ 325.00
122497 Total				\$ 325.00
122498	12/20/2022	School Food Solutions L3C	NSLP-Apr 2022 FSA services and mailings	\$ 533.66
122498 Total				\$ 533.66
122505	12/29/2022	Amazon Capital Services, Inc.	Invoice for REQ-1142 Request	\$ 1,107.47
122505 Total				\$ 1,107.47
122506	12/29/2022	Association of California School Administrators	Monthly deduction invoice - J Ripp	\$ 101.59
122506 Total				\$ 101.59
122507	12/29/2022	Boardwalk Bowl	6th Grade after college trip activity	\$ 384.00
122507 Total				\$ 384.00
122508	12/29/2022	City of Watsonville Utilities	Utilities-fire services 121422	\$ 102.24
122508 Total				\$ 102.24
122509	12/29/2022	City of Watsonville Utilities	Utilities - Water, sewer, waste 121422	\$ 1,432.45
122509 Total				\$ 1,432.45
122510	12/29/2022	City of Watsonville Utilities	Utilities-water line 121422	\$ 229.12
122510 Total				\$ 229.12
122511	12/29/2022	Elevator Service Company of Central California, Inc	Semi annual inspection	\$ 365.00
122511 Total				\$ 365.00
122512	12/29/2022	Nob Hill Catering Inc.	NSLP-Meals Dec 2022	\$ 10,815.00
122512 Total				\$ 10,815.00
122513	12/29/2022	School Food Solutions L3C	FSA November 2022	\$ 643.10
122513 Total				\$ 643.10
8087	12/8/2022	Manual Check	Soccer Central Indoor-Alumni Homecoming Soccer	\$ 165.00
8087 Total				\$ 165.00
8088	12/7/2022	Manual Check	Delicias Taqueria-Homecoming 2022 dinner	\$ 457.21
8088 Total				\$ 457.21
8089	12/22/2022	Manual Check	Julio Gonzalez-DJ Homecoming	\$ 700.00
8089 Total				\$ 700.00



8090	12/13/2022	Manual Check	Irma Rivas-Homecoming Decorations	\$ 670.00
8090 Total				\$ 670.00
8091	12/22/2022	Manual Check	Julio Gonzalez-WS Winter Dance	\$ 450.00
8091 Total				\$ 450.00
ACH Debit	12/15/2022	Card Service Center	Invoice for REQ-1141 December 2022 Credit Card Statement	\$ 2,477.84
	12/29/2022	Santa Cruz County Bank - Loan #6830	Loan#6830 December 2022 ACH Pmt	\$ 35,491.65
ACH Debit Total				\$ 37,969.49
Grand Total				\$ 125,635.14



**CEIBA Public School**  
**WARRANT REGISTER DETAIL: January 2023**

Check Number	Check Date	Vendor	Transaction Description	Total
122519	1/9/2023	Measure Education Inc.	Data management services	\$ 1,388.88
122519 Total				\$ 1,388.88
122520	1/9/2023	Nat Leyva	Mileage Reim. HS boys basketball trans	\$ 33.00
122520 Total				\$ 33.00
122522	1/9/2023	Pure Janitorial	December 2022 Janitorial/supply/fogging	\$ 6,410.19
			Wax floors and carpet cleaning	\$ 2,700.00
122522 Total				\$ 9,110.19
122523	1/9/2023	Tony Fernandez	Facilities-monthly cleanup mtnc. empty lot	\$ 700.00
122523 Total				\$ 700.00
122524	1/9/2023	Wald, Ruhnke & Dost Architects, LLP	Facilities-Architect services for permit	\$ 750.00
122524 Total				\$ 750.00
122525	1/10/2023	Amazon Capital Services, Inc.	Classroom supplies	\$ 15.39
			5- star	\$ 32.73
			5- star snacks	\$ 37.58
			6th grade books	\$ 369.60
			Friendsgiving decor	\$ 156.07
			HS Basketball (sports)	\$ 34.94
			MS Flag Footballs	\$ 64.76
			MS Volleyball knee pads	\$ 173.80
122525 Total				\$ 894.87
122527	1/12/2023	Jeffrey Garcia	Mileage reimb. for backpacking trip	\$ 121.25
122527 Total				\$ 121.25
122530	1/17/2023	California Department of Education	Title I Part A Basic Grants	\$ 1.00
122530 Total				\$ 1.00
122531	1/17/2023	Carlson's Fire Extinguisher	Annual Fire Sprinkler Inspection	\$ 250.00
122531 Total				\$ 250.00
122532	1/17/2023	Delta Managed Solutions, Inc	DMS January 2023 Business Services	\$ 11,900.00
122532 Total				\$ 11,900.00
122533	1/17/2023	Elevator Service Company of Central California, Inc	Monthly Contract Service	\$ 275.00
122533 Total				\$ 275.00
122534	1/17/2023	Pure Janitorial	Dec 2022 Janitorial -Remaining balance	\$ 950.00
122534 Total				\$ 950.00
122535	1/17/2023	Sync - Amazon	Classroom technology supplies	\$ 140.93
			Business prime membership	\$ 381.28
			Chromebok Charges	\$ 163.80
			Classroom supplies (dry erase markers)	\$ 15.28
			First Aid Kits (6)	\$ 205.44
			Office supplies	\$ 63.90
			Refund	\$ (11.87)
			Snacks for Friendsgiving	\$ 23.99
			Sport supplies (flag football belts)	\$ 38.23
122535 Total				\$ 1,020.98
122536	1/17/2023	Time Warner Cable	ISP & Phone services 121422-011323	\$ 3,839.76
122536 Total				\$ 3,839.76
122537	1/23/2023	Airtec Service	HVAC preventative maintenance	\$ 3,922.46
122537 Total				\$ 3,922.46
122538	1/23/2023	Amazon Capital Services, Inc.	5- star	\$ 731.92
			Ana & Adriana(kindness Wednesdays or Afterschool club)	\$ 276.03
			MS Sports (flag football & Volleybal)	\$ 277.30
			MS Sports (Volleybal)	\$ 30.54
			Teacher Leadership	\$ 433.39



122538 Total				\$ 1,749.18
122539	1/23/2023	C3 Engineering, Inc.	Bioswale and letter to City of Watsonville	\$ 575.00
122539 Total				\$ 575.00
122540	1/23/2023	Donna Gembe	Reimbursement for fall semester awards envelopes	\$ 16.38
122540 Total				\$ 16.38
122541	1/23/2023	Pajaro Valley Lock Shop	Replace broken latch on admin gate/door	\$ 226.02
122541 Total				\$ 226.02
122542	1/23/2023	Paulina Gonzalez	Reimb. Online CPR Course	\$ 37.00
122542 Total				\$ 37.00
122543	1/23/2023	Premier Training Services LLC - Richard Rocha	First aid/CPR training for staff	\$ 822.00
122543 Total				\$ 822.00
122544	1/23/2023	Rachael Pedley	PD Breakfast items	\$ 53.02
122544 Total				\$ 53.02
122545	1/23/2023	Selden & Son	Driveway and sidewalk Maintenance and repair	\$ 16,110.62
122545 Total				\$ 4,904.68
122546	1/23/2023	Spinnaker Ventures LLC	February 2023 Rent	\$ 21,015.30
122546 Total				\$ 26,245.50
122547	1/23/2023	State California Department of Justice	Fingerprinting services-Dec 22	\$ 98.00
122547 Total				\$ 98.00
122548	1/23/2023	Time Warner Cable	ISP & Phone services 011423-021323	\$ 3,866.28
122548 Total				\$ 3,866.28
122552	1/31/2023	Central Coast Shipping & Screen	Unifrom order	\$ 525.60
122552 Total				\$ 525.60
122553	1/31/2023	City of Watsonville Utilities	Utilities-fire services 011823	\$ 102.24
122553 Total				\$ 102.24
122554	1/31/2023	City of Watsonville Utilities	Utilities - Water,sewer,waste 011823	\$ 1,319.01
122554 Total				\$ 1,319.01
122555	1/31/2023	City of Watsonville Utilities	Utilities-water line 011823	\$ 229.12
122555 Total				\$ 229.12
122556	1/31/2023	Defensa Private Security, Inc.	Security for Glow Battle Night Dance	\$ 198.00
122556 Total				\$ 198.00
122557	1/31/2023	Delta Managed Solutions, Inc	DMS February 2023 Business Services	\$ 11,900.00
122557 Total				\$ 11,900.00
122558	1/31/2023	Michael Rich	Reim.for Technology for attendance kiosk (pad&Printer)	\$ 651.86
122558 Total				\$ 651.86
122559	1/31/2023	Nat Leyva	Mileage Reimbursement	\$ 166.63
122559 Total				\$ 166.63
122560	1/31/2023	San Joaquin County Office of Education	EDJOIN annual acct fees/Staff recruitment	\$ 1,200.00
122560 Total				\$ 1,200.00
122561	1/31/2023	Staples Advantage	Office supplies order	\$ 2,007.73
122561 Total				\$ 2,007.73
122562	1/31/2023	Tony Fernandez	Facilities-maintenance for Admin lot	\$ 2,000.00
122562 Total				\$ 2,000.00
122563	1/31/2023	USA Custom Pad Corp	Diploma Covers	\$ 584.65
122563 Total				\$ 584.65
122564	1/31/2023	Wald, Ruhnke & Dost Architects, LLP	Facilities-Architect services for permit	\$ 105.00
122564 Total				\$ 105.00
ACH Debit	1/17/2023	PG&E	PGE Online pmt 011723 for 111822-121822	\$ 5,564.24
			PGE Online pmt 011723-EZ Pay Convenience Fee	\$ 1.35
		Card Service Center	Invoice for REQ-1143 January Credit Card Statement	\$ 3,846.04
	1/31/2023	Card Service Center	Invoice for REQ-1144 Credit Card Payment *	\$ 2,124.02
ACH Debit Total				\$ 11,535.65
Grand Total				\$ 122,376.56



**CEIBA Public School**  
**WARRANT REGISTER DETAIL: February 2023**

Check Number	Check Date	Vendor	Transaction Description	Total
122570	2/6/2023	Adriana San Millan School Psychology and Special Education Services, LLC	Triennial Psycho-Eval	\$ 1,795.00
122570 Total				\$ 1,795.00
122571	2/6/2023	Amazon Capital Services, Inc.	5-star snacks	\$ 8.73
			5 Star Student Snacks	\$ 53.94
			Glow battle night/Nathan	\$ 132.17
			MS Sports/S. Gutierrez	\$ 409.00
			Reflective Rain . Ripp	\$ 487.51
			Reflective Rain J. Ripp	\$ 136.78
			Teacher Leadership/J.Ripp	\$ 17.84
			Technology/M. Rich	\$ 48.75
122571 Total				\$ 1,294.72
122572	2/6/2023	Nob Hill Catering Inc.	NSLP-Meals Nov 2022	\$ 14,692.50
122572 Total				\$ 14,692.50
122573	2/6/2023	Pacific Coast Athletic League	Track & Field League Fees	\$ 730.00
122573 Total				\$ 730.00
122574	2/6/2023	Parent Institute for Quality Education	Parent Education	\$ 25,000.00
122574 Total				\$ 25,000.00
122575	2/6/2023	PG&E	Utilities 121922-011823	\$ 5,676.04
122575 Total				\$ 5,676.04
122576	2/6/2023	School Service, Inc	Tardy pass books	\$ 79.99
122576 Total				\$ 79.99
122577	2/6/2023	Selden & Son	January Maintenance	\$ 7,034.60
122577 Total				\$ 7,034.60
122578	2/13/2023	Association of California School Administrators	Monthly deduction invoice- J Ripp	\$ 101.59
122578 Total				\$ 101.59
122579	2/13/2023	Card Service Center	Invoice for REQ-1145 February 2023 Credit Card Statement	\$ 5,732.85
122579 Total				\$ 5,732.85
122580	2/13/2023	Daniel Aguirre Garcia	Mileage Reimb. for basketball games	\$ 353.42
122580 Total				\$ 353.42
122581	2/13/2023	Elevator Service Company of Central California, Inc	Monthly Contract Service	\$ 275.00
			Semi annual inspection	\$ 365.00
122581 Total				\$ 640.00
122582	2/13/2023	First Alarm	Alarm repairs for card readers & other wirin	\$ 4,137.18
			Qtrly Service Call	\$ 120.00
122582 Total				\$ 4,257.18
122583	2/13/2023	Measure Education Inc.	Data management services	\$ 1,388.88
122583 Total				\$ 1,388.88
122584	2/13/2023	Miles J. Dollinger, Attorney at Law	Legal serv. for facility rezoning-215 Locust	\$ 2,125.00
122584 Total				\$ 2,125.00
122585	2/13/2023	Nat Leyva	Basketball-team dinner reimbursement	\$ 285.70
122585 Total				\$ 285.70
122586	2/13/2023	Nob Hill Catering Inc.	NSLP-Meals January 2023	\$ 12,401.25
122586 Total				\$ 12,401.25
122587	2/13/2023	Pure Janitorial	January 2023 Janitorial Services	\$ 9,673.98
122587 Total				\$ 9,673.98
122588	2/13/2023	PVUSD	PVUSD Quarterly Loan Pymt.35	\$ 52,256.03
122588 Total				\$ 52,256.03
122589	2/13/2023	School Food Solutions LLC	FSA December 2023	\$ 681.45
122589 Total				\$ 681.45
122590	2/13/2023	Spinnaker Ventures LLC	March 2023 Rent	\$ 26,245.50
122590 Total				\$ 26,245.50



122591	2/13/2023	St. Francis High School	Use of facilities for soccer game	\$ 100.00
122591 Total				\$ 100.00
122592	2/13/2023	TIAA Commercial Finance, Inc.	Copier Lease	\$ 576.03
122592 Total				\$ 576.03
122593	2/13/2023	T-Mobile	Hot spot given to students during distance learning-final in	\$ 361.48
122593 Total				\$ 361.48
122594	2/13/2023	Tony Fernandez	Facilities-maintenance for 215 & empty lot	\$ 700.00
122594 Total				\$ 700.00
122595	2/13/2023	Young, Minney & Corr, LLP	January 2023 Attorney services	\$ 712.50
122595 Total				\$ 712.50
122599	2/15/2023	MBS Business Systems	Qtrly copier maintenance	\$ 689.90
122599 Total				\$ 689.90
122600	2/15/2023	Nat Leyva	Reimb-Stanford womens basketball game	\$ 225.00
122600 Total				\$ 225.00
122601	2/15/2023	State California Department of Justice	Fingerprinting services-Jan 23	\$ 32.00
122601 Total				\$ 32.00
122603	2/22/2023	Alhambra	Water services	\$ 172.35
122603 Total				\$ 172.35
122604	2/22/2023	Defensa Private Security, Inc.	Security for Grad Night	\$ 198.00
122604 Total				\$ 198.00
122605	2/22/2023	First Alarm	Qtrly monitoring services	\$ 1,463.94
122605 Total				\$ 1,463.94
122606	2/22/2023	Gilroy Gardens Family Theme Park	Deposit for Prom	\$ 1,000.00
122606 Total				\$ 1,000.00
122607	2/22/2023	Josh Ripp	Reim for parent meeting	\$ 91.78
122607 Total				\$ 91.78
122608	2/22/2023	Nat Leyva	Reimb-SHS Girls BB YMCA Booking	\$ 100.00
122608 Total				\$ 100.00
122609	2/22/2023	Reliable Translations, Inc.	Interpreter for Parent Meeting	\$ 241.15
122609 Total				\$ 241.15
122610	2/22/2023	Santa Cruz Pipe Fitters	Plumbing repairs	\$ 655.00
122610 Total				\$ 655.00
122611	2/22/2023	School Food Solutions L3C	FSA January 2023	\$ 619.50
122611 Total				\$ 619.50
122612	2/22/2023	Staples Advantage	Office supplies order	\$ 1,598.57
122612 Total				\$ 1,598.57
122613	2/22/2023	Statewide Roofing	Inspected and cleaned roof,waterways,drains	\$ 1,800.00
122613 Total				\$ 1,800.00
122614	2/22/2023	Sync - Amazon	Campus Sec.-Microfiber cleaning cloth	\$ 17.44
122614 Total				\$ 17.44
122615	2/22/2023	Terminix Processing Center	Mice Abatement	\$ 148.00
122615 Total				\$ 148.00
122616	2/22/2023	Time Warner Cable	ISP & Phone services 020423-031323	\$ 3,866.28
122616 Total				\$ 3,866.28
122617	2/22/2023	Wald, Ruhnke & Dost Architects, LLP	Surveyor	\$ 13,616.00
122617 Total				\$ 13,616.00
8093	2/7/2023	Manual Check	H & M Party Rentals-02092 Fall semester awards night	\$ 3,168.22
8093 Total				\$ 3,168.22
8094	2/21/2023	CIF/Central Coast Section	PCAL-Rule Books Track & Field	\$ 133.00
8094 Total				\$ 133.00
Grand Total				\$ 204,731.82



# June 13, 2022

## Description:

YouTube video from **Ceiba's Board Meeting** [Start at 45:07]  
<https://www.youtube.com/watch?v=SaiNgf6h9fc&t=1961s>

## Summary:

During this meeting, Principal Ripp discusses the latest facility construction work and highlights the Hexagon Report goal to have the City accept the midblock crosswalk directly in front of the driveway. (This would be very useful for Ceiba's expansion plan to connect to the Chevron Properties.) Ripp also mentions Ceiba Cares picking up trash a few times and the outreach to the community. No stakeholders we know of were contacted.

Most importantly, Ripp highlighted that "For all of the upgrades we have done, **the City has signed off on those to say yes we are going to do a remodel we need to have permission to do this and that and so they have been notified of everything we have been doing to make our school into a school, basically.**" [Emphasis added]

Ripp also states to his board that there is precedent for Ceiba to be in a different zone. There are no other PVUSD schools in an industrial zone.



# **Hexagon Registered Engineers Failed to Independently Verify Material Data in Ceiba's Parking Study**

## **Other Irregularities Regarding Parking**



## Background

Hexagon was retained to conduct a parking study on behalf of Ceiba. According to the State of California Education Board, in 2021 Ceiba had the following grade distribution ([Source: Ed-Data](#)).

Year	6-8	9-12	Total	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
2021-2022	226	285	511	72	70	84	83	75	62	65

The scope of the project was presented to Hexagon by a licensed real estate broker, Elizabeth Sanborn Falcon (Falcon) of Benchmark Realty Advisors, retained by Ceiba. On May 27, 2021, Falcon, on behalf of Ceiba, submitted an application to the City of Watsonville for a General Plan Map Amendment (to change the site's land use designation from Industrial to Public/Quasi-Public), Zoning Map Amendment (to change the site's zoning designation from IG to N for Institutional), and Special Use Permit (App. No. 1737) to allow the existing school use to remain permanently. Falcon sent Hexagon an email dated October 8, 2021 stating she was working on a "CUP Amendment." She also defined the scope of the project and provided materially false statements.

In response to Falcon's request, Hexagon produced a memorandum, dated November 4, 2021, signed by registered traffic engineer Oliver Zhou (License Number TR 2857) and Hexagon Planner Katie Riutta. It was addressed to Falcon with the subject "Parking Study for Ceiba College Preparatory Academy, Watsonville, California." The Memorandum is full of many false statements and data points from Falcon's email that Mr. Zhou utilized verbatim in his report. He failed to independently verify these statements, validate the parking spaces on the site plan, and consequently, misled the public in a material land use decision.

In the email exchange between Elizabeth Sanbon Falcon with Ollie Zhou dated October 25, 2021. Falcon instructs Zhou:



Hi Ollie, please be sure and read all the way down the e-mail chain so you are clear on the project information.

The following shows Falcon's predicating statements and then Zhou's resulting statements and explains why they are false:

### **False Statement #1:**

Falcon's Statement in her email:

"Student driving is prohibited per existing CUP and school policy."

Zhou's Statement on Page 1, Paragraph 2 of his Memorandum emphasizes:

"It should be noted that student driving is prohibited per the existing CUP and school policy."

**This is false.** The CUP does not state that student driving is prohibited. Condition 21 of the CUP states the following,

Students shall not be allowed to park at the facility. (WPD)

The school policy does not "prohibit" driving. On page 26 of Ceiba's 2021-2022 Family Handbook, it states:

Parking on campus is reserved for staff, parent/guardians and visitors. Students who drive must park off campus.

### **Falcon False Statement #2**

Falcon's Statement in her email:

"The site has 61 spaces. Site Plan attached."

Zhou's Statement, Page 1. Paragraph 2 of his Memorandum states:

"The site has 61 spaces."

**This is false.** It appears that Zhou never visited the site. Had he viewed he would have seen that 8 of the spaces are designated playing areas. Instead of independently validating the parking count, Zhou used the



false figure provided by Ceiba. This misinformation was also clarified by City Planner Justin Meek (Meek) in an email to Elizabeth Sanborn Falcon on December 22, 2021. In the email, Meek states the following:

“The updated Existing Site Plan indicates that there are 63 stripped [sic] parking spaces, including three ADA accessible spaces. This is inaccurate. The area shown as spaces 50 through 57 is not used for parking. Rather, there are existing pavement markings for use by children as an outside play area. The Existing Site Plan needs to be revised to reflect that this area is not being used for parking vehicles but instead for recreation.”

Additionally, this parking count discrepancy was clarified by Meek, in an email dated July 27, 2022 to Nick Bulaich, a lifelong resident of Locust Streetl. Meek acknowledges the shortcoming in Zhou’s parking spaces count, specifies that spaces #50-57 are not striped and are play areas and that the site “does not provide parking spaces that meet city standards.”

(The parking spaces figure continues to change. It is unclear what parking spaces are legal.)

Please look to the staff report for the City’s position on any and all issues. Regarding parking, under the “existing site” discussion on page 6, the site is described as providing 53 parking spaces. This is different from the Parking Study, what states that 61 parking spaces are provided onsite.

Parking spaces are shown on the existing site plan included as attachment 2. As noted on said plan, certain spaces (#50-57) are not striped as parking spaces but instead used as an outside play area. Therefore, the actual number of parking spaces provided onsite is 53 spaces (61 - 8 = 53).

In addition, under the “parking” discussion on pages 12-13, the staff report notes that the existing school site does not provide parking spaces that meet city standards. Therefore, the analysis provided therein focuses on the inadequate parking supply and how to reduce the demand for parking and avoid spillover effects on nearby streets.

### Falcon False Statement #3

Falcon’s Statement in her email:

“Watsonville city code calls for 1 space per staff member plus 20 additional.”

Zhou’s Statement, Page 1. Paragraph 1 of his Memorandum states:

“The Watsonville Municipal Code requires one space per staff member plus 20 additional spaces.”

**This is false.** Watsonville Municipal Code Section 14-16.803(6)(ii) states that the City’s parking requirements for education facilities (public/private) are as follows:



(i) Definition: Buildings and uses for public or private educational or research activities associated with an academic institution which has a curriculum for technical, vocational training, or higher education.

(ii) Parking requirements:

(aa) Elementary or junior high school, one space per employee plus one space for every twenty (20) students of school design capacity.

(bb) High school, one space per employee plus one space for every seven (7) students of school design capacity.

As stated above, in 2021 Ceiba had 226 middle school students and 285 high school students. Per the Watsonville Municipal Code, the parking requirement would be 63 spaces (1 space per employee), plus 11 spaces (1 space per 20 middle school students), plus 40 spaces (1 space per 7 high school students), for a total requirement up to 114 spaces, not 83.

Falcon's statements are false, and Zhou, as a registered traffic engineer, was ethically obligated to properly examine them. Had Zhou done so, he would have discovered the falsification and then provided competent criticism. Instead, Zhou included Falcon's false statements in his Memorandum, which falsely concluded that Ceiba had sufficient parking available to support the school's current parking needs.

**Page 3. Paragraph 1, Zhou's Memorandum states:**

"The school currently has 63 staff members and 61 parking spaces on-site. Based on the City's parking standards, the school is required to provide 83 parking spaces (one space per staff member plus 20 additional spaces). Thus, the school is currently 22 spaces short of this requirement."

As noted in the calculation above, the school is currently up to 61 spaces short (possibly more) of this requirement, nearly 3x more than Zhou calculated.

Zhou did not count student parking:

**Page 3. Paragraph 2, Zhou's Memorandum concludes:**

"The peak parking demand observed at the Ceiba College Preparatory Academy was found to be 60 vehicles, which is fewer than the existing supply of 61 spaces. Therefore, the existing parking supply is sufficient to support the peak parking demand."



## **Conclusion**

The work performed by Zhou and Hexagon on the referenced parking study is seriously defective and deceptive. It presents unquestionably false information as having been verified by the Hexagon Staff. Their false information was presented to the Watsonville Planning Commission on April 5, 2022 for the purpose of influencing a land use vote. That same false information was also presented to the Watsonville City Council on February 28, 2023 to influence that vote as well.

Additionally, the scope only covered the southern block of Locust Street. This is inadequate as the parking overspill occurs throughout the neighborhood. Meek should have noted that defect in the study.

The National Society of Professional Engineers' Code of Ethics states that engineers shall issue public statements only in an objective and truthful manner. The integrity of the engineering profession depends on ensuring that all engineers adhere to the highest ethical standards.



# October 7 - December 22, 2021

## **Description:**

Emails exchanges between Hexagon, Elizabeth Sanborn Falcon, Ollie Zhou, Josh Ripp, Gary Black, Katie Riutta, Michelle Hunt, and Justin Meek regarding the Hexagon Parking Study

## **Summary:**

In these emails, Elizabeth Sanborn Falcon repeatedly misstates facts. Hexagon team failed to independently verify any of the data.

Also, Justin Meek alluded to a “traffic demand study”, but one was never conducted.



---

**From:** Justin Meek <[justin.meek@cityofwatsonville.org](mailto:justin.meek@cityofwatsonville.org)>  
**Sent:** Thursday, October 7, 2021 4:25 PM  
**To:** Elizabeth Sanborn Falcon <[esanborn@pacbell.net](mailto:esanborn@pacbell.net)>  
**Cc:** Suzi Merriam <[suzi.merriam@cityofwatsonville.org](mailto:suzi.merriam@cityofwatsonville.org)>  
**Subject:** Re: Ceiba Revised CUP Application

Hi Elizabeth,

Regarding your first question, either approach would be acceptable. If you would like to move forward with the traffic demand study, we would first review the proposed scope before work would begin.

Regarding the application for just a Special Use Permit to allow the permanent establishment of Ceiba at its current location, I can confirm receipt of said request. As we discussed, staff does not support this approach and would recommend denial without a concurrent application for changing the land use designation from Industrial to Public/Quasi Public and zoning from General Industrial to Institutional.

Regards,

Justin





---

**From:** Elizabeth Sanborn Falcon <[esanborn@pacbell.net](mailto:esanborn@pacbell.net)>  
**Sent:** Friday, October 8, 2021 11:20 AM  
**To:** Gary Black <[gblack@hextrans.com](mailto:gblack@hextrans.com)>  
**Subject:** FW: Parking Utilization Study for Ceiba School Watsonville

Hi Gary, I just sent the e-mail below to Michelle and received an automatic reply that she is out of the office for a while. I'm wondering if you can take a look at this and let me know if this is something Hexagon would be interested in working on.

I don't believe that you and I have ever spoken but I've worked with Hexagon going way back to the early Rocketship days.

Best regards and thank you,  
Elizabeth Sanborn

**Elizabeth Sanborn Falcon**  
**Benchmark Realty Advisors**  
**900 E. Hamilton Ave. Suite 100**  
**Campbell, CA 95008**

**408-885-1110 (Office)**  
**831-402-3900 (Cell)**  
**CA BRE# 00468326**

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**From:** Elizabeth Sanborn Falcon <[esanborn@pacbell.net](mailto:esanborn@pacbell.net)>  
**Sent:** Friday, October 8, 2021 10:53 AM  
**To:** Michelle Hunt <[mhunt@hextrans.com](mailto:mhunt@hextrans.com)>  
**Subject:** Parking Utilization Study for Ceiba School Watsonville

Hi Michelle, I am working on a CUP amendment application for a project in Watsonville. The City has requested a parking utilization study. All they have given me is the wording below. They have authorized me to order the study, but I will need to submit the proposal and scope of work to the City for approval.

Ceiba College Preparatory Academy is a charter middle and high school in an industrially zoned area at 215 Locust Street, formerly 260 W. Riverside Drive, Watsonville that has been on the site since 2013 with a CUP that has a 10 year time limitation. We are applying for a CUP amendment to make it permanent. There are 525 students in grades 6-12 and 63 staff members. Approximately 20% of staff carpool and approximately 15% are part time. Student driving is prohibited per existing CUP and school policy. Watsonville city code calls for 1 space per staff member plus 20 additional. The site has 61 spaces. Site Plan attached.

Please let me know if this is something you'd be interested in preparing. If so, please let me know what additional information you need in order to prepare a proposal.

Thank you,  
Elizabeth

**Parking Utilization Study.** Additional information is needed to substantiate that adequate parking is provided onsite and/or anticipated carpooling to ensure staff members do not spill out onto city streets. A parking utilization study for the site and similar schools could help address whether the provision of 61 parking spaces for 63 staff members is sufficient. As previously discussed, Hexagon and other transportation engineering and planning firms are qualified for preparing such a study.

**Elizabeth Sanborn Falcon**  
**Benchmark Realty Advisors**  
**900 E. Hamilton Ave. Suite 100**  
**Campbell, CA 95008**

**408-885-1110 (Office)**  
**831-402-3900 (Cell)**  
**CA BRE# 00468326**



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**From:** Elizabeth Sanborn Falcon <[esanborn@pacbell.net](mailto:esanborn@pacbell.net)>  
**Sent:** Friday, October 8, 2021 1:37 PM  
**To:** Gary Black <[gblack@hextrans.com](mailto:gblack@hextrans.com)>  
**Subject:** RE: Parking Utilization Study for Ceiba School Watsonville

Agree, let's just start off with Ceiba and Yes, the school is fully operational with all classrooms full

Thanks and have a good weekend.

**Elizabeth Sanborn Falcon**  
**Benchmark Realty Advisors**  
**900 E. Hamilton Ave. Suite 100**  
**Campbell, CA 95008**

**408-885-1110 (Office)**  
**831-402-3900 (Cell)**  
**CA BRE# 00468326**

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**From:** Gary Black <[gblack@hextrans.com](mailto:gblack@hextrans.com)>  
**Sent:** Friday, October 8, 2021 12:56 PM  
**To:** Elizabeth Sanborn Falcon <[esanborn@pacbell.net](mailto:esanborn@pacbell.net)>  
**Subject:** RE: Parking Utilization Study for Ceiba School Watsonville

Hi Elizabeth,

Yes, we will send you a proposal for this. Since the school just wants a use permit for what it is already doing, I'm curious why the city wants other schools counted. Maybe we can start off just counting Ceiba School and see if that will be enough. Is the school fully operational now, kids in classrooms, all classrooms full?

**Gary Black, AICP**

President

**Hexagon Transportation Consultants, Inc.**

San Jose | Gilroy | Pleasanton

4 North Second Street, Suite 400 | San Jose, California 95113 | phone 408.971.6100 | fax 408.971.6102

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# HEXAGON TRANSPORTATION CONSULTANTS, INC.

October 11, 2021

Ms. Elizabeth Sanborn Falcon  
Benchmark Realty Advisors  
900 E. Hamilton Ave. Suite 100  
Campbell, CA 95008

**Re: *Proposal to Conduct a Parking Study for Ceiba College Preparatory Academy in Watsonville, California***

Dear Ms. Falcon:

Hexagon Transportation Consultants, Inc. is pleased to submit this proposal to conduct a parking study for the Ceiba College Preparatory Academy located at 215 Locust Street in Watsonville, California. The purpose of this study is to determine whether sufficient parking is available to support the current number of staff.

## Scope of Services

The tasks to be included in the parking study are:

1. **Data Collection.** Parking occupancy counts will be collected for both the parking lot and adjacent on street parking for every 15 minutes from 9:00 AM to noon on three typical weekdays.
2. **Data Analysis.** Peak parking demand will be calculated and determined based on the data collected from the counts.
3. **Reports.** The results of the parking study will be included in a letter report.

The cost for services rendered under this agreement is quoted for a lump sum amount of \$3,000. Barring any unforeseen delays, a memo will be submitted approximately three weeks after receipt of a signed contract agreement.

We look forward to working with you and appreciate your consideration of Hexagon Transportation Consultants, Inc. for this assignment. If you have any questions, please do not hesitate to call. Thank you.

Sincerely,

**HEXAGON TRANSPORTATION CONSULTANTS, INC.**

Gary K. Black  
President

4 North Second Street, Suite 400 • San Jose, California 95113 • phone 408.971.6100 • fax 408.971.6102 • [www.hextrans.com](http://www.hextrans.com)



**From:** [Justin Meek](#) on behalf of [Justin Meek](#) <[justin.meek@cityofwatsonville.org](mailto:justin.meek@cityofwatsonville.org)>  
**To:** [Elizabeth Sanborn Falcon](#)  
**Cc:** [Suzi Merriam](#); [Maria Esther Rodriguez](#); [Adolfo Gonzalez](#)  
**Subject:** Re: Ceiba Revised CUP Application Parking Study  
**Date:** Friday, October 15, 2021 4:01:02 PM  
**Attachments:** [Ceiba School Parking Study Proposal 10-11-2021.pdf](#)

---

Hi Elizabeth,

The proposed scope of work for conducting a parking study for Ceiba at 215 Locust Street is acceptable.

Regards,  
Justin



On Tue, Oct 12, 2021 at 8:51 AM Elizabeth Sanborn Falcon <[esanborn@pacbell.net](mailto:esanborn@pacbell.net)> wrote:

Hi Justin,

Attached is the proposal from Hexagon and scope of work. They have not included data from other schools and would not normally include this if the school being studied is back in full operation on-site, as Ceiba currently is. Please let me know as soon as possible if this is acceptable so that I can authorize them to proceed.

**Elizabeth Sanborn Falcon**

**Benchmark Realty Advisors**

**900 E. Hamilton Ave. Suite 100**

**Campbell, CA 95008**

**408-885-1110 (Office)**

**831-402-3900 (Cell)**

**CA BRE# 00468326**



---

**From:** Elizabeth Sanborn Falcon <[esanborn@pacbell.net](mailto:esanborn@pacbell.net)>  
**Sent:** Friday, October 15, 2021 4:09 PM  
**To:** Gary Black <[gblack@hextrans.com](mailto:gblack@hextrans.com)>  
**Cc:** Josh Ripp <[josh.ripp@ceibaprep.org](mailto:josh.ripp@ceibaprep.org)>  
**Subject:** RE: Parking Utilization Study for Ceiba School Watsonville

Hi Gary, the City has authorized me to proceed with the study as outlined in your proposal. The client is Ceiba Public Schools c/o Josh Ripp, copied above. 215 Locust Street, Watsonville, CA 95076.

Please let me know if you need any further information and when the report is done please send it by e-mail to Josh with a copy to me.

Thanks and have a good weekend.

**Elizabeth Sanborn Falcon**  
**Benchmark Realty Advisors**  
**900 E. Hamilton Ave. Suite 100**  
**Campbell, CA 95008**

**408-885-1110 (Office)**  
**831-402-3900 (Cell)**  
**CA BRE# 00468326**





**Gary Black**

RE: Parking Utilization Study for Ceiba School Watsonville

To: Elizabeth Sanborn, Cc: Josh Ripp

October 15, 2021 at 4:50 PM

[Details](#)

Thanks, Elizabeth. We will get the counts set up.

**Gary Black, AICP**

President

**Hexagon Transportation Consultants, Inc.**

San Jose | Gilroy | Pleasanton

4 North Second Street, Suite 400 | San Jose, California 95113 | phone 408.971.6100 | fax 408.971.6102

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[See More from Elizabeth Sanborn](#)



**Ollie Zhou**

RE: Parking Utilization Study for Ceiba School Watsonville

To: Elizabeth Sanborn, Cc: Gary Black, josh.ripp@ceibaprep.org

October 18, 2021 at 5:00 PM

[Details](#)

Hi Elizabeth,

My name is Ollie Zhou and I will be the project manager for this study. To help us in identifying the 3 dates to conduct our parking counts, could you please provide the following information:

- When does school start in the morning?
- Could the school identify 5 days of “normal operations” in the next few weeks?
- Name and phone number for a contact person at the school. We typically ask for this since schools can be a sensitive area.

Thank you!

**Ollie Zhou, T.E.**

Principal Associate

**Hexagon Transportation Consultants, Inc.**

San Jose | Gilroy | Pleasanton

4 North Second Street, Suite 400 | San Jose, California 95113 | ph. 408.971.6100 | fx. 408.971.6102

[www.hextrans.com](http://www.hextrans.com)

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[See More from Elizabeth Sanborn](#)





**Gary Black**

RE: Parking Utilization Study for Ceiba School Watsonville

To: Elizabeth Sanborn, Cc: Josh Ripp, Ollie Zhou

October 19, 2021 at 8:15 AM

[Details](#)

Hi Elizabeth,

Will we receive a contract for this? Or is this email sufficient for Josh?

**Gary Black, AICP**

President

**Hexagon Transportation Consultants, Inc.**

San Jose | Gilroy | Pleasanton

4 North Second Street, Suite 400 | San Jose, California 95113 | phone 408.971.6100 | fax 408.971.6102

[www.hextrans.com](http://www.hextrans.com)

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[See More from Elizabeth Sanborn](#)



**Josh Ripp**

Re: Parking Utilization Study for Ceiba School Watsonville

To: Ollie Zhou, Cc: Elizabeth Sanborn, Gary Black

October 19, 2021 at 8:16 AM

[Details](#)

Hi Ollie,

1. School begins at 8:30AM
2. Monday through Friday are "normal operations" Mondays end at 2pm. Tuesdays through Fridays staggered ending at 3:45PM or 4:30PM.
3. Josh Ripp, Head of School, Personal Cell: 719.247.0641

Thank you!

**Josh Ripp**

*Head of School*

*Ceiba College Prep*

*215 Locust St*

*Watsonville, CA. 95076*

*(831) 740-8786*

[See More from Ollie Zhou](#)



RE: Parking Utilization Study for Ceiba School Watsonville

To: Josh Ripp, Cc: Elizabeth Sanborn, Gary Black, Katie Riutta

[Details](#)

Hi Josh,

Thanks for providing the info. Our staff (Katie Riutta – cc-ed here) will be on site next Tuesday-Thursday (10/26-10/28) to conduct the parking study. She will need access to the school parking lots. If it's gated, she may be contacting you via the cell you provided.

We also want to confirm the areas where there are designated school parking. See image below. The green area is the school. We observed that the purple area is designated for Ceiba admins. Is that still the case? Is school parking allowed in the red area? And are there any other areas where school parking is allowed?

Thank you!

-Ollie







**Ollie Zhou**

October 22, 2021 at 1:32 PM

RE: Parking Utilization Study for Ceiba School Watsonville

To: Josh Ripp, Cc: Elizabeth Sanborn, Gary Black, Katie Riutta



[Details](#)

Hi Josh,

Wanted to resurface this email. Please see the highlighted section in email below.

Thank you,

-Ollie

[See More from Ollie Zhou](#)

Found in Email-Sanborn\_Falcon\_Benchmark\_Realty--josh.ripp@ceibaprep.org-2 Mailbox



**Josh Ripp**

October 22, 2021 at 1:46 PM

Fwd: Parking Utilization Study for Ceiba School Watsonville

To: Elizabeth Sanborn



Is there a certain way I should respond to this?

**Josh Ripp**

Head of School  
Ceiba College Prep  
215 Locust St  
Watsonville, CA. 95076  
(831) 740-8786

----- Forwarded message -----



**Elizabeth Sanborn**

October 22, 2021 at 2:41 PM

Re: Parking Utilization Study for Ceiba School Watsonville

To: Josh Ripp



**Siri Found a Phone Number**

Elizabeth Sanborn Falcon  
(408) 885-1110

[Update](#) ×

Hi Josh, you can confirm with them that the purple area which is the driveway from W Riverside is still for admin. The red area is not part of the site. I don't know why they show Locust Street as purple also.

Elizabeth Sanborn Falcon  
Benchmark Realty Advisors  
900 E. Hamilton Ave. #100  
Campbell, CA. 95008  
408-885-1110  
831-402-3900 (Mobile)  
CA DRE #00468326

[See More from Josh Ripp](#)

Found in Email-Hexagon\_Transportation--josh.ripp@ceibaprep.org-2 Mailbox



**Josh Ripp**

October 22, 2021 at 3:39 PM

Re: Parking Utilization Study for Ceiba School Watsonville

To: Ollie Zhou, Cc: Elizabeth Sanborn, Gary Black, Katie Riutta



[Details](#)

Good Afternoon Mr. Zhou,

The purple area which is the driveway from W Riverside continues to be parking for Ceiba administrators. The red area is not part of the site. Locust Street is also not part of the site.

**Josh Ripp**  
Head of School  
Ceiba College Prep  
215 Locust St  
Watsonville, CA. 95076  
(831) 740-8786

[See More from Ollie Zhou](#)





**Josh Ripp**

October 22, 2021 at 3:39 PM

Re: Parking Utilization Study for Ceiba School Watsonville

To: Elizabeth Sanborn



Thank you!

**Josh Ripp**

Head of School  
Ceiba College Prep  
215 Locust St  
Watsonville, CA. 95076  
(831) 740-8786

[See More from Elizabeth Sanborn](#)

Found in Email-Hexagon\_Transportation--josh.ripp@ceibaprep.org-2 Mailbox



**Elizabeth Sanborn**

October 25, 2021 at 9:45 AM

RE: Parking Utilization Study for Ceiba School Watsonville

To: Ollie Zhou, Josh Ripp, Cc: Gary Black, Katie Riutta



[Details](#)

Hi Ollie, I just want to make certain that you are aware that there is a school policy that prohibits student driving. This is a condition of the conditional use permit.

**Elizabeth Sanborn Falcon**  
Benchmark Realty Advisors  
900 E. Hamilton Ave. Suite 100  
Campbell, CA 95008

408-885-1110 (Office)  
831-402-3900 (Cell)  
CA BRE# 00468326

[See More from Ollie Zhou](#)



**Ollie Zhou**

October 25, 2021 at 10:40 AM

RE: Parking Utilization Study for Ceiba School Watsonville

To: Elizabeth Sanborn, Josh Ripp, Cc: Gary Black, Katie Riutta



[Details](#)

Thanks Elizabeth,

-Ollie

[See More from Elizabeth Sanborn](#)

Found in Email-Hexagon\_Transportation--josh.ripp@ceibaprep.org-2 Mailbox



**Elizabeth Sanborn**

October 25, 2021 at 1:22 PM

RE: Parking Utilization Study for Ceiba School Watsonville

To: Ollie Zhou, Josh Ripp, Cc: Gary Black, Katie Riutta



[Details](#)

Hi Ollie, please be sure and read all the way down the e-mail chain so you are clear on the project information.

**Elizabeth Sanborn Falcon**  
Benchmark Realty Advisors  
900 E. Hamilton Ave. Suite 100  
Campbell, CA 95008

408-885-1110 (Office)  
831-402-3900 (Cell)  
CA BRE# 00468326

[See More from Ollie Zhou](#)





**Ollie Zhou**

Ceiba School Parking Utilization Study

To: Josh Ripp, Cc: Gary Black, Katie Riutta, Elizabeth Sanborn

November 4, 2021 at 2:42 PM



[Details](#)

Hi Josh,

Attached is our memorandum summarizing our parking utilization study. Please let us know if you have questions.

**Ollie Zhou, T.E.**

Principal Associate

**Hexagon Transportation Consultants, Inc.**

San Jose | Gilroy | Pleasanton

4 North Second Street, Suite 400 | San Jose, California 95113 | ph. 408.971.6100 | fx. 408.971.6102

[www.hextrans.com](http://www.hextrans.com)

Please consider the environment before printing this material.



Hexagon Ceiba  
School...1-4.pdf



**Elizabeth Sanborn**

RE: Ceiba School Parking Utilization Study

To: Ollie Zhou, Josh Ripp, Cc: Gary Black, Katie Riutta

November 4, 2021 at 5:44 PM

[Details](#)

Thank you, Ollie. I have worked with Hexagon for many years and you always come in with a professional report on time. Appreciated!

Best,  
Elizabeth

**Elizabeth Sanborn Falcon**

**Benchmark Realty Advisors**

**900 E. Hamilton Ave. Suite 100**

**Campbell, CA 95008**

**408-885-1110 (Office)**

**831-402-3900 (Cell)**

**CA BRE# 00468326**

[See More from Ollie Zhou](#)



**From:** [Justin Meek](#) on behalf of [Justin Meek](#) <[justin.meek@cityofwatsonville.org](mailto:justin.meek@cityofwatsonville.org)>  
**To:** [Elizabeth Sanborn Falcon](#)  
**Cc:** [Suzi Merriam](#); [Maria Esther Rodriguez](#)  
**Subject:** Re: Ceiba Status  
**Date:** Wednesday, December 22, 2021 9:19:28 PM

---

Hi Elizabeth,

I am glad to hear that you had a productive meeting with Maria Esther Rodriguez and that the safe routes to schools and related conditions have been clarified. I too will need to learn more about the requirements for floodproofing a school located in the 100-year floodplain.

I have had a chance to review the Parking Study (Hexagon, 11/4/21) and updated Existing Site Plan (WR&D, sheet A101, 11/3/21). The parking study confirms that street parking is utilized to satisfy the school's parking demand. As discussed in the study and shown in Table 1, 10 vehicles were observed to park on-street for school use. Furthermore, the school site does not meet the City's parking requirement of 83 spaces (one space per staff member plus 20 additional spaces).

The updated Existing Site Plan indicates that there are 63 stripped parking spaces, including three ADA accessible spaces. This is inaccurate. The area shown as spaces 50 through 57 is not used for parking. Rather, there are existing pavement markings for use by children as an outside play area. The Existing Site Plan needs to be revised to reflect that this area is not being used for parking vehicles but instead for recreation.

To address the lack of onsite parking, additional conditions would need to be applied to reduce the parking demand and spillover onto nearby streets. The following measures would accomplish this objective and will need to be implemented.

- **Parking Cash-Out.** Provide employees a choice of forgoing current parking for a cash payment to be determined by the employer.
- **Transit Subsidies.** Involves the subsidization of transit fare for residents and employees of the project site. This strategy assumes transit service is already present in the project area. Pays for employees to use local transit. This could either be a discounted ticket or a full-reimbursed transit ticket.
- **Employer Sponsored Vanpool or Shuttle.** Implementation of employer-sponsored employee vanpool or shuttle providing new opportunities for access to connect employees to the project site.
- **Preferential Carpool / Vanpool Parking Spaces.** Reserved carpool / vanpool spaces closer to the building entrance.
- **Employee/Employer Car Share.** Provide an on-site car vehicle for employees to use for short trips. Off-site allowed if located on a nearby street. This allows for employees to run errands or travel for lunch.
- **Mandatory Travel Behavior Change Program.** Involves the development of a travel behavior change program that targets individuals' attitudes, goals, and travel behaviors, educating participants on the impacts of their travel choices and the opportunities to alter their habits. Provide a web site that allows employees to research other modes of transportation for commuting. Employee-focused travel behavior change program that targets individuals attitudes, goals, and travel behaviors, educating participants on the impacts of their travel choices and the opportunities to alter their habits.
- **Promotions and Marketing.** Involves the use of marketing and promotional tools to



educate and inform travelers about site- specific transportation options and the effects of their travel choices with passive educational and promotional materials. Marketing and public information campaign to promote awareness of TDM program with an on-site coordinator to monitor program.

Lastly, regarding the approval process for allowing Ceiba to establish a school use on a permanent basis, Suzi has spoken with the City Manager. Staff's position remains that a general plan map amendment and rezoning are required to move forward.

Respectfully,  
Justin

P.S. I am sending this email from home and will be away for the holidays starting tomorrow. I will return to the office on Monday, January 10, 2022.



On Wed, Dec 15, 2021 at 11:05 AM Elizabeth Sanborn Falcon <[esanborn@pacbell.net](mailto:esanborn@pacbell.net)> wrote:

Hi Justin, I'm sorry you were not able to make the meeting last week with Maria Esther. We made a lot of progress on the conditions of approval and she is checking into the reason for the flood-proofing requirement (incomplete item #5) in that it was not required with the original CUP. In any event, this requirement needs to be removed because there is no new construction involved and the previous work done by Ceiba does not qualify as either "new construction" or "substantial improvement".

I am also wondering where we are with regard to incomplete items #1-4. We submitted a parking study and plans in response to these items on 11/19. Also, Suzi, where are we with regard to your conversations with the City Manager regarding a text amendment instead of your recommendation of a general plan amendment, which both the owner and Ceiba are opposed to.

Thank you,

Elizabeth

**Elizabeth Sanborn Falcon**

**Benchmark Realty Advisors**

**900 E. Hamilton Ave. Suite 100**

**Campbell, CA 95008**



# May 7, 2022

## **Description:**

Slide from Ceiba's Town Hall Meeting.

## **Summary:**

In this slide, Ceiba's response to the Watsonville Planning Commission Concerns regarding Parking is to:

1. Acquire additional parking
2. Encourage students to park further away from school.

Students routinely impact other neighborhoods by using parking areas needed by neighboring stakeholders. Hexagon, Ceiba, and the City of Watsonville have never done a **legitimate** parking study.



## Watsonville Planning Commission Concerns

CONCERN	DETAILS	CEIBA Response
TRAFFIC	<ul style="list-style-type: none"> <li>• Start/D dismissal</li> <li>• Locust St not passable</li> <li>• Crossing guards favor students</li> </ul>	<ul style="list-style-type: none"> <li>• Consultant Recommendations</li> <li>• Cross-walks</li> <li>• Street signs</li> </ul>
PARKING	<ul style="list-style-type: none"> <li>• Insufficient parking for staff</li> <li>• Students and parents park on Locust St</li> </ul>	<ul style="list-style-type: none"> <li>• Acquire additional parking</li> <li>• Encourage students to park further away from school</li> </ul>
INDIVIDUAL BEHAVIOR	<ul style="list-style-type: none"> <li>• Students litter on neighboring properties</li> <li>• Students trespass on neighboring properties</li> <li>• Rude interactions between students/parents and neighbors</li> <li>• Loud music is played during dances</li> </ul>	<ul style="list-style-type: none"> <li>• CEIBA CARES "Clean Up" Crew</li> <li>• Encourage community to respect neighbors and their property</li> <li>• Host dances inside our building</li> </ul>



# August 16-18, 2022

## **Description:**

Email exchanges dated August 16, 2022 and August 18, 2022, from Josh Ripp to the PVUSD and Santa Cruz County Board of Education Re Ceiba College Prep- Zoning Issue

## **Summary:**

In these letters, Ripp misleads government authorities by stating “Ceiba implemented a traffic plan that resulted in there being virtually no traffic back-up on Locust, reached out to our neighbors through a Ceiba Cares community group, and acquired additional parking spaces to address the parking concerns.”

The reality is that Ceiba dangerously scattered the student drop-off and pick-up activity along Highway 129 and all over the industrial zone. It made no outreach to impacted stakeholders, nor did it acquire any additional parking.



From: Josh Ripp josh.ripp@ceibaprep.org  
Subject: Ceiba College Prep - Watsonville City Council Hearing  
Date: August 16, 2022 at 9:34 AM  
To: Superintendent Unknown superintendent@pvusd.net  
Cc: Kristen Shouse kristen\_shouse@pvusd.net

JR

Dear Dr. Rodriguez,

I hope your 2022-23 school year is off to a great start! I am writing to let you know about an upcoming Watsonville City Council hearing that will impact the future of Ceiba College Prep and may also influence Pajaro Valley Unified District.

In 2013, Ceiba received a 10-year conditional use permit from the Watsonville Planning Commission to operate at our current site - 215 Locust St (at that time our address was 260 W. Riverside). That conditional use permit is set to expire at the end of this school year in June of 2023. In response, Ceiba is attempting to rezone our property from industrial to institutional so that we may continue operating our school at our current site beyond the 2022-23 school year.

On April 5, 2022, Ceiba appeared before the Watsonville Planning Commission to request that they recommend to the City Council that our property be rezoned as institutional. The Planning Commission voted 3-2 in favor of Ceiba's request to recommend a rezoning, but 4 affirmative votes were necessary to gain a recommendation for approval as a majority of the total Planning Commissioners (6 total with 1 seat vacant) is necessary for them to approve a recommendation. Thus, the Planning Commission did not make a formal recommendation to rezone our property as institutional. A subsequent [April 6th Pajaronian article](#) described some of the events that occurred during the meeting.

After the Planning Commission hearing, Watsonville city staff informed Ceiba that our request to rezone our property would still move forward to the Watsonville City Council for a zoning decision, albeit without a recommendation for approval or denial from the planning commission. Ceiba is tentatively scheduled to appear before the Watsonville City Council on August 30, 2022, but that date has not been confirmed.

If the Watsonville City Council approves Ceiba's request to rezone our property to institutional, Ceiba will be able to continue operations indefinitely at our current site pending WASC accreditations and PVUSD Board of Trustee authorizations. However, if the Watsonville City Council denies our recommendation, Ceiba faces the probability of closure at the end of the 2022-23 school year. Ceiba's closure means 525 students in grades 6 through 12 would likely return to PVUSD schools for the 2023-24 school year, including approximately 70 special education students. Our school building would also need to be remodeled and returned to a delivery warehouse. As you are aware, California charter schools may request facilities or facility funding through Proposition 39. However, in 2013 Ceiba and PVUSD signed a Prop 39 settlement agreement (see attached) that extends through the 2023-24 school year meaning would not pursue facilities from the district next school year.

During the Planning Commission hearing, neighbors voiced concerns about traffic on Locust St at drop-off and pick-up times, poor student behavior before and after school, insufficient parking, and litter being found on streets around Ceiba. In response, Ceiba implemented a traffic plan that resulted in there being virtually no traffic back-up on Locust, reached out to our neighbors through a Ceiba Cares community group, and acquired additional parking spaces to address the parking concerns. In addition, Ceiba has or is in the process of complying with 36 conditions of approval (see attached) that could result in over \$500,00 invested in the local community for traffic signs, crosswalks, and sidewalks.

Ceiba would be extremely appreciative if you would be willing to voice your support of our school and/or our requested rezoning to the Watsonville City Council members (listed below). However, I also understand if you would prefer to not get involved. In any event, I wanted to let you know about the future of Ceiba so your district can prepare appropriately regardless of the Watsonville City Council hearing outcome.

Please let me know if you have any questions.



<b>All City Council Members</b>	<a href="mailto:cityclerk@cityofwatsonville.org">cityclerk@cityofwatsonville.org</a> <a href="mailto:citymanager@cityofwatsonville.org">citymanager@cityofwatsonville.org</a>
<b>District 1:</b> <b>Mayor Pro Tempore Eduardo Montesino</b>	<a href="mailto:eduardo.montesino@cityofwatsonville.org">eduardo.montesino@cityofwatsonville.org</a> <a href="mailto:cityclerk@cityofwatsonville.org">cityclerk@cityofwatsonville.org</a>
<b>District 2:</b> <b>Vanessa Quiroz-Carter</b>	<a href="mailto:vanessa.quiroz@cityofwatsonville.org">vanessa.quiroz@cityofwatsonville.org</a> <a href="mailto:cityclerk@cityofwatsonville.org">cityclerk@cityofwatsonville.org</a>
<b>District 3:</b> <b>Lowell Hurst</b>	<a href="mailto:lowell.hurst@cityofwatsonville.org">lowell.hurst@cityofwatsonville.org</a> <a href="mailto:cityclerk@cityofwatsonville.org">cityclerk@cityofwatsonville.org</a>
<b>District 4:</b> <b>Francisco Estrada</b>	<a href="mailto:Francisco.Estrada@cityofwatsonville.org">Francisco.Estrada@cityofwatsonville.org</a> <a href="mailto:cityclerk@cityofwatsonville.org">cityclerk@cityofwatsonville.org</a>
<b>District 5:</b> <b>Rebecca J. Garcia</b>	<a href="mailto:rebecca.garcia@cityofwatsonville.org">rebecca.garcia@cityofwatsonville.org</a> <a href="mailto:cityclerk@cityofwatsonville.org">cityclerk@cityofwatsonville.org</a>
<b>District 6:</b> <b>Jimmy Dutra</b>	<a href="mailto:jimmy.dutra@cityofwatsonville.org">jimmy.dutra@cityofwatsonville.org</a> <a href="mailto:cityclerk@cityofwatsonville.org">cityclerk@cityofwatsonville.org</a>
<b>District 7:</b> <b>Mayor Ari Parker</b>	<a href="mailto:ari.parker@cityofwatsonville.org">ari.parker@cityofwatsonville.org</a> <a href="mailto:cityclerk@cityofwatsonville.org">cityclerk@cityofwatsonville.org</a>

Thank you,

**Josh Ripp**  
Head of School  
Ceiba College Prep  
215 Locust St  
Watsonville, CA 95076  
(831) 740-8786



2022 Ceiba  
Special...lan.pdf



2013 Ceiba  
PVUSD...(2).pdf



**From:** Josh Ripp josh.ripp@ceibaprep.org  
**Subject:** Ceiba College Prep - Zoning Issue  
**Date:** August 17, 2022 at 4:28 PM  
**To:** Faris Sabbah fsabbah@santacruzcoe.org

JR

Good Afternoon Faris,

Thank you for helping us charter schools get the 2022-23 school year off to a great start! I am writing to let you know about an upcoming Watsonville City Council hearing that will impact the future of Ceiba.

In 2013, Ceiba received a 10-year conditional use permit from the Watsonville Planning Commission to operate at our current site - 215 Locust St (at that time our address was 260 W. Riverside). That conditional use permit is set to expire in June of 2023. In response, Ceiba is attempting to rezone our property from Industrial to Institutional so that we may continue operating our school at our current site beyond the 2022-23 school year.

On April 5, 2022, Ceiba appeared before the Watsonville Planning Commission to request that they recommend to the Watsonville City Council that our property be rezoned as institutional. The Watsonville Planning Commission voted 3-2 in favor of Ceiba's request to recommend a rezoning, but 4 affirmative votes were necessary to gain a recommendation for approval as a majority of the total Planning Commissioners (6 total with 1 seat vacant) is necessary for them to approve a recommendation. Thus, the Planning Commission did not make a formal recommendation to rezone our property as institutional. A subsequent [April 6th Pajaronian article](#) described some of the events that occurred during the meeting.

After the Planning Commission hearing, Watsonville city staff informed Ceiba that our request to rezone our property would still move forward to the Watsonville City Council for a decision, albeit without a recommendation for approval or denial. Now, Ceiba is tentatively planned to appear before the Watsonville City Council on August 30, 2022, but that date has not been confirmed.

If the Watsonville City Council approves Ceiba's request to rezone our property to institutional, Ceiba will be able to continue operations indefinitely at our current site pending WASC accreditations and PVUSD Board of Trustee authorizations. However, if the Watsonville City Council denies our recommendation, Ceiba faces the probability of closure at the end of the 2022-23 school year. Ceiba's closure means 525 students in grades 6 through 12 would likely return to PVUSD schools for the 2023-24 school year, including approximately 70 special education students. Our school building would also need to be remodeled and returned to a delivery warehouse. As you are aware, California charter schools may request facilities or facility funding through Proposition 39. However, in 2013 Ceiba and PVUSD signed a Prop 39 settlement agreement that extends through the 2023-24 school year meaning Ceiba could not pursue facilities from the district next school year.

During the Planning Commission hearing, neighbors voiced concerns about traffic on Locust St at drop-off and pick-up times, instances of poor student behavior before and after school, insufficient parking, and litter being found on streets around Ceiba. In response, Ceiba implemented a traffic plan that resulted in there being virtually no traffic back-up on Locust, reached out to our neighbors through a Ceiba Cares community group, and acquired additional parking spaces to address the parking concerns. In addition, Ceiba has or is in the process of complying with 36 conditions of approval (see attached) that could result in over \$500,000 invested in the local community for traffic signs, crosswalks, and sidewalks.

Ceiba would be extremely appreciative if you would be willing to voice your support for our school and our requested rezoning to the Watsonville City Council members (listed below). I know it's in the Ceiba community's as well as the Watsonville community's best interest to continue to have Ceiba as an educational option for local youth.

Please let me know if you have any questions.

Thanks,

Josh Ripp



**From:** Josh Ripp josh.ripp@ceibaprep.org  
**Subject:** Re: Ceiba College Prep - Zoning Issue  
**Date:** August 18, 2022 at 7:43 AM  
**To:** Faris Sabbah fsabbah@santacruzcoe.org

Thank you! Yes, we're working all angles.

On Wed, Aug 17, 2022 at 11:32 PM Faris Sabbah <[fsabbah@santacruzcoe.org](mailto:fsabbah@santacruzcoe.org)> wrote:

If you haven't already done so... I would recommend you put together a "war room" team to activate your parent community and begin a full-court press (letters to the editor, emails, calls, attending board meetings)

Faris



DR. FARIS SABBABH  
SUPERINTENDENT OF SCHOOLS

**Dr. Faris Sabbah**

County Superintendent of Schools

(831) 466-5900 | [fsabbah@santacruzcoe.org](mailto:fsabbah@santacruzcoe.org)

[www.santacruzcoe.org](http://www.santacruzcoe.org)

[400 Encinal St. Santa Cruz, CA 95060](#)

pronouns: he, him, his



On Wed, Aug 17, 2022 at 11:18 PM Faris Sabbah <[fsabbah@santacruzcoe.org](mailto:fsabbah@santacruzcoe.org)> wrote:

Hi Josh,

Thanks for this information.

I will be reaching out to City Council members to support the school. I will also be writing a letter of support

Faris



DR. FARIS SABBABH  
SUPERINTENDENT OF SCHOOLS

**Dr. Faris Sabbah**

County Superintendent of Schools

(831) 466-5900 | [fsabbah@santacruzcoe.org](mailto:fsabbah@santacruzcoe.org)

[www.santacruzcoe.org](http://www.santacruzcoe.org)

[400 Encinal St. Santa Cruz, CA 95060](#)

pronouns: he, him, his





# October 28, 2022

## Description:

Email exchanges dated October 28, 2022 from Josh Ripp to Elizabeth Sanborn re FW: Couple of things re Ceiba

## Summary:

In these emails, Ripp advocates for AB 2097 to apply to Ceiba, since Ceiba is incapable of meeting its parking requirement.

Sanborn shares her conversation with Suzi Merriam and Justin Meek, and adds:

**“If they are not going to fight us on the per student parking requirement then there is no need to fight them on this at this time,** but I still think we fall under the definitions under 21064.3 section C highlighted on the attached.” [Emphasis added]

It is clear that the City of Watsonville had planned to waive Ceiba’s parking requirement, despite the fact that Ceiba **DID NOT** acquire additional parking spaces.



**From:** Elizabeth Sanborn Falcon [esanborn@pacbell.net](mailto:esanborn@pacbell.net)  
**Subject:** FW: Couple of things re Ceiba  
**Date:** October 27, 2022 at 6:32 PM  
**To:** Josh Ripp [josh.ripp@ceibaprep.org](mailto:josh.ripp@ceibaprep.org)

ES

Hi Josh, here is the e-mail chain with Suzi and Justin today re AB2097. I've also included the attachments from the first e-mail to them. If they are not going to fight us on the per student parking requirement then there is no need to fight them on this at this time but I still think we fall under the definitions under 21064.3. section C highlighted on the attached.

Take a look and let me know what you think.

**Elizabeth Sanborn Falcon**  
**Benchmark Realty Advisors**  
900 E. Hamilton Ave. Suite 100  
Campbell, CA 95008

408-885-1110 (Office)  
831-402-3900 (Cell)  
CA BRE# 00468326

---

**From:** Justin Meek <[justin.meek@cityofwatsonville.org](mailto:justin.meek@cityofwatsonville.org)>  
**Sent:** Thursday, October 27, 2022 3:37 PM  
**To:** Elizabeth Sanborn Falcon <[esanborn@pacbell.net](mailto:esanborn@pacbell.net)>  
**Cc:** Suzi Merriam <[suzi.merriam@cityofwatsonville.org](mailto:suzi.merriam@cityofwatsonville.org)>  
**Subject:** Re: Couple of things re Ceiba

Hi Elizabeth,

As we discussed last week, AB 2097 does not apply here. There are no major transit stops or high-quality transit corridors in Watsonville, unlike in the Bay Area near BART, Caltrain and BRT lines.

High quality transit is expected in the AMBAG region in the future, but not everywhere. The MTP/SCS for the AMBAG region shows future high quality transit coming to Santa Cruz and parts of Monterey County. See Figure 4-10.

[https://www.ambag.org/sites/default/files/2022-07/AMBAG\\_MTP-SCS\\_Final\\_EntireDocument\\_PDFA\\_Updated071422.pdf](https://www.ambag.org/sites/default/files/2022-07/AMBAG_MTP-SCS_Final_EntireDocument_PDFA_Updated071422.pdf)

Justin



**Justin Meek, AICP | Principal Planner**

.....  
**City of Watsonville**  
250 Main Street  
Watsonville, CA 95076  
p. 831.768.3077



On Thu, Oct 27, 2022 at 2:39 PM Elizabeth Sanborn Falcon <[esanborn@pacbell.net](mailto:esanborn@pacbell.net)> wrote:

Thank you, Suzi. It still seems to me that even if this is not a "bus rapid transit station" that it still qualifies under 21064.3 section C, the intersection of 2 major bus routes with service intervals of 15 minutes or less during peak commute hours. Below is a link to a spreadsheet that Josh put together using the Santa Cruz metro website showing the departures for tomorrow.

[https://docs.google.com/spreadsheets/d/1Efn\\_Mf\\_xjAgZ6KGy5PzPjsaZIXSWz7rLiezGBScBAgQ/edit#gid=0](https://docs.google.com/spreadsheets/d/1Efn_Mf_xjAgZ6KGy5PzPjsaZIXSWz7rLiezGBScBAgQ/edit#gid=0)

Let me know what you think.

Elizabeth Sanborn Falcon  
Benchmark Realty Advisors  
900 E. Hamilton Ave. Suite 100  
Campbell, CA 95008

408-885-1110 (Office)  
831-402-3900 (Cell)  
CA BRE# 00468326

---

**From:** Suzi Merriam <[suzi.merriam@cityofwatsonville.org](mailto:suzi.merriam@cityofwatsonville.org)>  
**Sent:** Thursday, October 27, 2022 1:26 PM  
**To:** Elizabeth Sanborn Falcon <[esanborn@pacbell.net](mailto:esanborn@pacbell.net)>  
**Cc:** Justin Meek <[justin.meek@cityofwatsonville.org](mailto:justin.meek@cityofwatsonville.org)>  
**Subject:** Re: Couple of things re Ceiba

Hi Elizabeth-

We can get the letters from the Bulaich family to you. The metro center is not a bus rapid transit center. It's only a bus depot. SC Metro does not provide frequent enough routes to consider any bus route or the transit center as "high quality" or "rapid."

On Thu, Oct 27, 2022 at 12:31 PM Elizabeth Sanborn Falcon <[esanborn@pacbell.net](mailto:esanborn@pacbell.net)> wrote:

Justin and Suzi, I have a couple of questions re Ceiba.

1. I'd like to get a copy of the memos that the Bulaich family has been presenting to City Council. Do I need to make a public records request?



2. Ceiba is located less than ½ mile from the Watsonville transit center at 475 Rodriguez. AB 2097 provides that parking minimums cannot be imposed on projects within ½ mile of a “major transit stop”. A “major transit stop” is as defined in PRC 21064.3 and includes an existing rail or bus rapid transit station. Please take a look at the website below for the Watsonville transit station. <http://www.scmtd.com/en/riders-guide/transit-centers>. You will be able to see all of the various bus routes and departure/arrival times. I'd like to know what your thinking is as to why AB2097 does not apply to Ceiba.

I've included the AB 2097 bill text as well as the text of PRC21155 and PRC21064.3.

Thanks!  
Elizabeth

**Elizabeth Sanborn Falcon**  
**Benchmark Realty Advisors**  
**900 E. Hamilton Ave. Suite 100**  
**Campbell, CA 95008**

**408-885-1110 (Office)**  
**831-402-3900 (Cell)**  
**CA BRE# 00468326**

--



**Suzi Merriam**

Community Development  
Department Director

**831.768.3050**

250 Main Street  
Watsonville CA, 95076

Firefox

<https://leginfo.legislature.ca.gov/faces/printCodeSectionWindow.xhtml...>



## **PUBLIC RESOURCES CODE - PRC**

**DIVISION 13. ENVIRONMENTAL QUALITY [21000 -  
21189.70.10] ( Division 13 added by Stats. 1970, Ch. 1433. )**



# November 28, 2022

## **Description:**

Email dated November 28, 2022 between Ceiba attorney, Miles Dolinger and Justin Meek re Ceiba Preparatory Academy; AB Parking Exception

## **Summary:**

In this email, Miles Dolinger urges the City to reconsider the City's analysis and position about the application of AB 2097 to Ceiba's application and provides his analysis.



**From:** [Miles Dolinger](#) on behalf of [Miles Dolinger](#) <[miles@dolingerlaw.com](mailto:miles@dolingerlaw.com)>  
**To:** [justin.meek@cityofwatsonville.org](mailto:justin.meek@cityofwatsonville.org)  
**Cc:** [Josh Ripp](#); [Elizabeth Sanborn Falcon](#); [suzi.merriam@cityofwatsonville.org](mailto:suzi.merriam@cityofwatsonville.org)  
**Subject:** Ceiba Preparatory Academy; AB 2097 Parking Exception  
**Date:** Monday, November 28, 2022 7:36:55 PM  
**Attachments:** [Watsonville Transit Center Departure Times - Sheet1 \(1\) \(1\) \(1\) \(002\).pdf](#)  
[image001.png](#)

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Dear Mr. Meek:

My office represents Ceiba College Preparatory Academy and I have been advising it on issues related to the development entitlements that it is applying to the City for in order to continue Ceiba's school uses after the termination date of its current use permit. Ceiba asked me to respond to your October 27, 2022 email to Ceiba's agent, Elizabeth Sanborn-Falcon, stating that AB 2097 does not apply to this project. We respectfully disagree, and urge you to reconsider the City's analysis and position about the application of AB 2097 to Ceiba's application. Here is my analysis:

On September 22, 2022, the Governor signed AB 2097, which made changes to the Planning and Zoning Law (Title 7 of the Gov't Code, sections 65000 et seq.), regarding the rules for local governments to update their general plan housing elements and eliminated off-street parking requirements for many development projects (with exceptions).

Section 2 of AB 2097 adds new Section 65863.2 to the Government Code, which establishes a new state law that, "[a] public agency shall not impose or enforce any minimum automobile parking requirement on a residential, commercial, or other development project if the project is located within one-half mile of public transit", with exceptions.

Ceiba is applying to the City for a zone change, general plan land use designation change, and special use permit, which collectively constitute an "other development project" that would benefit from the new state law prohibiting cities and counties from imposing minimum parking requirements. (Please let us know if you disagree that Ceiba's application is an "other development project" under AB 2097, and I can provide you with some additional legal analysis about why Ceiba's application should be considered an "other development project".)

The Legislative Counsel's Digest accompanying AB 2097, which is a summary of legislative intent, states in pertinent part that, "This bill would prohibit a public agency from imposing any minimum automobile parking requirement on any residential, commercial, or other development project, as defined, that is located within 1/2 mile of public transit, as defined."

In reviewing your communication with Ms. Sanborn-Falcone, it appears that you believe Ceiba is not "located within 1/2 mile of public transit, as defined", because you believe the parking exception provided by AB 2097 only applies if there is a "major transit stop" or "high quality transit corridor" within 1/2 mile of the subject project that is similar to a BART, CalTrain or BRT station. However, nothing in AB 2097 requires the major transit stop or high quality transit corridor be similar to BART, CalTrain, or BRT station.

Rather, AB 2097 defines "public transit" as "a major transit stop as defined in Section 21155 of the Public Resources Code". Section 21155 defines "major transit stop" by referring to the definition in Public Resources Code Section 21064.3, "except that, for purposes of this section, it also includes *[but is not limited to]* major transit stops that are included in the



applicable regional transportation plan.” And Public Resources Code section 21064.3 defines “Major transit stop” as a site containing any of the following:

- (a) An existing rail or bus rapid transit station.
- (b) A ferry terminal served by either a bus or rail transit service.
- (c) *The intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods.*

The Watsonville Transit Center is within ½ mile of the Ceiba facility, has 9 bus routes departing from there, and more than half of the departure times are less than every 15 minutes during peak commute periods. That is why this transit stop is called a Transit Center. Attached is an excerpt from the Santa Cruz Metropolitan Transit District webpage showing departure times from the Watsonville Transit Center.

See also <https://www.scmtd.com/en/stop/wtc1#tripDiv> (Lane 1) and <https://www.scmtd.com/en/stop/wtc2#tripDiv> (Lane 2).

For all of these reasons, AB 2097 applies to Ceiba’s pending application.

Yours truly,

Miles J. Dolinger

## MILES J. DOLINGER

ATTORNEY AT LAW  
314 Capitola Avenue, Capitola, CA 95010  
OFFICE (831) 477-9193  
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[miles@dolingerlaw.com](mailto:miles@dolingerlaw.com)

Real Estate | Land Use | Litigation

Please consider the environment before printing this document.

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# February 1, 2023

## **Description:**

Letter emailed on February 1, 2023 from Denise Bazzano (City of Watsonville Attorney) to Miles Dolinger re Application of AB 2097 to Ceiba Preparatory Academy (\*Ceiba")

## **Summary:**

In this letter, Bazzano reiterates City staff's determination that AB 2097 does not apply to the currently pending Ceiba application and provides Dolinger with the basis for the City's determination.

City Staff still waived Ceiba's parking requirement.



February 1, 2023

**VIA EMAIL ONLY**

Miles J. Dolinger, Esq.  
Dolinger Law  
314 Capitola Avenue, Capitola, CA  
Email: miles@dolingerlaw.com

Re: Application of AB 2097 to Ceiba Preparatory Academy ("Ceiba")

Dear Mr. Dolinger:

Our Office acts as City Attorney for the City of Watsonville ("City"). We have reviewed your email dated November 28, 2022 and your analysis setting forth the reasons why you believe that Assembly Bill ("AB") 2097 applies to the currently pending project for Ceiba for a General Plan Map Amendment (to change the site's land use designation from Industrial to Public/Quasi-Public), Zoning Map Amendment (to change the site's zoning designation from IG to N for Institutional), and Special Use Permit with environmental review to continue to allow the existing school use to remain on the site permanently ("Application No. 1737" or "Project").

As you correctly point out in your correspondence, AB 2097 was signed into law on September 22, 2022 by Governor Newsom. The bill makes changes to various sections within Chapter 4 (Zoning Regulations) of Division 1 (Planning and Zoning), Title 7 (Planning and Land Use Code), including adding a new section 65863.2 to the Government Code, to among other things, prohibit a public agency from imposing any minimum automobile parking requirement on any residential, commercial, or other development project, as defined, that is located within 1/2 mile of public transit, as defined, unless written findings can be made by the public agency.

We wish to reiterate City staff's determination that AB 2097 does not apply to the currently pending Ceiba application and provide you with the basis for our determination as set forth below. We hope that this correspondence will bring this matter to a conclusion so that City staff can proceed with bringing the Project to a hearing before the Council in the near future.

OAK 4858-4781-0631v5



Miles Dolinger  
February 1, 2023  
Page 2

**1. Ceiba's Project Site is Not within One-Half Mile of "Public Transit" As Required by AB 2097**

As indicated above, AB 2097 adds Government Code section 65863.2(a), which reads as follows: "A public agency shall not impose or enforce any minimum automobile parking requirement on a residential, commercial, or other development project if the project is located within one-half mile of public transit." Thus a critical requirement to application of AB 2097 is that the project site be located within one-half mile of "public transit."

AB 2097 defines "public transit" as a "major transit stop as defined in Section 21155 of the Public Resources Code, which provides that "[a] major transit stop is as defined in Section 21064.3, except that, for purposes of this section, it also includes major transit stops that are included in the applicable regional transportation plan." Public Resources Code section 21064.3 defines "major transit stop" as a site containing any of the following:

- (a) An existing rail or bus rapid transit station.
- (b) A ferry terminal served by either a bus or rail transit service.
- (c) The intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods.<sup>1</sup>

You believe subdivision (c) is applicable and have provided a bus schedule showing departure times from the Watsonville Transit Center. In looking at the bus route schedule for the Watsonville Transit Center, there are no major bus routes that would meet the criteria of subdivision (c). It appears that you may be identifying all buses that come through and averaging them to determine the average minutes between departures. This is an incorrect interpretation of the requirement. Under Public Resources Code section 21064.3(c), each of the two routes must have 15 minute or better headways to qualify. In other words, the definition of "public transit" can be met if there are two or more bus routes intersecting at the Transit Center every 15 minutes or less during the morning and afternoon peak commute periods. In this case, based on the Transit Center schedule you provided, there are no such bus routes. Additional evidence of the fact that there is no major bus routes with a frequency of service intervals of 15 minutes or less can be seen in Table 1, which shows the headways of individual bus routes range from 30 to 120 minutes. As a result, subdivision (c) is simply not applicable to Ceiba.

---

<sup>1</sup> A "Major transit stop" would also include those major transit stops included in the applicable regional transportation plan.



Miles Dolinger  
February 1, 2023  
Page 3

**Table 1: Existing Transit Service**

Route	Description	Weekdays		Weekends	
		Operating Hours	Headway <sup>1</sup> (minutes)	Operating Hours	Headway <sup>1</sup> (minutes)
Santa Cruz METRO					
69W	Capitola/Cabrillo	6:37 AM – 10:28 PM	60	7:50 AM – 7:40 PM	60
69A	Capitola/Airport	6:20 AM – 6:56 PM	60	8:07 AM – 7:52 PM	60
71	Soquel/Freedom	5:40 AM – 12:40 AM	30	5:58 AM – 12:40 AM	30-60
91X	Cabrillo Express	5:55 AM – 5:22 PM	60-120	-	-
72	Green Valley - Hospital	6:45 AM – 6:40 PM	60	-	-
72W	Green Valley- Corralitos	-	-	9:25 AM – 6:27 PM	120
74S	PVHS/Hospital	7:00 AM – 8:02 AM 3:05 PM – 4:00 PM	-	-	-
75	Green Valley - Wheelock	5:15 AM – 7:15 PM	60	6:05 AM – 6:45 PM	70
79	East Lake/Crestview	7:25 AM – 6:00 PM	60	8:30 AM – 5:14 PM	120
WC	Watsonville Circular	8:44 AM – 4:17 PM	60	8:44 AM – 4:14 PM	60
Monterey-Salinas Transit (MST)					
27	Watsonville – Marina	6:53 AM – 7:48 PM	60	-	-
28	Watsonville – Salinas <sup>2</sup>	6:45 AM – 7:30 PM	120	6:45 AM – 7:30 PM	120
29	Watsonville – Salinas <sup>3</sup>	5:45 AM – 6:50 PM	120	7:34 AM – 8:00 PM	120
Source: Kimley-Horn & Associates, Transportation Impact Analysis for the Downtown Watsonville Specific Plan (2023)					

Source: Kimley Horn & Associates, Transportation Impact Analysis for the Downtown Watsonville Specific Plan (2023)

Notes:

<sup>1</sup> Headways are defined as the time between transit vehicles on the same route.

<sup>2</sup> Via Castroville

<sup>3</sup> Via Prunedale

Moreover, according to the Association of Monterey Bay Area Governments (“AMBAG”), there are currently no existing high frequency transit routes/corridors in Watsonville that are included in the applicable regional transportation plan. As described and shown in AMBAG’s Metropolitan Transportation Plan / Sustainable Communities Strategy (“MTP/SCS”), the only high quality transit stops and corridors in Santa Cruz County are located in the City of Santa Cruz between their downtown and UCSC.<sup>2</sup> The California Office of Planning and Research (“OPR”) Site Check Report

<sup>2</sup> AMBAG (2022). *Monterey Bay 2045 Moving Forward: 2045 MTP/SCS*. Refer to Figure 4-10: 2045 High Quality Transit, p. 4-35 (available at [https://www.ambag.org/sites/default/files/2022-12/REVISED\\_AMBAG\\_MTP-SCS\\_Final\\_EntireDocument\\_PDFA\\_Updated121522.pdf](https://www.ambag.org/sites/default/files/2022-12/REVISED_AMBAG_MTP-SCS_Final_EntireDocument_PDFA_Updated121522.pdf)); see also Public Resource Code section 21155(b).



Miles Dolinger  
February 1, 2023  
Page 4

also concludes that the site is not within ½ a mile of a major transit stop as defined. AMBAG and OPR are authorities on and determination of these issues.

Since Ceiba cannot meet this critical requirement of AB 2097, its provisions preventing a local agency from imposing or enforcing parking regulations cannot apply.

## **2. Ceiba's Application is not "Development" within the Meaning of AB 2097**

As stated above, AB 2097 adds Government Code section 65863.2(a), which states in relevant part that a local agency shall not enforce minimum parking requirements "on a residential, commercial, or other **development project** if the project..." (Emphasis added).

Although the term "development" is not defined in Government Code section 65863.2, the plain meaning of the term, implies that there is something in the process of being developed, *i.e.*, actions necessary to make a tract of land suitable for residential, commercial or other type of use that would be subject to minimum parking requirements. This interpretation is consistent with the purpose of the bill which is intended to address California's severe housing shortage by creating opportunities for more housing. This interpretation is also consistent with the definition of "development" and "development project" in Government Code sections 65927 and 65928<sup>3</sup>, respectively and the definition of "development" in the City's General Plan.<sup>4</sup>

<sup>3</sup> "Development" means, on land, in or under water, the placement or erection of any solid material or structure; discharge or disposal of any dredged material or of any gaseous, liquid, solid, or thermal waste; grading, removing, dredging, mining, or extraction of any materials; change in the density or intensity of use of land, including, but not limited to, subdivision pursuant to the Subdivision Map Act (commencing with Section 66410 of the Government Code), and any other division of land except where the land division is brought about in connection with the purchase of such land by a public agency for public recreational use; change in the intensity of use of water, or of access thereto; construction, reconstruction, demolition, or alteration of the size of any structure, including any facility of any private, public, or municipal utility; and the removal or harvesting of major vegetation other than for agricultural purposes, kelp harvesting, and timber operations which are in accordance with a timber harvesting plan submitted pursuant to the provisions of the Zberg-Nejedly Forest Practice Act of 1973 (commencing with Section 4511 of the Public Resources Code).

As used in this section, "structure" includes, but is not limited to, any building, road, pipe, flume, conduit, siphon, aqueduct, telephone line, and electrical power transmission and distribution line.

Nothing in this section shall be construed to subject the approval or disapproval of final subdivision maps to the provisions of this chapter. "Development" does not mean a "change of organization", as defined in Section 56021 or a "reorganization", as defined in Section 56073.

"Development project" means any project undertaken for the purpose of development. "Development project" includes a project involving the issuance of a permit for construction or reconstruction but not a permit to operate. "Development project" does not include any ministerial projects proposed to be carried out or approved by public agencies.

<sup>4</sup> "Development" means "[a]ny physical alteration and/or improvements of the land which leads to a subdivision of land; construction of any building or structure; road development; installation of utilities; grading; mineral extraction; the deposit of refuse, debris or fill materials; or the clearing of natural vegetation cover with the exception of agricultural activities. Routine repair and maintenance activities are exempt.



Miles Dolinger  
February 1, 2023  
Page 5

In this case, Ceiba would not be undertaking a development within the meaning of AB 2097 because there will be no change in use from what is occurring on the site now to something different. If the project is approved, the school will remain exactly as it exists now and no action will occur to develop the tract of land. There will be no physical alteration and/or improvement of the land which leads to subdivision of land nor any construction of any building or structure. Additionally, the use of the site as a school will remain the same. Because Ceiba is not undertaking any residential, commercial or other development there is no development that is occurring within the meaning of AB 2097 and therefore its provisions cannot apply to the project.

### **3. AB 2097 Became Effective after Ceiba Application Considered by Planning Commission**

Nothing in AB 2097 specifies that the new Government Code section 65863.2 was intended to apply retroactively. Thus, AB 2097 is applied prospectively from its effective date of January 1, 2023.<sup>5</sup>

Here, Application No. 1737 was submitted on May 27, 2021 and was deemed complete on March 24, 2022 and was brought to the Planning Commission for their consideration on April 5, 2022, and following this meeting additional items identified in letters dated June 21 and September 1 were addressed as of December 21, 2022. Applying AB 2097 now to this Project would be contrary to Government Code section 65863.2 because it would be applying the provisions retroactively rather than prospectively and because the City will not have had the opportunity to determine if written findings may be issued within thirty days of the completed application to allow the City to impose minimum parking standards.<sup>6</sup>

More significantly, assuming *arguendo* that AB 2097 did apply retroactively, the implications of foregoing parking requirements at the site would need to be reconsidered by staff and the Planning Commission. As you know, on April 5, 2022, the Planning Commission considered Application No. 1737, including the parking requirements of Watsonville Municipal Code section 14-16.803(6)(ii) and proposed conditions of approval to address parking and other impacts relating to the project. The existing Ceiba school

<sup>5</sup> See *Californians for Disability Rights v. Mervyn's, LLC* (2006) 39 Cal.4th 223, 230; *DiGenova v. State Board of Education* (DiGenova) (1962) 57 Cal.2d 167, 174; see also California Constitution, Article IV, Section 8 [A statute enacted at a regular session of the Legislature generally becomes effective on January 1 of the year following its enactment].

<sup>6</sup> Government Code § 65863.2(b)[provides that a city may impose or enforce minimum automobile parking requirements on a project that is located within one-half mile of public transit if the public agency makes certain written findings, within 30 days of the receipt of a completed application.]




Miles Dolinger  
February 1, 2023  
Page 6

site provides an inadequate parking supply, which has been confirmed by the traffic studies prepared by Hexagon. There are 55 parking spaces provided onsite, including 3 ADA spaces. Based on the City's parking standards, the site provides 38 to 60 percent fewer spaces than would be required. To address the demand for parking and inadequate supply, conditions of approval proposed by staff would require Ceiba to implement a mandatory travel behavior change program, use promotions and marketing to educate and inform travelers, reserve preferred carpool spaces, and provide transit subsidies. Foregoing these measures would have a severe impact on available parking on site and in the surrounding area and would substantially change Application No. 1737.

In this case, Ceiba's project application was deemed complete and considered by the Planning Commission before AB 2097 became effective. Therefore its provisions cannot be applied at this late stage.

We are hopeful that this letter concludes any discussion regarding the application of AB 2097 but we are happy to meet with you to discuss this issue further if you still have questions.

Sincerely,



Denise S. Bazzano

DSB:db

Cc: Josh Ripp, [josh.ripp@ceibaprep.org](mailto:josh.ripp@ceibaprep.org)  
Elizabeth Sanborn Falcon, [esanborn@pacbell.net](mailto:esanborn@pacbell.net)  
Justin Meek, Principal Planner, [justin.meek@cityofwatsonville.org](mailto:justin.meek@cityofwatsonville.org)  
Suzi Merriam, Community Development Director, [suzi.merriam@cityofwatsonville.org](mailto:suzi.merriam@cityofwatsonville.org)



**City of Watsonville  
Did Immediate  
Nuisance  
Enforcement When  
Ceiba was Located  
Adjacent to City Hall**



# October 22, 2011

## **Description:**

Email dated between October 22, 2011, Nathalie Manning to Carol Heitzig with a cc: to Carlos Palacios re CEIBA

## **Summary:**

In this email Nathalie requests a “meeting with CEIBA principal and [sic] Tom Brown to discuss several issues related to the CEIBA students including the issues you’ve had at the library.”



**From:** [Nathalie Manning](#) on behalf of [Nathalie Manning <nmanning@ci.watsonville.ca.us>](#)  
**To:** [Carol Heitzig](#)  
**Cc:** [Carlos Palacios](#)  
**Subject:** CEIBA  
**Date:** Saturday, October 22, 2011 10:32:35 PM

---

Hi Carol—

I just wanted to let you know that Monica is working on setting up a meeting with the CEIBA principal and Tom Brown to discuss several issues related to the CEIBA students including the issues you've had at the library. Monica will send you an appointment when a date is determined.

Thanks!

-nathalie

Nathalie Manning  
Assistant to the City Manager  
City of Watsonville  
275 Main Street, Suite 400  
Watsonville, CA 95076  
(831) 768-3021 (phone)  
(831) 761-0736 (fax)



# October 31, 2011

## Description:

Email dated October 31, 2011, from Monica Florez to Frances Delfino, Patty Flemate, Elizabeth Padilla, Nathalie Manning, and Tamara Vides re Ceiba Kids

## Summary:

In this email Monica tells the recipients:

“If you see any of the Ceiba kids messing around in the building please send Tom Brown a text message, he is one of the administrators for Ceiba.”

**From:** [Monica Florez](#) on behalf of [Monica Florez <monica.florez@cityofwatsonville.org>](#)  
**To:** [Frances Delfino](#); [Patty Flemate](#); [Elizabeth Padilla](#); [Nathalie Manning](#); [Tamara Vides](#)  
**Subject:** Ceiba Kids  
**Date:** Monday, October 31, 2011 4:28:09 PM

---

Hello,

If you see any of the Ceiba kids messing around in the building please send Tom Brown a text message, he is one of the administrators for Ceiba. He may not be able to come over every time an incident occurs but he will make a note of it. His cell phone number is 239-2322.

Monica



# February 7, 2012

## **Description:**

Email dated February 7, 2012 Elizabeth Padilla to Tom Brown  
re Safety Concern for CEIBA Students

## **Summary:**

In this email Monica tells Tom Brown:

“In our Safety Committee meeting last week, a concern was raised about the CEIBA students and the use of frisbee’s [sic]. The students have apparently been using frisbees and they’ve been landing on the lower roof located over the basketball courts of the Youth Center. Apparently a few students have been taking it upon themselves to retrieve the frisbees by climbing the fence surrounding the basketball court and climbing on top of the top of the roof to get the frisbees...Would you please address this safety concern with the teachers and students.”





**Elizabeth Padilla**

Safety Concern for CEIBA Students

To: [tom.brown@beaconed.org](mailto:tom.brown@beaconed.org)

February 7, 2012 at 12:16 PM

Hi Mr. Brown,

In our Safety Committee meeting last week, a concern was raised about the CEIBA students and the use of frisbee's. The students have apparently been using frisbees and they've been landing on the lower roof located over the basketball courts of the Youth Center. Apparently, a few students have been taking it upon themselves to retrieve the frisbees by climbing the fence surrounding the basketball court and climbing on top of the roof to get the frisbees.

This of course is a concern for us because we would hate to have any of the children hurt retrieving a frisbee. Would you please address this safety concern with the teachers and students. If you have any questions or concerns, please feel free to contact me. We appreciate your assistance with this concern.

Sincerely,  
Liz

--

Elizabeth Padilla  
Administrative Analyst  
City of Watsonville  
Direct Line: 831.768.3018  
Fax: 831.761.0736



# March 28, 2013

## **Description:**

Email dated March 28, 2013, from Tom Brown to Marcela Tavantzis re City Employee Parking in Ceiba Lot

## **Summary:**

In this email Tom Brown raises concerns about “tensions brewing over parking at Porter.”

It is notable that Ceiba feels entitled to secure its parking spaces, but refuses to grant the same to the neighborhoods which it impacts.

It is notable that the City waived Ceiba’s parking requirements.





**Tom Brown**

City Employee Parking in Ceiba Lot

To: Marcela Tavantzis, Marcela

March 28, 2013 at 12:26 PM

---

Hi Marcela:

I hope this finds you well and enjoying the early days of spring.

Would you kindly let city staff know that we need all available parking spaces at Ceiba? Apparently there is some tension brewing over parking at Porter. Please let me know if there is anything I should do from our end.

Thank you very much.

tb

--

Tom Brown

**Beacon Education Network | Ceiba Public Schools | Ceiba College Prep**

315 Main Street Suite 206 | PO Box 1449 | Watsonville, CA 95077

tel: (m) [831-239-2322](tel:831-239-2322)

email: [tom.brown@ceibaprep.org](mailto:tom.brown@ceibaprep.org) | web: [www.ceibaprep.org](http://www.ceibaprep.org)



# April 1, 2013

## **Description:**

Email exchanges dated April 1, 2013, from Tom Brown to Marcela Tavantzis re Red Mustang in Ceiba Parking Stalls

## **Summary:**

In this email Tom Brown raises concerns a vehicle using one of his parking stalls.

The City reacted quite swiftly to the concerns.





**Marcela Tavantzis**

April 1, 2013 at 2:12 PM

Fwd: Red Mustang in Ceiba Parking Stalls

To: Tom Brown

---

Hi Tom

we are unable to figure out who this vehicle belongs to. I passed the picture all around City Hall. No one recognizes it, and the license plate info below doesn't help.

Please let me know if anyone has seen who the driver is.

Thanks

m

----- Forwarded message -----

From: **Terry Traub** <[terry.traub@cityofwatsonville.org](mailto:terry.traub@cityofwatsonville.org)>

Date: Mon, Apr 1, 2013 at 2:09 PM

Subject: Red Mustang in Ceiba Parking Stalls

To: Marcela Tavantzis <[marcela.tavantzis@cityofwatsonville.org](mailto:marcela.tavantzis@cityofwatsonville.org)>

This vehicle comes back to a LLC Leasing Inc. out of Tulsa Oklahoma. There are no other names attached to the DMV record.

Based on the DMV info, I have no way of knowing who the leasee is. I would say the only way of knowing who the driver is would be for them to call when the vehicle arrives. PD could then attempt to contact the driver to identify and resolve issue. If it's that much of a nuisance for them, they could also watch to see where the driver goes and then direct either you or PD to contact the person. Let me know if you have any other ideas!

Thanks, Terry

**Lieutenant Terry Traub**  
**Watsonville Police Department**  
**Community Services Division**  
[terry.traub@cityofwatsonville.org](mailto:terry.traub@cityofwatsonville.org)  
**(831) 768-3322**  
**(831) 247-4229**  
**215 Union St.**  
**Watsonville, Ca 95076**



# **Zero Enforcement Degrading Neighboring Stakeholders' Quality of Life**

After Ceiba relocated to 260 W. Riverside Drive, the City of Watsonville did no enforcement against Ceiba, adversely impacting the quality of life for residences and and businesses sited in this harmonious, working class, migrant, residential-industrial neighborhood.



# September 12, 2014

## **Description:**

Email exchanges dated September 12, 2014 between September 15, 2014 with Tom Brown and Maria Esther Rodriguez Re Traffic and Parking at Ceiba 260 Riverside

## **Summary:**

In this email Tom Brown comments that “I hope this find you well and that Ceiba’s relocation has made things a little easier around City Hall.”

Maria Esther Rodriguez notes that she had “a few people comment to me about traffic on Locust and Walker and the crossing guard locations along Second Street.”

No action was taken.



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## Traffic and Parking at Ceiba 260 Riverside

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tom.brown@ceibaprep.org TBrown Ceiba

Friday, September 12, 2014 at 6:46:40 AM Pacific Daylight Time

To: merodriguez@ci.watsonville.ca.us Maria Esther Rodriguez

Cc: mike.rich@ceibaprep.org Mike Rich, michael.yu@ceibaprep.org Michael Yu

Hello Maria:

I hope this finds you well and that Ceiba's relocation has made things a little easier around City Hall.

I'm writing this morning to ask if you would have a few minutes to chat with us about traffic and parking patterns in and around Ceiba's new location at 260 W Riverside. In our efforts to reduce Ceiba's impact on the neighborhood, we would welcome the chance to brainstorm with you.

Would you have some time for a conversation with us?

Thank you very much.

Sincerely,

Tom

--

Tom Brown

**Ceiba Public Schools | Ceiba College Prep**

315 Main Street Suite 206 | PO Box 1449 | Watsonville, CA 95077

tel: (m) [831-239-2322](tel:831-239-2322)

email: [tom.brown@ceibaprep.org](mailto:tom.brown@ceibaprep.org) | web: [www.ceibaprep.org](http://www.ceibaprep.org)

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maria.esther.rodriguez@cityofwatsonville.org Maria Esther Rodriguez

Friday, September 12, 2014 at 7:52:11 AM Pacific Daylight Time

To: tom.brown@ceibaprep.org TBrown Ceiba

Cc: mike.rich@ceibaprep.org Mike Rich, michael.yu@ceibaprep.org Michael Yu, donny.thul@cityofwatsonville.org Donny Thul, david.mccartney@cityofwatsonville.org David McCartney, cleofas.martinez@cityofwatsonville.org Cleofas Martinez

Good morning, Tom,

yes, of course. Your e-mail is very timely - I've had a few people comment to me about traffic on Locust and Walker and the crossing guard locations along Second Street.

I'll also include our traffic officers in the conversation.  
What time/date work best for you?

Thank you,

Maria Esther Rodriguez



# December 15, 2015

## **Description:**

Email exchanges dated December 15, 2015 between Tom Brown and Maria Esther Rodriguez Re Ceiba - drop off/pick up concerns

## **Summary:**

In these emails Maria Esther Rodriguez notes that she received complaints about drop off around the school. “The biggest concern is when parents drop off on Locust - across the street from the school and kids are crossing in the middle of the street which is not safe and can put these pedestrians at risk.”

“Additionally, I have heard that there is a crossing guard that has been seen stopping traffic mid-block across the driveway entry. Please note that ‘directing traffic’ is not legally allowed by non-traffic individuals.”

Rodriguez provided a flyer.

It appears no other action was taken by the City or Ceiba.



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## Fwd: Ceiba - drop off/pick up concerns

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tom.brown@ceibaprep.org TBrown Ceiba  
To: admin1516@ceibaprep.org

Tuesday, December 15, 2015 at 3:40:04 PM Pacific Standard Time

FYI.

----- Forwarded message -----

From: **Maria Esther Rodriguez** <[maria.esther.rodriguez@cityofwatsonville.org](mailto:maria.esther.rodriguez@cityofwatsonville.org)>  
Date: Tue, Dec 15, 2015 at 12:19 PM  
Subject: Ceiba - drop off/pick up concerns  
To: Tom Brown <[tom.brown@ceibaprep.org](mailto:tom.brown@ceibaprep.org)>

Hi Tom,

I've received a few complaints recently about drop off around the school.

The biggest concern is when parents drop off on Locust - across the street from the school and kids are crossing in the middle of the street which is not safe and can put these pedestrians at risk.

Additionally, I have heard that there is a crossing guard that has been seen stopping traffic mid-block across from the driveway entry. Please note that "directing traffic" is not legally allowed by non-traffic safety trained individuals. Crossing guards should be facilitating crossing at legal crossings - such as corners and marked crosswalks.

Please ensure that parents and children are aware of safe drop off, walking and crossing habits. I am attaching a flyer (you may have seen previously) to share with students, parents and teachers.

Thank you!

--

*Maria Esther Rodriguez, Assistant Director  
Public Works and Utilities Department  
City of Watsonville  
250 Main Street  
Watsonville, CA 95076  
(831) 768-3112*

*Please note:*

*City offices are open Monday through Thursday, from 7:30 am to 5:30 pm.  
Closed every Friday.*

--

Tom Brown

**Ceiba Public Schools | Ceiba College Prep**  
260 West Riverside Drive | PO Box 1449 | Watsonville, CA 95077  
tel: (t) [831-740-8772](tel:831-740-8772) (m) [831-239-2322](tel:831-239-2322)  
email: [tom.brown@ceibaprep.org](mailto:tom.brown@ceibaprep.org) | web: [www.ceibaprep.org](http://www.ceibaprep.org)

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### Attachments:

School Drop off bilingual PEnforc 2 pp.pdf 221k



# July 28, 2021

## Description:

Memo to Justin Meek from Ivan Carmona re 260 W Riverside Drive - Calls received from the public regarding CEIBA

## Summary:

In this memo, Carmona lists only complaints starting in 2019. These complaints include major traffic nuisances, smell of garbage and rotten food, unsafe conditions, parents picking up students on Locust Street and blocking driveways; major traffic nuisances and unsafe conditions at the intersection of Locust Street and Riverside Drive in the a.m. and p.m. (Contrary to Ceiba's narrative, **none of these complaints were made by members of the Bulaich Family.**)

Not included in this were the multiple complaints submitted regarding the Mobile Food Vendor violating the enforcement zone and blocking driveways.

No enforcement actions were taken. **These issues still happen today and will NOT be resolved with the City's anemic Conditions of Approval.**



# MEMORANDUM

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**DATE:** July 28, 2021

**TO:** Justin Meek, AICP, Principal Planner

**FROM:** Ivan Carmona – Associate Planner

**RE:** 260 W Riverside Drive – Calls received from the public regarding CEIBA

---

This Memorandum is to document public inquiries regarding CEIBA College Prep Academy located at 260 W Riverside Drive (APN: 017-161-51).

## **CEIBA College Prep Academy Special Use Permit Approval**

On June 4, 2013, the City of Watsonville Planning Commission approved a Special Use Permit (PP2012-251) to allow establishment of a charter school in an existing industrial building located at 260 W Riverside Drive (APN: 017-161-51).

The approval allowed CEIBA College Preparatory Academy a maximum of 525 Students. The school accommodates grades 6-12. School operating hours commence at 7:30 a.m. and end at 5:00 p.m.

## **Resident Inquiries Regarding CEIBA**

Starting in 2019, the City of Watsonville Community Development Department received the following inquiries from residents located on Locust Street:

- Major traffic nuisances in the a.m. during school drop off and p.m. during school pick up.
- Smell of garbage and rotten food related to the garbage enclosure and dumpster.
- Unsafe conditions for students walking on Locust Street because no cross walks exist in the surrounding neighborhood.
- Parents picking up students on Locust Street and blocking driveway approaches.
- Parents picking up students on Locust Street and causing traffic nuisances
- Students crossing the street and using the vacant property for recreational activities.
- Major traffic nuisances and unsafe conditions at the intersection of Locust Street and Riverside Drive in the a.m. and p.m.



# August 11, 2021

## **Description:**

Email exchanges between July 28, 2021 and August 11, 2021 with Maria Esther Rodriguez, Adolfo Gonzalez, and Justin Meek re Memo - 206 [sic] W Riverside Drive

## **Summary:**

In this emails, Rodriguez addresses residents' concerns about odors and recommended language for this.

No action has ever been taken on this nuisance to the neighbors. Because Ceiba has an open campus, the public routinely uses its garbage cans during the evening and weekends further exacerbating the issue.

Also in these emails, Rodriguez suggests required upgrades to corner crossing near the school - "since it will be a permanent location."



**From:** [Maria Esther Rodriguez](#) on behalf of [Maria Esther Rodriguez <maria.esther.rodriguez@cityofwatsonville.org>](#)  
**To:** [Adolfo Gonzalez](#)  
**Cc:** [Justin Meek](#); [Antonio Banderas](#)  
**Subject:** Re: Memo - 206 W Riverside Drive  
**Date:** Wednesday, August 11, 2021 3:58:35 PM  
**Attachments:** [image.png](#)

---

Thanks Adolfo,

I'll put together a draft memo capturing all of the traffic related items so Justin can share with the applicant.

Antonio - if you haven't already, you can work with Chris G to capture the trash enclosure updates, as appropriate.

thanks!

MaE

On Wed, Aug 11, 2021 at 3:43 PM Adolfo Gonzalez

[<adolfo.gonzalez@cityofwatsonville.org>](mailto:adolfo.gonzalez@cityofwatsonville.org) wrote:

Based on my field visit I suggest the following for CEIBA school.

1. Develop their safe routes to school plan and share with parents as well as publish it on their schools website and point parents to it.
2. Upgrade crossings, i.e. striping and signage at Walker St and Riverside Dr., Second St and Locust St, Pine St and Second St, Pine St and W. Beach St.
3. Obtain an Encroachment permit from Caltrans to establish a School Zone on Riverside Dr., upgrade existing crosswalk(s) at Riverside Dr and Walker St to school crosswalks.
4. Upgrade the ADA ramps at Locust St and Riverside Dr. I believe they are compliant but lacking the truncated domes.
5. Install/update school signage around the perimeter of the school per CA MUTCD.
6. Upgrade the ADA ramp on the NE corner to meet ADA standards.
7. Provide training for their volunteer crossing guards.
8. Ensure children cross on the North leg of Walker St and Second St - using crossing guard.
9. No drop off of students on Locust Street. No crossing guard on midblock.
10. Re-evaluate their onsite circulation plan. The plan submitted does not accurately portray how traffic circulate. I would like to conduct a site visit to evaluate it.
11. Notice all residents/business as highlighted in the attached map.





**Adolfo Gonzalez**

Traffic Operations Manager

Public Works & Utilities

320 Harvest Drive

Watsonville, CA 95076

831-768-3140

[adolfo.gonzalez@cityofwatsonville.org](mailto:adolfo.gonzalez@cityofwatsonville.org)

On Wed, Aug 11, 2021 at 12:26 PM Maria Esther Rodriguez

<[maria.esther.rodriguez@cityofwatsonville.org](mailto:maria.esther.rodriguez@cityofwatsonville.org)> wrote:

Hi Justin,

yes - thank you!

As far as traffic: We have spoken about the school providing their suggested safe route to school information to the City - when they provide to the parents at the beginning of the year. We are also looking at any required upgrade to corner crossings near the school - since it will be a permanent location. These could include high visibility crosswalks, signs, etc. plus appropriate school zone signs.



Drop off /pick up complaints point to more school involvement in guiding parents through the school in a more efficient and safe manner - but this is easier said than done...

Adolfo is checking a couple of things in the field so we can then formalize.

thanks,  
MaE

On Tue, Aug 10, 2021 at 11:57 AM Justin Meek <[justin.meek@cityofwatsonville.org](mailto:justin.meek@cityofwatsonville.org)> wrote:

Hi Maria,

I am following up on the CEIBA project. Please provide your comments concerning traffic and pedestrian safety. If you have any questions or need more information from the applicant, I'll help coordinate getting that for your review. If you'd like to discuss past conditions of approval and what improvements are needed moving, I'm available.

I also expect that Public Works will want a trash enclosure installed at the site. If so, this could be addressed as an incomplete item to be shown on revised plans and bolstered with a condition of approval. Given past complaints, a condition could also be proposed to address residents' concerns about odors. Here is some draft language for your consideration:

The City has received complaints concerning odors from garbage and rotten food. Without proper handling, trash and food scraps create nuisance conditions for nearby residents and could attract pest species unless a trash enclosure is installed and appropriate avoidance measures are implemented.

Appropriate controls shall be implemented by CEIBA school to prevent nuisance conditions. These shall include installing a trash enclosure to City Standards and ensuring it is routinely cleaned and secured at night.

Justin



On Wed, Jul 28, 2021 at 5:35 PM Maria Esther Rodriguez <[maria.esther.rodriguez@cityofwatsonville.org](mailto:maria.esther.rodriguez@cityofwatsonville.org)> wrote:

thank you Justin.

MaE

On Wed, Jul 28, 2021 at 4:59 PM Justin Meek <[justin.meek@cityofwatsonville.org](mailto:justin.meek@cityofwatsonville.org)> wrote:

Hi Maria,

Ivan shared with me after the MPRT meeting today the attached memo. It details issues of concern by nearby residents, including odors, traffic congestion, traffic safety, and related matters.



Justin



----- Forwarded message -----

From: **Ivan Carmona** <[ivan.carmona@cityofwatsonville.org](mailto:ivan.carmona@cityofwatsonville.org)>

Date: Wed, Jul 28, 2021 at 3:05 PM

Subject: Memo - 206 W Riverside Drive

To: Justin Meek <[justin.meek@cityofwatsonville.org](mailto:justin.meek@cityofwatsonville.org)>

Hello Justin,

Please see attached Memo related to public inquiries regarding CEIBA.

Let me know if you have any questions.

Thanks,

--

Ivan Carmona  
Associate Planner  
Community Development Department  
831-768-3078  
[ivan.carmona@cityofwatsonville.org](mailto:ivan.carmona@cityofwatsonville.org)



CDD office hours are Monday through Friday from 8:00 a.m. - 4:00 p.m. and closed during 12:00 p.m. - 1:30 p.m.

Planning Hours: Monday - Friday 8:00 a.m. - 12:00 p.m.

The Planning Department is available in the afternoon by appointment only.

--

Maria Esther Rodriguez  
Assistant Director/ City Engineer  
Public Works and Utilities Department  
250 Main Street



# April 19, 2022

## **Description:**

Email exchanges between April 19, 2022 between Justin Meek, Suzi Merriam and Maria Esther Rodriguez re Voicemail from pEXTERN

## **Summary:**

In this emails, Rodriguez shares a voicemail from a concerned resident near CEIBA school expressing her issues with the school at this location.

Meek responded stating that he will call the resident and say “that the conditions are intended to address parking, traffic congestion, and safety concerns.”

The proposed Conditions of Approval do not present functional solutions to the structural parking and traffic problems and continue to place students, neighboring stakeholders, and drivers at risk.



**From:** [Justin Meek](#) on behalf of [Justin Meek <justin.meek@cityofwatsonville.org>](#)  
**To:** [Maria Esther Rodriguez](#)  
**Cc:** [Suzi Merriam](#)  
**Subject:** Re: Voicemail from pEXTERN  
**Date:** Tuesday, April 19, 2022 8:37:35 AM

---

Hi Maria,

I will give Lina a courtesy return call to clarify that the purpose of Ceiba's request was to allow the school to stay in its current location permanently and not to allow an expansion of the school. I'll also let her know of the conditions that are intended to address parking, traffic congestion, and safety concerns.

On the issue of parking, we should consider implementing an additional measure: permit parking. Instituting a permit parking program would restrict students or anyone else visiting the neighborhood from parking for long periods of time and thereby address the spillover parking issue the residents are experiencing.

Justin



On Mon, Apr 18, 2022 at 4:49 PM Maria Esther Rodriguez  
<[maria.esther.rodriguez@cityofwatsonville.org](mailto:maria.esther.rodriguez@cityofwatsonville.org)> wrote:

Hi Justin,

I received this voicemail from a concerned resident near CEIBA school expressing her issues with the school at this location.

MaE



# **Watsonville Police Department Reported Incidents Involving Ceiba Students**



# February 2, 2022

## **Description:**

Email exchanges dated November 22, 2019 to February 2, 2022, between Sgt. Charles Bailey and Josh Ripp re video footage, bullying, fights, and marijuana sales

## **Summary:**

These email exchanges chronicle criminal and violent activity on Ceiba's campus including marijuana sales, fights, bullying, a student bringing a bullet to campus, and parents filing an assault charge against students.

(Not included in these reports are references to any rape threat, students spitting on or attempting to trip neighbors, and other intimidation and retaliation against neighboring stakeholders.)



On Wed, Feb 2, 2022 at 4:29 PM Charles Bailey <[charles.bailey@cityofwatsonville.org](mailto:charles.bailey@cityofwatsonville.org)> wrote:

Hello Josh- The parents of [REDACTED] contacted WPD and are seeking prosecution against the boys who assaulted their son. I interviewed him today, but would like to come to the school and see what your staff can tell me about the incident and get the names of all the involved students. Do you have video footage of the incident?

Officer Bailey

--

Officer Charles Bailey #330  
Watsonville Police Dept.  
215 Union Street  
Watsonville CA 95076  
(831) 768-3000 x5386(WPD)

On Fri, Aug 13, 2021 at 9:22 AM Charles Bailey <[charles.bailey@cityofwatsonville.org](mailto:charles.bailey@cityofwatsonville.org)> wrote:

Hello Josh-

We can definitely help you with the Marijuana sales issue. Hold off on the statements until we talk and put together a game plan. Can you give me what ever info you have on [REDACTED]. Name, address, phone, etc. I will look into her history. If Monday works for you, I start work at 3pm.

I think you have asked me about the crossing guard training in the past. Have you asked PVUSD who they use or how they get theirs training. Our department does have any type of training for that.

Lastly, we're you aware of the fight on Wednesday after school? The mother of a male reported it In the evening. It stemmed from a female Ceiba student being bullied by a male student and the females non student boyfriend getting involved. We did not take a report, but did talk to all the parents.

Officer Bailey

Sent from my iPhone



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## Re: 2 Requests - Ceiba College Prep

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josh.ripp@ceibaprep.org Josh Ripp

To: charles.bailey@cityofwatsonville.org Charles Bailey

Cc: sandra.gutierrez@ceibaprep.org Sandra Gutierrez

Friday, August 13, 2021 at 9:49:36 AM Pacific Daylight Time

Thank you.

### Josh Ripp

*Head of School*

*Ceiba College Prep*

*260 West Riverside Dr.*

*Watsonville, CA. 95076*

*(831) 740-8786*

On Fri, Aug 13, 2021 at 9:22 AM Charles Bailey <[charles.bailey@cityofwatsonville.org](mailto:charles.bailey@cityofwatsonville.org)> wrote:

Hello Josh-

We can definitely help you with the Marijuana sales issue. Hold off on the statements until we talk and put together a game plan. Can you give me what ever info you have on [REDACTED]. Name, address, phone, etc. I will look into her history. If Monday works for you, I start work at 3pm.

I think you have asked me about the crossing guard training in the past. Have you asked PVUSD who they use or how they get theirs training. Our department does have any type of training for that.

Lastly, we're you aware of the fight on Wednesday after school? The mother of a male reported it In the evening. It stemmed from a female Ceiba student being bullied by a male student and the females non student boyfriend getting involved. We did not take a report, but did talk to all the parents.

Officer Bailey

Sent from my iPhone

On Aug 12, 2021, at 2:51 PM, Josh Ripp <[josh.ripp@ceibaprep.org](mailto:josh.ripp@ceibaprep.org)> wrote:

Hi Officer Bailey,

How are you? I have two requests:

1. We have [REDACTED] potentially providing or selling marijuana to our students at school. Can you help us if we're able to obtain student statements implicating [REDACTED]?
2. Can you connect me with someone who conducts crossing guard training? We need our staff to be trained.

Thanks,

### Josh Ripp

*Head of School*

*Ceiba College Prep*

*260 West Riverside Dr.*

*Watsonville, CA. 95076*

*(831) 740-8786*



---

## Follow up from Ceiba

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**annie.millar@ceibaprep.org Annie Millar**

Friday, November 22, 2019 at 2:40:50 PM Pacific Standard Time

To: charles.bailey@cityofwatsonville.org Charles Bailey, josh.ripp@ceibaprep.org Josh Ripp

Officer Bailey,

Thanks for your assisting the other day. We super appreciate you being here and helping out.

We're continuing to follow up with the students who spread the rumor last Monday. We may never get to the bottom of who began it, but we're working on it!

Quick question: We had a student in possession of a bullet today. How do we dispose of it? Is there anything in particular we should do regarding discipline? Current plan is Saturday School, one day suspension and parent conference.

Thanks again for your support!

Annie

Annie Millar

Executive Director

[Ceiba Public Schools](#)

p: 831-740-8460

m: 707-318-1833

a: 260 W. Riverside Drive, Watsonville, CA 95076



# January 2022

## **Description:**

PRA 22-44 from Watsonville Police

## **Summary:**

Details of complaints or calls for assistance made to the Watsonville Police Department. Calls include (1) report of a possible school shooting; (2) fights (3) nude photos sent to minors; (4) attempted suicide; (5) threat of a school shooting; (6) student exposing himself; and (7) a knife brought to school.



**PRA 23-44 from Watsonville Police**

**Request 1** – All emails and other communication have been provided

**Request 2** - Please provide the following information concerning any complaint or calls for assistance made to the Watsonville Police Department between July 1, 2014 and February 6, 2022 by any of person representing Ceiba College Preparatory Academy, including, but not limited to Josh Ripp, Tom Brown, Annie Milnar and/or Daniel Ornelas:

Response:

1. The time, date, and location of occurrence; Case #19W-04544. 1215 hrs, 11/18/2019, 260 W. Riverside Dr.
  2. The time and date of the report; 1225 hrs., 11/18/2019
  3. The name and age of the victim; Withheld, minor student
  4. The factual circumstances surrounding the crime or incident; and: School officials received a report of a possible school shooting would occur. Several parents relayed information from their children of a text string alleging the threat. It was determined that the threat was most likely a false accusation and hoax. The school was placed on lockdown for a short period of time. No further action was taken.
  5. A general description of any injuries, property, or weapons involved: None
- 
1. The time, date, and location of occurrence; Case #22W-00368. 1341 hrs, 02/01/2022, 260 W. Riverside Dr.
  2. The time and date of the report; 1341 hrs., 02/02/2022
  3. The name and age of the victim; Withheld, minor students
  4. The factual circumstances surrounding the crime or incident; and: Officers responded to the school on a report of a prior assault and battery. Officers determined that the victim was in a fight with the suspect. The officers contacted all involved parties and reviewed digital evidence. The case is pending further follow-up.
  5. A general description of any injuries, property, or weapons involved: Complaint of pain, small bump to side of head.
- 
1. The time, date, and location of occurrence; Case #20W-00536, 1400 hrs., 02/04/2020, 260 W. Riverside Dr.
  2. The time and date of the report; 1400 hrs., 02/04/2020
  3. The name and age of the victim; Withheld, minor student
  4. The factual circumstances surrounding the crime or incident; and: School officials called police after being informed that a nude picture of a possible student had been sent via Snap Chat. Follow-up was conducted and determined that a photo related to a prior investigation had resurfaced, however, there was no crime established. No further action was taken.



5. A general description of any injuries, property, or weapons involved: None
- 
1. The time, date, and location of occurrence; 1245 hrs., 08/23/2019, 260 W. Riverside Dr.
  2. The time and date of the report; 1245 hrs., 08/23/2019
  3. The name and age of the victim; Withheld, minor student
  4. The factual circumstances surrounding the crime or incident; and: Officers responded to the school on a report that a naked photo of a minor student was being shared with other students. Officers interviewed all parties and determined no further action needed to be taken. The case was documented.
  5. A general description of any injuries, property, or weapons involved: None
- 
1. The time, date, and location of occurrence;, 17W-04546. 1058 hrs., 09/11/2017, 260 W. Riverside Dr.
  2. The time and date of the report; 1058 hrs., 09/11/2017
  3. The name and age of the victim; Withheld, minor student
  4. The factual circumstances surrounding the crime or incident; and: School officials were made aware that a juvenile male had been sending nude images and videos of himself to several minor females. All parties were interviewed and follow-up investigation was conducted by detectives. A warrant request was made to the Santa Cruz County District Attorney's Office. No further information is available.
  5. A general description of any injuries, property, or weapons involved: None
- 
1. The time, date, and location of occurrence; Case # 21W-03352, 1243 hrs., 09/02/2021, 260 W. Riverside Dr.
  2. The time and date of the report; 1243 hrs., 09/02/2021
  3. The name and age of the victim; Withheld, minor student
  4. The factual circumstances surrounding the crime or incident; and: Officers responded to the school on a report of an attempted suicide. Officers conducted interviews of the involved parties and had one student transported to the hospital for treatment. The juvenile party was placed on a mental health hold.
  5. A general description of any injuries, property, or weapons involved: Possible overdose of drugs.
- 
1. The time, date, and location of occurrence; Case #22W-02022 Unk time, 05/25/2022, 260 W. Riverside Dr.
  2. The time and date of the report; 1804 hrs., 06/10/22
  3. The name and age of the victim; Withheld, minor student
  4. The factual circumstances surrounding the crime or incident; and; School officials reported to police suspicious circumstances involving a threat of a school shooting. Contact was made



with the student and determined that the allegation was unfounded. No further action was taken.

5. A general description of any injuries, property, or weapons involved. None
  
1. The time, date, and location of occurrence; Case #22W-02904. 0830 hrs., 08/18/2022, 260 W. Riverside Dr.
2. The time and date of the report; 0819 hrs., 08/19/2022
3. The name and age of the victim; Withheld, minor victim
4. The factual circumstances surrounding the crime or incident; and; Officers were dispatched to the school on a report of a fight that had occurred the previous morning. A group of students were gathered in front of the school when two of the students began to fight. Both parties sustained injury. A report was completed and forwarded to Juvenile Probation for follow-up.
5. A general description of any injuries, property, or weapons involved. No visible injuries, complaint of pain only.
  
1. The time, date, and location of occurrence; Case #23W-00383, unknown date January 2023
2. The time and date of the report; 0900 hrs., 01/31/2023
3. The name and age of the victim; Withheld, minor victim
4. The factual circumstances surrounding the crime or incident; and: Officers responded to the school on a report that one of the students had exposed himself to another student during a Zoom meeting. Officers conducted interviews with all involved parties, wrote a report and forwarded it to Investigations. Follow-up was conducted by a detective. All involved parties declined prosecution. No further action was taken.
5. A general description of any injuries, property, or weapons involved. None

**Request 3** - Please provide the following information concerning any complaint or calls for assistance made to the Watsonville Police Department between July 1, 2014 and February 6, 2022 concerning or involving Ceiba College Preparatory Academy and/or the property located at 215 Locust Street in Watsonville.

Response: See response to request #2.

**Request 4** - Please provide the following information concerning any arrests made as the result of complaints or calls for assistance made to the Watsonville Police Department between July 1, 2014 and February 6, 2022 by any of person representing Ceiba College Preparatory Academy, including, but not limited to Josh Ripp, Tom Brown, Annie Milnar and/or Daniel Ornelas:

1. The full name and occupation of every individual arrested; Withheld, minor suspects
2. The individual's physical description including date of birth, color of eyes and hair, sex, height, and weight; (S1) Withheld, brown, brown, male, 5' 4", 120 lbs, (S2) Information Sealed



3. The time and date of arrest; 1030 hrs., 02/05/2019
4. The time and date of booking; Same
5. The location of the arrest; 260 W. Riverside Dr.
6. The factual circumstances surrounding the arrest; School reported that a student had brought a knife to school and gave it to another student who was in possession. School officials contacted the students, conducted a search and located the knife. Officers responded and issued a citation to both students for bringing / possessing a knife on school grounds.
7. The amount of bail set; None
8. The time and manner of release or the location where the individual is currently being held; N/A
9. All charges the individual is being held upon, including any outstanding warrants from other jurisdictions, parole holds, and probation holds. Not being held. Issued a citation for PC 626.10(A)

**Request 5** - Please provide the following information concerning any arrests made by the Watsonville Police Department between July 1, 2014 and February 6, 2022 concerning, involving or made at Ceiba College Preparatory Academy and/or the property located at 215 Locust Street in Watsonville.

Response: See request 4. No additional cases.



# **Ceiba Emails Detailing Numerous Nuisances**



# July 25, 2022

## **Description:**

Email exchange dated July 25, 2022 between Elizabeth Sanborn and Josh Ripp re Oliveria Plastering

## **Summary:**

In this email Elizabeth Sanborn informs Josh Ripp that parents frequently block Oliveira's driveways on Locust Street and Riverside Drive. She also instructs Josh Ripp to instruct parents "to move if they see someone trying to get in or out of the Oliveira gate. Also please emphasize that they are not to be dropping off on Riverside Drive."



---

## Oliveira Plastering

---

**esanborn@pacbell.net Elizabeth Sanborn Falcon**  
To: josh.ripp@ceibaprep.org Josh Ripp

Monday, July 25, 2022 at 10:43:44 AM Pacific Daylight Time

Hi Josh, I spoke with the manager at Oliveira this morning. She tells me that the gates on both sides of Locust Street are frequently blocked during drop off and pick up. They also have a gate on Riverside that is sometimes blocked. She concurred with Hexagon that it was 15-20 minutes, not the 30-45 that the other 2 claimed.

In your presentation to parents this week, please ask the parents to move if they see someone trying to get in or out of the Oliveira gate. Also please emphasize that they are not to be dropping off on Riverside Drive.

Thanks!!

**Elizabeth Sanborn Falcon**

**Benchmark Realty Advisors**

**900 E. Hamilton Ave. Suite 100**

**Campbell, CA 95008**

**408-885-1110 (Office)**

**831-402-3900 (Cell)**

**CA BRE# 00468326**



# May 9, 2022

## **Description:**

Email exchanges dated May 9, 2022 between Alison Sickler and Admin2 team at Ceiba re Ceiba Students abusing neighbor's dog

## **Summary:**

In this email Alison Sickler expresses concerns and challenges about how to address problematic Ceiba student behavior in the local neighborhood.

Additionally, one student volunteered that she agrees with the accusations on the basis of something she witnessed including seniors trespassing and encouraging others to kick the dog.



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## Ceiba students abusing neighbor's dog?

---

alison.sickler@ceibaprep.org Alison Sickler

Monday, May 9, 2022 at 11:18:09 AM Pacific Daylight Time

To: admin2@ceibaprep.org Admin Team II

Good Morning,

I had a conversation this morning with my homeroom about the slide regarding Ceiba student behavior in the local neighborhood. Many students felt confused and offended. (I felt unprepared to have this discussion--perhaps representatives from admin could visit classes to help students understand the source of the conflict and the gravity of the issue?)

However, one student volunteered that she agrees with the accusations on the basis of something she witnessed. [REDACTED] said she has seen 12th grade students standing around a pitbull in a neighboring yard, chanting, "Kick it, kick it!" She didn't witness kicking, but she said that she overheard a student say, "Kick it, it gets so mad," which led her to believe that the dog has been abused by students in the past. She was deeply disturbed by this, but it's the first time she's brought it to the attention of a staff member.

This is a really serious allegation that I feel deserves further investigation.

Someone also mentioned that one of the residents of the homes on Locust sells food to students.

Thank you,

**Ms. Alison Sickler, MAT**

Ceiba College Prep

(831) 406-1865

260 W. Riverside Dr | Watsonville, CA 95076

Pronouns: she/her/hers

*I am not a teacher, but an awakener.*

— Robert Frost

---

josh.ripp@ceibaprep.org Josh Ripp

Monday, May 9, 2022 at 11:31:54 AM Pacific Daylight Time

To: alison.sickler@ceibaprep.org Alison Sickler

Cc: admin2@ceibaprep.org Admin Team II

Thank you, Alison. We'll follow up with [REDACTED]. I am sorry some of your students felt offended. Please communicate with your students that reminders and encouragement to behave appropriately and act respectfully should not be a reason to be offended.

**Josh Ripp**

Head of School

Ceiba College Prep

215 Locust St

Watsonville, CA 95076

(831) 740-8786



# January 24, 2022

## **Description:**

Email exchanges dated January 24, 2022 to Josh Ripp from David Harrah, Principal of E.A.Hall Middle School re Following Up on Trespassing Students

## **Summary:**

In this email Harrah details an incident where Ceiba students trespassed E.A. Hall Middle School and used profanities against the Principal. Police were involved. It is unclear how this resolved.



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## Student Incident

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**josh.ripp@ceibaprep.org Josh Ripp**

Wednesday, January 26, 2022 at 3:43:57 PM Pacific Standard Time

To: josh.ripp@ceibaprep.org Josh Ripp

Bcc: larryvilaubi@gmail.com Larry Vilaubi, mgjones@mac.com Michael Jones, duran117@yahoo.com Connie Duran, madrigalo@co.monterey.ca.us Olivia Madrigal Work, mnavas@scottsvalleysd.org Mary Navas, alexgarcia\_23@hotmail.com Javier A. Gonzalez

Good Afternoon Ceiba Board of Directors,

I was contacted by David Harrah, the EA Hall Middle School Principal, on Monday after a group of Ceiba students walked or rode bikes over to his school and confronted him and some of his staff in an intimidating manner. Specifically, David shared via email that "a large group of boys came to our campus during dismissal time today at 3:00...some of them started filming me and using profanity toward me." In the photos and videos that he shared, one student was seen giving him the finger and another possibly showing a gang sign.

Yesterday, we were able to meet with each of the boys individually and contact each of their parents. We had subsequent in-person conversations with a few boys' parents as well. The students will be attending a reflection and writing apology letters to David Harrah. We're also working on some ideas to help them restore Ceiba's "good name" in the community, possibly through a community service initiative.

We have an ongoing dialogue with the site admin at EA Hall to ensure they feel supported and to let them know that we're taking follow-up actions.

Please let me know if you have any further questions or comments.

Thanks,

**Josh Ripp**

*Head of School*

*Ceiba College Prep*

*215 Locust St*

*Watsonville, CA. 95076*

*(831) 740-8786*



# April 11, 2018

## **Description:**

Email exchanges dated April 11, 2018, between Mike Rich and Josh Ripp re Student automobile incident

## **Summary:**

In this email Mike Rich details an incident involving a student attempting to enter the school lot with his vehicle.



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## Student automobile incident

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mike.rich@ceibaprep.org Mike Rich  
To: josh.ripp@ceibaprep.org Josh Ripp

Wednesday, April 11, 2018 at 8:01:05 AM Pacific Daylight Time

Josh,

Good morning. When you arrive, please check in with Maria Ibarra regarding an incident this morning. I was only able to get cursory details from her, as she was directing traffic. In brief:

- [REDACTED] attempted to enter the school lot with his vehicle.
- Maria did not allow him to enter
- He insisted and continued driving into the school entrance
- Maria did not move
- [REDACTED] executed a U-turn in the middle of the driveway / Locust, blocking traffic
- It is unclear if there were students in the crosswalk at the time of the incident
- Maria is physically unhurt

[REDACTED] was nearby at the time of this incident, and was looking for you when I entered via the Elixir side door. She told me that there was trouble with [REDACTED], his car, and Maria / Griselda. The bullets above represent all that I was able to learn from Maria.

I have not entered this into EH as I do not feel that I have the full details.

Thanks,  
Mike

--

Mike Rich  
Director, Digital Learning and Technology  
Ceiba College Prep Academy, Room 202  
Mike.Rich@CeibaPrep.org  
+1-831-740-8778

---

josh.ripp@ceibaprep.org Josh Ripp  
To: mike.rich@ceibaprep.org Mike Rich

Wednesday, April 11, 2018 at 8:28:49 AM Pacific Daylight Time

Hi Mike,

Oh my gosh. Yes, I will follow up today.

Thanks,

Josh

**Josh Ripp**  
*Principal*  
Ceiba College Prep  
260 West Riverside Dr.  
Watsonville, CA. 95076  
(831) 740-8786



# September 6, 2016

## **Description:**

Email exchanges dated September 6, 2016 between Kate Watkins, Jen Block and Josh Ripp re Morning Traffic Patterns

## **Summary:**

In this email Kate details “back up on Riverside, nobody coming through the parking lot, hard to get down Locust because of people dropping kids on the street, etc.”



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## Morning Traffic Patterns

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**kate.watkins@ceibaprep.org Kate Watkins**

Tuesday, September 6, 2016 at 9:27:10 AM Pacific Daylight Time

To: jen.block@ceibaprep.org Jennifer Block

Cc: josh.ripp@ceibaprep.org Josh Ripp

Hi,

Multiple people commented on traffic this morning - backed up on Riverside, nobody coming through the parking lot, hard to get down Locust because of people dropping kids on the street, etc.

Could Maria and Veronica be out there every morning this week on Locust enforcing traffic patterns and keeping things moving?

I can be in front of the school by the walkway making sure that moves and that parents circle around to drop.

Let me know what you think! Thanks!

K

*Kate Watkins*

**Director, Talent Management**

**Ceiba Public Schools**

260 W. Riverside Drive | Watsonville, CA 95076

email: [kate.watkins@ceibaprep.org](mailto:kate.watkins@ceibaprep.org)

tel: 831-740-8775 | web: [www.ceibaprep.org](http://www.ceibaprep.org)



# August 7, 2015

## **Description:**

Email exchanges dated August 7, 2015 between Annie Millar, Tom Brown and Josh Ripp re We've had a few parent concerns today

## **Summary:**

In this email Millar describes parents stating that “neighbors were taking photos of students in the morning.”

Tom Brown noted that “Ceiba’s impact on the community (neighbors on Locust street, Patrons at Second Street Cafe, Library staff) is under constant surveillance.” Brown also described other nuisance incidents with students misbehaving in the parking structure, the Library and Second Street Cafe.



---

## We've had a few parent concerns today...

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**annie.millar@ceibaprep.org Annie Millar**  
To: tom.brown@ceibaprep.org Tom Brown

Friday, August 7, 2015 at 10:44:40 AM Pacific Daylight Time

Raquel reports that three parents have come in today to share that the neighbors were taking photos of students this morning. Are they doing a traffic study? Any thoughts on this? Any follow up on our parts?

Thanks!

Annie

Annie Millar  
Chief Academic Officer  
Ceiba Public Schools  
p: 831-740-8460  
m: 707-318-1833  
a: 260 W. Riverside Drive, Watsonville, CA 95076

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**tom.brown@ceibaprep.org TBrown Ceiba**  
To: annie.millar@ceibaprep.org Annie Millar

Friday, August 7, 2015 at 12:01:03 PM Pacific Daylight Time

Thoughts:

Ceiba's impact on the community (neighbors on Locust street, patrons at Second Street Cafe, Library staff) is under constant surveillance.

I try to keep on open door policy with everyone. City staff have my cell phone and are encouraged to text me when Ceiba students are mis-behaving in the parking structure. Likewise with Library and Second Street (had a complaint from them yesterday and Jon was planning to visit the Cafe at 4pm yesterday - we should check with him) staff.

Our contact for traffic at the City is Maria Esther Rodriguez. She may ask about the level, detail and frequency of trainings for volunteer staff and students when it comes to traffic supervision, crossing guards, etc.

Might not be a bad time to implement a "student community watch group" of upperclass students who make regular contact with neighbors to get in front of complaints and help facilitate solutions.

Can Jacquie and Jon organize and implement such a thing? Just a thought.

tb

On Fri, Aug 7, 2015 at 10:44 AM, Annie Millar <[annie.millar@ceibaprep.org](mailto:annie.millar@ceibaprep.org)> wrote:

Raquel reports that three parents have come in today to share that the neighbors were taking photos of students this morning. Are they doing a traffic study? Any thoughts on this? Any follow up on our parts?

Thanks!

Annie

Annie Millar  
Chief Academic Officer  
Ceiba Public Schools  
p: 831-740-8460  
m: 707-318-1833  
a: 260 W. Riverside Drive, Watsonville, CA 95076

--

Tom Brown



# February 4, 2015

## Description:

Email exchanges dated February 4, 2015 between Christal Moore and LTM Re Riverside Drop Off

## Summary:

In this email Christal supports Riverside as a drop off “especially after seeing the amount of students dodging cars on Locust. I am concerned it is an accident waiting to happen.”

---

### Riverside Drop Off

---

christal.moore@ceibaprep.org Christal Moore  
To: LTM@ceibaprep.org LTM

Wednesday, February 4, 2015 at 1:08:54 PM Pacific Standard Time

Hi Team,

I stood out on Riverside with Joey this morning. Most parents have gotten the memo, but what was more alarming was what happens on Locust. Around 7:35 or 7:40, kids are jumping out of cars and crossing in front of tons of traffic. It wouldn't be too bad if they all exited on the right and use the crossing guard, but they don't.

I spoke with a parent dropping off on Riverside who has tried multiple routes, and felt like Riverside was the safest because there is a sidewalk, and a stop sign where she can cross locust. To be frank, it is hard to argue with that, especially after seeing the amount of students dodging cars on Locust. I am concerned it is an accident waiting to happen.

Thoughts on suggestions for moving forward?

--

**Christal Moore**  
Director of Student Engagement  
**Ceiba College Preparatory Academy**  
260 W Riverside Drive | Watsonville, CA 95076  
tel: 831-740-8773  
email: [christal.moore@ceibaprep.org](mailto:christal.moore@ceibaprep.org) | web: [www.ceibaprep.org](http://www.ceibaprep.org)



# June 7, 2022 [Bullying]

## Description:

Ceiba LCAP report highlighting bullying and hazing issues and teacher turnover.

## Summary:

LCAP

Ceiba experienced a high rate of teacher turnover during the 2021-22 school year with six of 30 faculty departing in the first quarter of 2022-23. Teachers presented suggestions to reduce teacher turnover in March to the Ceiba board of directors that included **developing a formal process to address faculty concerns, reduce student bullying or hazing of new Ceiba teachers, and reducing teacher movement between classrooms whenever possible.**

(Emphasis added)



# December 2021

## Description:

December 2021 Staffing Update Report that shows high turnover at school.

## Summary:

Chart that details the turnover at Ceiba

<b>Turnover Rate by Year</b>	<b>Teacher Turnover</b>		<b>Admin/Classified</b>
	<b>2016-17</b>	9 of 30 / <b>30%</b>	7 of 33 / <b>21%</b>
	<b>2017-18</b>	7 of 30 / <b>23%</b>	6 of 34 / <b>18%</b>
	<b>2018-19</b>	9 of 30 / <b>30%</b>	7 of 31 / <b>23%</b>
	<b>2019-20</b>	8 of 30 / <b>27%</b>	6 of 35 / <b>17%</b>
	<b>2020-21</b>	8 of 29 / <b>28%</b>	12 of 36 / <b>33%</b>
	<b>2021-22</b>	5 of 30.5 / <b>16%</b>	4 of 26.5 / <b>15%</b>



# 2021-2022

## Description:

Suspensions at Ceiba were 9.78% and Expulsions at 1.17% in the academic year 2021-2022

Suspensions and Expulsions at Ceiba College Preparatory Academy for academic years 2021-22 to December 1 of 2022-23 School Year (Current)

Academic Year	Cumulative Enrollment	Total Suspensions	Unduplicated Count of Students Suspended	Suspension Rate
2022-23	511	9	8	1.57%
2021-22	511	68	50	9.78%

Academic Year	Cumulative Enrollment	Total Expulsions	Unduplicated Count of Students Expelled	Expulsion Rate
2022-23	511	1	1	0.20%
2021-22	511	6	6	1.17%

Source: Educator's Handbook



# **Governmental Irregularities**



# February 13, 2013 [Ceiba Board]

## **Description:**

Email dated February 13, 2013, from Tom Brown to Hilda Gonzalez regarding Checking In.

## **Summary:**

In this email Ceiba Principal Tom Brown is actively recruiting a City employee for his Board prior to a significant land use decision.





**Hilda Gonzalez**

January 22, 2013 at 8:19 AM

Re: Board Member(s) for Ceiba Public Schools

To: Tom Brown

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Good Morning Tom,

Happy New Year to you and hope all is well.

I am always happy to assist when possible. I take lunch an hour lunch at 1 p.m., Fridays are usually a bit more flexible for me and work out best. I'm open after next Tuesday 1/29/13.

Hilda

On Sat, Jan 19, 2013 at 4:12 PM, Tom Brown <[tom.brown@beaconed.org](mailto:tom.brown@beaconed.org)> wrote:

Hello Hilda:

I hope this finds you and your family happy and healthy in the new year. I am also writing to see if you would have a few minutes to chat with me very informally about Ceiba's Board of Directors.

I would be interested to hear your thoughts on where we as an organization are headed and whether you have any suggestions for people who would make good additions to our board.

Please call or write me at your convenience. I look forward to hearing from you. Thank you very much for your time.

Sincerely,

Tom

--

Tom Brown

**Beacon Education Network | Ceiba Public Schools | Ceiba College Prep**

315 Main Street Suite 206 | PO Box 1449 | Watsonville, CA 95077

tel: (m) [831-239-2322](tel:831-239-2322)

email: [tom.brown@ceibaprep.org](mailto:tom.brown@ceibaprep.org) | web: [www.ceibaprep.org](http://www.ceibaprep.org)

--

Hilda Gonzalez

Sr. Acct. Asst. Bil./City of Watsonville

[hilda.gonzalez@cityofwatsonville.org](mailto:hilda.gonzalez@cityofwatsonville.org)

Office: 831-768-3134 / Fax: 831-763-4060

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# May 26, 2013 [Ceiba Board]

## **Description:**

Email dated May 26, 2013, from Tom Brown to Gabriel Gordo regarding Board Participation

## **Summary:**

In this email Ceiba Principal Tom Brown is actively recruiting a City employee for Ceiba's Board prior to a significant land use decision. Gordo became a board member.





**Tom Brown**

Re: Board Participation

To: Gabriel Gordo

May 26, 2013 at 4:13 PM

Gabe:

Not a problem. I am happy to hear that you are still interested. Our next board meeting is scheduled for Monday, June 10 at 5pm in our office.

It would be great if you could stop by and meet the current board. Please let me know if this fits into your schedule.

Thank you very much.

Tom

On Sun, May 26, 2013 at 12:08 PM, Gabriel Gordo <[gabriel.gordo@cityofwatsonville.org](mailto:gabriel.gordo@cityofwatsonville.org)> wrote:

Hi Mr.Brown,  
Hope your back is back to health. I like to apologize for not responding sooner. I have had to adjust to new responsibilities at work and manage a family issue that arose. Now that I things are much better I would like, if they invitation is still open of course, to submit my formal interest to participate in the Ceiba Board.

Sincerely,

Gabe Gordo

--

Tom Brown

**Ceiba Public Schools | Ceiba College Prep**

315 Main Street Suite 206 | PO Box 1449 | Watsonville, CA 95077

tel: (m) [831-239-2322](tel:831-239-2322)

email: [tom.brown@ceibaprep.org](mailto:tom.brown@ceibaprep.org) | web: [www.ceibaprep.org](http://www.ceibaprep.org)



# March 8, 2023 [PVUSD]

## **Description:**

Letter dated March 8, 2023 from Marta Bulaich to the PVUSD Board of Trustees Re PVUSD Response to Ceiba College Preparatory Academy Rezoning Petition

## **Summary:**

Given the issue regarding the distribution of Superintendent Michelle Rodriguez's February 13, 2023 letter addressed to the Watsonville City Council, I submitted the attached letter to the PVUSD Board of Trustees.



2546 Rolling Hills Ct.  
Alamo, CA 94507

March 8, 2023

**VIA HAND DELIVERY**

Board of Trustees  
Pajaro Valley Unified School District  
294 Green Valley Road  
Watsonville, CA 95076

**Re: PVUSD Response to Ceiba College Preparatory Academy Rezoning Petition**

Members of the Board:

Ceiba Charter School has been pursuing a zoning change for its campus in Watsonville. During the past ten months, Watsonville City Officials have collaborated with the Ceiba charter school community to modify the perceived environmental impacts of the school's operation on the adjacent land uses to bolster the rezoning. During that time, the Pajaro Valley Unified School District (PVUSD) has received communications from a number of entities detailing defects of the land use entitlements and governance of the school.

On February 13, 2023, the Superintendent transmitted a letter addressed to the Watsonville City Council, which was sort of a policy position statement by the PVUSD as to the Ceiba rezoning proposal. In that letter, the Superintendent provided a brief history of Ceiba's authorization. The letter stated that Ceiba might have to shut down if the school lost the use of its industrial school facility but that the PVUSD assuredly had the capacity to accommodate all of the displaced students.

The letter also reminded the City Council that the City was a stakeholder in the Ceiba enterprise since the City was the entity that approved a children's school to operate in an industrial zone in the first place. Finally, the letter encouraged Ceiba and the City Officials to resolve dangers with student drop offs and pick ups on Highway 129.



The Superintendent's letter was a critically important factor for the Council Members in making a decision on the Ceiba rezoning. However, a significant irregularity exists with the letter. Although the letter was addressed to the Watsonville City Council, the Superintendent only transmitted the letter to City Manager Rene Mendez and Mayor Eduardo Montesino. In the past, the Superintendent has used a protocol of transmitting communications to all of the Council Members when the Council was the indicated recipient. For this controversial and serious issue, the Superintendent changed the transmittal protocol.

Although the two city officials had received the Superintendent's letter well in advance of the February 28, 2023 Council Meeting, they neither distributed it to the other Council Members nor to the City Clerk. As a consequence, the Superintendent's letter was not included in the Agenda packet that was publicly released on February 24, 2023.

Given the mass and complexity of the agenda materials to be reviewed and considered in the brief span of four days, this was a grave omission. The concealment of the letter was only discovered by random inadvertent circumstances. I had received a copy of the Superintendent's letter on February 23, 2023, through a public records document request made to the Watsonville City Government.

Upon noticing that the Superintendent's letter was not in the distributed agenda packet, I then discovered that some Council Members had never received the letter either in their agenda materials or in any other manner.

Given the extreme time constraints of only two days before the Council Meeting, on February 26, 2023, I took the step of emailing a copy of the Superintendent's letter to every Council Member with a cover letter informing them that a serious irregularity was in effect. The next day, the City Manager distributed the Superintendent's February 13th letter to all Council Members with one day to go before the meeting.

Because of past legal problems, PVUSD has been compromised in its willingness to provide needed oversight of Ceiba's school misgovernance. Nonetheless, there is a troubling question that the Trustees, District Personnel, and the Public should be considering: Why did the Superintendent transmit her letter to the Council in a manner that made it likely that the letter could be withheld? Even more significant, why did the



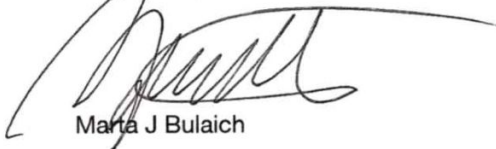
Board of Trustees

March 8, 2023

Page 3

City Manager and City Mayor withhold the letter from the other Council Members,  
other City Staff, and the Public?

Respectfully,

A handwritten signature in black ink, appearing to read 'Marta J Bulaich', with a long horizontal flourish extending to the right.

Marta J Bulaich

Attachments - 1



2546 Rolling Hills Ct.  
Alamo, CA 94507

February 26, 2023

**VIA ELECTRONIC EMAIL**

Watsonville City Council  
City of Watsonville  
275 Main Street  
Suite 400 (4th Floor)  
Watsonville, CA 95076

**Re: Ceiba College Preparatory Academy Zoning Amendment  
February 28, 2023, Agenda Item 3(a) - Watsonville City Council Meeting**

Members of the Council:

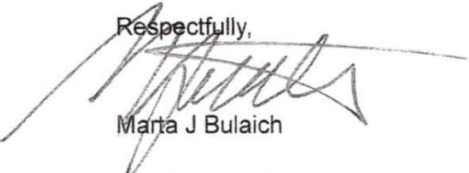
Very soon, the Council will be deciding on the Ceiba agenda item during the upcoming meeting. I have obtained a copy of a letter (dated February 13, 2023) in which the sender is the PVUSD Superintendent Michelle Rodriguez and the intended recipient is the Watsonville City Council.

The letter presents the current PVUSD policy position in regard to the Ceiba rezoning issue. I obtained a copy of the letter through a public records document request.

The letter is clearly an influential factor in any Council Member's decision-making for such a complex legislative act. I have noticed that the letter is not in the Agenda packet for the Ceiba agenda item, even though it is a public document and was sent on February 13, 2023, which is quite some time ago. This is an irregularity for which I do not have an explanation.

In light of the severe time constraints with this situation, I am providing all the Council Members with a copy of this letter for benefit of all parties involved.

Respectfully,



Marta J Bulaich

Attachment - 1



**From:** [Michelle Rodriguez on behalf of Michelle Rodriguez <michelle\\_rodriguez@pvusd.net>](#)  
**To:** [Eduardo Montesino](#); [Rene Mendez](#)  
**Subject:** PVUSD Response to Ceiba College Preparatory Academy Rezoning Petition  
**Date:** Monday, February 13, 2023 6:37:16 PM  
**Attachments:** [PVUSD Letter to Watsonville City Council Regarding Ceiba Facilities Permit.pdf](#)

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Good Evening Eduardo and Rene,  
Please find PVUSD's response to Ceiba College Preparatory Academy Rezoning Petition. Let me know if you would like to discuss further.  
Thank you,







February 13, 2023

By U.S. Mail & E-Mail: [eduardo.montesino@cityofwatsonville.org](mailto:eduardo.montesino@cityofwatsonville.org)

Watsonville City Council  
275 Main Street, Suite 400  
Watsonville, CA 95076

OFFICE OF THE  
SUPERINTENDENT

Re: Ceiba College Preparatory Academy Rezoning Petition (215 Locust Street)

Dear Members of the Watsonville City Council,

**Dr. Michelle Rodríguez**  
Superintendent

As you may be aware, the Parajo Valley Unified School District ("PVUSD") is the charter authorizer for the Ceiba College Preparatory Academy ("Ceiba"). As Ceiba's authorizer, PVUSD is intimately familiar with its history and operations, and is in a unique position to offer insight and context to help inform the City Council's upcoming consideration of Ceiba's request to rezone the location of its current school site from industrial to institutional (the "rezoning petition"). In addition, to the extent that Ceiba remains at its current facility, I urge the City of Watsonville and Ceiba to work closely to resolve public safety concerns that have recently been brought to my attention. Conversely, should Ceiba be unable to remain at its current site, PVUSD will remain a committed civic partner and be available to serve and any and all pupils who wish to enroll.

By way of background, the PVUSD Board of Trustees initially granted Ceiba its school charter in October 2007, and Ceiba began offering its educational program in the 2008-2009 school year. Since that time, the PVUSD Board of Trustees has renewed Ceiba's charter for three (3) additional five-year terms, the most recent renewal occurring in October 2020. While Ceiba initially operated within PVUSD facilities, in May of 2013, the parties entered a facilities memorandum of understanding ("MOU") through which Ceiba moved into its current facility located at 215 Locust Street.

**Board of Education**  
Jennifer Holm  
President

Georgia Acosta  
Vice President/Clerk

Daniel Dodge Jr.

Olivia Flores

Kimberly De Serpa

Oscar Soto

The terms of the MOU provided Ceiba with the certainty of having a home for its operations through the end of the 2023-2024 school year. As you may be aware, the City was a stakeholder in this process, having granted Ceiba a ten-year special use permit to operate in an area otherwise zoned for general industrial use. Importantly, the MOU provided that, in exchange for several concessions from PVUSD, Ceiba waived its statutory right to request facilities from PVUSD through the end of the 2023-2024 school year. This is a critical provision of the MOU as it means that should the City Council deny the rezoning petition, Ceiba may find itself without facilities for the 2023-2024 school year and, according to Ceiba, face closure.

While Ceiba has had a stable facilities arrangement since it entered the MOU with PVUSD, it is PVUSD's understanding that Ceiba's current residency has not been without issue. Members of the community have alleged that there is a dangerous condition along Highway 129 near Locust Street where Ceiba students are dropped-off and picked-up at the start and end of school days. To this point, I urge City officials and Ceiba leadership to work collaboratively to remediate any potentially dangerous conditions.




I recognize that the opinions and considerations the City Council must weigh in its present deliberations are myriad, and PVUSD will remain neutral to allow the City Council, Ceiba, and the local community to seek a resolution. To the extent that the parties are unable to resolve this matter, PVUSD is has sufficient capacity throughout its 16 secondary school sites and is prepared to welcome any and all of the approximately 520 existing Ceiba students who may wish to attend PVUSD schools.

I hope this letter helps inform the City Council of the context underlying Ceiba's relationship with PVUSD, and I remain available should you or the City Council have any questions.

cc: Josh Ripp, Head of School  
Ceiba College Preparatory Academy

Sincerely,



Dr. Michelle Rodriguez  
Superintendent of Schools





Irwin Ortiz <irwin.ortiz@cityofwatsonville.org>

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## Letter to Council-March 14, 2023 Meeting-Agenda Item 10.I--Request for denial of Second Reading Ceiba

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nick bulaich <princelazar1389@yahoo.com>

Tue, Mar 14, 2023 at 9:59 AM

To: Irwin Ortiz <irwin.ortiz@cityofwatsonville.org>

Dear Irwin: Attached is a letter (12 pages with two attachments) that I want to be added to the City Council March 14, 2023 Agenda Packet for Agenda Item 10.I (rezoning for Ceiba school). Please distribute to all the appropriate departments.

If you have any questions, feel free to contact me.

Thank you,

Nick Bulaich  
(831) 840-3577



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**Ltr to Council-Request of Denial Second Reading-Ceiba-Meeting March 14\_2023.pdf**  
3178K



305 Second Street  
Watsonville, CA 95076  
March 14, 2023

Watsonville City Council  
275 Main Street, Suite 400 (4<sup>th</sup> Floor)  
Watsonville, CA 95076

**re: Ceiba school: Request for Denial at Second Reading.  
Agenda Item 10.I-Watsonville City Council-March 14, 2023.**

Dear Council Members:

This letter is a formal request to the City Council (Council) to vote to deny adoption of the Second Reading for Ceiba College Preparatory Academy's (Ceiba) request for a Zoning Map Amendment for the temporarily located school at 215 Locust Street.

Since a Zoning Map Amendment is adopted as an Ordinance, it requires a Second Reading before adoption. For the Second Reading, in which the majority of the Council can vote to deny the Amendment, there are numerous issues which hopefully the Council will consider and use as a justification to deny Ceiba's requested Zoning Map Amendment.

To amend the City's Zoning Map, as referenced in Municipal Code §14-12.807, the Council needs to "make findings identical to Section 14-12.708" which are as follows:

**"The Planning Commission and City Council shall, in Planning Commission recommending or the City Council in approving an amendment to the General Plan Land Use Diagram or text, make the following findings:**

- (a) That the proposed amendment is consistent with the policies embodied in the General Plan;**
- (b) That the proposed amendment is compatible to the extent possible with the actual and general planned use of the adjacent properties."**  
(Underline added emphasis.)

As will be discussed and pointed out later in this letter, City Staff (Staff) has NOT presented sufficient findings to support the amendment to the City's Zoning Map.

Leading up to the February 28, 2023 Special City Council Meeting, many letters and documents were submitted to the City opposing the request by Ceiba for a Zoning Map Amendment, General Plan Map Amendment, and Special Use Permit to allow the permanent operations of the Ceiba school at its current site.



The City Attorney and Staff have a responsibility to properly review all letters and documents that are submitted to the Council for any and all Agenda Items and to inform Council Members as to the importance, if applicable, of any submission to the Council.

It is obvious that neither the City Attorney nor Staff properly informed the Council about important and relevant information that was submitted to the Council that could have, and should have, convinced the Council to vote to deny Ceiba's request for a General Plan Amendment, Zoning Map Amendment, and a Special Use Permit.

This will be discussed in detail in several sections within this letter.

## **I. General Plan Policies.**

As stated earlier, to amend a Zoning Map findings must be made same as those for making an amendment to the General Plan Map. The Watsonville City General Plan 2005 (General Plan) is the most current one at the present time. There are numerous Chapters in the General Plan which include a significant number of Goals and Policies. These items are the source for making the findings to justify a Zoning Map Amendment.

Staff decided to omit numerous relevant Policies in their report and presentation to the Council and also decided to heavily focus on some Policies that, at best, were weakly connected to the issue.

Both of these areas, Goals and Policies, will be covered below by Chapter and Policy number and brief comments to follow in order for the Council to better understand on why Staff has failed to properly analyze the Zoning Map Amendment request by Ceiba.

### **A. Chapter 4: Land Use and Community Development.**

As stated in its introduction paragraph, this Chapter "is the backbone of the General Plan" and "it sets forth the city's intentions for development, redevelopment, conservations, and growth."

#### **1. Policy 4.A Residential Land Use.**

Section 4.A.1 of this Policy requires the City to "monitor the availability of of land zoned for residential" to make sure there is an adequate supply of such land for future development. The properties purchased by Ceiba at 228 & 234 Locust Street for their desired construction of a school gymnasium are zoned Residential.

Although Staff claims these properties are not before the Council at this time, the reality is that they are very relevant because Ceiba clearly has expansion plans and intends to grow on both sides of their temporary



campus, thus if the City were to approve Ceiba's rezoning request for the school site, at a minimum the rezoning of the purchased Residential properties would be next.

## **2. Policy 4.B Neighborhood Preservation.**

The three Implementation Measures in this Policy section clearly stress the importance of protecting "existing neighborhood qualities." All three are extremely relevant to this issue, yet Staff chose to totally ignore them.

It needs to be stressed that 4.B.2 states that the City should "avoid premature extension of public facilities and services." Ceiba wants to permanently place a school in an area which does not have the need for such a school. Customarily new schools are built when new subdivisions are built with the idea being such schools will be neighborhood schools.

Ceiba might try to claim that their school is a neighborhood one, but nothing could be further from the truth when seeing hundreds of cars coming and going each school day for drop-offs and pick-ups of students and the very limited amount of housing in the surrounding area. It is disturbing to see that Staff omitted these facts from their analysis.

## **3. Policy 4.D Industrial Land Use.**

Although Staff cited some parts from this Policy, their justification of using the parts as Findings of support for Ceiba's rezoning are defective. Staff claims that the loss of Industrial Zoned land is not important because it is a "small, marginal adjustment to the overall Land Use Plan." This is wrong because the City needs every bit of industrial land for good job growth.

In addition, as has been shown, Ceiba has made public aspirations to increase the size of their campus which would need to rezone more Industrial Zoned lands. Even worse, some Staffers have promoted Ceiba's aspired increase of campus size. (Attachment "A")

Furthermore, Staff states that "the existing site is not currently used for industrial activities." Of course it isn't, it's being used by the school!

Rezoning any industrial zoned land goes against the policies of the General Plan, especially with the City's inability to annex new lands.

## **4. Policy 4.E Public and Quasi-Public Land Use.**

In respect to this Policy, the City is supposed to "plan for and designate an adequate amount of land" for "institutional uses", but the Ceiba site was never planned for any institutional uses. Instead, Ceiba's use was



temporarily created and was done improperly. This was and is counter to the Policies of the General Plan.

## **B. Chapter 7 Children and Youth.**

In a most unusual analysis for supporting a Zoning Map Amendment, Staff devoted more than a page of their Staff Report to say such a rezoning Amendment is consistent with the General Plan Policies for Children and Youth.

As claimed by Staff, Goal 7.1, Policies 7.A and 7.E are applicable to support Ceiba's rezoning request. Yet, the first two clearly stress the importance of making a "safe" environment for the children and youth. Putting a school in area of heavy industry, State Highway 129, with inadequate parking and narrow streets which easily become congested during school drop-off and pick-up is obviously NOT a "safe" environment for a school serving children and youth.

In respect to Policy 7.E, it basically deals with maximizing learning opportunities, but using rezoning to create a school that is extremely deficient in the amount of land per student and without proving that the Pajaro Valley Unified School District is failing at giving sufficient learning opportunities for their students, this Policy would not be applicable.

### **1. Policy 7.L Safe, Protective Environments.**

"The City of Watsonville is committed to promoting safe and secure environments wherever children, youth, and families gather." As mentioned before, by putting a school in area of heavy industry, State Highway 129, with inadequate parking and narrow streets which easily become congested during school drop-off and pick-up, there is simply no way Staff could say Ceiba is consistent with this policy, which probably explains why Staff conveniently omitted any mention of this policy.

## **C. Chapter 9 Environmental Resource Management.**

As part of the introduction to this Chapter, it is stressed about the importance of "wisely" managing the air quality of the City and "Air Quality" is a stated goal in the General Plan (Goal 9.4). Throughout the length of Ceiba's stay at the site, the City has poorly managed our air quality by intentionally creating a traffic mess from a project that should never have been allowed to operate.

### **1. Policy 9.C Air Quality.**

There are numerous numbered items in this section that Staff should have cited as a source to deny Ceiba's rezoning request mainly because for over 9 years, the traffic congestion created by the school's use has been horrendous, and there is no valid proof whatsoever showing that Ceiba



has lessened the number of cars coming and going to, or near, the site on a daily basis for drop-offs or pick-ups of students. The so-called solutions offered to lessen automobile usage have always been basically just words on paper without evidence of being successfully implemented.

In this modern era of so many jurisdictions striving to improve air quality, we have a City, by direct planning, approving the continuation of a project that does the exact opposite.

#### **D. Chapter 10 Transportation and Circulation.**

This is another area in which Staff chose some Policies from the Chapter to focus on but omitted mention of others that are clearly relevant.

As has been stated in numerous letters and documents to the City, Locust Street is a narrow street with street parking on both sides. When congested with school related automobile traffic, there is no safe path for bicycle travel on the street.

In addition, Highway 129 (Riverside Drive) is an extremely busy roadway with many semi-trucks using it throughout the day. Despite months and months of public input expressing the dangers of using the Highway for drop-offs and pick-ups of students, the City only decided at essentially the 11<sup>th</sup> hour for the February 28, 2023 Council Meeting to add a condition in which Ceiba is to “institute a policy that no student drop off or pick up is to take place along Riverside Drive.” This was offered despite the fact that Staff and Ceiba previously said they could not control parent behavior for such usage of Riverside Drive.

Forcing Ceiba to “institute a policy” to ban Riverside Drive usage for drop-off and pick-up is toothless because all Ceiba has to do is have a policy in place without having any enforcement requirements.

It has become rather apparent that Ceiba is having parents spread out the drop-offs and pick-ups of students to other streets, including but not limited to Rodriguez Street, Walker Street, Second Street, Pine Street and Beach Road. Most of these streets are frequently used by automobiles and trucks of all sizes.

The Goals, Policies and Implementation Measures in this Chapter are of great importance, but Staff conveniently decided, once again, to omit numerous key sections that should have been used to point out the Ceiba project should not be allowed to continue at its temporary site.

#### **1. Figure 10-3 Proposed Road Segments and Intersections Requiring Improvements.**

Walker Street from Riverside Drive to Ford Street and West Beach Street from Pine Street to Rodriguez Street have recommended improvements to



widen each of segments by two lanes. Such widening would surely make it more difficult to do daily dropping off and picking up of students, but it is known such activities are already happening. Staff should already be aware of such actions and should have taken into consideration these planned street widening recommendations to recognize that these street segments should not be used for drop-offs and pick-ups of students.

## **2. Staff citations of specific Goals and Policies.**

Staff went through only six Goals and Policies from Chapter 10 and recommended some improvements to meet these, but unfortunately Staff does not recognize how busy the streets are that would be used to get to the school.

The conditions offered by Staff are mainly some walkway improvements that simply are not enough to deal with the number of students and employees (almost 600) coming and going on a daily basis for the school.

The main problem is the location of the school in an industrial zoned area with busy streets surrounding it. This was not properly addressed by Staff.

## **3. Goal 10.1 Street and Highway Facilities.**

Due to the location of the school site, it is not plausible to believe that the City could “plan and provide a safe, efficient, and environmentally sensitive network of streets and highways for movement of people and goods.” The school’s location and the magnitude in the number of students and employees for such a small lot in an industrial zoned area, greatly affects all the surrounding streets and highway.

## **4. Goal 10.3 Rail Facilities and Service and Policies 10.I and 10.J**

Since the concept of using rail is still in the plans for Santa Cruz County, the City should be very careful in approving any project which has uses that spill over onto Walker Street. There is no doubt that some drop-off and pick-up of students occur on Walker Street.

In addition, there are numerous students who cross Walker Street to attend a school in an industrial area. This should be discouraged in order to avoid conflicts with any future rail activities.

## **5. Goal 10.4 Bicycle Circulation and Policies 10.K, 10.L & 10.M**

Due to the fact that Locust Street is a very narrow street with street parking on both sides and Riverside Drive is a State Highway, it is



essentially impossible to create a safe path for student bicyclists. Once again, the problem is with the location of the school.

#### **6. Goal 10.5 Pedestrian Circulation and Policies 10.N, 10.O & 10.P**

As mentioned before, since the site is in an industrial zoned area surrounded by busy streets, it is an unwise and unsafe decision to locate a school in such an area.

There is no feasible alternative to redirect traffic away from the surrounding streets, even if the City did want to accommodate one school on one small site. This is poor planning and should not be allowed to happen.

#### **7. Goal 10.8 Truck Transportation and Policy 10.U**

Watsonville is an area that is crucial for truck transportation because multiple State Highways go through the City and numerous local industries require such transportation.

Goal 10.8 states the following:

**“Recognize the importance of truck transportation to the Watsonville area, and to plan for the safe, unobtrusive movement of trucks.”**

At a minimum, Staff is recommending curb extensions at Riverside Drive and Menker Street. Such extensions will surely be obtrusive to the movement of any trucks needing to use Menker Street and should not be constructed.

Despite the fact that there are semi-trucks and delivery trucks that traverse the streets and highway from every direction of the school throughout an entire day, Staff chose to ignore to cite this important Goal from the General Plan.

#### **8. Goal 10.10 Emergency Access and Policy 10.Y**

Some of Ceiba's drop-offs and pick-ups occur from queuing of automobiles around the building. This queued area is a designated fire lane. Having several hundred cars related to the school activities congesting streets on a twice-a-day basis and having some of the cars queue around the school building which is a designated fire lane fails to provide "acceptable response times" for the area.



## II. Compatible use of adjacent properties. Zoning Map

As mentioned earlier, a proposed amendment to the Zoning Map must be, as required in Municipal Code §14-12.708(b), **“compatible to the extent possible with the actual and general planned use of the adjacent properties.”**

For the issue of compatibility, Staff basically claims that the school is compatible with the surrounding properties simply because they say so. Yet they provided no evidence to back up their argument. This is an unprecedented display of negligent and unprofessional planning.

There really isn't any need to go into the “general planned use of the adjacent properties” because as explained earlier Staff was unable to fulfill this requirement of the Municipal Code.

The General Plan made no mention of converting the Ceiba temporary site or adjacent properties into anything resembling a school, thus this by itself should be enough to deny the Zoning Map Amendment requested by Ceiba.

In the case that the City wants to ignore their failure to make the proper Findings consistent with the General Plan, the rest of this section will focus on the compatibility of the “actual use of the adjacent properties.”

### A. Spot Zoning.

Staff refuses to call this Zoning Amendment request for what it is: spot zoning.

**“The ‘classic’ definition of spot zoning is ‘the process of singling out a small parcel of land for a use classification totally different from that of the surrounding area for the benefit of the owner of such property and to the detriment of other owners.’”<sup>1</sup>** (Underline added for emphasis.)

In respect to Zoning, Staff only likes to show a Zoning Map that is zoomed in which gives a very deceptive look at what the surrounding zoning truly looks like. It is important to show the size of the Industrial Zoned area to see how this Amendment request is clearly “spot zoning.” (Attachment “B”)

As easily seen, the Ceiba site Zoning Amendment is almost entirely in a sea of industrial zoning. The lots in yellow are zoned R-1 (Single Family Residential-Low Density). They are homes that have co-existed with the industrial area for decades but are too small in number to justify a disruptive school use being next to them. None of the other schools in the City have been approved to such a degree of incompatibility to adjacent properties.

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<sup>1</sup> See: <https://plannersweb.com/2013/11/understanding-spot-zoning-2/#return-note-10779-1>



## **B. Industrial Uses.**

Staff limited their compatibility discussion for Ceiba to only three properties with industrial uses that directly bordered the school site. Furthermore, Staff focused mainly on the possible problems those properties might create for the school rather than for the problems the school causes to the three bordering properties.

Staff wants to minimize the potential problems with giving permanent status to the school by saying they didn't receive "any complaints from" those properties. Yet for the February 28, 2023 Council Meeting for Ceiba's General Plan and Zoning Map Amendments and Special Use Permit request, Staff basically ignored all complaints and letters of opposition brought forward from other surrounding industrial operators and property owners.

It is also important to point out that one of the three industrial use properties ("beverage distribution facility") is believed to be owned by the same entity that owns the site that Ceiba is currently at. Since Ceiba is in the process of wanting to purchase their building for what appears to a rather bloated price, it is no surprise that the "beverage building" owners would not be complaining. Of interest, those same owners did not submit any letter of support for the rezoning of the property. All of this should have been brought forward by Staff for the Council to have a better understanding of the situation.

In addition, some Staffers (City Manager Mendez and Community Development Director Suzi Merriam) have also suggested and were "pushing" Ceiba to look at the beverage building as a possible site for the school. (Attachment "A") This is essentially saying that the solution to poor planning is to do more poor planning, but on a larger scale.

For the February 28<sup>th</sup> Meeting, the City received numerous letters from surrounding industrial operators that opposed Ceiba's requests for a Zoning change (in addition to the General Plan Map change and Special Use Permit request), but Staff and the majority of the Council decided to ignore them.

There were NO letters submitted from any Industrial operators or property owners in support of the continuation of the school at the site. To be clear, a school is definitely NOT compatible with any of the industrial operations that opposed having a school at the 215 Locust Street site.

## **C. Residential Uses.**

Ceiba's school operations consist of approximately 350 automobiles pouring into the neighborhood on a twice daily basis. This has been unfair to the residents of the area for multiple reasons, including but not limited to, parking spillover from the Ceiba site because of inadequate number of parking spaces on the site,



frequent congestion of residential streets, blocking of driveways, poorly trained crossing guards, and disrespectful behavior by students and parents.

Obviously, Ceiba has repeatedly shown it is incompatible with the area, yet Staff continues to push the project and the only solutions they have to offer to fix the problems are either a repeat of previous failed plans or else paper recommendations with zero enforcement capabilities.

A petition was circulated throughout the area which contained numerous signatures of neighbors who opposed the school continuing at its current site.

Despite having dozens of signatures from affected stakeholders and neighbors presented in opposition to the school staying at the site, Staff refused to point out the importance of such opposition in respect to compatibility and the majority of the Council decided to ignore the desires of the people who signed the petition.

This was a derelict of duty by Staff and the majority of the Council, and defeats the purpose of having a Zoning Code.

#### **D. Other areas of Incompatibility.**

It has been shown through pages and pages of submissions to the Council that this is a defective project that cannot be remedied. Ceiba definitely has a significant deficiency of required parking spaces which creates a spillover onto neighboring streets to the detriment of residents and businesses. The greatly increased traffic created by Ceiba's operations are incompatible to surrounding properties.

##### **1. Parking.**

In an unprecedented move, Staff made a decision to omit any analysis of parking for the Ceiba site for the February 28, 2023 Council Meeting.

I researched numerous Planning Commission and City Council Meetings from the previous two years and could not find a comparable action by Staff.

The customary procedure is for Staff to have a dedicated section for a discussion on parking in which Staff states the number of parking spaces that are on a site and the number that are required by the City's Municipal Code with an explanation on how such a number was calculated.

In a letter dated February 27, 2023 to the Council, I went through great detail to address the parking problem issue for Ceiba.



To make matters worse, during the February 28, 2023 Council Meeting, Ceiba claimed that they have “acquired additional parking” without offering any proof that such parking has been acquired.<sup>2</sup> In dereliction of proper procedure, Staff did not offer any input on Ceiba’s unverified claim.

The questions remain:

How many parking spaces are required by the City Municipal Code for the Ceiba site?

How is the required number of parking spaces determined?

How many legal parking spaces does Ceiba have on the site?

Staff has refused to publicly answer the above mentioned questions. At a minimum, this is professional misconduct.

## **2. Traffic.**

Despite the fact that two Traffic Studies prepared by professional traffic engineers were presented to the Council stating the problems with Ceiba’s traffic issues, Staff and the Council ignored the importance of the Studies, and instead relied on a severely defective traffic study that was prepared by Hexagon Consultants.

In addition, I also presented to the Council a letter dated February 24, 2023 which focused on several traffic issues, including but not limited to, the failed circulation loop around the building for drop-offs and pick-ups, pedestrians, misuse of the fire lane for a circulation loop, and more recent flawed solutions offered by Staff to allegedly solve traffic related issues.

All of this information, in addition to other items submitted to the Council, shows the incompatibility of the school with surrounding properties.

## **III. Conclusion.**

For nine years, Ceiba school has been a constant nuisance to the neighborhood and has directly caused historic through traffic in the surrounding area to be diverted to avoid dealing with the traffic congestion caused by Ceiba’s operations.

The school is incompatible to the entire area and it is unconscionable that City Staffers would bypass almost all professional standards to recommend such a poorly planned project.

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<sup>2</sup> See page 357 from February 28, 2023 Agenda Packet for Special Council Meeting. Also see page 460 showing that Ceiba claimed they had 20 additional parking spaces at an adjacent site. This claim was also unverified.



Even worse, was to see a majority of the Council support the continuation of the school operations at the site without taking into consideration all the information that came to the Council leading up to the February 28<sup>th</sup> Council Meeting. Part of the reason why some Council Members might have supported Ceiba's request could have come from Staff's omission of crucial General Plan Goals and Policies, and Staff's complete omission of analysis of parking for the project.

There is NO surrounding business or residence that has anywhere near the intensity of traffic, people coming and going to a site, and lack of required onsite parking spaces as that of Ceiba at its location. This proves that the school is incompatible to the area.

Hopefully, the Council, with time to have reconsidered this injustice, will vote to deny the Second Hearing for a Zoning Map Amendment for Ceiba school at the 215 Locust Street site.

Sincerely yours,



Nick Bulaich  
(831) 728-5640

Attachments: (2)

cc: City Manager  
City Clerk  
City Attorney  
Community Development  
Public Works  
Register-Pajaronian



# ATTACHMENT A

On Thu, Oct 13, 2022 at 9:33 AM Rene Mendez <[rene.mendez@cityofwatsonville.org](mailto:rene.mendez@cityofwatsonville.org)> wrote:

Good morning, yup I am pushing Josh in that direction.

On Thu, Oct 13, 2022 at 8:53 AM Suzi Merriam <[suzi.merriam@cityofwatsonville.org](mailto:suzi.merriam@cityofwatsonville.org)> wrote:

you know what's not included in their list? The property coming available right behind them!

On Wed, Oct 12, 2022 at 4:21 PM Rene Mendez

<[rene.mendez@cityofwatsonville.org](mailto:rene.mendez@cityofwatsonville.org)> wrote:

Hi, I asked Josh for a list of the areas they had looked to move their school and attached is what he provided. I don't know if we could adequately evaluate the other school sites, but is it plausible that the other non-school sites where evaluated and don't work for them. Also based on what they say they need, are there any other areas in the City that may work besides them expanding or moving to the soon to be vacant site behind them?

Thank



**Zoning Map**

**CITY OF WATSONVILLE**

**City of Watsonville**

Maple: Open Space, Through Trunkline, Main Through Corridor

**Zoning**

- CV: Village Commercial
- IG: General Industrial
- IP: Industrial Park
- R-1: Single Family Residential-Low Density
- R-2: Multiple Residential-Medium Density
- R-3: Multiple Residential-High Density
- CC: Central Commercial
- CCA: Central Commercial Core Area
- CH: Neighborhood Commercial
- CHS: Neighborhood Shopping Center
- CO: Office
- CT: Throughway Commercial
- RM-1: Planned Single Family Residential
- RM-2: Single Family Residential-Low Density
- RM-3: Multiple Residential-Medium Density
- RM-4: Multiple Residential-High Density
- CC: Central Commercial
- CCA: Central Commercial Core Area
- CH: Neighborhood Commercial
- CHS: Neighborhood Shopping Center
- CO: Office
- CT: Throughway Commercial
- RM-1: Planned Single Family Residential
- RM-2: Single Family Residential-Low Density
- RM-3: Multiple Residential-Medium Density
- RM-4: Multiple Residential-High Density
- CC: Central Commercial
- CCA: Central Commercial Core Area
- CH: Neighborhood Commercial
- CHS: Neighborhood Shopping Center
- CO: Office
- CT: Throughway Commercial

**Zoning Overlay**

- HO: Planned Development
- MAP: Residential Mobile Home Park
- Utility Protection
- Marine On Specific Plan
- Pierlot
- Watsonville City Limit

**CEIBA SPOT ZONING**

1 inch = 500 feet

0 500 1000 1500 2000 Feet

North Arrow

Prepared by: Watsonville GIS Center 10/20/2010

This map is a representation of the City of Watsonville's current zoning map. The City of Watsonville assumes no responsibility for any errors.

## CEIBA SPOT ZONING





Irwin Ortiz &lt;irwin.ortiz@cityofwatsonville.org&gt;

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## March 14, 2023 Watsonville City Council Meeting - Agenda Item 10.1

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**James Wells** <JWells@everettassociates.net>

Tue, Mar 14, 2023 at 7:54 AM

To: "eduardo.montesino@cityofwatsonville.org" <eduardo.montesino@cityofwatsonville.org>, "vanessa.quiroz@cityofwatsonville.org" <vanessa.quiroz@cityofwatsonville.org>, "maria.orocho@cityofwatsonville.org" <maria.orocho@cityofwatsonville.org>, "kristal.salcido@cityofwatsonville.org" <kristal.salcido@cityofwatsonville.org>, "casey.clark@cityofwatsonville.org" <casey.clark@cityofwatsonville.org>, "jimmy.dutra@cityofwatsonville.org" <jimmy.dutra@cityofwatsonville.org>, "ari.parker@cityofwatsonville.org" <ari.parker@cityofwatsonville.org>, "cityclerk@cityofwatsonville.org" <cityclerk@cityofwatsonville.org>  
Cc: "citymanager@cityofwatsonville.org" <citymanager@cityofwatsonville.org>, "cdd@cityofwatsonville.org" <cdd@cityofwatsonville.org>, Marta Bulaich <martabulaich@gmail.com>, Elise Cossart-Daly <ecd@cossart-dalylaw.com>

Dear City Council,

Please find attached additional comments and supporting documents on environmental matters related to the Ceiba Academy matter to be addressed at today's council meeting. We provide these comments on behalf of neighborhood stakeholders.

Jim Wells, PhD, PG

**LEA Environmental, Inc.**

[220 West Gutierrez Street](#)

[Santa Barbara, CA 93101](#)

805-880-9302 (office)

805-570-0267 (mobile)

[www.everettassociates.net](http://www.everettassociates.net)

Jim Wells, PhD, PG

**LEA Environmental, Inc.**

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**LEA\_2023\_03\_Follow-up\_Letter\_re\_School.pdf**  
18242K



March 13, 2023

Watsonville City Council  
City of Watsonville  
275 Main Street, 4th Floor  
Watsonville, CA 95076

Subject: Rezoning for Ceiba College Preparatory Academy - Agenda Item 10.1 - March 14, 2023 Watsonville City Council Meeting

Honorable Mayor Montesino and Members of the Council,

I am writing on behalf of neighborhood stakeholders that retained my firm to evaluate environmental matters in and around the Ceiba College Preparatory Academy. As a follow-up to my February 27, 2023 letter, I respectfully submit the following data and documents for the record, relating to the problematic environmental condition of the Ceiba Academy site and surrounding neighborhood.

- Covenant to Restrict Use of Property, Environmental Restriction for the former CalSpray site.
- Report regarding neighborhood soil conditions and supporting data collected by my team in 2010.
- CH2MHill (on behalf of Chevron), 2002, Remedial Action Implementation Report, 228 Locust Street (Former Cal Spray Site Area 2) Watsonville, CA.
- CH2MHill (on behalf of Chevron), 2002, Remedial Action Implementation Report, 228 Locust Street (Former Cal Spray Site Area 4) Watsonville, CA.
- CH2MHill (on behalf of Chevron), 2000, Remedial Investigation / Feasibility Study Report, 228 Locust Street (Former Cal Spray Site Area 4) Watsonville, CA.
- DTSC, 2020, DTSC, Human Health Risk Assessment (HHRA) Note Number 3: DTSC-modified Screening Levels.

This school is approximately ½ block from the former California Spray and Chemical Company (CalSpray) which occupied 135 Walker Street in Watsonville, California. In fact, the newly acquired parcel that the school intends to use for a gymnasium was part of the active cleanup of this facility.

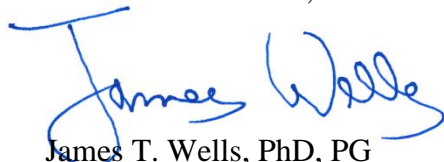


CalSpray, a predecessor of Chevron Chemical Company, was formed in 1907 to produce lead arsenate insecticide spray, principally for apple orchards. Even after cleanup, residual arsenic and lead concentrations were so high that the owner (Chevron) was required to record a land use covenant (attached) prohibiting residential development as well as schools, hospitals and day care centers.

In 2010, I served as an expert in a legal case involving the CalSpray facility. As part of my work in that case, I reviewed all available technical documentation and data regarding soil conditions at the site. I also directed a soil sampling program for shallow soil in the surrounding residential parcels. I found clear evidence of elevated lead and arsenic levels in shallow soil, extending up to 1,000 meters (approximately 0.6 miles) from the former facility. While remedial actions have been conducted at the CalSpray site itself, the responsible party has never cleaned up the offsite impacts.

Thank you for the opportunity to provide this supporting data. Please feel free to contact me if you have questions or would like additional information.

Sincerely,  
LEA Environmental, Inc.



James T. Wells, PhD, PG  
President

cc: Rene Mendez, City Manager  
Suzi Merriam, Community Development Director  
Marta Bulaich

Attachments



RECORDING REQUESTED BY:  
The Richard Hammond Company, Inc.  
3274 Martin Road  
Carmel, California 93923

WHEN RECORDED, MAIL TO:  
Department of Toxic Substances Control  
Region 2  
700 Heinz Avenue, Suite 200  
Berkeley, California 94710-2721  
Attention: Barbara Cook, Chief  
Northern California Coastal Cleanup  
Operations Branch



2002-0043972

Recorded  
Official Records  
County Of  
SANTA CRUZ  
RICHARD W. BEDAL  
Recorder

REC FEE 76.00  
CC CONF .00

11:16AM 19-Jun-2002

BLS  
Page 1 of 24

SPACE ABOVE THIS LINE RESERVED FOR RECORDER'S USE

## COVENANT TO RESTRICT USE OF PROPERTY

### ENVIRONMENTAL RESTRICTION

(Re: APN # 017-162-26 entitled "California Spray and Chemical Company [CalSpray] Site,  
Watsonville, Santa Cruz County, California")

This Covenant and Agreement ("Covenant") is made by and between The Richard Hammond Company, Inc. (the "Covenantor"), the current owner of property situated in Watsonville, County of Santa Cruz, State of California, described in Exhibit "A", attached hereto and incorporated herein by this reference (the "Property"), and the Department of Toxic Substances Control (the "Department"). Pursuant to Civil Code section 1471(c), the Department has determined that this Covenant is reasonably necessary to protect present or future human health or safety or the environment as a result of the presence on the land of hazardous materials as defined in Health and Safety Code ("H&SC") section 25260. The Covenantor and the Department, collectively referred to as the "Parties", hereby agree that the use of the Property be restricted as set forth in this Covenant.



ARTICLE I  
STATEMENT OF FACTS

1.01. The Property, totaling approximately 2.5 acres is more particularly described and depicted in **Exhibit "A"**, attached hereto and incorporated herein by this reference. The Property is located at 135 Walker Street in the city of Watsonville, Santa Cruz County, State of California.

A site location map is presented as **Exhibit "B"**. This property is more specifically described as Santa Cruz County Assessor's Parcel Number 017-162-26. Retired Santa Cruz County APNs 017-162-20, 017-162-23, 017-162-24, and 017-162-25 have been consolidated into the current 017-162-26 parcel.

1.02. Chevron Chemical Company is remediating the Property under the supervision and authority of the Department. The Property is being remediated pursuant to a Removal Action Workplan pursuant to Chapter 6.8 of Division 20 of the H&SC. Because hazardous substances, as defined in H&SC section 25316, which are also hazardous materials as defined in H&SC section 25260, including lead and arsenic, remain in the soil in and under portions of the Property, the Removal Action Workplan provides that a deed restriction be required as part of the site remediation. The Department circulated the Removal Action Workplan, together with a draft negative declaration pursuant to the California Environmental Quality Act, Public Resources Code section 21000 et seq. for public review and comment. The Removal Action Workplan and the negative declaration were approved by the Department on April 4, 2001. Remediation includes installing and maintaining an asphalt concrete cover ("Cap") over the Capped Property. The Cap consists of base rock, structurally strengthening geotextile material, and asphalt concrete, as more particularly described in the engineering drawing attached as **Exhibit "C"** hereto. The response action also includes the installation and operation of groundwater monitoring wells ("Monitoring Wells"). The Monitoring Well locations are presented in **Exhibit "D"**. The operation and maintenance of the Cap and Monitoring Wells is pursuant to an Operation and Maintenance Plan incorporated into the Operation and Maintenance Agreement between Chevron Chemical Company and the Department dated May 13, 2002.

1.03. The contaminants of concern in soil and its concentration ranges beneath the asphalt cap are as follow: lead (2.1 - 11,300 mg/kg) and arsenic (<5 - 21,400 mg/kg). The Department



concluded that the Property, as remediated, does not present an unacceptable threat to human safety or the environment, if limited to commercial and industrial use.

Groundwater at the property occurs approximately 25 feet below ground surface. Contaminants and the highest detected concentrations in groundwater are as follow: lead (10.5 µg/L), 1,2-dichloroethane (2.4 µg/L), and arsenic (11 µg/L). 1,2-dichloroethane was detected in only one groundwater sample from a location well outside of the former CalSpray property boundary. Volatile organic compounds were also not used during CalSpray operations. Subsequent sampling for pesticides and PCBs indicate no detection. California Drinking Water Standards are lead at 15 µg/L, 1,2 dichloroethane at 0.5 µg/L, and arsenic at 50 µg/L. The Department concludes that the groundwater does not present an unacceptable threat to human health and safety.

## ARTICLE II

### DEFINITIONS

2.01. Department. "Department" means the California Department of Toxic Substances Control and includes its successor agencies, if any.

2.02. Owner. "Owner" means the Covenantor, its successors in interest, and their successors in interest, including heirs and assigns, who at any time hold title to all or any portion of the Property.

2.03. Occupant. "Occupant" means Owners and any person or entity entitled by ownership, leasehold, or other legal relationship to the right to occupy any portion of the Property.

## ARTICLE III

### GENERAL PROVISIONS

3.01. Restrictions to Run with the Land. This Covenant sets forth protective provisions, covenants, restrictions, and conditions (collectively referred to as "Restrictions"), subject to which the Property and every portion thereof shall be improved, held, used, occupied, leased, sold,



hypothecated, encumbered, and/or conveyed. Each and every Restriction: (a) runs with the land pursuant to H&SC section 25355.5(a)(1)(C) and Civil Code section 1471; (b) inures to the benefit of and passes with each and every portion of the Property, (c) is for the benefit of, and is enforceable by the Department, and (d) is imposed upon the entire Property unless expressly stated as applicable only to a specific portion thereof.

3.02. Binding upon Owners/Occupants. Pursuant to H&SC section 25355.5(a)(1)(C), this Covenant binds all owners of the Property, their heirs, successors, and assignees, and the agents, employees, and lessees of the owners, heirs, successors, and assignees. Pursuant to Civil Code section 1471(b), all successive owners of the Property are expressly bound hereby for the benefit of the Department.

3.03. Written Notice of the Presence of Hazardous Substances. Prior to the sale, lease or sublease of the Property, or any portion thereof, the owner, lessor, or sublessor shall give the buyer, lessee, or sublessee notice that hazardous substances are located on or beneath the Property, as required by H&SC section 25359.7.

3.04. Incorporation into Deeds and Leases. The Restrictions set forth herein shall be incorporated by reference in each and all deeds and leases for any portion of the Property.

3.05. Conveyance of Property. The Owner shall provide notice to the Department not later than thirty (30) days after any conveyance of any ownership interest in the Property (excluding mortgages, liens, and other non-possessory encumbrances). The Department shall not, by reason of this Covenant, have authority to approve, disapprove, or otherwise affect proposed conveyance, except as otherwise provided by law, by administrative order, or by a specific provision of this Covenant.

#### ARTICLE IV RESTRICTIONS

4.01. Prohibited Uses. The Property shall not be used for any of the following purposes:



- (a) A residence, including any mobile home or factory built housing, constructed or installed for use as residential human habitation.
- (b) A hospital for humans.
- (c) A public or private school for persons under 21 years of age.
- (d) A day care center for children.

4.02. Soil Management

- (a) No activities that will disturb the soil at or below 1 foot below grade (e.g., excavation, grading, removal, trenching, filling, earth movement or mining) shall be allowed on the Property without a Soil Management Plan and a Health and Safety Plan approved by the Department.
- (b) Any contaminated soils brought to the surface by grading, excavation, trenching or backfilling shall be managed in accordance with all applicable provisions of state and federal law.
- (c) The Owner shall provide the Department written notice at least fourteen (14) days prior to any building, filling, grading, mining or excavating in the Property below the ground surface.

4.03. Prohibited Activities. The following activities shall not be conducted at the Property:

- (a) Raising of food (cattle, food crops);
- (b) Extraction of groundwater for purposes other than site remediation or construction dewatering.

4.04. Non-Interference with Cap. Covenantor agrees:

- (a) Activities that may disturb the Cap (e.g. excavation, grading, removal, trenching, filling, earth movement, or mining) shall not be permitted on the Capped Property without prior review and approval by the Department.
- (b) All uses and development of the Capped Property shall preserve the integrity of the Cap.



- (c) The Cap shall not be altered without written approval by the Department.
- (d) Covenantor shall notify the Department of each of the following: (i) the type, cause, location and date of any damage to the Cap and (ii) the type and date of repair of such damage. Notification to the Department shall be made as provided below within ten (10) working days of both the discovery of any such disturbance and the completion of any repairs. Timely and accurate notification by any Owner or Occupant shall satisfy this requirement on behalf of all other Owners and Occupants.

4.05. Non-Interference with Groundwater Monitoring Wells. Covenantor agrees:

- (a) Activities that may disturb the Groundwater Monitoring Wells (e.g. excavation, grading, removal, trenching, filling, earth movement, or mining) shall not be permitted on the Property without prior review and approval by the Department.
- (b) All uses and development of the Property shall preserve the integrity and physical accessibility to the Groundwater Monitoring Wells.
- (c) The Groundwater Monitoring Wells shall not be altered without written approval by the Department.
- (d) Covenantor shall notify the Department of each of the following: (i) the type, cause, location and date of any damage to the Groundwater Monitoring Wells and (ii) the type and date of repair of such damage. Notification to the Department shall be made as provided below within ten (10) working days of both the discovery of any such disturbance and the completion of any repairs. Timely and accurate notification by any Owner or Occupant shall satisfy this requirement on behalf of all other Owners and Occupants.

4.06. Access for Department. The Department shall have reasonable right of entry and access to the Property for inspection, monitoring, and other activities consistent with the purposes of this Covenant as deemed necessary by the Department in order to protect the public health or safety, or the environment.

4.07. Access for Implementing Operation and Maintenance. The entity or person responsible for implementing the Operation and Maintenance Agreement shall have reasonable right



of entry and access to the Property for the purpose of implementing the Operation and Maintenance Agreement until the Department determines that no further Operation and Maintenance is required.

## ARTICLE V

### ENFORCEMENT

5.01. Enforcement. Failure of the Covenantor, Owner or Occupant to comply with any of the Restrictions specifically applicable to it shall be grounds for the Department to require that the Covenantor or Owner modify or remove any improvements ("Improvements" herein shall mean all buildings, roads, driveways, and paved parking areas), constructed or placed upon any portion of the Property in violation of the Restrictions. Violation of this Covenant shall be grounds for the Department to file civil or criminal actions as provided by law.

## ARTICLE VI

### VARIANCE, TERMINATION, AND TERM

6.01. Variance. Covenantor, or any other aggrieved person, may apply to the Department for a written variance from the provisions of this Covenant. Such application shall be made in accordance with H&SC section 25233.

6.02 Termination. Covenantor, or any other aggrieved person, may apply to the Department for a termination of the Restrictions or other terms of this Covenant as they apply to all or any portion of the Property. Such application shall be made in accordance with H&SC section 25234.

6.03 Term. Unless ended in accordance with the Termination paragraph above, by law, or by the Department in the exercise of its discretion, this Covenant shall continue in effect in perpetuity.

## ARTICLE VII

### MISCELLANEOUS



7.01. No Dedication Intended. Nothing set forth in this Covenant shall be construed to be a gift or dedication, or offer of a gift or dedication, of the Property, or any portion thereof to the general public or anyone else for any purpose whatsoever.

7.02. Department References. All references to the Department include successor agencies/departments or other successor entity.

7.03. Recordation. The Covenantor shall record this Covenant, with all referenced Exhibits, in the County of Santa Clara <sup>CR02 BAH bse</sup> within ten (10) days of the Covenantor's receipt of a fully executed original.

7.04. Notices. Whenever any person gives or serves any Notice ("Notice" as used herein includes any demand or other communication with respect to this Covenant), each such Notice shall be in writing and shall be deemed effective: (1) when delivered, if personally delivered to the person being served or to an officer of a corporate party being served, or (2) three (3) business days after deposit in the mail, if mailed by United States mail, postage paid, certified, return receipt requested:

To Owner:

The Richard Hammond Company, Inc.  
3274 Martin Road  
Carmel, California 93923

To Department:

Barbara Cook, P.E., Chief  
Northern California Coastal Cleanup Operations Branch  
Department of Toxic Substances Control  
700 Heinz Avenue, Suite 200  
Berkeley, California 94710-2721

Any party may change its address or the individual to whose attention a Notice is to be sent by giving written Notice in compliance with this paragraph.

7.05. Partial Invalidity. If any portion of the Restrictions or other term set forth herein is determined by a court of competent jurisdiction to be invalid for any reason, the surviving portions of this Covenant shall remain in full force and effect as if such portion found invalid had not been



included herein.

7.06 Statutory References. All statutory references include successor provisions.

IN WITNESS WHEREOF, the Parties execute this Covenant.

By: Richard A. Hammond

Title: The Richard Hammond Company, Inc.

Date: 5/15/02

Department of Toxic Substances Control

By: Barbara J. Cook

Title: Barbara Cook, P.E., Chief  
Northern California Coastal Cleanup Operations Branch

Date: May 17, 2002





ALL-PURPOSE ACKNOWLEDGMENT

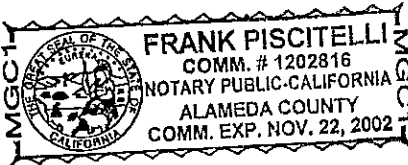
FRANK PISCITELLI  
NOTARY PUBLIC - CALIFORNIA  
ALAMEDA COUNTY  
COMM. # 1202816  
EXP. NOV. 22, 2002

State of California

County of ALAMEDA } ss.

On 5/17/02 before me, FRANK PISCITELLI,  
(DATE) (NOTARY)  
personally appeared BARBARA JEAN COOK  
SIGNER(S)

☐ personally known to me - OR - ☒ 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.



WITNESS my hand and official seal.

[Signature]  
NOTARY'S SIGNATURE

OPTIONAL INFORMATION

The information below is not required by law. However, it could prevent fraudulent attachment of this acknowledgment to an unauthorized document.

CAPACITY CLAIMED BY SIGNER (PRINCIPAL)

- ☐ INDIVIDUAL  
☐ CORPORATE OFFICER

TITLE(S)

- ☐ PARTNER(S)  
☐ ATTORNEY-IN-FACT  
☐ TRUSTEE(S)  
☐ GUARDIAN/CONSERVATOR  
☐ OTHER: \_\_\_\_\_

DESCRIPTION OF ATTACHED DOCUMENT

Coverlet to Rental Unit  
TITLE OR TYPE OF DOCUMENT

Multiple  
NUMBER OF PAGES

\_\_\_\_\_  
DATE OF DOCUMENT

SIGNER IS REPRESENTING:  
NAME OF PERSON(S) OR ENTITY(IES)

\_\_\_\_\_  
OTHER



STATE OF CALIFORNIA

COUNTY OF Monterey } SS.

On 5.15.02, before me, Cathy M. Bonanno,

personally appeared Richard Hammond

personally known to me (or proved to be 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.

WITNESS my hand and official seal.

Signature Cathy M. Bonanno

(This area for official notarial seal)



I CERTIFY UNDER PENALTY OF PERJURY THAT THE "NOTARY SEAL" ON THE DOCUMENT TO WHICH THIS STATEMENT IS ATTACHED READS AS FOLLOWS:

NAME OF NOTARY Cathy M. Bonanno

DATE COMMISSION EXPIRES March 12, 2005

PLACE OF EXECUTION \_\_\_\_\_

DATE \_\_\_\_\_

(Govt. Code, Sec. 27361.7)

Signature (Firm Name If Any) \_\_\_\_\_



EXHIBIT A

PROPERTY LEGAL DESCRIPTION



RECORDING REQUESTED BY



2001-0047665

Recorded  
Official Records  
County of  
SANTA CRUZ  
RICHARD W. BEDAL  
Recorder

REC FEE 16.00

09:39AM 01-Aug-2001

BLS  
Page 1 of 4

BACHAN, SKILLICORN & MARINOVICH

AND WHEN RECORDED MAIL TO

BACHAN, SKILLICORN & MARINOVICH  
POST OFFICE BOX 309  
WATSONVILLE CA 95077-0309

MAIL TAX STATEMENTS TO

RICHARD HAMMOND COMPANY, INC  
3274 MARTIN RD.  
CARMEL, CA 93923

96-028/ecm

SPACE ABOVE THIS LINE FOR RECORDER'S USE

## QUITCLAIM DEED

The undersigned grantor(s) declare(s):

Documentary transfer tax is \$ None- Change of Company Name

- ( ) computed on full value of property conveyed, or  
( ) computed on full value less liens and encumbrances remaining at time of sale.  
(X) Incorporated area: ( ) City of Watsonville, and

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

THE RICHARD HAMMOND COMPANY, INC., a corporation, formerly CONTAINER EQUIPMENT COMPANY, a corporation  
and CONTAINER EQUIPMENT COMPANY, INC., a corporation

hereby remises, releases and quitclaims to THE RICHARD HAMMOND COMPANY, INC., a corporation

the following described real property in the County of Santa Cruz, State of California:

APN: 017-162-26

SEE SCHEDULE "A" ATTACHED HERETO AND THEREFORE MADE A PART HEREOF

DATED: 7/27, 2001

THE RICHARD HAMMOND COMPANY, INC, a Corporation

By Richard B. Hammond  
President

By Barbara A. Hammond  
Secretary

STATE OF CALIFORNIA )

COUNTY OF SANTA CRUZ )

On July 27, 2001, before me, T.H. SKILLICORN, a Notary Public, personally appeared RICHARD B. HAMMOND and BARBARA HAMMOND, personally known to me (or proved to me on the basis of satisfactory evidence) to be the persons whose name is subscribed to the within instrument and acknowledged to me that they executed the same in their authorized capacity, and that by their signature on the instrument the persons or the entity upon behalf of which the persons acted, executed the instrument.

WITNESS my hand and official seal.

T.H. Skillicorn  
T.H. SKILLICORN, Notary Public



EXHIBIT "A"

The land referred to herein is described as follows:

SITUATE IN THE CITY OF WATSONVILLE, COUNTY OF SANTA CRUZ, STATE OF CALIFORNIA AND DESCRIBED AS FOLLOWS:

PARCEL ONE:

BEGINNING ON THE SOUTHWESTERN SIDE OF WALKER STREET, AT THE MOST NORTHERN CORNER OF LANDS NOW OR FORMERLY OWNED BY ONE MOREHEAD, AND RUNNING THENCE ALONG THE NORTHWESTERLY BOUNDARY OF SAID MOREHEAD LANDS AND ALONG LANDS FORMERLY OWNED BY MCSHERRY AND JESSEN SOUTH 43° 48' WEST 264.20 FEET; THENCE SOUTH 48° 39' EAST 10.00 FEET; THENCE ALONG THE NORTHWESTERN BOUNDARY OF LANDS NOW OR FORMERLY OWNED BY LINDBERG-SULLIVAN AND OKSEN SOUTH 45° 34' WEST 121.00 FEET TO LOCUST STREET, FROM WHICH POINT THE NORTHWESTERN CURB LINE ON FIRST STREET BEARS SOUTH 41° EAST 160.20 FEET DISTANT; THENCE ALONG THE NORTHEASTERLY WALL LINE OF LOCUST STREET NORTH 41° WEST 100 FEET, MORE OR LESS, TO THE SOUTHEASTERLY CORNER OF LAND CONVEYED BY NIS LINDBERG TO NICOLENE NILSENE LINDBERG BY DEED RECORDED JULY 18, 1940 IN VOLUME 390 PAGE 422 OFFICIAL RECORDS OF SANTA CRUZ COUNTY; THENCE LEAVING LOCUST STREET AND ALONG THE EASTERLY LINE OF SAID LAND OF LINDBERG NORTH 45° 34' EAST 108.70 FEET; THENCE NORTH 48° 39' WEST 80.30 FEET; THENCE ALONG THE SOUTHEASTERN BOUNDARY OF LANDS NOW OR FORMERLY OWNED BY MILLER AND PISTA NORTH 38° 42' EAST 259.57 FEET TO WALKER STREET AND THENCE ALONG THE SAID SOUTHWESTERN SIDE THEREOF SOUTH 50° EAST 193.50 FEET TO THE PLACE OF BEGINNING.

PARCEL TWO:

BEGINNING ON THE NORTHEASTERLY WALL LINE OF LOCUST STREET IN SAID CITY AT THE NORTHWESTERLY CORNER OF LAND NOW OR FORMERLY OF F. J. RODGERS, ET AL., THENCE IN A NORTHEASTERLY DIRECTION ALONG THE NORTHWESTERLY BOUNDARY OF SAID LOT OF LAND OF F. J. RODGERS ET AL, 108.7 FEET, A LITTLE MORE OR LESS, TO AN ANGLE IN THE NORTHWESTERLY BOUNDARY OF THE SAID RODGERS TRACT; THENCE NORTHWESTERLY ALONG THE LINE OF SAID RODGERS TRACT 76.6 FEET, A LITTLE MORE OR LESS, TO A LOT NOW OR FORMERLY OF MILLER; THENCE SOUTHWESTERLY ALONG THE SOUTHEASTERLY SIDE OF SAID MILLER LOT 93.7 FEET TO THE NORTHEASTERLY WALL LINE OF LOCUST STREET; THENCE IN A SOUTHERLY DIRECTION ALONG THE SAID NORTHEASTERLY SIDE OF LOCUST STREET 61.10 FEET, TO THE PLACE OF BEGINNING.

PARCEL THREE:

BEGINNING AT THE INTERSECTION OF THE NORTHWESTERN WALL LINE OF FIRST STREET WITH THE SOUTHWESTERN WALL LINE OF WALKER STREET AND RUNNING THENCE ALONG THE SAID SOUTHWESTERN SIDE OF WALKER STREET NORTH 50° WEST 194 FEET; THENCE LEAVING WALKER STREET SOUTH 44° 2' WEST 134.3 FEET; THENCE SOUTH 41 1/2° EAST 180 FEET TO THE AFORESAID NORTHWESTERN WALL LINE OF FIRST STREET, AND THENCE ALONG SAID NORTHWESTERN WALL LINE THEREOF NORTH 49° EAST 162.5 FEET TO



EXHIBIT "A"

PARCEL THREE CONTINUED:

THE PLACE OF BEGINNING; AND BEING THE SAME LANDS AS DEEDED BY LAURA L. GOUGH AND PAUL H. GOUGH TO GEORGE A. MOREHEAD BY DEED DATED NOVEMBER 2, 1905 AND RECORDED IN VOLUME 177 OF DEEDS AT PAGE 223, SANTA CRUZ COUNTY RECORDS, AND ALSO THE LANDS DEEDED BY ESTHER C. BRIMSON AND J.M. BRIMSON TO GEORGE A. MOREHEAD BY DEED DATED FEBRUARY 24, 1906 AND RECORDED IN VOLUME 180 OF DEEDS AT PAGE 68, SANTA CRUZ COUNTY RECORDS.

SAVE AND EXCEPTING THAT PORTION DESCRIBED AS FOLLOWS:

COMMENCING AT THE INTERSECTION OF THE NORTHWESTERN WALL LINE OF FIRST STREET WITH THE SOUTHWESTERN WALL LINE OF WALKER STREET; THENCE ALONG SAID SOUTHWESTERN LINE N. 48° 31' 02" W., 130.69 FEET; THENCE FROM A TANGENT THAT BEARS S. 48° 31' 02" E., ALONG A CURVE TO THE RIGHT, WITH A RADIUS OF 22.00 FEET, THROUGH AN ANGLE OF 98° 49' 00", AN ARC LENGTH OF 37.94 FEET; THENCE S. 50° 17' 58" W., 121.24 FEET TO THE LINE COMMON TO THE LANDS NOW OR FORMERLY OF ELWIN MANN, ET AL., AND OF CONTAINER EQUIPMENT CO.; THENCE ALONG SAID COMMON LINE S. 39° 59' 02" E., 103.01 FEET TO SAID NORTHWESTERN LINE OF FIRST STREET; THENCE ALONG LAST SAID LINE N. 50° 34' 16" E., 162.50 FEET TO THE POINT OF COMMENCEMENT.

PARCEL FOUR:

BEGINNING ON THE NORTHEAST LINE OF LOCUST STREET AT THE WEST CORNER OF THE LANDS CONVEYED BY BERNARDO S. YBARRA, ET UX, TO STATE OF CALIFORNIA BY DEED RECORDED IN VOLUME 1579, PAGE 736, OFFICIAL RECORDS OF SANTA CRUZ COUNTY, AND RUNNING THENCE FROM SAID POINT OF BEGINNING SOUTH 40° 21' 44" EAST ALONG SAID NORTHEAST LINE OF LOCUST STREET 26.53 FEET; THENCE ALONG A TANGENT CURVE TO THE LEFT ON A RADIUS OF 22.00 FEET THROUGH AN ANGLE OF 89° 20' 18" FOR AN ARC LENGTH OF 34.30 FEET TO THE NORTHWEST LINE OF RIVERSIDE DRIVE; THENCE NORTH 50° 17' 58" EAST ALONG LAST NAMED LINE 174.72 FEET TO THE SOUTH CORNER OF PARCEL 2 OF THE LANDS CONVEYED BY CARROL J. RODGERS, ET AL., TO CONTAINER EQUIPMENT COMPANY, A CORPORATION, BY DEED RECORDED IN VOLUME 851, PAGE 451, OFFICIAL RECORDS OF SANTA CRUZ COUNTY; THENCE NORTHWESTERLY ALONG THE SOUTHWEST LINE OF LAST NAMED PARCEL 2 A DISTANCE OF 80 FEET, A LITTLE MORE OR LESS, TO THE SOUTHEAST LINE OF PARCEL 1 OF LAST NAMED DEED; THENCE ALONG LAST NAMED LINE THE FOLLOWING COURSES AND DISTANCES: SOUTH 43° 48' WEST 75 FEET, A LITTLE MORE OR LESS, TO AN ANGLE THEREIN, SOUTH 48° 39' EAST 10.00 FEET AND SOUTH 45° 34' WEST 121.00 FEET TO THE POINT OF BEGINNING. THE ABOVE BEARINGS AND DISTANCES ARE COMPILED FROM RECORDED DEEDS.

PARCEL FIVE:

BEGINNING ON THE NORTHWESTERLY SIDE OF FIRST STREET AT THE MOST SOUTHERLY CORNER OF A LOT OF LAND CONVEYED BY THEODORE BARNHOUSE AND WIFE TO ESTHER C. BRIMSON BY DEED DATED FEBRUARY 10, 1903,



EXHIBIT "A"

PARCEL FIVE CONTINUED:

RECORDED IN VOLUME 151 OF DEEDS, PAGE 150, ET SEQ., RECORDS OF SANTA CRUZ COUNTY; THENCE RUNNING NORTHWESTERLY ALONG THE LINE OF SAID LAST MENTIONED LOT OF LAND, 180 FEET, A LITTLE MORE OR LESS, TO LAND NOW OR FORMERLY OF JOHN R. MARLOW; THENCE SOUTHWESTERLY AND ALONG THE SOUTHERLY LINE OF SAID LAND OF MARLOW AND APPROXIMATELY PARALLEL WITH FIRST STREET, 55 FEET TO LAND OF JESSEN; THENCE SOUTHEASTERLY AND ALONG THE NORTHEASTERLY LINE OF SAID LAND OF JESSEN AND PARALLEL WITH SAID FIRST MENTIONED LINE 180 FEET, A LITTLE MORE OR LESS, TO THE SAID NORTHWESTERLY SIDE OF FIRST STREET; THENCE NORTHEASTERLY ALONG THE SAID NORTHWESTERLY SIDE OF FIRST STREET, 55 FEET TO THE PLACE OF BEGINNING, AND THE LAND ABOVE MENTIONED AS BEING OF JESSEN, BEING NOW OR FORMERLY OWNED BY HIM. BEING THE SAME LOT OF LAND CONVEYED BY THOMAS B. DAKAN AS COMMISSIONER TO MARY J. YOACHAM BY DEED DATED JUNE 11, 1906 AND RECORDED IN VOLUME 183 OF DEEDS, PAGE 181, RECORDS OF SANTA CRUZ COUNTY.

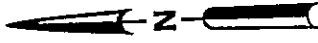
EXCEPTING THEREFROM THAT PORTION CONTAINED IN THE DEED FROM CONTAINER EQUIPMENT COMPANY, A CORPORATION, TO THE STATE OF CALIFORNIA, RECORDED DECEMBER 15, 1965 IN VOLUME 1735, PAGE 110, OFFICIAL RECORDS OF SANTA CRUZ COUNTY.

APN:



EXHIBIT B  
SITE LOCATION MAP

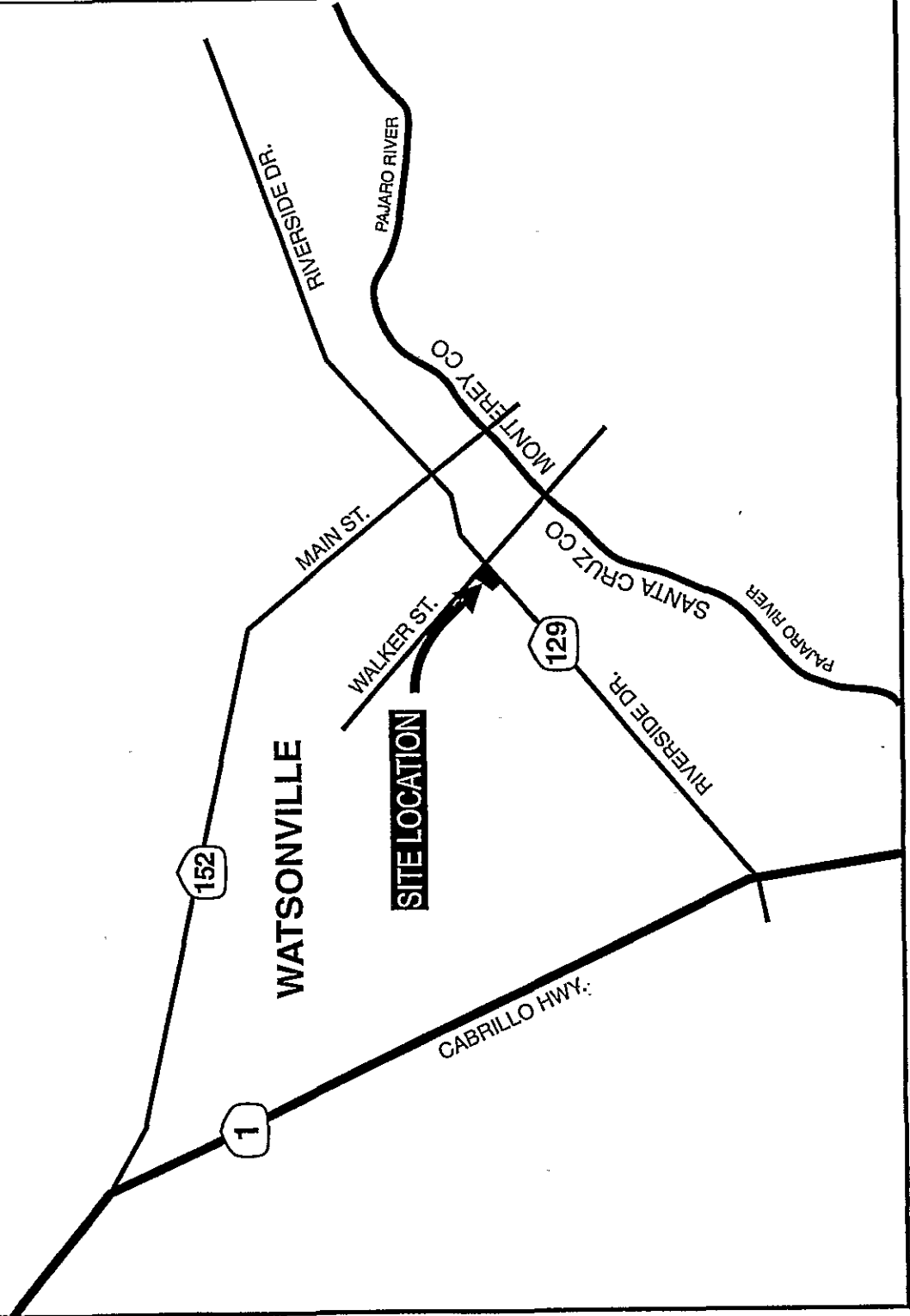




0 2000

Scale in Feet

Figure 1  
Site Location  
Cal Spray Site  
135 Walker Street  
Watsonville, CA



CH2MHILL

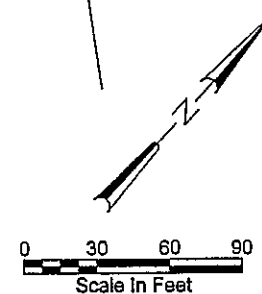


EXHIBIT C

CAP LOCATION AND CONSTRUCTION  
SPECIFICATIONS



LOCUST ST



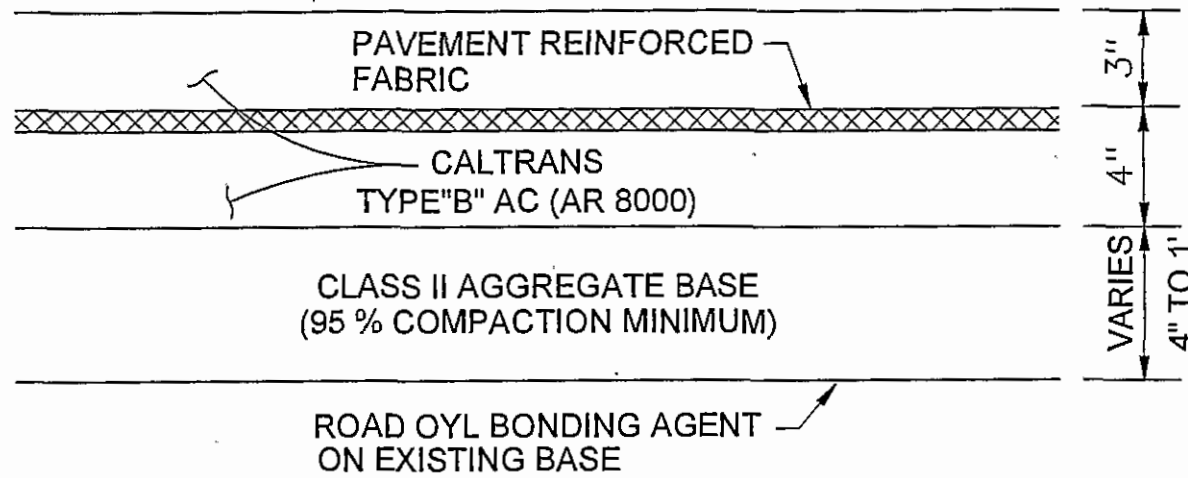
LIMIT OF ASPHALT CAP  
(DETAIL 7)

RIVERSIDE DR

ASPHALT CAP LOCATION  
CHEVRON CAL SPRAY PROJECT  
WATSONVILLE, CA

**CH2MHILL**





SEE NOTE 1

## DETAIL

7

ASPHALT CONCRETE (AC)  
PAVEMENT SECTION  
NTS

### NOTES:

1. APPLY "ROAD OYL" BETWEEN AGGREGATE BASE MATERIAL AND EXISTING GROUND MATERIAL.

CONSTRUCTION DETAILS  
CHEVRON CAL SPRAY PROJECT  
WATSONVILLE, CA

**CH2MHILL**



EXHIBIT D

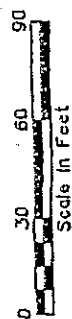
GROUNDWATER MONITORING WELL  
LOCATIONS



LEGEND

● MONITORING WELL

[ ] AREA COVERED BY CAP



Monitoring Well Locations  
Cal Spray Site  
Watsonville, CA

RIVERSIDE DR

CH2M HILL

WALKER ST

MW-1

MW-2

LOCUST ST

MW-3



Monitoring Well Coordinates  
 CAL SPRAY SITE  
 135 WALKER STREET  
 WATSONVILLE, CALIFORNIA

Well Name	State Plane NAD 83		Top of PVC Casing
	Northing	Easting	Elevation (ft NGVD)
MW-1	25197.51	50061.82	25.55
MW-2	24986.85	50182.45	25.28
MW-3	24814.45	49926.25	23.38



# **Report**

## **Shallow Soils Investigation**

**Watsonville, California**

**June 2010**

for:

Watts Guerra Craft LLP

by:

Wade Allmon PG CEG





## INTRODUCTION

This report describes the methods and presents the results of a shallow soil investigation conducted in Watsonville, California from May 18 through June 18, 2010. The investigation was designed and implemented by Wade F. Allmon a California Professional Geologist and Certified Engineering Geologist on behalf of the law firm of Watts, Guerra, Craft LLP. The general purpose was to measure residual metal concentrations in shallow soils at several former residences and other locations that may have historically been windblown or transported by floodwaters from a nearby pesticide manufacturing plant (CalSpray). In addition, presumed background soil samples were taken and analyzed for metals and three borings were drilled immediately adjacent to the former CalSpray site for the collection and analysis of soil and groundwater samples.

## PURPOSE AND SCOPE

The purpose of this investigation was to determine current metal concentrations in soils at former residences of four long-time residents of Watsonville California. Additionally, it was the purpose of this investigation to provide data toward the establishment of local background concentrations of lead and arsenic. The scope of the investigation comprised locating the 12 former residences with the aid of the former residents, conducting screening of shallow soils for lead at the residences with an X-ray fluorescence analyzer (XRF), collection of soil samples at the 12 residences, at 17 other locations and at 16 presumed background locations for laboratory analysis of metals. Additionally, where samples were collected near painted surfaces, the paint was analyzed for the presence of lead. Finally, three soil borings were advanced by Geoprobe methods immediately adjacent to the former CalSpray site for the collection and analysis of soil and groundwater samples.

## METHODS

**Locating Former Residences** – The former residences were located by the former residents themselves during drive-by tours conducted May 18, 2010. The former residences investigated were limited to the 12 locations that are within ½ mile of the former California Chemical Spray Company (CalSpray) location.

**Soil Screening** – A Thermo Scientific Niton XLp 300A x-ray fluorescence analyzer was used to screen soils at the residences for lead concentrations. The device was used as specified by the manufacturer by personnel trained by the manufacturer. The XRF device was used in the “bulk



sample mode” which is recommended setting for measuring in-situ soils. The semi-quantitative results were reported in parts per million (ppm).

At each former residence 3 to 9 shallow holes were dug and XRF measurements for lead were taken at 2-inch intervals to the bottom of the hole which was generally 6-inches deep and in a few cases down to 8 or 10-inches deep. At 17 locations where soil samples were taken that were not at former residences, soils were screened and sampled at 2 to 3 inches deep.

**Sample Nomenclature** – Each soil sample was given a unique name by the following logic. The 11 residence locations were designated as Y1 through Y11; the individual holes were designated alphabetically, “A” through whatever (horizontal location); the specific sampling depths were designated in inches below ground surface, 2 = 2 inches, 4 = 4 inches etc., (vertical location). For example, screening location Y4-G4 would be at residence Y4 (140 Grove Street), hole “G” and at a depth of 4 inches. Table 1 explains what street addresses correspond to the designations and Figure 1 shows the former residences on a map. GPS coordinates were taken for each former residence and for the background samples and are given in Appendix A. Additional samples were taken at 17 other locations within ½ mile of the former CalSpray site and which were given the prefix letter designation of “Z”. XRF readings of painted surfaces in the vicinity of soil samples were given the suffix of “P” and subsequent readings at background soil sample locations were given the suffix “X”.

**Soil Sampling and Analysis** – One or two soil samples were taken at each of the 11 former residences for laboratory analysis of metals and pH. Soil samples were collected with a clean stainless steel spoon at the selected depth and placed in clean 4 ounce glass sample jars. Two samples were taken at Y1 through Y5 while one sample was taken from Y6 through Y12 resulting in a total of 17 samples.

The samples were uniquely labeled with name, date and time of sampling and placed under chain of custody and delivered to the analytical laboratory for analysis. Laboratory analysis comprised the following breakdown: 16 residence samples for CAM metals by EPA Method 6020 and pH; 16 potential background samples designated X1 through X16 for lead, arsenic by EPA Method 6020 and pH. The analytical laboratory was Oilfield Environmental and Compliance Inc. (OEC) located in Santa Maria, California.

**Background Soil Sampling** – In order to provide data toward estimating the background concentrations of lead and arsenic in Watsonville, 16 samples were collected and submitted to the laboratory for analysis. The sample locations ranged from 1.6 to 3.5 miles from the former CalSpray site. Efforts were made to take samples radially with respect to the former CalSpray site, at distances greater than 1.5 miles from the former CalSpray site, and in an urban setting. The 16 sample locations are shown in Figure 1 designated as X1 through X16 and GPS data are



given in Appendix A. As can be seen in Figure 1, there are less X samples in southern directions, this owes to the fact that there are far fewer urban settings in those directions. Subsequent to the collection and laboratory analysis of the background samples, three XRF readings of lead were taken in the immediate vicinity of each of four of the background soil sample locations. These readings were designated x1x, x2x, x5x and x6x.

**Lead Paint Analysis** – The XRF analyzer was used to measure lead-based paint on painted surfaces that were within 20 feet of the soil samples collected at the former residences as well as other “Z” samples. For these readings the instrument was set to its lead paint measuring mode which can detect surface lead as well as deeper lead paint layers. In this mode the units are given in milligrams per square centimeter. Measurements of painted surfaces were designated with the suffix “p” after the location designations.

**Groundwater Borings** – Three soil borings were advanced by Geoprobe push methods at three locations proximal to the former CalSpray site for the collection of soil and groundwater samples. Continuous soil cores were retrieved for visual inspection and samples were retained in 4 oz. glass jars for laboratory analysis of metals. Once groundwater was reached new 1-inch diameter pvc screen and casing were installed in the borings and groundwater samples were retrieved. Groundwater samples were then retrieved by mechanical pumping through new Teflon tubing into acid-preserved plastic sample bottles. The borings were drilled and backfilled in accordance with an encroachment permit issued by the City of Watsonville. The borings, one on Walker St., one on Locust St., and one on Riverside, were designated W1, W2 and W3 respectively. For soil samples from the borings suffix designations represent the depths (in feet) at which the sample was collected (for example, W2-15 was collected at 15 feet bgs) while the groundwater samples were designated as “W” (for example, W2W was the groundwater sample collected in boring W2).

## RESULTS

**Location of Former Residences** – The specific locations of the former residences were established by the former residents themselves during a tour of the neighborhoods surrounding the former CalSpray site. Only three of the former residences existed at the date of the tour, all the rest having been removed and the properties in various states of development or use. Table 1 below provides information pertaining to each of the former residence properties surveyed.



Sample Designation	Former Resident	Street Address	Comments
Y1	Orozco	221 Rodriguez St.	Original house exists / survey side and back yard of back house
Y2	Mesa	359 Locust St.	Original house exists / survey all sides
Y3	Mendez	Front St. (formerly Riverside)	Resided in 3 separate residences, only the eastern-most Appt. remains / Survey sides and fronts (north) of the three former residences including two located on north side of Front St.
Y4	Orozco	140 Grove St.	Now "Gilbert's Auto Detailing" / survey NW, SW and SE sides of shack in open soil/gravel areas.
Y5	Mendez	Across Street From 157 Rodriguez St.	Former residence now condos / survey across street behind 157 Rodriguez St. in bare soil and gravel areas and at corner of Rodriguez St. and Riverside.
Y6	Orozco	32 Walker St.	Now "Western Roofing" / survey SW and SE sides at the very few existing spots of bare soil.
Y7	Valverde	220 First St.	Former residence location is now eastbound Riverside and vegetated median to SE (directly across St. from former CalSpray) / survey in median and across front St. to SE.
Y8	Mendez	228 Locust St.	Now fenced gravel lot / survey across street NE and SW of 225 Locust St.
Y9	Orozco	Riverfront and Union (formerly 113 Bridge St.)	Now "del Sol Market" / survey NE, NW and SW sides in bare soil areas.
Y10	Mesa	147A Rodriguez St.	Address not found / survey at "Latina Laundromat" to SE and at Kerney St. Park to west in open soil areas.
Y11	Orozco	Central St.	Now Police Station / survey in bare soil lot to SW and in planter next to building to west.
Y12	Orozco	26 Menker St.	Now Gus' Auto Body shop / survey in bare soil in front planter and take sample at north side of house at 28 Menker st.

**Table 1 – Summary of Residence Investigative Locations**

**Former Residences Soil Analysis** – One or two areas of soil at each former residence were sampled and analyzed for metals by EPA Method 6020 and for pH. The analytical results for the former residence samples are summarized below in Table 2 and the analytical laboratory report is included as Appendix A and the locations are shown in Figures and 2.

Sample	Y1B8	Y1C6	Y2C2	Y2D2	Y3G2	Y3H4	Y4B2	Y4C4	Y5D2	Y5E2	Y6C2	Y7B2	Y8B2	Y9C6	Y10B4	Y11B2	Y12E2
Lead	750	130	270	730	370	570	100	850	250	340	170	86	170	310	140	410	650
Arsenic	18	5.1	4.1	7.1	5.5	5.7	2.9	8.6	5.8	4.7	6.2	5.7	7.0	8.7	5.1	3.1	5.9
pH	6.65	6.37	8.57	7.24	7.41	8.30	8.70	8.17	8.44	8.35	8.35	7.12	7.38	8.45	9.00	9.16	8.82

**Table 2 – Summary of Analytical Results of Soil Samples at Former Residences**



**Other Locations** – Soil samples (designated as “Z”) were collected at 17 other downtown locations within ½ mile of the former CalSpray site. The locations of these samples are shown in Figures 1 and 2. All of these samples were collected at a depth of 2-inches bgs and were submitted for metals analysis at the laboratory by EPA Method 6020 and pH. The results are summarized below in Table 3 while the full laboratory report is given in Appendix A.

sample	Z3	Z13	Z14	Z15	Z17	Z22	Z23	Z25	Z26	Z28	Z30	Z33	Z34	Z35	Z37	Z38	Z40
Lead ppm	200	356	617	390	370	1700	280	1400	720	150	170	200	800	260	670	420	390

**Table 3 – Summary of Lead Analytical Results of Other Soil Samples**

**Lead Paint Analysis** – The XRF instrument was used to measure the lead content of paint on surfaces within 20 feet of soil sample locations. In its lead paint mode the instrument can detect surface as well as lead in deeper painted layers and reads out in milligrams per square centimeter. Readings are given below in below in Table 4. The suffixes of the sample designations indicate the adjacent soil sample location designation.

Sample	Y1bp	Y1cp	Y2cp	Y2dp	Y3gp	Y3hp	Y4bp	Y4cp	Y5dp	Y5ep	Y9cp	Y12ep
Lead mg/cm2	2.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.01

Sample	Z22p	Z25p	Z26p	Z28p	Z30p	Z33p	Z34p	Z35p	Z27p	Z38p	Z40p
Lead mg/cm2	0.01	0.5	0.0	0.0	0.0	0.0	0.01	0.0	0.03	8.3	0.01

**Table 4 – XRF Lead Paint Readings**

**Borings to Groundwater** – Three soil borings were advanced to collect continuous soil samples and groundwater samples at locations immediately adjacent to the former CalSpray site. The soils were predominantly fine-grained ranging from clayey fine sands near the surface to silts and silty clays from approximately 10 feet to 25 feet bgs. Soil samples were taken at regular intervals for laboratory analysis of metals. Borings were terminated when groundwater was detected and groundwater samples were taken and submitted to the laboratory for



analysis of metals analysis. Analytical laboratory reports are given in Appendix A while lead and arsenic results for soil samples are summarized below in Table 5.

sample	W1 3'	W1 5'	W1 10'	W1 15'	W1 20'	W1 25'	W2 2.5'	W2 5'	W2 10'	W2 15'	W2 20'	W2 25'	W3 2.5'	W3 5'	W3 10'	W3 15'	W3 20'
Lead ppm	5.9	6.4	3.7	7.3	2.9	2.1	37	6.8	4.4	8.5	4.3	4.1	70	8.2	6.5	8.0	6.2
Arsenic ppm	3.2	4.1	2.2	ND	2.5	1.4	190	120	8.5	18	3.6	2.9	24	13	5.4	6.0	4.0
pH	8	7.8	8.2	8.1	6.9	8.0	3.6	3.8	4.4	8.8	9.6	8.6	5.1	4.6	4.1	5.7	6.0

**Table 5 – Summary of Analytical Results of Soil Samples from Borings**

Groundwater was qualitatively estimated to occur at 20 feet, 21 feet and 16 feet bgs in borings W1, W2 and W3 respectively. Samples from W1 and W3 were light brown in color, while the groundwater sample from W2 was dark grey and had a strong anoxic sewer-like odor.

Laboratory analysis of arsenic measured 0.039 mg/L in W3 groundwater and was not detected above the detection limit of 0.010 in the other two samples.

**Background Soil Analysis** – The 16 soil samples that were taken at locations expected to be representative of urban Watsonville soil unaffected by windblown metal particles from the CalSpray site were analyzed in the laboratory for lead, arsenic by EPA Method 6020 and pH. The analytical results are summarized below in Table 6 while the full laboratory report is given in Appendix A.

SAMPLE	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X13	X14	X15	X16
Lead	19	99	29	26	7.0	45	85	28	16	63	11	14	51	9.5	9.5	8.2
Arsenic	3.6	3.7	2.6	2.3	2.5	4.3	23	3.2	3.2	17	4.4	7.4	12	1.9	5.0	4.6
pH	7.09	5.54	6.45	5.90	6.17	5.54	6.95	7.15	6.18	7.23	7.69	7.60	7.63	5.57	8.38	6.76

**Table 6 – Analytical Results of Soil Samples at Locations Presumed to be Background (ppm)**

The lead concentrations measured in soil samples from locations presumed to be representative of background for Watsonville ranged from 7 to 99 ppm while arsenic ranged



from 1.9 to 17 ppm. All 16 background samples were collected proximal to roadways and are therefore potentially subject to varying degrees of bias introduced by automobile derived lead. Evidence of this potential could come from the qualitative observation that three of the lowest lead values (9.5 ppm at X14; 9.5 ppm at X15 and 8.2 ppm at X16) were from samples taken in areas that were more rural in nature and the roadways less traveled. Subsequently, three XRF readings were taken in the immediate vicinity (5 to 20 feet away) of the locations of four of the background soil locations. These readings which are designated with the suffix "X" attached to the soil sample location designation are given below in Table 7.

Location	X1xa	X1xb	X1xc	X2xa	X2xb	X2xc	X5xa	X5xb	X5xc	X6xa	X6xb	X6xc
Lead ppm	14	12	22	84	97	77	16	14	15	22	17	17

**Table 7 – Lead Concentrations at Background Soil Sample Locations Measured by XRF**

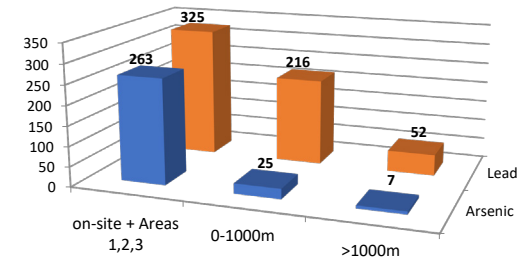
The average of the readings at location X1 is 16 ppm as compared to the laboratory result of 19 ppm. The average of the readings at location X2 is 86 ppm as compared to the laboratory result of 99 ppm. The average of the readings at location X5 is 16 ppm as compared to the laboratory result of 7 ppm. The average of the readings at location X6 is 19 ppm as compared to the laboratory result of 45 ppm.



LOC_ID	SAMPLE_ID	B_DEPTH	E_DEPTH	Arsenic	Lead	HA_UNITS	ONSITE	Distance_M	Land_Use
HA3	HA3-0.5	0.0	0.5	1390.0	303.0	mg/kg	2	0.0	Urban
HA4	HA4-0.5	0.0	0.5	1330.0	251.0	mg/kg	2	0.0	Urban
HA1	HA1-0.5	0.0	0.5	1270.0	171.0	mg/kg	2	0.0	Urban
M10	M10-0.5	0.0	0.5	1000.0	1320.0	mg/kg	2	0.0	Urban
M9	M9-0.5	0.0	0.5	363.0	304.0	mg/kg	2	0.0	Urban
HA2	HA2-0.5	0.0	0.5	321.0	168.0	mg/kg	2	0.0	Urban
M2	M2-0.5	0.0	0.5	300.0	258.0	mg/kg	2	0.0	Urban
CH-26	CH-26-0.5	0.0	0.5	204.0	600.0	mg/kg	1	0.0	Urban
M4	M4-0.5	0.0	0.5	190.0	406.0	mg/kg	2	0.0	Urban
CH-02	CH-DUP-2-0.5	0.0	0.5	118.0	181.0	mg/kg	1	0.0	Urban
M1	M1-0.5	0.0	0.5	111.0	197.0	mg/kg	2	0.0	Urban
M1	M1 (DTSC Split Sample)-0.5	0.0	0.5	102.0	167.0	mg/kg	2	0.0	Urban
CH-04	CH-04-1	0.0	1.0	81.1	369.0	mg/kg	1	0.0	Urban
P2	P2-0.5	0.0	0.5	79.4	101.0	mg/kg	3	0.0	Urban
M7	M7-0.5	0.0	0.5	51.0	175.0	mg/kg	2	0.0	Urban
M8	M8-0.5	0.0	0.5	49.9	118.0	mg/kg	2	0.0	Urban
P3	P3-0.5	0.0	0.5	19.3	41.2	mg/kg	3	0.0	Urban
M3	M3-0.5	0.0	0.5	15.0	128.0	mg/kg	2	0.0	Urban
CH-03 + CH-21	CH-DUP-3-0.5	0.0	0.5	14.9	112.0	mg/kg	1	0.0	Urban
M6	M6-0.5	0.0	0.5	13.7	111.0	mg/kg	2	0.0	Urban
M5	M5-0.5	0.0	0.5	13.4	122.0	mg/kg	2	0.0	Urban
CH-06	CH-DUP-6-0.5	0.0	0.5	13.4	137.0	mg/kg	1	0.0	Urban
P1	P1-0.5	0.0	0.5	10.0	25.1	mg/kg	3	0.0	Urban
CH-24	CH-24-0.5	0.0	0.5	4.5	25.2	mg/kg	1	0.0	Urban
CH-10	CH-10-1	0.5	1.0	2830.0	2570.0	mg/kg	1	0.0	Urban
P6	P6-1	0.5	1.0	179.0	228.0	mg/kg	3	0.0	Urban
Z-4	Z-4	0.5	0.5	141.0	382.0	mg/kg	4	0.0	Urban
P7	P7-1	0.5	1.0	122.0	310.0	mg/kg	3	0.0	Urban
CH-02	CH-02-1	0.5	1.0	95.8	79.7	mg/kg	1	0.0	Urban
P5	P5-1	0.5	1.0	91.4	231.0	mg/kg	3	0.0	Urban
Z-3	Z-3	0.5	0.5	54.4	237.0	mg/kg	4	0.0	Urban
P4	P4-1	0.5	1.0	50.6	80.3	mg/kg	3	0.0	Urban
Z-1	Z-1	0.5	0.5	32.0	161.0	mg/kg	4	0.0	Urban
P9	P9-1	0.5	1.0	21.2	38.4	mg/kg	3	0.0	Urban
Z-2	Z-2	0.5	0.5	18.4	294.0	mg/kg	4	0.0	Urban
Z-11	Z-11	0.5	0.5	15.1	530.0	mg/kg	4	0.0	Urban
Z-9	Z-9	0.5	0.5	12.8	152.0	mg/kg	4	0.0	Urban
Z-6	Z-6	0.5	0.5	11.3	135.0	mg/kg	4	0.0	Urban
CH-03 + CH-21	CH-03-1	0.5	1.0	10.5	17.0	mg/kg	1	0.0	Urban
Z-13	Z-13	0.5	0.5	7.8	226.0	mg/kg	4	0.0	Urban
CH-29	CH-29-1	0.5	1.0	4.5	5.0	mg/kg	1	0.0	Urban
CH-09	CH-09-1	0.5	1.0	3.6	5.2	mg/kg	1	0.0	Urban
CH-30	CH-30-1	0.5	1.0	3.0	5.0	mg/kg	1	0.0	Urban
P8	P8-1	0.5	1.0	3.0	14.2	mg/kg	3	0.0	Urban
CH-23	CH-23-1	0.5	1.0	3.0	5.5	mg/kg	1	0.0	Urban
CH-28	CH-28-1	0.5	1.0	2.3	3.6	mg/kg	1	0.0	Urban
CH-01	CH-01-1	0.5	1.0	1.6	2.1	mg/kg	1	0.0	Urban
234 Locust St	Overburden (1-2)	1.0	2.0	2.0	2.5	mg/kg	4	0.0	Urban
CH-03 + CH-21	CH-03-1.5	1.0	1.5	7020.0	985.0	mg/kg	1	0.0	Urban
M10	M10-1.5	1.0	1.5	412.0	1020.0	mg/kg	2	0.0	Urban
M9	M9-1.5	1.0	1.5	277.0	344.0	mg/kg	2	0.0	Urban
M8	M8-1.5	1.0	1.5	135.0	536.0	mg/kg	2	0.0	Urban
M7	M7-1.5	1.0	1.5	50.2	165.0	mg/kg	2	0.0	Urban
234 Locust St	3/4-Base (1-2)	1.0	2.0	3.8	4.8	mg/kg	4	0.0	Urban
CH-04	CH-04-1.5	1.0	1.5	3.8	197.0	mg/kg	1	0.0	Urban
Z-4	Z-4	1.5	1.5	2810.0	982.0	mg/kg	4	0.0	Urban

Urban Samples Only			
	Arsenic	Lead	No.
on-site + Areas 1,2,3	263	325	86
0-1000m	25	216	344
>1000m	7	52	40
>0-<100m	24	253	

**Average Concentrations in Shallow Soil (0-2ft)  
from Developed Areas of Watsonville**





CH-01	CH-01-2	1.5	2.0	471.0	849.0	mg/kg	1	0.0	Urban
Z-6	Z-6	1.5	1.5	157.0	752.0	mg/kg	4	0.0	Urban
CH-10	CH-10-2	1.5	2.0	101.0	8940.0	mg/kg	1	0.0	Urban
Z-3	Z-3	1.5	1.5	49.0	108.0	mg/kg	4	0.0	Urban
CH-09	CH-09-2	1.5	2.0	31.7	10.6	mg/kg	1	0.0	Urban
Z-13	Z-13	1.5	1.5	23.1	75.4	mg/kg	4	0.0	Urban
Z-11	Z-11	1.5	1.5	18.4	80.4	mg/kg	4	0.0	Urban
Z-1	Z-1	1.5	1.5	18.3	9.2	mg/kg	4	0.0	Urban
Z-2	Z-2	1.5	1.5	17.4	82.2	mg/kg	4	0.0	Urban
CH-02	CH-02-2	1.5	2.0	15.4	24.4	mg/kg	1	0.0	Urban
Z-9	Z-9	1.5	1.5	10.9	10.0	mg/kg	4	0.0	Urban
5 SDW	5 Sidewall No. 1-2	2.0	2.0	18.0	37.0	mg/kg	4	0.0	Urban
1 SDW 2	1 Sidewall No. 2	2.0	2.0	18.0	110.0	mg/kg	4	0.0	Urban
3 SDW	3 Sidewall No. 1-2	2.0	2.0	17.0	52.0	mg/kg	4	0.0	Urban
4 SDW	4 Sidewall No. 1-2	2.0	2.0	15.0	69.0	mg/kg	4	0.0	Urban
8 SDW 2	8 Sidewall No. 2-2	2.0	2.0	12.0	13.0	mg/kg	4	0.0	Urban
1 SDW 1	1 Sidewall No. 1	2.0	2.0	12.0	39.0	mg/kg	4	0.0	Urban
8 SDW 1	8 Sidewall No. 1-2	2.0	2.0	11.0	13.0	mg/kg	4	0.0	Urban
2 SDW	2 Sidewall No. 1-2	2.0	2.0	11.0	20.0	mg/kg	4	0.0	Urban
10 SDW	10 Sidewall No. 1	2.0	2.0	9.8	18.0	mg/kg	4	0.0	Urban
11	11-2	2.0	2.0	8.4	130.0	mg/kg	4	0.0	Urban
9	9-2	2.0	2.0	8.4	150.0	mg/kg	4	0.0	Urban
8	8-2	2.0	2.0	7.5	130.0	mg/kg	4	0.0	Urban
3	3-2	2.0	2.0	6.5	57.0	mg/kg	4	0.0	Urban
10	10-2	2.0	2.0	6.4	56.0	mg/kg	4	0.0	Urban
1	1-2	2.0	2.0	5.5	8.6	mg/kg	4	0.0	Urban
5	5-2	2.0	2.0	4.9	140.0	mg/kg	4	0.0	Urban
2	2-2	2.0	2.0	4.6	42.0	mg/kg	4	0.0	Urban
9 SDW	9 Sidewall No. 1-2	2.0	2.0	4.5	8.7	mg/kg	4	0.0	Urban
12	12-2	2.0	2.0	4.4	140.0	mg/kg	4	0.0	Urban
B-2	B-2-0.5	0.5	0.5	21.0	90.0	mg/kg	N	0.7	Urban
B-2	B-2-1.5	1.5	1.5	8.5	23.0	mg/kg	N	0.7	Urban
B-3	B-3-0.5	0.5	0.5	1.0	39.0	mg/kg	N	0.8	Urban
B-3	B-3-1.5	1.5	1.5	27.0	170.0	mg/kg	N	0.8	Urban
CH-35	CH-35-1	0.5	1.0	22.4	106.0	mg/kg	N	1.1	Urban
WB-4	WB-4-0.5	0.0	0.5	58.0	370.0	mg/kg	N	1.5	Urban
S3	S3	0.5	1.0	127.0	1290.0	mg/kg	N	1.7	Urban
CH-08	CH-08-1	0.5	1.0	2.7	6.7	mg/kg	N	1.7	Urban
CH-34	CH-34-1	0.5	1.0	59.0	720.0	mg/kg	N	1.7	Urban
S2	S2	0.5	1.0	104.0	878.0	mg/kg	N	1.8	Urban
S1	S1	0.5	1.0	188.0	1740.0	mg/kg	N	1.8	Urban
CH-36	CH-36-1	0.5	1.0	11.0	18.6	mg/kg	N	2.1	Urban
WB-3	WB-3-0.5	0.0	0.5	130.0	950.0	mg/kg	N	2.1	Urban
B-5	B-5-0.5	0.5	0.5	8.3	350.0	mg/kg	N	2.7	Urban
B-5	B-5-1.5	1.5	1.5	4.0	23.0	mg/kg	N	2.7	Urban
CH-33	CH-33-1	0.5	1.0	8.0	22.2	mg/kg	N	4.7	Urban
CH-32	CH-32-1	0.5	1.0	8.2	27.4	mg/kg	N	6.3	Urban
B-1	B-1-0.5	0.5	0.5	59.0	360.0	mg/kg	N	7.8	Urban
B-1	B-1-1	1.0	1.0	19.0	18.0	mg/kg	N	7.8	Urban
Y8b	Y8-B2	0.2	0.2	7.0	170.0	mg/kg	N	14.4	Urban
WB-5	WB-5-0.5	0.0	0.5	3.5	80.0	mg/kg	N	15.1	Urban
209 Second St	209 Second B-1 -0.5	0.5	0.5	9.5	230.0	mg/kg	N	16.6	Urban
209 Second St	209 Second B-2-0.5	0.5	0.5	7.3	200.0	mg/kg	N	16.6	Urban
209 Second St	209 Second B-1-1.5	1.5	1.5	12.0	250.0	mg/kg	N	16.6	Urban
209 Second St	209 Second B -2-1.5	1.5	1.5	4.7	12.0	mg/kg	N	16.6	Urban
Riverside Median	Riverside Median 1-0.5	0.5	0.5	32.1	36.0	mg/kg	N	16.9	Urban
B-4	B-4-0.5	0.5	0.5	10.0	200.0	mg/kg	N	17.5	Urban



B-4	B-4-1.5	1.5	1.5	6.7	250.0	mg/kg	N	17.5	Urban
244 Locust St	244 locust B-1-0.5	0.5	0.5	6.6	430.0	mg/kg	N	32.2	Urban
244 Locust St	244 locust B-2-0.5	0.5	0.5	4.4	170.0	mg/kg	N	32.2	Urban
244 Locust St	244 locust t B-1-1.5	1.5	1.5	3.3	9.6	mg/kg	N	32.2	Urban
WB-2	WB-2-0.5	0.0	0.5	ND	ND	mg/kg	N	32.3	Urban
WB-1	WB-1-0.5	0.0	0.5	3.7	4.9	mg/kg	N	32.8	Urban
E-28	E-28-0.5	0.0	0.5	4.0	260.0	mg/kg	N	35.3	Urban
Y7b	Y7-B2	0.2	0.2	5.7	86.0	mg/kg	N	36.2	Urban
B1-1	B1-1	0.5	1.0	13.7	91.4	mg/kg	N	49.0	Urban
B1-2	B1-2	0.5	1.0	18.7	107.0	mg/kg	N	49.9	Urban
E-36	E-36_0.5	0.0	0.5	5.6	100.0	mg/kg	N	55.4	Urban
E-36	E-36-0.5_1	0.5	1.0	6.4	120.0	mg/kg	N	55.4	Urban
B1-3	B1-3	0.5	1.0	12.0	96.0	mg/kg	N	59.9	Urban
241 First St	241 First B-2-0.5	0.5	0.5	15.0	470.0	mg/kg	N	63.3	Urban
241 First St	241 First B-1-0.5	0.5	0.5	5.7	56.0	mg/kg	N	63.3	Urban
E-29	E-29-0.5	0.0	0.5	3.2	37.0	mg/kg	N	66.5	Urban
Z40	Z40a	0.2	0.2	13.0	390.0	mg/kg	N	66.9	Urban
B2-2	B2-2	0.5	1.0	20.1	34.7	mg/kg	N	67.6	Urban
Z13	Z13e	0.2	0.2	16.0	350.0	mg/kg	N	69.7	Urban
Z33	Z33b	0.2	0.2	9.4	200.0	mg/kg	N	89.8	Urban
E-16	E-16-B-0.5	0.0	0.5	6.4	130.0	mg/kg	N	107.4	Urban
E-16	E-16-0.5	0.0	0.5	3.4	66.0	mg/kg	N	107.4	Urban
Z28	Z28a	0.2	0.2	3.9	150.0	mg/kg	N	109.5	Urban
B2-1	B2-1	0.5	1.0	10.5	20.6	mg/kg	N	127.9	Urban
E-21	E-21-0.5	0.0	0.5	7.8	150.0	mg/kg	N	133.3	Urban
E-30	E-30-0.5	0.0	0.5	3.3	6.7	mg/kg	N	143.7	Urban
Y12e	Y12e	0.2	0.2	5.9	650.0	mg/kg	N	147.6	Urban
Z34	Z34f	0.2	0.2	34.0	800.0	mg/kg	N	165.2	Urban
B2-3	B2-3	0.5	1.0	5.2	38.8	mg/kg	N	167.3	Urban
WB-7	WB-7-0.5	0.0	0.3	3.0	190.0	mg/kg	N	173.7	Urban
BG-16	BG-16	0.0	0.5	5.3	9.9	mg/kg	BG	192.2	Urban
Z15	Z15c	0.2	0.2	3.9	390.0	mg/kg	N	202.7	Urban
Y6c	Y6-C2	0.2	0.2	6.2	170.0	mg/kg	N	204.7	Urban
E-27	E-27-0.5	0.0	0.5	3.1	12.0	mg/kg	N	213.3	Urban
E-35	E-35_0.5	0.0	0.5	8.9	78.0	mg/kg	N	223.4	Urban
E-35	E-35-0.5_1	0.5	1.0	8.5	50.0	mg/kg	N	223.4	Urban
1B	1B-0.5	0.0	0.5	7.5	9.0	mg/kg	N	229.0	Urban
Z37	Z37b	0.2	0.2	7.6	670.0	mg/kg	N	232.6	Urban
Y1c	Y1-C6	0.5	0.5	5.1	130.0	mg/kg	N	240.5	Urban
Y4c	Y4-C4	0.3	0.3	8.6	850.0	mg/kg	N	243.0	Urban
Y1b	Y1-B8	0.7	0.7	18.0	750.0	mg/kg	N	251.4	Urban
Y4b	Y4-B2	0.2	0.2	2.9	100.0	mg/kg	N	253.6	Urban
11 Walker Street	GP-4-0.5	0.5	0.5	214.0	30.5	mg/kg	N	259.6	Urban
11 Walker Street	GHA-1-0.5	0.5	0.5	132.0	31.5	mg/kg	N	259.6	Urban
11 Walker Street	GP-20-0.5	0.5	0.5	12.7	244.0	mg/kg	N	259.6	Urban
11 Walker Street	GP-6-0.5	0.5	0.5	7.9	10.3	mg/kg	N	259.6	Urban
11 Walker Street	GHA-3-0.5	0.5	0.5	4.1	0.3	mg/kg	N	259.6	Urban
11 Walker Street	MW-1-S-0.5	0.5	0.5	0.4	1.6	mg/kg	N	259.6	Urban
11 Walker Street	SC-CA2-1	1.0	1.0	110.0		mg/kg	N	259.6	Urban
11 Walker Street	SC-CA4-1	1.0	1.0	79.0		mg/kg	N	259.6	Urban
11 Walker Street	SC-CA3-1	1.0	1.0	47.6		mg/kg	N	259.6	Urban
11 Walker Street	SC-CA1-1	1.0	1.0	10.3		mg/kg	N	259.6	Urban
11 Walker Street	GP-15-1.0	1.0	1.0	10.2	33.0	mg/kg	N	259.6	Urban
11 Walker Street	GP-5-1	1.0	1.0	8.5	16.8	mg/kg	N	259.6	Urban
11 Walker Street	HA-1SC-1	1.0	1.0	7.0	6.7	mg/kg	N	259.6	Urban
11 Walker Street	HA-8-1	1.0	1.0	6.4		mg/kg	N	259.6	Urban
11 Walker Street	DP-9-1.5	1.5	1.5	341.0	36.0	mg/kg	N	259.6	Urban



11 Walker Street	DP-12-1.5	1.5	1.5	253.0	21.7	mg/kg	N	259.6	Urban
11 Walker Street	DP-7-1.5	1.5	1.5	168.0	27.3	mg/kg	N	259.6	Urban
11 Walker Street	DP-13-1.5	1.5	1.5	55.0	7.8	mg/kg	N	259.6	Urban
11 Walker Street	GP-2-1.5	1.5	1.5	16.0	12.7	mg/kg	N	259.6	Urban
11 Walker Street	GP-15-1.5	1.5	1.5	8.4	46.9	mg/kg	N	259.6	Urban
11 Walker Street	GP-1-1.5	1.5	1.5	7.5	30.2	mg/kg	N	259.6	Urban
11 Walker Street	DP-8-1.5	1.5	1.5	5.4	6.1	mg/kg	N	259.6	Urban
11 Walker Street	DP-11-1.5	1.5	1.5	5.4	4.6	mg/kg	N	259.6	Urban
11 Walker Street	DP-3-1.5	1.5	1.5	4.4	40.4	mg/kg	N	259.6	Urban
11 Walker Street	HA-12-1.5	1.5	1.5	2.4		mg/kg	N	259.6	Urban
11 Walker Street	GHA-3-2.0	2.0	2.0	11.3	101.0	mg/kg	N	259.6	Urban
11 Walker Street	HA-13-S-2.0	2.0	2.0	5.8		mg/kg	N	259.6	Urban
SC-CA2	SC-CA2-1	1.0	1.0	110.0	NA	mg/kg	N	261.1	Urban
SC-CA4	SC-CA4-1	1.0	1.0	79.0	NA	mg/kg	N	262.2	Urban
P-4	P-4	0.0	0.5	21.0	120.0	mg/kg	N	266.5	Urban
GHA-1	GHA-1	0.5	0.5	132.0	39.3	mg/kg	N	267.3	Urban
A1-1	A1-1	0.5	1.0	5.2	18.1	mg/kg	N	267.6	Urban
SC-CA1	SC-CA1-1	1.0	1.0	10.3	NA	mg/kg	N	267.7	Urban
DP-8	DP-8-1.5	1.5	1.5	5.4	6.1	mg/kg	N	270.0	Urban
P-B2A	P-B2A	2.0	2.0	0.3	80.0	mg/kg	N	271.4	Urban
P-B2	P-B2Va	0.0	0.0	0.3	170.0	mg/kg	N	273.1	Urban
P-B2	P-B2-1.5	1.0	1.5	190.0	0.1	mg/kg	N	273.1	Urban
P-B2	P-B2	1.0	1.0	190.0	25.0	mg/kg	N	273.1	Urban
SC-CA3	SC-CA3-1	1.0	1.0	47.6	NA	mg/kg	N	273.2	Urban
DP-7	DP-7-1.5	1.5	1.5	168.0	27.3	mg/kg	N	273.6	Urban
P-B1	P-B1	1.0	1.0	36.0	25.0	mg/kg	N	274.6	Urban
P-B1	P-B1-1.5	1.0	1.5	36.0	ND	mg/kg	N	274.6	Urban
11B	11B-0.5	0.0	0.5	9.3		mg/kg	N	275.1	Urban
11B	11B-1.5	1.0	1.5	7.8		mg/kg	N	275.1	Urban
GP-1	GP-1	1.5	1.5	7.5	46.2	mg/kg	N	275.2	Urban
GP-2	GP-2	1.5	1.5	16.0	12.7	mg/kg	N	275.8	Urban
GHA-3	GHA-3	0.5	0.5	4.1	55.3	mg/kg	N	278.1	Urban
GHA-3	GHA-3	2.0	2.0	11.3	38.3	mg/kg	N	278.1	Urban
SC-CA5	SC-CA5-1	1.0	1.0	0.8	NA	mg/kg	N	281.1	Urban
HA-13-S	HA-13-S-2.0	2.0	2.0	5.8	NA	mg/kg	N	281.5	Urban
MW1-S	MW1-S-5	0.5	0.5	0.8	1.6	mg/kg	N	282.2	Urban
P-B3-MW	P-B3-MW	1.0	1.0	18.0	25.0	mg/kg	N	282.8	Urban
P-B3-MW	P-B3-MW-1.5	1.0	1.5	18.0	ND	mg/kg	N	282.8	Urban
GP-4	GP-4	0.5	0.5	214.0	55.0	mg/kg	N	283.6	Urban
GP-5	GP-5	1.0	1.0	8.5	3.1	mg/kg	N	284.2	Urban
P-5	P-5	0.0	0.5	37.0	99.0	mg/kg	N	285.2	Urban
Z35	Z35c	0.2	0.2	7.3	260.0	mg/kg	N	286.0	Urban
Z23	Z23c	0.2	0.2	12.0	280.0	mg/kg	N	286.9	Urban
P-6	P-6	0.0	0.5	70.0	250.0	mg/kg	N	288.8	Urban
GP-6	GP-6	0.5	0.5	7.9	38.4	mg/kg	N	288.9	Urban
Y2c	Y2-C2	0.2	0.2	4.1	270.0	mg/kg	N	289.2	Urban
P-B5A	P-B5A	1.8	1.8	30.0	7.0	mg/kg	N	289.5	Urban
E-10	E-10-0.5	0.0	0.5	5.2	47.0	mg/kg	N	290.5	Urban
HA-12	HA-12-1.5	1.5	1.5	2.4	NA	mg/kg	N	292.5	Urban
E-32	E-32_0.5	0.0	0.5	9.6	120.0	mg/kg	N	296.0	Urban
E-32	E-32-0.5_1	0.5	1.0	11.0	110.0	mg/kg	N	296.0	Urban
P-B6	P-B6	1.0	1.0	50.0	18.0	mg/kg	N	296.1	Urban
P-B6	P-B6-1.5	1.0	1.5	11.0	ND	mg/kg	N	296.1	Urban
Z14	Z14b	0.2	0.2	4.5	670.0	mg/kg	N	296.4	Urban
Y2d	Y2-D2	0.2	0.2	7.1	730.0	mg/kg	N	298.3	Urban
GP-11	GP-11	2.0	2.0	NA	NA	mg/kg	N	299.4	Urban
P-B8-MW	P-B8-MW	1.0	1.0	50.0	38.0	mg/kg	N	305.9	Urban



P-B8-MW	P-B8-MW-1.5	1.0	1.5	14.0	ND	mg/kg	N	305.9	Urban
DP-9	DP-09-1.5	1.5	1.5	341.0	36.0	mg/kg	N	306.5	Urban
DP-12	DP-12-1.5	1.5	1.5	253.0	21.7	mg/kg	N	307.7	Urban
P-B9A	P-B9A-2.5	1.4	2.5	ND	ND	mg/kg	N	307.8	Urban
P-B9A	P-B9A	1.4	1.4	10.0	21.0	mg/kg	N	307.8	Urban
DP-13	DP-13-1.5	1.5	1.5	55.0	7.8	mg/kg	N	310.0	Urban
A1-2	A1-2	0.5	1.0	5.2	17.3	mg/kg	N	310.9	Urban
GP-15	GP-15	1.0	1.0	10.2	43.7	mg/kg	N	314.5	Urban
GP-15	GP-15	1.5	1.5	8.4	46.9	mg/kg	N	314.5	Urban
P-3	P-3	0.0	0.5	49.0	94.0	mg/kg	N	315.5	Urban
Y5e	Y5-E2	0.2	0.2	4.7	340.0	mg/kg	N	315.6	Urban
HA-4	HA-4-0.5	0.5	0.5	9.9	NA	mg/kg	N	316.1	Urban
P-B11A	P-B11A-2.2	0.9	2.2	ND	20.0	mg/kg	N	317.8	Urban
P-B11A	P-B11A	0.9	0.9	70.0	25.0	mg/kg	N	317.8	Urban
P-B10	P-B10	1.0	1.0	550.0	47.0	mg/kg	N	318.7	Urban
P-B10	P-B10-1.5	1.0	1.5	9.6	ND	mg/kg	N	318.7	Urban
P-2	P-2	0.0	0.5	13.0	69.0	mg/kg	N	322.3	Urban
Y5d	Y5-D2	0.2	0.2	5.8	250.0	mg/kg	N	322.5	Urban
A1-3	A1-3	0.5	1.0	5.3	14.2	mg/kg	N	324.9	Urban
HA-1SC	HA-1SC-1	1.0	1.0	7.0	6.7	mg/kg	N	327.5	Urban
DP-3	DP-3-1.5	1.5	1.5	4.4	40.4	mg/kg	N	330.1	Urban
GP-20	GP-20	0.5	0.5	12.7	29.6	mg/kg	N	331.6	Urban
P-1	P-1	0.0	0.5	53.0	69.0	mg/kg	N	332.3	Urban
HA-5	HA-5-0.5	0.5	0.5	55.0	NA	mg/kg	N	337.9	Urban
DP-11	DP-11-1.5	1.5	1.5	5.4	4.6	mg/kg	N	341.1	Urban
Z38	Z38c	0.2	0.2	5.4	420.0	mg/kg	N	341.4	Urban
E-24	E-24-0.5	0.0	0.5	12.0	43.0	mg/kg	N	345.5	Urban
E-11	E-11-0.5	0.0	0.5	3.4	42.0	mg/kg	N	345.6	Urban
HA-6	HA-6-0.5	0.5	0.5	40.0	NA	mg/kg	N	351.8	Urban
E-25	E-25-0.5	0.0	0.5	13.0	15.0	mg/kg	N	354.6	Urban
HA-9	HA-9	0.0	0.5	NA	NA	mg/kg	N	355.4	Urban
HA-9	HA-9	1.0	1.5	NA		mg/kg	N	355.4	Urban
HA-9	HA9	1.0	1.5		NA	mg/kg	N	355.4	Urban
HA-8	HA-8-1	1.0	1.0	6.4	NA	mg/kg	N	356.3	Urban
Z17	Z17c	0.2	0.2	10.0	370.0	mg/kg	N	357.2	Urban
E-26	E-26-0.5	0.0	0.5	3.7	5.0	mg/kg	N	361.0	Urban
BG-13	BG-13	0.0	0.5	126.0	13.6	mg/kg	BG	389.0	Urban
2B	2B-0.5	0.0	0.5	11.5	110.0	mg/kg	N	405.4	Urban
Y3h	Y3-H4	0.3	0.3	5.7	570.0	mg/kg	N	420.2	Urban
E-34	E-34_0.5	0.0	0.5	3.7	130.0	mg/kg	N	434.5	Urban
E-34	E-34-0.5_1	0.5	1.0	4.3	160.0	mg/kg	N	434.5	Urban
Z25	Z25a	0.2	0.2	7.2	1400.0	mg/kg	N	441.0	Urban
Y3g	Y3-G2	0.2	0.2	5.5	370.0	mg/kg	N	447.2	Urban
E-4	E-4-0.5	0.0	0.5	3.8	3.8	mg/kg	N	450.8	Urban
Y11b	Y11-B2	0.2	0.2	3.1	410.0	mg/kg	N	478.6	Urban
Y10b	Y10-B4	0.3	0.3	5.1	140.0	mg/kg	N	483.4	Urban
E-33	E-33_0.5	0.0	0.5	7.7	37.0	mg/kg	N	505.9	Urban
E-33	E-33-0.5_1	0.5	1.0	7.9	31.0	mg/kg	N	505.9	Urban
S8-P24	40 West Lake Avenue	0.0	0.5	5.6	630.0	mg/kg	N	514.8	Urban
S4-P24	40 West Lake Avenue	0.0	0.5	3.8	24.0	mg/kg	N	514.8	Urban
S3-P24	40 West Lake Avenue	0.0	0.5	3.7	240.0	mg/kg	N	514.8	Urban
S5-P24	40 West Lake Avenue	0.0	0.5	2.6	13.0	mg/kg	N	514.8	Urban
S6-P24	40 West Lake Avenue	0.0	0.5	2.5	43.0	mg/kg	N	514.8	Urban
3B	3B-0.5	0.0	0.5	5.6	477.0	mg/kg	N	520.0	Urban
E-37	E-37_0.5	0.0	0.5	4.6	97.0	mg/kg	N	526.4	Urban
E-37	E-37-0.5_1	0.5	1.0	5.1	100.0	mg/kg	N	526.4	Urban
E-23	E-23-0.5	0.0	0.5	5.6	110.0	mg/kg	N	530.8	Urban



D1-1	D1-1	0.5	1.0	13.4	1180.0	mg/kg	N	541.6	Urban
D1-2	D1-2	0.5	1.0	15.6	1840.0	mg/kg	N	543.4	Urban
Z26	Z26c	0.2	0.2	3.6	720.0	mg/kg	N	554.1	Urban
D1-3	D1-3	0.5	1.0	22.0	958.0	mg/kg	N	555.3	Urban
S4-P27	524 Rodriguez Street	0.0	0.5	NA	16.0	mg/kg	N	558.0	Urban
S6-P27	524 Rodriguez Street	0.0	0.5	NA	360.0	mg/kg	N	558.0	Urban
S5-P27	524 Rodriguez Street	0.0	0.5	NA	400.0	mg/kg	N	558.0	Urban
E-5	E-5-B-0.5	0.0	0.5	8.3	480.0	mg/kg	N	560.3	Urban
E-5	E-5-C-0.5	0.0	0.5	8.2	740.0	mg/kg	N	560.3	Urban
E-5	E-5-0.5	0.0	0.5	6.8	460.0	mg/kg	N	560.3	Urban
West Lake & Rodriguez	S5a-P25	0.0	1.0		14.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S7a-P24	0.0	0.5		26.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S4a-P23	0.0	0.5		31.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S3a-P31	0.0	0.5		48.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S4a-P26	0.0	0.5		50.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S2a-P27	0.0	0.5		93.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S3a-P26	0.0	0.5		100.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S4a-P30	0.0	0.5		210.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S5a-P30	0.0	0.5		220.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S4a-P31	0.0	0.5		230.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S6a-P30	0.0	0.5		250.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S5a-P26	0.0	0.5		270.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S3a-P23	0.0	0.5		280.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S2a-P23	0.0	0.5		300.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S3a-P27	0.0	0.5		360.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S2a-P28	0.0	0.5		400.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S4a-P25	0.0	0.5		400.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S2a-P23 split (S5a-P23)	0.0	0.5		440.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S2a-P25	0.0	1.0		460.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S3a-P25	0.0	0.5		670.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S2a-P31	0.0	0.5		690.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S3a-P30	0.0	0.5		710.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S7a-P30	0.0	0.5		1400.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S1-P31	0.5	1.0		42.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S1-P28	0.5	1.0		85.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-SESW-P26a-2	0.5	0.5		140.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-SWSW1-P26b	0.5	0.5		140.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-SWSW2-P26b	0.5	0.5		220.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S1-P25	0.5	1.0		250.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-SESW-P24	0.5	0.5		250.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-SWSW2-P26a	0.5	0.5		250.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S1-P23	0.5	1.0		290.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-NESW2-P24	0.5	0.5		320.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-SWSW1-P26a	0.5	0.5		320.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S1-P27	0.5	1.0		340.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-NESW1-P24	0.5	0.5		380.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-SESW-P26b	0.5	0.5		440.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-NWSW-P26a	0.5	0.5		520.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-NWSW-P24	0.5	0.5		570.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-NWSW-P26b	0.5	0.5		570.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S1-P30	0.5	1.0		700.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S1-P24	0.5	1.0		800.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S1-P26	0.5	1.0		1200.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-SESW-P26a	0.5	0.5		2000.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-SWSW-P30	0.8	1.3		100.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-SESW-P30	0.8	1.3		200.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-F2-P26a	1.0	1.5		9.9	mg/kg	N	586.6	Urban



West Lake & Rodriguez	VS-F1-P24	1.0	1.5		12.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-F2-P26b	1.0	1.5		12.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S3b-P25	1.0	1.5		14.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S2b-P25	1.0	1.5		19.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-F2-P24	1.0	1.5		25.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-F1-26b	1.0	1.5		27.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S2b-P31	1.0	1.5		28.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S3b-P30	1.0	1.5		37.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S7b-P-30	1.0	1.5		46.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-F1-P26a	1.0	1.5		78.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S2b-P23	1.0	1.5		100.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	VS-NWSW-P30	1.3	1.8		380.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S2-P26	1.5	2.0		31.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S2-P24	1.5	2.0		34.0	mg/kg	N	586.6	Urban
West Lake & Rodriguez	S2-P30	1.5	2.0		780.0	mg/kg	N	586.6	Urban
C1-1	C1-1	0.5	1.0	3.2	45.5	mg/kg	N	587.3	Urban
E-41	E-41_0.5	0.0	0.5	6.4	300.0	mg/kg	N	593.4	Urban
E-41	E-41-0.5_1	0.5	1.0	5.2	95.0	mg/kg	N	593.4	Urban
Z30	Z30b	0.2	0.2	9.5	170.0	mg/kg	N	597.9	Urban
Y9c	Y9-C6	0.5	0.5	8.7	310.0	mg/kg	N	605.6	Urban
E-14	E-14-0.5	0.0	0.5	3.7	100.0	mg/kg	N	606.0	Urban
E-40	E-40_0.5	0.0	0.5	5.4	76.0	mg/kg	N	628.6	Urban
E-40	E-40-0.5_1	0.5	1.0	9.1	73.0	mg/kg	N	628.6	Urban
BG-12	BG-12	0.0	0.5	5.0	30.8	mg/kg	BG	644.2	Urban
C1-2	C1-2	0.5	1.0	2.1	34.6	mg/kg	N	645.6	Urban
C1-3	C1-3	0.5	1.0	2.2	35.9	mg/kg	N	650.2	Urban
E-17	E-17-B-0.5	0.0	0.5	5.5	480.0	mg/kg	N	675.6	Urban
E-17	E-17-0.5	0.0	0.5	4.1	200.0	mg/kg	N	675.6	Urban
5B	5B-0.5	0.0	0.5	8.1		mg/kg	N	748.1	Urban
5B	5B-1.5	1.0	1.5	11.5		mg/kg	N	748.1	Urban
E-3	E-3-0.5	0.0	0.5	9.9	16.0	mg/kg	N	761.3	Urban
Z22	Z22c	0.2	0.2	10.0	1700.0	mg/kg	N	771.8	Urban
8B	8B-0.5	0.0	0.5	7.5		mg/kg	N	780.2	Urban
8B	8B-1.5	1.0	1.5	6.7		mg/kg	N	780.2	Urban
DSS-WAT1-9	DSS-WAT1-9-0.5	0.0	0.5	1.5	142.0	mg/kg	N	788.4	Urban
D2-3	D2-3	0.5	1.0	4.0	120.0	mg/kg	N	792.8	Urban
D2-2	D2-2	0.5	1.0	5.6	134.0	mg/kg	N	797.8	Urban
D2-1	D2-1	0.5	1.0	3.0	60.6	mg/kg	N	805.0	Urban
DSS-WAT1-4	DSS-WAT1-4-0.5	0.0	0.5	2.2	26.4	mg/kg	N	810.3	Urban
E-31	E-31_0.5	0.0	0.5	7.8	80.0	mg/kg	N	824.5	Urban
E-31	E-31-0.5_1	0.5	1.0	10.0	61.0	mg/kg	N	824.5	Urban
618 Main Street	DSS-WAT1-3-0	0.0	0.0	10.3		mg/kg	N	825.7	Urban
618 Main Street	DSS-WAT1-2-0	0.0	0.0	8.8		mg/kg	N	825.7	Urban
618 Main Street	DSS-WAT1-5-0	0.0	0.0	4.6		mg/kg	N	825.7	Urban
618 Main Street	DSS-WAT1-4-0	0.0	0.0	2.2		mg/kg	N	825.7	Urban
618 Main Street	DSS-WAT1-1-0	0.0	0.0	0.8		mg/kg	N	825.7	Urban
618 Main Street	SS-WAT1-2-1	1.0	1.0	10.0		mg/kg	N	825.7	Urban
618 Main Street	SS-WAT1-9-1	1.0	1.0	8.0		mg/kg	N	825.7	Urban
618 Main Street	SS-WAT1-3-1	1.0	1.0	7.2		mg/kg	N	825.7	Urban
618 Main Street	SS-WAT1-7-1	1.0	1.0	4.6		mg/kg	N	825.7	Urban
618 Main Street	SS-WAT1-5-1	1.0	1.0	4.5		mg/kg	N	825.7	Urban
618 Main Street	SS-WAT1-4-1	1.0	1.0	4.1		mg/kg	N	825.7	Urban
618 Main Street	SS-WAT1-8-1	1.0	1.0	3.0		mg/kg	N	825.7	Urban
618 Main Street	SS_WAT1-1-1	1.0	1.0	2.7		mg/kg	N	825.7	Urban
618 Main Street	SS-WAT1-6-1	1.0	1.0	2.7		mg/kg	N	825.7	Urban
DSS-WAT1-2	DSS-WAT1-2-0.5	0.0	0.5	8.8	83.3	mg/kg	N	828.2	Urban
DSS-WAT1-5	DSS-WAT1-5-0.5	0.0	0.5	4.6	44.9	mg/kg	N	832.8	Urban



SS-WAT1-2	SS-WAT1-2	1.0	1.0	10.0	NA	mg/kg	N	835.2	Urban
SS-WAT1-9	SS-WAT1-9	1.0	1.0	8.0	NA	mg/kg	N	835.2	Urban
SS-WAT1-3	SS-WAT1-3	1.0	1.0	7.2	NA	mg/kg	N	835.2	Urban
SS-WAT1-7	SS-WAT1-7	1.0	1.0	4.6	NA	mg/kg	N	835.2	Urban
SS-WAT1-5	SS-WAT1-5	1.0	1.0	4.5	NA	mg/kg	N	835.2	Urban
SS-WAT1-4	SS-WAT1-4	1.0	1.0	4.1	NA	mg/kg	N	835.2	Urban
SS-WAT1-8	SS-WAT1-8	1.0	1.0	3.0	NA	mg/kg	N	835.2	Urban
SS-WAT1-1	SS-WAT1-1	1.0	1.0	2.7	NA	mg/kg	N	835.2	Urban
SS-WAT1-6	SS-WAT1-6	1.0	1.0	2.7	NA	mg/kg	N	835.2	Urban
E-12	E-12-0.5	0.0	0.5	4.8	48.0	mg/kg	N	838.3	Urban
DSS-WAT1-6	DSS-WAT1-6-0.5	0.0	0.5	2.0	75.2	mg/kg	N	844.7	Urban
DSS-WAT1-8	DSS-WAT1-8-0.5	0.0	0.5	27.0	192.0	mg/kg	N	848.2	Urban
DSS-WAT1-1	DSS-WAT1-1-0.5	0.0	0.5	0.8	ND	mg/kg	N	850.4	Urban
DSS-WAT1-3	DSS-WAT1-3-0.5	0.0	0.5	10.3	106.0	mg/kg	N	855.8	Urban
E-6	E-6-0.5	0.0	0.5	5.7	78.0	mg/kg	N	857.3	Urban
DSS-WAT1-7	DSS-WAT1-7-0.5	0.0	0.5	1.5	73.7	mg/kg	N	857.5	Urban
E-8	E-8-0.5	0.0	0.5	6.6	180.0	mg/kg	N	867.9	Urban
DSS-WAT1-10	DSS-WAT1-10-0.5	0.0	0.5	1.3	32.4	mg/kg	N	868.5	Urban
E-13	E-13-0.5	0.0	0.5	5.6	60.0	mg/kg	N	872.5	Urban
7B	7B-0.5	0.0	0.5	7.5		mg/kg	N	876.7	Urban
7B	7B-1.5	1.0	1.5	12.5		mg/kg	N	876.7	Urban
E-15	E-15-C-EB-0.5	0.0	0.5		ND	mg/kg	N	884.5	Urban
E-15	E-15-0.5	0.0	0.5	20.0	68.0	mg/kg	N	884.5	Urban
E-15	E-15-B-0.5	0.0	0.5	5.8	69.0	mg/kg	N	884.5	Urban
E-15	E-15-C-FD-0.5	0.0	0.5	3.5	4.7	mg/kg	N	884.5	Urban
E-15	E-15-C-0.5	0.0	0.5	2.1	3.5	mg/kg	N	884.5	Urban
E-9	E-9-C-0.5	0.0	0.5	3.0	41.0	mg/kg	N	891.4	Urban
E-9	E-9-0.5	0.0	0.5	2.6	32.0	mg/kg	N	891.4	Urban
E-9	E-9-B-0.5	0.0	0.5	2.6	34.0	mg/kg	N	891.4	Urban
E-38	E-38_0.5	0.0	0.5	4.3	110.0	mg/kg	N	905.4	Urban
E-38	E-38-0.5_1	0.5	1.0	3.8	62.0	mg/kg	N	905.4	Urban
BG-14	BG-14	0.0	0.5	6.5	10.7	mg/kg	BG	920.5	Urban
BG-9	BG-9	0.0	0.5	10.5	109.0	mg/kg	BG	1006.9	Urban
9B	9B-0.5	0.0	0.5	3.1		mg/kg	N	1018.1	Urban
9B	9B-1.5	1.0	1.5	3.2		mg/kg	N	1018.1	Urban
BG-11	BG-11	0.0	0.5	2.2	48.9	mg/kg	BG	1024.9	Urban
BG-5	BG-5	0.0	0.5	5.2	26.4	mg/kg	BG	1026.8	Urban
BG-6	BG-6	0.0	0.5	8.4	66.1	mg/kg	BG	1082.9	Urban
E-39	E-39_0.5	0.0	0.5	6.0	180.0	mg/kg	N	1124.8	Urban
E-39	E-39-0.5_1	0.5	1.0	6.3	32.0	mg/kg	N	1124.8	Urban
BG-10	BG-10	0.0	0.5	10.3	89.9	mg/kg	BG	1134.5	Urban
BG-4	BG-4	0.0	0.5	2.2	416.0	mg/kg	BG	1157.0	Urban
E-1	E-1-0.5	0.0	0.5	3.3	6.7	mg/kg	N	1187.8	Urban
E-2	E-2-0.5	0.0	0.5	2.3	22.0	mg/kg	N	1198.2	Urban
E-7	E-7-C-0.5	0.0	0.5	7.0	36.0	mg/kg	N	1279.9	Urban
E-7	E-7-0.5	0.0	0.5	6.1	41.0	mg/kg	N	1279.9	Urban
E-7	E-7-B-0.5	0.0	0.5	4.5	39.0	mg/kg	N	1279.9	Urban
10B	10B-0.5	0.0	0.5	18.9		mg/kg	N	1390.1	Urban
10B	10B-1.5	1.0	1.5	11.9		mg/kg	N	1390.1	Urban
C2-2	C2-2	0.5	1.0	5.1	40.8	mg/kg	N	1475.8	Urban
C2-3	C2-3	0.5	1.0	6.9	22.4	mg/kg	N	1475.8	Urban
C2-1	C2-1	0.5	1.0	7.1	24.3	mg/kg	N	1486.8	Urban
BG-8	BG-8	0.0	0.5	32.7	71.6	mg/kg	BG	1702.6	Urban
E-19	E-19-0.5	0.0	0.5	11.0	66.0	mg/kg	N	1755.1	Urban
E-20	E-20-0.5	0.0	0.5	5.2	8.7	mg/kg	N	1867.3	Urban
E-18	E-18-0.5	0.0	0.5	4.4	110.0	mg/kg	N	1873.9	Urban
D3-3	D3-3	0.5	1.0	3.1	10.6	mg/kg	N	1957.4	Urban



D3-1	D3-1	0.5	1.0	5.2	19.2	mg/kg	N	1958.3	Urban
D3-2	D3-2	0.5	1.0	6.7	20.7	mg/kg	N	1967.8	Urban
E-22	E-22-0.5	0.0	0.5	3.8	4.4	mg/kg	N	1982.3	Urban
1428 Freedom Boulevard	CP-1	0.0	0.0		2.5	mg/kg	BG	2295.7	Urban
X12	X12_0.25	0.3	0.3	7.4	14.0	mg/kg	BG	2414.4	Urban
1455 Freedom Boulevard	SP(1-4)	0.0	0.0		2.5	mg/kg	BG	2530.1	Urban
X10	X10_0.25	0.3	0.3	17.0	63.0	mg/kg	BG	2614.0	Urban
1488 Freedom Boulevard	SP	0.0	0.0		3.0	mg/kg	BG	2787.7	Urban
X11	X11_0.25	0.3	0.3	4.4	11.0	mg/kg	BG	2856.5	Urban
X6	X6_0.25	0.3	0.3	4.3	45.0	mg/kg	BG	2921.5	Urban
X5	X5_0.25	0.3	0.3	2.5	7.0	mg/kg	BG	3490.2	Urban
X7	X7_0.25	0.3	0.3	23.0	85.0	mg/kg	BG	3925.4	Urban
X4	X4_0.25	0.3	0.3	2.3	26.0	mg/kg	BG	3954.7	Urban
X1	X1_0.25	0.3	0.3	3.6	19.0	mg/kg	BG	4105.2	Urban
X2	X2_0.25	0.3	0.3	3.7	99.0	mg/kg	BG	4354.2	Urban

4B	4B-0.5	0.0	0.5	10.5		mg/kg	N	1037.5	Rural
4B	4B-1.5	1.0	1.5	10.2		mg/kg	N	1037.5	Rural
6B	6B-0.5	0.0	0.5	8.9		mg/kg	N	530.7	Rural
6B	6B-1.5	1.0	1.5	7.5		mg/kg	N	530.7	Rural
BG-1	BG-1	0.0	0.5	5.21	23.6	mg/kg	BG	1607.9	Rural
BG-15	BG-15	0.0	0.5	5.25	26.4	mg/kg	BG	1099.2	Rural
BG-2	BG-2	0.0	0.5	6.37	131	mg/kg	BG	1762.3	Rural
BG-3	BG-3	0.0	0.5	5.79	23	mg/kg	BG	1833.6	Rural
BG-7	BG-7	0.0	0.5	9.26	80.5	mg/kg	BG	1632.9	Rural
1715 West Beach Street	INDALEZ-B-12-2	2.0	2.0	5.3	5.1	mg/kg	BG	1990.2	Rural
1715 West Beach Street	INDALEZ-B-3-2	2.0	2.0	3.5	5.3	mg/kg	BG	1990.2	Rural
1715 West Beach Street	INDALEZ-B-4-2	2.0	2.0	1.9	5.4	mg/kg	BG	1990.2	Rural
1715 West Beach Street	INDALEZ-B-6-1.5	1.5	1.5	4.5	7	mg/kg	BG	1990.2	Rural
1715 West Beach Street	INDALEZ-B-7-2	2.0	2.0	3.7	6.1	mg/kg	BG	1990.2	Rural
1715 West Beach Street	SB-1-1	1.0	1.0	12	ND	mg/kg	BG	1990.2	Rural
1715 West Beach Street	SB-2-1	1.0	1.0	9.2	ND	mg/kg	BG	1990.2	Rural
17 Gaffey Road	SP1(A-D)Composite	0.0	0.0		8.5	mg/kg	BG	9497.6	Rural
WB-6	WB-6-0.5	0.0	0.3	2.4	290	mg/kg	N	808.2	Rural
X13	X13_0.25	0.3	0.3	12	51	mg/kg	BG	3749.8	Rural
X14	X14_0.25	0.3	0.3	1.9	9.5	mg/kg	BG	3483.2	Rural
X15	X15_0.25	0.3	0.3	5	9.5	mg/kg	BG	4095.2	Rural
X16	X16_0.25	0.3	0.3	4.6	8.2	mg/kg	BG	2976.9	Rural
X3	X3_0.25	0.3	0.3	2.6	29	mg/kg	BG	5578.2	Rural
X8	X8_0.25	0.3	0.3	3.2	28	mg/kg	BG	4780.4	Rural
X9	X9_0.25	0.3	0.3	3.2	16	mg/kg	BG	3554.5	Rural
Z3	Z3c	0.2	0.2	11	200	mg/kg	N	538.5	Rural



Remedial Investigation and  
Feasibility Study of the  
Cal Spray Site  
(135 Walker Street,  
Watsonville, California)

Volume 1

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Environmental Sciences, Inc.

1984



This report was prepared by CH2M HILL under the supervision of:



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February 2000



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Appendix B – Analytical Data



# Acronyms

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ARARs	Applicable or Relevant and Appropriate Regulations
ASE	Applied Science and Engineering
Bgs	Below ground surface
COPC	Chemical of Potential Concern
CCR	California Code of Regulations
DTSC	Department of Toxic Substances Control
FEMA	Federal Emergency Management Agency
FS	Feasibility Study
MCL	Maximum Contaminant Limit
Msl	Mean sea level
O&M	Operation and Maintenance
RCRA	Resource Conservation and Recovery Act
SI	Supplemental Investigation
TPH	Total petroleum hydrocarbons
TRPH	Total recoverable petroleum hydrocarbons
VOC	Volatile Aromatic Compound



# Executive Summary

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This report presents the results of the Remedial Investigation and Feasibility Study (RI/FS) conducted at the former California Spray and Chemical Company (Cal Spray) site, located at 135 Walker Street, Watsonville, California. This RI/FS has been prepared pursuant to Voluntary Cleanup Agreement Docket No. HSA 97/98-005 with the Department of Toxic Substances Control (DTSC), Region 2 in Berkeley, California. The Cal Spray site is located in the southwest portion of the City of Watsonville and is situated in low-lying flatlands of the Bolsa Del Pajaro, within the floodplain between Watsonville Slough and the Pajaro River. It is located approximately 5 miles east of the Pacific Ocean at an elevation approximately 20 feet above mean sea level (msl), and is 0.3 miles northwest of the Pajaro River.

The Cal Spray site is comprised of four areas. The property located at 135 Walker Street is referred to as Area 1, and is the location of the former Cal Spray operations. Area 1 is bounded on the north by Walker Street, on the east by Riverside Drive, and on the south by Locust Street. Two parcels bound the property to the west. The southernmost property, located at 228 Locust Street, is referred to as Area 2. The northernmost property, located at 131 Walker Street, is referred to as Area 3. Area 4 is west of Area 2 and south of Area 3, and is located at 234 Locust Street.

The California Spray and Chemical Company, a predecessor of Chevron Chemical Company, was formed in 1907 to produce lead arsenate insecticide spray to control codling moths which were damaging apple orchards in the Pajaro Valley. The manufacturing plant was constructed in 1908 at the Cal Spray site, and produced lead arsenate, lime-sulfur solutions, and strychnine. The manufacturing process was discontinued from the site in 1929. Warehouse operations continued at the site until the early 1950's.

Investigations were initiated at Area 1 in 1996 after discolored material was discovered during the construction of a new building. Nine sampling events have been conducted on or around the Cal Spray site between 1996 and 1998. The investigations were performed to assess what chemical constituents may remain on the properties as residues from the past manufacturing operations, and to determine the horizontal and vertical extent of constituents of concern in soil and/or groundwater.

Data collected from borings installed during the field investigations indicate the geology underlying the site is characterized by approximately 5 feet of silty sand fill underlain by dense, organic rich, blue-gray to black clay varying from 2 to 6 feet in thickness. This clay, which is indicative of a former swamp or slough environment, thins towards the northeastern portion of the Cal Spray site and is, in turn, underlain by 5- to 10-feet of soft to firm silty clay. The silty clay is underlain by a 5- to 20-foot thick layer of sand and sandy gravel. Depth to first encountered groundwater varies from approximately 20 to 30 feet below the ground surface. Regional groundwater supplies are drawn from two principal aquifers: the semi-confined alluvial aquifer, composed of 200 feet of interbedded, laterally discontinuous sand, clay, and gravel; and the confined Aromas Formation, composed of



fine-grained sand. Groundwater is withdrawn from these aquifers between 150 and 400 feet below ground surface.

The results of investigations conducted at the site indicate that lead and arsenic in soil are the only constituents of potential concern at the Cal Spray site. Furthermore, an evaluation of analytical data collected during the field investigations (combined with a calculated ambient, or background arsenic concentration of 18 mg/kg) indicates that the horizontal extent of arsenic- and lead-impacted soil at the Cal Spray site is limited to Area 1, the southern and eastern portions of Area 2, the southwestern corner of Area 3, and the northern and southern portion of Area 4. With the exception of limited areas on Area 1 and Area 2, arsenic- and lead-impacted soil is found at maximum depths of 5 to 6 feet below grade.

Groundwater beneath the Cal Spray site does not appear to be impacted by arsenic or lead. One groundwater sample from boring CH23 did contain lead at 46 µg/L (greater than the lead action limit of 15 µg/L); however this result may be attributed to an extremely turbid grab groundwater sample. Groundwater from this area was re-sampled and did not contain detectable concentrations (<5 µg/L) of lead. Arsenic and lead were detected in grab groundwater samples from two other locations; however, the concentrations were below the MCL for arsenic and the action level for lead. One volatile organic compound (VOC) (1,2-dichloroethane) was detected once in one of 9 groundwater samples, at a concentration above the MCL. The source of this compound is unknown, although it is unlikely that the source was from original Cal Spray manufacturing activities since VOCs were not used during Cal Spray operations.

In conjunction with the RI, a Feasibility Study (FS) was conducted for the Cal Spray site to evaluate alternatives for mitigating the lead- and arsenic-impacted soil. The following DTSC-approved residential soil cleanup criteria was established for the site:

- The site background arsenic concentration for the Cal Spray site has been estimated as 18 mg/kg (as discussed in Section 3.3.9). Arsenic concentrations found to exceed 18 mg/kg during remediation, as determined by confirmation samples collected from the bottom and side-walls of all excavations shall be remediated and handled in accordance to methods outlined in this report.
- A site-wide average concentration of 400 mg/kg for lead, with no single lead concentration exceeding 840 mg/kg.

For Area 1, eight remedial action alternatives were evaluated for effectiveness, implementability, and cost. These alternatives were:

Alternative 1: No further action.

Alternative 2: Asphalt cap.

Alternative 3: Hot spot removal with an asphalt cap.

Alternative 4: Hot spot removal, removal of top two feet of soil in areas exceeding clean-up criteria, plus asphalt paving.



- Alternative 5: Removal of top two feet of soil in areas exceeding clean-up criteria with asphalt paving.
- Alternative 6: Removal of all soil containing arsenic and lead exceeding clean-up criteria.
- Alternative 7: In-situ stabilization, with asphalt paving
- Alternative 8: Ex-situ stabilization, with asphalt paving

Chevron recommends implementing Alternative 2 as the preferred remedial action for Area 1 because of its high benefit to cost ratio. The short-term risk from exposure to site soil during remediation activities for this alternative is the lowest of all alternatives, and it provides the same degree of long-term protection of human health as all other alternatives (except Alternative 1). Paving over the existing asphalt prevents direct exposure to impacted soil both now and in the future. This alternative is the easiest to implement and the least costly. Since soil containing arsenic and lead at concentrations above cleanup criteria will remain onsite following alternative implementation, ongoing operations and maintenance (O&M) activities will be required. However, O&M is also required for all other alternatives except Alternative 6.

For Area 3 and Area 4, Chevron recommends excavation and consolidation or offsite disposal of all material exceeding the cleanup criteria, followed by restoration of each of the properties to their original conditions. This action will ensure the most expeditious and effective cleanup for these properties.

The recommended alternative for Area 2 will depend upon the final zoning designation of the property. Two alternatives are proposed for this property:

1. If the property remains zoned as residential, then the alternative for this property is excavation and offsite disposal of all material exceeding the cleanup criteria, then restoration of the property to its original condition.
2. If the property is re-zoned as industrial, then the recommended alternative for this property is cover the site with an asphalt cap, and institute a deed restriction. Some of the soil excavated from Area 3 and/or Area 4 may be consolidated onto Area 2.



## SECTION 1

# Introduction

---

This report presents the results of a Remedial Investigation and Feasibility Study (RI/FS) conducted at the former California Spray and Chemical Company (Cal Spray) property, located at 135 Walker Street, Watsonville, California, and on adjacent parcels (Figures 1 and 2). This RI/FS has been prepared pursuant to Voluntary Cleanup Agreement Docket No. HSA 97/98-005 with the Department of Toxic Substances Control (DTSC), Region 2 in Berkeley, California.

The site at 135 Walker Street is the historical location of the California Spray and Chemical Company, a predecessor of Chevron Chemical Company (Chevron). Cal Spray manufactured lead arsenate sprays, lime sulfur solutions, and strychnine at this location between 1909 and 1929. The native soils at the site have been covered with a layer of fill that varies in thickness across the site. Since the early 1950's, the site has been paved with asphalt.

This remedial investigation is composed of data from several field investigations conducted at the Cal Spray site. Field investigations were conducted in June, September, October, and November of 1996; and a Supplemental Investigation (SI) was performed between December 2 and December 11, 1997, and on March 31, 1998. Additional samples were also collected on July 2, 1998, November 3 and 4, 1998, July 29, 1999, and September 20, 1999.

In general, the investigations have detected elevated concentrations of arsenic and lead in the fill layer and shallow soil underlying the site, and on three properties adjacent to the site. Groundwater does not appear to be impacted by historic site operations.

## 1.1 Report Organization

This report presents the results of the RI/FS conducted at the Cal Spray site, and describes the development and evaluation of remedial action alternatives to manage arsenic and lead detected in soil at the site. The remainder of this report has been organized into the following sections:

- Section 2 describes the site physical setting and historical background, and presents results from previous investigations.
- Section 3 presents the supplemental investigation (SI) sampling objectives, field activities, and results.
- Section 4 uses data from the SI and previous investigations to develop a Conceptual Site Model.
- Section 5 presents the Feasibility Study in which a range of remedial alternatives is identified and evaluated. A remedial action is recommended for implementation.
- Section 6 presents references cited in the report.



## SECTION 2

# Site Setting and Background

---

This section presents background information on the Cal Spray site, including summaries of field investigations conducted to date and the regional hydrogeological setting.

## 2.1 Site Setting

The Cal Spray site is located in the southwest portion of the City of Watsonville (Figure 1). The site is situated in low-lying flatlands of the Bolsa Del Pajaro, within the floodplain between Watsonville Slough and the Pajaro River. It is located approximately 5 miles east of the Pacific Ocean at an elevation approximately 20 feet above mean sea level (msl), and is 0.3 miles northwest of the Pajaro River. The site coordinates are approximately North 36°54' – South 121°45'. The site is located within an area described by the Federal Emergency Management Agency (FEMA) as the 100-year shallow flood plain, where flood depths are projected to be between one and three feet deep.

The Cal Spray site is comprised of four areas. The property at 135 Walker Street<sup>1</sup>, herein referred to as Area 1, is the historical location of the Cal Spray operations (Figure 2). The property is approximately two acres in size, fenced, and paved primarily with asphalt. There is one structure on the northern portion of the property, currently housing a tire retreading operation. A pole shed, used in the past for pallet storage and truck repair, is located on the southern portion of the site. It is currently used for pallet manufacturing and storage.

Area 1 is bounded on the north by Walker Street, on the east by Riverside Drive, and on the south by Locust Street. Two parcels bound the property to the west (Figure 2). The southernmost property, located at 228 Locust Street, is vacant and contains a vacant two-story structure. This property is herein known as Area 2. The northernmost property, located at 131 Walker Street, is paved and contains one building currently housing an irrigation and piping supply company. This parcel is herein known as Area 3. Area 4, located at 234 Locust Street, is west of Area 2 and south of Area 3. This property contains a single family home.

### 2.1.1 Regional Geology and Hydrogeology

The underlying native soils in the site vicinity are predominantly interbedded, laterally discontinuous sand, clay, and gravel, typical of the Quaternary Older Flood-Plain Deposits as mapped by Dupré and Tinsley in their document entitled *Geology and Liquefaction Potential of Northern Monterey and Santa Cruz Counties, California* (1980). These alluvial deposits are up to 200 feet thick and overlay the Aromas Formation. The Aromas Formation is located between 200 and 600 feet below ground surface (bgs), is characterized by its red

---

<sup>1</sup> Although the Cal Spray facility physical location has not changed, the address for this property has changed over the years due to local development and owner's preference. The property is referred to herein by its current address.



color, and is typically a fine-grained sand. The Purisima Formation is found below 600 feet bgs. Figure 3 presents a regional hydrogeologic cross section of the Watsonville area.

The principal water supply aquifers for the Watsonville area are the basal gravel unit of the alluvial aquifer, the Aromas Red Sands, and the Purisima Formation. Groundwater within the alluvium occurs in two distinct zones: (1) the shallow unconfined portion, and (2) the deeper, semi-confined basal gravel unit. The shallow groundwater body in the upper part of the alluvium is separated from the main water bearing zones by beds of clay and silt (USGS, 1972). Few wells tap the shallow zone because the yield is small and the water quality is marginal for most uses. Municipal water wells extract groundwater from the basal gravel unit and from the Aromas Sands.

Groundwater in the shallow water-bearing zone (upper part of the alluvial zone) generally flows south to southwest towards the Pajaro River and the Pacific Ocean. Deeper groundwater in the Aromas Formation generally flows to the west toward the Pacific Ocean. Deep groundwater flow in the Pajaro Valley is, however, highly influenced by pumping wells, with agricultural and municipal groundwater use creating inwardly radial flow patterns toward Watsonville and the lower Pajaro River Valley. Seasonal water levels have been reported as low as -20 msl (approximately 40 feet bgs).

The groundwater flow direction at the site is not known since there are no monitoring wells at the site to measure the exact water elevation. However, numerous published reports on the hydrogeology of the Pajaro Valley agree that shallow groundwater flow in the Valley in vicinity the Cal Spray site is southwest towards Monterey Bay (*Geology and Groundwater, Pajaro Valley Area, California*, USGS Open-File Report, June 27, 1972; and, *Geohydrology and Mathematical Simulation of the Pajaro Valley Aquifer System, Santa Cruz and Monterey Counties, California*, USGS, Water-Resources Investigations Report 87-4281). Further, the direction of shallow groundwater flow is governed by topography, and the topography in the area of the Cal Spray site slopes southwest towards Monterey Bay, indicating the direction of groundwater flow is southwest towards the Bay.

### 2.1.2 Site Geology

Ninety-four (94) borings have been installed on and around the Cal Spray site, ranging in depths from 0.5 to 31 feet bgs. These include seven geotechnical borings installed by Haro, Kasunich & Associates in August 1993, one hand-auger boring installed by Applied Science and Engineering, Inc. in June 1996, 72 borings installed by CH2M HILL in September, October, and November 1996, December 1997, March and July 1998, and 14 borings installed by Cambria Environmental in November 1998. Of these 94 borings, 46 have been installed on Area 1, 14 have been installed on Area 2, 11 have been installed on Area 3, 15 have been installed on Area 4, and 8 have been installed on the property adjacent to Area 4. Figure 4 shows the locations of all borings installed by CH2M HILL and Cambria. Figure 5 shows the location of geologic cross sections, and Figures 6, 7, 8, and 9 present geologic cross sections.

Area 1 is covered with asphalt that varies from 1 to 8 inches thick. The asphalt is underlain by approximately 4 inches of imported sandy gravel base rock. The base rock is underlain by 3 to 6 feet of fill composed primarily of silty sand, and in some cases, inert debris such as wood and brick fragments. The thickness of the fill layer varies over the site, ranging from 2.5 to 6 feet thick, with an average thickness of about 5 feet. Figure 10 presents a contour



map showing the fill layer thickness beneath the Cal Spray site. The fill layer is underlain by a dense, organic rich, blue-gray to black clay that varies in thickness from 2 to 6 feet. This organic rich clay has a very strong hydrogen sulfide ( $H_2S$ ) odor that is indicative of anaerobic swamp or slough environments. This black clay was encountered in most borings on the Cal Spray site, and an 1865 historical survey map of the Watsonville area indicates that the Cal Spray site is built on or adjacent to the former location of a slough named "First Slough", which is the likely source of the black clay. The black, organic rich clay thins toward the northeastern portion of the Cal Spray site and is not present under Area 3. A 5- to 10-foot-thick layer of soft to firm silty clay underlies the black clay in most locations. A 5- to 20-foot-thick layer of sand and sandy gravel is found beneath the clay layers under the northern portion of the Cal Spray site. Several borings encountered perched groundwater at depths as shallow as 12 feet bgs. However, the depth of the water table aquifer beneath the site appears to be 28 to 30 feet bgs.

## 2.2 Site Background

### 2.2.1 Historical Site Use

Area 1 is the historical location of the California Spray and Chemical Company, formed in 1907 to produce lead arsenate insecticide spray to control codling moths which were damaging apple orchards in the Pajaro Valley. The California Spray and Chemical Company was formed by Charles Rodgers, William Volck, E. Luther, and Charles Silliman. The plant was constructed in 1908 on leased property on Walker Street between First and Second Streets, and produced lead arsenate, lime-sulfur solutions, and strychnine. The pesticides were first sold through local dealers, but later were sold directly to the orchardists (Lewis, 1976). The manufacturing of the pesticides at the site ceased in 1929 (Gardner, 1978); however, warehouse operations continued until the early 1950s.

Areas 2, 3, and 4 were never associated with the former California Spray and Chemical Company. Areas 2 and 4 have contained residences since at least 1908, and Area 3 was a fruit packing plant from at least 1920 through 1956, after the Cal Spray operations ceased.

A title search for all parcels of the former Cal Spray property from 1892 through 1990 was performed. Figure 11 presents a timeline for the various parcels and property owners for Area 1. Container Equipment Company purchased the Cal Spray parcels in 1951 (Maiorana, 1996). Adjoining parcels were purchased by the company between 1953 and 1976. Richard Hammond, the current site owner, bought the Container Equipment Company in 1973.

Based on available historical information, manufacturing processes of the Cal Spray Company were as follows:

#### Lead-Arsenate

In 1906, a new catalytic process was patented for manufacturing lead arsenate. In the then-existing manufacturing process, lead acetate was mixed with arsenic acid to form diplumbic lead arsenate. In newer processes, litharge (manufactured from pig lead) and a catalyst initially replaced lead acetate in the manufacturing process.

Later processes replaced the litharge with an in-plant manufactured lead suboxide.



Triplumbic lead arsenate was subsequently invented which could be used on trees and shrubs that were highly sensitive to arsenic burn.

The manufacturing of lead arsenate was a wet process in which lead oxides in the form of water-based slurries were pumped into reaction vessels and mixed with arsenic acid. The resulting slurry was then pumped through a plate-and-frame filter, and the filter cake, containing about 50 percent water, was placed on trays and stacked on mine carts. The mine carts were then rolled into sheds where the product was dried with forced hot air. The dried product was ground as necessary and packaged dry for use.

#### Lime-Sulfur Solution

One of the first Cal Spray products, Ortho Lime-Sulfur Solution, was manufactured from lump sulfur and lime. The result was a solution appropriate for dusting for Peach Twig Borer control on peaches, nectarines and plums and for control of the Pear Leaf Blister Mite.

#### Strychnine

Strychnine was extracted from nux-vomica beans. The beans, imported from India, naturally yield the drugs nux-vomica and strychnine. In a patented extraction process, about equal amounts of strychnine and brucine alkaloids with 5% to 10% impurities were produced. This product was marketed under the name Ortho Strychnine.

Sanborn Fire Insurance maps were reviewed for information regarding former site features and structures. Coverage was available starting in 1892, with additional maps available in 1902, 1908, 1920, and 1956. Copies of these maps can be found in Appendix A of the *Work Plan for the Supplemental Investigation of the Cal Spray Site and Adjoining Properties, Chevron Chemical Company* (CH2M HILL, 1997a), herein referenced as the SI Work Plan.

The 1892 and 1902 Sanborn maps show Areas 1 and 3 occupied by residences, and Area 2 was vacant. The 1908 Sanborn map shows the northern and southwestern portions of Area 1 occupied by residences, and the southeastern portion of the site occupied by "G. A. Moorehead Fruit Packing". Areas 2, 3, and 4 contained single family residences. The 1920 Sanborn map shows the northern portion of Area 1 occupied by the "Ortho Cal Spray Chemical Company", and the "Martin Brothers Fruit Packing House" on the southeastern portion of the site. Residences remain in the southwestern portion of the site and in Areas 2 and 4. Area 3 was occupied by the B. Pista Company Fruit Packing House and contained 3 large buildings. The 1920 Sanborn map shows the following features on the Cal Spray portion (Area 1) of the site:

- Strychnine tanks (concrete, 12 feet high)
- Oil tanks (concrete, underground)
- Water tower (10 feet high)
- Lime kiln (concrete)
- Lead furnace
- Retort
- Still (concrete)



- Furnaces
- Pump house
- Storage shed
- Well
- Building containing grinding operations and a 20 horsepower engine
- Building containing mixing tanks with storage above
- Warehouse (located directly adjacent to Walker Street)

Figure 12 presents an overlay of these structures on the current site.

The 1956 Sanborn map shows the parcel formerly containing Cal Spray site vacant except for a new building used for box crating. This building is steel frame construction on a concrete floor, is set back from Walker Street, and currently houses a tire company. The 1956 map shows Areas 2 and 4 with residences, and Area 3 containing one of the three fruit packing buildings.

Certain Area 1 features from the 1920 and 1956 Sanborn maps correspond with two historical aerial photographs reviewed. The first photograph is from 1950 and shows only the warehouse and water tower seen on the 1920 Sanborn Map; no other structures are located onsite. The second photograph, from 1953, shows the entire site graded and paved, a new structure constructed for the box crating plant, and stacks of materials in the yard west of the building.

The current status of the well and underground storage tanks is not known, and there is no evidence of these features on the site today, however, they are not believed to be present. The following activities have been performed to assess the status of the tanks:

- A soil boring (CH5) was drilled at the location of the former underground oil tanks, and visible observations did not indicate the presence of a tank.
- A hole was excavated in the area of the former underground oil tanks during an attempt to install foundation footings. Observations within this excavation did not indicate the presence of a tank
- The City of Watsonville has no records of a UST installed or removed at the Cal Spray site.

The Santa Cruz County Environmental Health Department and the City of Watsonville were contacted on August 13 and August 14, 1998, respectively, to request of information regarding the well. The Santa Cruz County Environmental Health Department maintains records of all wells in the county. Neither the County nor the City have any record of the construction, or destruction of the well.

Currently, the sole building onsite is used by a tire company for tire sales and retread operations. In the past year, the pole shed located on the west side of the site was used by a second tenant for truck repair operations and for storing pallets and other packing material. Prior to this time (circa 1993), the pole shed was used for automobile repair, and a pit existed in the pole shed. This pit does not exist today. The pole shed is currently used for pallet manufacturing and storage.



A tire retreading process, called the Bandag process, is currently used by the tire company leasing a portion of the site. This retreading process requires the use of three liquids (CH2M HILL, 1997b):

- Rubber cement, which is a blend of commercial heptane and rubber.
- Commercial heptane solvent, which is to be used in small amounts, if at all.
- Tire repair cements, containing trichloroethane (TCA). On average, the process would entail the use of approximately 2 to 3 gallons of cement per year, containing approximately 10 pounds of TCA per gallon of cement.

It is not known what other potentially hazardous materials may have been used by previous tenants in their operations.

## 2.2.2 Past Investigations

Five previous investigations have been conducted on the Cal Spray site between August 1993 and January 1997. Summaries of these investigations follow. Copies of reports pertaining to these investigations can be found in the SI Work Plan (CH2M HILL, 1997a).

### *August 1993 Geotechnical Investigation*

In August of 1993 in preparation for construction of a new building, Haro, Kasunich & Associates was retained to conduct a geotechnical investigation of the Cal Spray site. Haro *et al.* installed seven borings to a maximum depth of 21.5 feet bgs. These borings were installed either within or immediately adjacent to the excavation footprint and immediately adjacent to the covered storage area (known as the pole shed) near Locust Street. Evidence of the previous land use was uncovered in six of the seven borings in the form of debris (brick or concrete debris, ceramic fragments) or discolored fill material. No further investigation of the discolored material was performed.

### *June 1996 Applied Science and Engineering (ASE) Investigation*

During construction of a new building in June of 1996, contractors for the current owner of Area 1 encountered discolored material in soil immediately beneath the asphalt and base rock. Soil and asphalt removed during excavation of the building foundation were placed in two stockpiles next to the new building footprint. One small stockpile consisted primarily of asphalt material, and a larger stockpile consisted of gravel and sand base rock. Applied Science and Engineering (ASE) was retained to collect soil samples from two shallow excavations within the new building excavation footprint. In their report dated July 3, 1996, ASE documented the observation of oily sand, white non-native material, soil with crystals, and orange platy non-native material in addition to the native black silty clay. In an effort to characterize the various materials, ASE collected five discrete samples from the site. The non-native orange and white material samples were analyzed for total calcium (EPA Method 7140) and total sulfur (EPA Method 6010). The oily sand sample was analyzed for polychlorinated biphenyls (PCBs) and pesticides (EPA Method 8080), total recoverable petroleum hydrocarbons (TRPH by EPA Method 418.1), and semivolatile organic compounds (EPA Method 8270). A composite of the four non-native samples was analyzed for copper (EPA Method 7210) and arsenic (EPA Method 7060). Arsenic was detected at an



elevated concentration in the composite sample, so the composite sample was subsequently analyzed for soluble arsenic via EPA Method 7060. After completing the sampling, ASE covered the exposed soil at the site with plastic sheeting.

Results of the ASE sampling are shown on Table 1. ASE found elevated levels of sulfur (up to 59,000 mg/kg) and calcium (up to 68,000 mg/kg) in the orange and white non-native material; however, these elements are not hazardous. Copper was also detected in a composite sample from the fill soil, but not at elevated levels. TRPH was detected up to 4,000 mg/kg in the non-native oily material, but the underlying native soil did not contain detectable concentrations of TRPH. Finally, total arsenic was detected in the composite soil sample at 410 mg/kg, but was below the Total Threshold Limit Concentration (TTLC) of 500 mg/kg. The subsequent analysis for soluble arsenic contained arsenic at a concentration of 11 mg/L, exceeding the Soluble Threshold Limit Concentration (STLC) of 5 mg/L.

### *July 1996 Analyses*

In early July 1996, CH2M HILL was retained by Chevron Chemical Company to investigate the extent of chemical constituents detected in the soil by ASE in June. CH2M HILL contacted the analytical laboratory used by ASE, Entech Analytical Laboratory, in Sunnyvale, California and determined that there was soil remaining from the samples collected by ASE. These samples were sent to Quality Analytical Laboratory (QAL) in Redding, California for analysis for strychnine. Strychnine was not detected in the three samples analyzed; the orange platy material, the white material, and the soil with crystals were the samples chosen for analysis. Table 1 presents the results of these strychnine analyses.

### *September 1996 Investigation*

In September 1996, CH2M HILL installed seven Geoprobe borings on Area 1 (CH1 through CH7) to assess the nature and extent of chemical constituents at the site. Three of these borings were installed within the footprint of the excavation for the new building, and the remaining four borings were installed on the perimeter of the site, one in each corner of the property. The perimeter borings (CH1 through CH4) were installed to a maximum depth of 3 feet bgs, with soil samples collected from each at depths of 0.5 to 1 feet bgs, 1.5 to 2 feet bgs, and 2 to 3 feet bgs. The three interior borings were installed to a maximum depth of 18 feet bgs, with soil samples collected from approximately 15 to 16 feet bgs and from 17 to 18 feet bgs to assess the vertical extent of arsenic and lead in soil. All soil samples were analyzed for arsenic, lead, and mercury, and the samples from borings CH2, CH5, CH6, and CH7 were analyzed for TRPH. Selected soil samples were also analyzed for strychnine. Table 2 summarizes the analytical results for this investigation.

The results of the soil sampling and analyses indicated there were no detectable concentrations of TRPH or strychnine; low (non-hazardous) concentrations of mercury (up to 1.8 mg/kg) and elevated concentrations of arsenic (up to 7,020 mg/kg in CH3) and lead (up to 1,560 mg/kg in CH1) were detected in soil at the site.



### *October 1996 Investigation*

In October 1996, CH2M HILL installed three additional Geoprobe borings (CH8 through CH10) at the Cal Spray site. These borings were located on the northern and southern perimeters of the site, near previously installed borings CH1 and CH3, to assess if elevated concentrations of arsenic and lead were present at the site boundary. These borings were installed to a maximum depth of 6 feet, with soil samples collected from 0.5 to 1 feet bgs, 2.5 to 3 feet bgs, and 5.5 to 6 feet bgs. The soil samples were analyzed for arsenic and lead. Table 2 summarizes the analytical results. Of these three borings, only one boring, CH10, contained concentrations of arsenic (up to 2,830 mg/kg) and lead (up to 8,940 mg/kg) in excess of the California Title 22 TTLCs. Boring CH10 was located adjacent to the property line between Area 1 and Area 2 to the northwest.

### *November 1996 Investigation*

In November 1996, CH2M HILL installed ten additional Geoprobe borings (CH11 through CH20) on Area 1, and four hand auger borings (HA1 through HA4) on Area 2, northwest and immediately adjacent to the site and boring CH10. Area 2 is unpaved, and is at an elevation approximately 1 to 2 feet below the grade of Area 1. The Geoprobe borings were installed to further delineate the extent of arsenic and lead at the site. The hand auger borings were installed to determine if chemical constituents were present on Area 2.

The ten Geoprobe borings installed on Area 1 were located on an approximate grid across the site to a maximum depth of 9 feet bgs. Soil samples were generally collected from 2 to 2.5 feet bgs, 4 to 4.5 feet bgs, 6 to 6.5 feet bgs, and 8 to 8.5 feet bgs. These soil samples were analyzed in a phased manner for total arsenic and lead, and two samples (collected from CH19 and CH20 at a depth between 8 to 8.5 bgs) were analyzed for TRPH after field observations indicated possible petroleum contamination. Table 2 summarizes the analytical results from this investigation.

The results of the analyses indicated that potentially hazardous concentrations of arsenic and lead were distributed randomly across the site in the fill layer, and that there was no discernible correlation between the locations of the detections and historical site features. The two samples from CH19 and CH20 contained TRPH at concentrations of 715 and 3440 mg/kg, respectively.

The four hand auger borings installed on Area 2 were located adjacent to the fenceline, near borings CH3 and CH10 (the two early Geoprobe borings that contained elevated levels of arsenic and lead). Space limitations onsite (in the form of lumber, metal debris, and automobiles piled on or near the fenceline) dictated the boring locations.

Hand auger borings HA1 and HA2 were located northeast of CH3 and CH10, and soil samples were collected from 0 to 0.5 feet bgs. Borings HA3 and HA4 (both located northwest of CH3 and CH10) were installed to a maximum depth of 3 feet bgs, with soil samples collected between 0 and 0.5 feet bgs and 2.5 and 3 feet bgs. All soil samples were analyzed for arsenic and lead. Elevated concentrations of arsenic and lead were detected in 4 of 6 soil samples collected.



### *November 1996 Site Winterization*

In early November 1996, the exposed soil area at Area 1 was covered with 10-mil plastic sheeting as a winterization measure to prevent the soil from migrating due to stormwater runoff and/or air transport, and to reduce the possibility of direct contact with the soil. Also, three composite soil samples were collected from the two stockpiles of soil and asphalt adjacent to the exposed area. One composite soil sample (SP-1) was collected from the small stockpile of asphalt, and two composite soil samples (SP-2N and SP-2S) were collected from the large stockpile and analyzed for arsenic and lead. Elevated concentrations of both arsenic and lead were detected in the composite samples from the large stockpile, at maximum concentrations of 483 mg/kg and 1340 mg/kg, respectively.

### *January 1997 Stockpile Sampling*

In preparation for the removal of the two soil stockpiles on Area 1, eight additional soil samples were collected from the large stockpile and one composite soil sample was collected from the small stockpile. All samples were analyzed by the Total Concentration Leaching Procedure (TCLP). One sample from the large stockpile (SP2-4) contained lead at 5.1 mg/L, which exceeded the lead TCLP limit of 5 mg/L. This sample was re-analyzed by EPA Method 1310A -Extraction Procedure Toxicity (EP-Tox) as directed by Waste Management, Inc. (the disposal facility) for waste characterization. The EP-Tox result was 0.3 mg/L, thus the soil was not characterized as RCRA-hazardous. The sample from the small stockpile was also analyzed by the Soluble Threshold Limit Concentration (STLC) method and contained lead at 6.3 mg/L (exceeding the STLC of 5 mg/L).

Both the large and small stockpiles contained concentrations of lead in excess of the California TTLC and STLC for designation as a California hazardous waste. Both stockpiles were loaded, transported, and disposed of at Waste Management, Inc. Kettleman Hills Class I landfill on March 28, 1997.

## **2.3 Summary of Results from Previous Investigations**

Compounds produced at the California Spray and Chemical Company were lead arsenate, lime-sulfur solution, and strychnine. The historical site use and development and the results of the investigations conducted through January 1997 indicate that residues from the former Cal Spray lead arsenate manufacturing currently exist in shallow soil at the site. The analytical data from these investigations indicate that the chemicals of potential concern (COPCs) at the site are limited to arsenic and lead. Analytical results from the previous investigations are presented in Tables 1 and 2. High concentrations of calcium and sulfur (products of lime-sulfur solution) were detected; however, these compounds are not considered a health hazard, and thus are not of concern. Nine (9) soil samples were analyzed for strychnine, but strychnine was not detected. Mercury was detected in 17 of 18 soil samples, but at low concentrations within the range of background concentrations (which range from 0.1 to 1 mg/kg in California soils according to Bradford et al., 1996). Two soil samples from the ASE investigation were analyzed for organochlorine pesticides and PCBs, but none were detected. This was expected since the dates of operation of the Cal Spray formulation facility (1909 through 1929) pre-date the development of organochlorine pesticides. The first of the organochlorine pesticides, DDT, was first introduced to the



United States in 1942, and was not manufactured in the United States until 1944 (Farm Chemicals Handbook, 1984).

Arsenic and lead appear to be limited to the fill layer of soil underlying the site. The fill layer varies from 2 to 6 feet in thickness, with an average thickness of about 5 feet. Arsenic and lead concentrations in the fill soil exhibit a random distribution, and do not correlate directly with former site facilities. Verbal information from the current site owner suggests that lead arsenate residues in surface soils were mixed and spread throughout the site as a result of grading and fill operations that took place in the 1950s, prior to site paving and construction of pallet manufacturing facilities. Grading and fill activities were repeated in the 1970s when adjoining parcels were purchased and added to the property.

Data collected during investigations through January 1997 suggested that further research into the extent of residues on and around the Cal Spray site was necessary. The Supplemental Investigation documented in Section 3 was performed to collect the additional data needed to delineate the extent of arsenic and lead on and around the Cal Spray site.



# Supplemental Investigation Activities and Results

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This section presents the sampling objectives, field activities, and results of the supplemental investigation (SI). Field activities for the SI were performed at the Cal Spray site between December 2, and December 11, 1997. Additional sampling events were performed on March 31, 1998, July 2, 1998, November 3 and 4, 1998, July 29, 1999, and September 20, 1999. Specific field methodologies and procedures are described in the SI Work Plan (CH2M HILL 1997a). The November 3 and 4, 1998 sampling activities were performed by Cambria Environmental Technology, Inc, from Oakland, California.

## 3.1 Sampling Objectives

The sampling objectives for the SI investigation focused on collecting additional data to further define the presence and/or extent of arsenic, lead, and other chemicals of potential concern (COPCs) in soil and groundwater to provide necessary data to evaluate possible remedial alternatives for the Cal Spray site. Samples will also collected to assess the ambient, or natural background concentration of arsenic in the area around the site.

The objectives of the SI were to:

- Determine the horizontal extent of historical Cal Spray residues in the shallow soil on or adjacent to the Cal Spray site.
- Collect additional data to determine if the underlying native soil has been impacted by current or historical site operations.
- Evaluate whether shallow groundwater under the site has been impacted by current or historical site operations.
- Determine if there are additional COPCs (other than arsenic and lead) present in soil at the site that might have resulted from current or historical site operations (e.g., metals, pesticides, VOCs). Other operations that may have contributed additional COPCs to the site include the Cal Spray warehouse operations (that continued into the early 1950's), the former auto repair business, or the current tire retread business.
- Estimate background concentration levels for arsenic in the site vicinity.

## 3.2 Field Activities

Thirty (30) borings were installed on the three areas of the Cal Spray site (Area 1, Area 2, and Area 3) using Precision Sampling Inc.'s direct-push technology drill rig between December 2, and December 11, 1997, and on March 31, 1998. Four additional borings were installed by hand-auger on Area 2 on March 31, 1998. Two additional Area 1 borings and



two additional Area 3 borings were installed using Precision Sampling Inc.'s direct-push technology drill rig on November 3 and 4, 1998. Thirteen hand auger borings were installed on Area 4 on July 2, 1998, with two additional hand auger borings installed on November 4, 1998. Eight hand auger borings were installed on the property adjacent to Area 4 (236 Locust Street) on November 4, 1998. Six of the eight hand auger borings installed at 236 Locust Street were re-drilled on September 20, 1999. Eight hand auger borings were installed at various offsite locations within 1-mile of the site on July 29, 1999 to determine the background arsenic concentration in this area of Watsonville. The boring and sampling locations and sampling rationale are described below.

### 3.2.1 Area 1

Ten (10) borings (CH21 - CH30) were drilled on Area 1 to assess the horizontal and vertical extent of COPCs at the locations shown in Figure 4. Borings were drilled to a depth corresponding with the top of the water table, and soil samples were collected from each boring at approximately 5-foot intervals. Four borings, CH21, CH22, CH25, and CH27, were installed at the same locations as previously installed shallow soil borings (CH3, CH13, CH17, and CH20, respectively) to determine if the deeper, native soil in these areas has been impacted by Cal Spray residues. Soil samples collected from below 15 feet bgs were not analyzed, but held at the laboratory for possible later analysis depending upon results of the 10- and 15- foot bgs samples. Grab groundwater samples were collected from borings CH23, CH25, CH28, and CH30 and analyzed for arsenic, lead, and volatile organic compounds (VOCs). A grab groundwater sample collected from CH26 was only analyzed for arsenic and lead. The groundwater sample from CH30 was also analyzed for polychlorinated biphenyls (PCBs) and pesticides.

Five (5) borings were also installed in the City of Watsonville right-of-way bordering the Cal Spray site. Two borings were installed on Locust Street (CH32 and CH33), and three were installed on Riverside Drive (CH34, CH35, and CH36). Soil samples were collected from each boring at approximately 5-foot intervals from the ground surface to 15 feet bgs (up to 20 feet bgs in CH36), and analyzed for arsenic and lead. One grab groundwater sample was collected from boring CH35 and analyzed for arsenic, lead, and VOCs.

Two (2) additional borings (CH37 and CH38) were installed on Area 1 on November 3, 1998 as shown on Figure 4. CH37 was installed at approximately the same location as CH23 to collect an additional groundwater sample for arsenic and lead analysis. Soil samples were also collected from CH37 at 1.75 feet bgs and 7.5 feet bgs for the following analyses: arsenic, arsenic by TCLP, arsenic by STLC (7.5 feet bgs only), iron, lead, lead by TCLP, lead by STLC (1.75 feet bgs only), manganese, total organic carbon, pH, redox potential, sulfate, and sulfide. Boring CH38 was installed between CH11 and CH12 and soil samples were collected from 4 feet bgs and 10 feet bgs for the following analyses: arsenic, arsenic by TCLP, arsenic by STLC (4 feet bgs only), iron, lead, lead by TCLP, lead by STLC (4 feet bgs only), manganese, total organic carbon, pH, redox potential, sulfate, and sulfide. The TCLP and STLC analyses were collected to assess the hazardous characteristics of the soil in these areas. The iron, manganese, and general chemistry analyses were conducted to evaluate the transport behavior of arsenic and lead under the site-specific environmental conditions encountered at the site.



### 3.2.2 Area 2

Ten (10) borings (M1 - M10) were installed on Area 2 to determine the extent of arsenic and lead on this property (Figure 4). Borings M1 through M6 were drilled during the December 1997 SI field activities. Based on the results from that sampling event, four additional borings, M7 through M10, were installed on March 31, 1998 along the northwestern boundary of Area 2. Soil samples were collected from borings M1 through M6 at 5-foot intervals from the ground surface to 15 feet bgs, and were analyzed for arsenic and lead. Borings M7 through M10 were hand-augered to 2.5 feet bgs, and soil samples were collected from depth intervals of 0.0 to 0.5 foot bgs, 1.0 to 1.5 feet bgs, and 2.0 to 2.5 feet bgs and analyzed for arsenic and lead. The deepest sample from boring M8 was collected from between 2.5 and 3.0 feet bgs. A grab groundwater sample was also collected from M5 and analyzed for arsenic, lead, and VOCs.

### 3.2.3 Area 3

Nine (9) borings (P1 - P9) were installed on Area 3 to assess if arsenic and lead have impacted the soil on this property (Figure 4). P1 through P4 were drilled during the December 1997 SI field activities. Based on the results from that sampling event, five additional borings, P5 through P9, were installed in the southeast corner of Area 3 on March 31, 1998. Soil samples were collected from P1 through P4 at 5-foot intervals from the ground surface to the water table, and were analyzed for arsenic and lead. Soil samples from borings P5 through P9 were collected from depth intervals of 0.5 to 1.0 foot bgs, 4.5 to 5.0 feet bgs, and 9.5 to 10.0 feet bgs, and were also analyzed for arsenic and lead. Two grab groundwater samples were collected from borings P1 and P3 and analyzed for arsenic, lead, and VOCs.

Two additional borings (P10 and P11) were installed on November 4, 1998 to further define the horizontal extent of residues on Area 3. Soil samples from P10 were collected from between 0.6 to 1.1 feet bgs and between 4.5-5 feet bgs. Boring P11 was installed inside of the existing building. Samples were collected beneath the concrete slab from between 2.5 and 3 feet bgs and between 4.5 and 5 feet bgs and analyzed for arsenic and lead.

### 3.2.4 Area 4

Thirteen (13) hand auger borings (Z1 – Z13) to 1.5 feet bgs were installed on Area 4 on July 2, 1998, to assess if arsenic and lead have impacted the soil on this property (Figure 4). Two additional borings, Z4B and Z6B, were installed on November 4, 1998 to assess the vertical extent of arsenic and lead in the vicinity of borings Z4 and Z6. Soil samples were collected from borings Z1 through Z13 at the surface and from between 1 and 1.5 feet bgs, and were analyzed in a step-wise fashion for arsenic and lead. Ultimately, soil samples from all borings except Z10 and Z12 were analyzed. Soil samples from borings Z4B and Z6B were collected from between 4.5 to 5.0 feet bgs and were also analyzed for arsenic and lead.

### 3.2.5 Area Adjacent to Area 4

Eight hand-auger borings (S1 through and S8) were installed on the property west of Area 4, located at 236 Locust Street on November 4, 1998, by Cambria Environmental, to assess if the soil on this property was impacted by former Cal Spray residues (Figure 4). These borings were installed to a total depth of 5 feet bgs, and soil samples were collected from



between 0.5 and 1 feet bgs, and between 4.5 and 5 feet bgs. Soil samples were analyzed for arsenic and lead in a step-wise fashion, with the soil samples from borings S1 and S2 analyzed for arsenic and lead first. Soil samples from borings S3 through S8 were not subsequently analyzed because the results of samples from S1 and S2 indicated this property is not impacted by Cal Spray residues.

On September 20, 1999, hand-auger borings S3 through S8 were reinstalled and soil samples were collected from between 0.5 and 1 feet bgs, and between 1.0 and 1.5 ft bgs. Soil samples were analyzed for arsenic and lead. These samples were collected to ensure that this property is not impacted by Cal Spray residues.

### 3.2.6 Background Soil Sampling

Five background soil samples were initially collected from three locations (soil samples Background #1, #2, and #3) near the Cal Spray site during the December 1997 investigation to determine the ambient, or background concentration of arsenic in soil in this area of Watsonville. These samples were analyzed for arsenic and lead. Additional background soil samples (samples Background #4 through #11) were collected via hand auger on August 29, 1999 from depths of 0 to 0.5 ft bgs, and 1 to 1.5 ft bgs at the locations shown on Figure 13. Soil samples from Background #4 through #11 were analyzed for arsenic.

All soil samples were collected from publicly-owned, easily-accessible locations within 1-mile of the site. Background samples #1 through #9, and #11, were collected from the public right-of-ways adjacent to City-owned streets. Background #10 was collected from the southeast corner of the grounds of E.A. Hall Middle School, located at 201 Brewington Avenue, Watsonville, California.

## 3.3 Results

This section presents the sampling results from the supplemental investigation conducted at the Cal Spray site. Also presented is the methodology used to estimate the local background concentration of naturally-occurring arsenic in soil at the site. Soil boring logs are located in Appendix A to this report. Laboratory analytical reports are located in Appendix B.

The site-specific, DTSC-approved residential soil cleanup criteria for the Cal Spray site are as follows:

- The site background arsenic concentration for the Cal Spray site has been estimated as 18 mg/kg (as discussed in Section 3.3.9). Arsenic concentrations found to exceed 18 mg/kg during remediation, as determined by side-wall and bottom confirmation sampling, shall be remediated and handled in accordance to methods outlined in Section 5 of this report.
- A site-wide average concentration of 400 mg/kg for lead based on the 95% upper confidence limit, with no single lead concentration exceeding 840 mg/kg.

The rationale and methodology for these cleanup criteria are presented in Sections 3.3.9 and 5.1 of this report. These criteria are used to assess the extent that Cal Spray residues, namely, arsenic and lead, have adversely impacted soil at the site. A letter from DTSC, dated October 18, 1999, confirming these cleanup criteria is included in Appendix C.



### 3.3.1 Area 1

Analytical results of soil samples collected from borings installed on Area 1 are presented in detail on Figure 14 and Tables 2 and 3.

The highest concentrations of arsenic in soil (up to 21,400 mg/kg) were previously detected in the northwest portion of the site, in the area defined by borings CH3, CH10, CH12, and CH13. These borings were installed in the vicinity of the former Cal Spray manufacturing area, near the retort and furnaces (See Figure 12).

Borings CH21 and CH22 were drilled to determine if the deeper, native soil in this area is impacted by Cal Spray residues, and were installed adjacent to the locations of borings CH3 and CH13, respectively, to a total depth of 25 feet bgs. The 10-foot bgs sample from CH21 contained arsenic at a concentration 136 mg/kg. All other samples from these borings contained arsenic within the range of background concentration (18 mg/kg) and lead at concentrations below the cleanup criteria. These results indicate that the deeper native soil (below 10 feet bgs) in this area has not been impacted by former site activities.

Soil samples from borings CH1, CH11, CH14, CH17, CH18, and CH19, previously installed outside of the original Cal Spray manufacturing facility property boundary but within the current Area 1 property (see Figure 12), contained elevated levels of arsenic and lead at depths of 3 to 6.5 feet bgs. Boring CH25 was drilled adjacent to boring CH17 to a total depth of 22 feet bgs to determine if these residues extend below the shallow fill layer. The primary and duplicate soil samples from CH25 at 10 feet bgs contained arsenic at slightly elevated concentrations of 37.9 and 42.4 mg/kg. The 15-foot bgs sample contained arsenic at 15.7 mg/kg, thus the vertical extent of arsenic at this location appears to be about 10 feet bgs. Lead does not exceed cleanup criteria below 2.5 feet bgs at this location. The deeper samples from borings CH11, CH18, and CH25 exhibit the same pattern of decreasing arsenic concentrations with depth.

The north and east perimeters of the Area 1, as defined by borings CH8, CH20/CH27, CH28, CH29, CH35, and CH36, do not appear to be impacted by Cal Spray residues. Soil samples from these borings contained arsenic and lead at concentrations well below cleanup criteria.

Soil samples from borings installed along the southwestern portion of the Area 1 property boundary, as defined by borings CH2, CH9, CH23, CH24, CH32, CH33, CH34, and CH37 (see Figure 14), indicate that this area has been slightly impacted by Cal Spray residues. The low concentrations of arsenic and lead detected in soil samples collected from borings CH32 and CH33, located on Locust Street, confirm arsenic and lead have not migrated from the site in that direction. The 5-foot bgs sample from boring CH23 contained arsenic at 429 mg/kg; however, the sample from 10 feet bgs contained at 7.9 mg/kg. The 1-foot bgs sample from CH34, located adjacent to Riverside Drive, contained arsenic at a concentration of 59 mg/kg. The 1- and 3-foot bgs soil samples from CH2 contained arsenic at 95.8 mg/kg and 34.8 mg/kg, respectively. All soil samples collected from CH37 contained arsenic within the range of background concentration and lead at concentrations below the cleanup criteria.

Soil samples from borings installed in the center of Area 1, as defined by borings CH5, CH6, CH7, CH15, CH16, and CH26, indicate a random distribution of elevated concentrations of



arsenic and lead. The shallow samples from borings CH16 and CH26 contained arsenic and lead at maximum concentrations of 755 mg/kg and 600 mg/kg; however, the deeper samples from all borings in this area exhibited a pattern of decreasing concentrations with depth.

Boring CH30 was drilled to a total depth of 31 feet bgs inside the existing building on Area 1 to determine if residues exist under the structure. Arsenic and lead were detected at 5.5 feet bgs at respective concentrations of 6,500 and 1,850 mg/kg. The samples collected above and below this depth (at 1, 10, and 13.5 feet bgs) contained arsenic within the range of background concentration and lead at concentrations well below the cleanup criteria. The extent of residues at this location appears to be limited to the soil at approximately 5 feet bgs.

Boring CH38 was drilled between CH11 and CH12, to a total depth of 13 feet bgs. Arsenic was detected at 4 and 10 feet bgs at respective concentrations of 180 and 240 mg/kg. Lead was detected at 7.2 mg/kg at 4 feet bgs and was not detected in the sample from 10 feet bgs.

### 3.3.2 Area 2

The analytical results of soil samples from Area 2 are presented on Figure 15 and in Table 4.

Elevated concentrations of arsenic were found in several borings on Area 2. Soil samples containing arsenic at concentrations above cleanup criteria are found in borings M1, M2, M4, and M7 through M10 (Figure 15). The soil samples from borings M3, M5, and M6 contain levels of arsenic below the cleanup criteria and within the normal range of background concentrations, indicating the extent of arsenic appears to be limited to the northern half of Area 2. Lead was only detected in one boring (M10) at levels above cleanup criteria; however, lead was detected at slightly elevated concentrations in all surface soil samples collected. To assess the extent of arsenic and lead to the west of Area 2, numerous borings were installed on Area 4, west of Area 2 (see Figure 4). Results of these samples are discussed in Section 3.3.4.

The vertical extent of arsenic and lead appears to be limited to shallow soil above 3 to 5 feet bgs, as shown in all borings except M2, M9, and M10. Arsenic was detected in M2 at concentrations of 300 mg/kg, 109 mg/kg, and 156 mg/kg in the samples from 0.5 feet bgs, 5 feet bgs, and 10 feet bgs, respectively. The sample from 15 feet bgs contained arsenic at 1.92 mg/kg, indicating the vertical extent of residues in this area is likely between 10 and 15 feet bgs.

Borings M9 and M10 were both installed to 2.5 feet bgs along the northwestern edge of Area 2. Arsenic was detected at concentrations above the acceptable range of background concentration in all soil samples from each boring. Samples from boring M10 contained the maximum levels of arsenic and lead on this area, up to 1,790 mg/kg, and 1,320 mg/kg, respectively. These borings were only completed to 2.5 feet bgs; thus the vertical extent of residues in this area could not be determined.

### 3.3.3 Area 3

The analytical results of samples from Area 3 are presented on Figure 15 and in Table 5.



Elevated concentrations of arsenic and lead were found in the southern corner of Area 3 with a slightly elevated concentration detected in P2 (0.5-1 ft bgs) (79.4 mg/kg) located on the northern side of Area 3. The primary extent of elevated arsenic and lead is defined by borings P4, P5, P6, and P7 (Figure 15) and appears to be limited to a "hot spot" area located in the southwest corner of Area 3.

The 5-foot bgs sample from P4 contained arsenic and lead at respective concentrations of 4,740 mg/kg and 305 mg/kg. The underlying soil sample from 10 feet bgs had detectable but low concentrations of arsenic and lead (4.42 and 5.3 mg/kg, respectively), indicating the vertical extent of arsenic and lead at this location is between 5 and 10 feet bgs.

The shallow soil samples (1-foot bgs) from P5, P6, and P7 contained slightly elevated concentrations of the arsenic and lead at respective concentrations of 91.4 mg/kg and 231 mg/kg (P5); 179 mg/kg and 228 mg/kg (P6); and 122 mg/kg and 310 mg/kg (P7). The 5-foot bgs sample from each of these borings contained arsenic within the range of background concentration and lead at concentrations below the cleanup criteria, indicating the impact of these metals in this area is limited to the soil above 5 feet bgs.

Soil samples from borings P3, P8, P9, P10, and P11 contained arsenic at concentrations within the range of background concentrations and lead at concentrations below the cleanup criteria. The shallow samples from P3, P9, and P11 contained arsenic at concentrations slightly above the background concentration of 18 mg/kg. The original and duplicate soil samples from boring P11 at 2.5 feet bgs contained arsenic at concentrations of 26 and 21 mg/kg, respectively. The original soil sample was reanalyzed and the subsequent result was 22 mg/kg. This variation of results can be attributed to inherent heterogeneities within soil samples, and analytical accuracy and precision.

The horizontal extent of Cal Spray residues on Area 3 appears to be limited to the area defined by borings P2, P4, P5, P6, and P7.

### 3.3.4 Area 4

The analytical results of samples from Area 4 are presented on Figure 15 and in Table 6.

Arsenic was found at concentrations exceeding the acceptable range of background concentrations in soil samples from borings Z1, Z3, Z4, Z5, Z6, Z7, Z8, and Z13. The highest concentrations are found along the northern perimeter of the property in the 1 to 1.5-foot bgs samples from borings Z4 (2,810 mg/kg), Z5 (286 mg/kg), and Z6 (157 mg/kg). Soil samples collected from 5 feet bgs in borings Z4B and Z6B did not contain detectable concentrations of arsenic, indicating the vertical extent of residues in this area is limited to the soil above 5 feet bgs. Borings Z1 and Z13, located on the southern perimeter of Area 4, contained arsenic at concentrations of 32 mg/kg and 23.1 mg/kg, above the background concentration of 18 mg/kg.

Lead was detected at elevated levels in all surface soil samples, however, lead was only detected at a concentration exceeding cleanup criteria in one sample: Z4 (1 to 1.5 feet bgs) at 982 mg/kg. Soil samples collected from 5 feet bgs in boring Z4B contained lead at a concentration of 6.9 mg/kg, further indicating the vertical extent of residues in this area is limited to the soil above 5 feet bgs. The initial analytical result from soil sample Z7 from 0 to 0.5 feet bgs was 3,010 mg/kg, however, this value is believed to be inaccurate, because this



result was approximately a factor of ten higher than that found in all surrounding samples. This sample was reanalyzed and the resulting concentration was 307 mg/kg.

### 3.3.5 Area Adjacent to Area 4

The analytical results of soil samples from the area adjacent to Area 4 are presented in Table 7.

All samples, except S2 (2.5 - 3 ft bgs), contained arsenic below the background arsenic concentration of 18 mg/kg. All samples contained lead at concentrations below the cleanup criteria. Arsenic was detected in S2 (2.5 - 3 ft bgs) at 21 mg/kg. As discussed below in Section 3.4, this property does not appear to be impacted by Cal Spray residues. Therefore, the western extent of Cal Spray residues is limited to Area 4, and the southeast corner of Area 3.

### 3.3.6 Groundwater Results

Groundwater analytical results are presented in Table 8. Twelve (12) grab groundwater samples were collected during the SI as follows: eight groundwater samples (includes one duplicate sample) were collected from Area 1; one groundwater sample was collected from Area 2; and three groundwater samples (includes one duplicate sample) were collected from Area 3. All of the groundwater samples were collected by bailer from a temporary 0.75-inch diameter PVC well casing with 5-feet of 0.010-inch PVC screen. All samples were transferred to unpreserved containers and filtered through a 0.45 micron filter in the laboratory prior to analyses. Groundwater samples were collected from a fully saturated zone between 25 and 30 feet bgs.

As stated in Section 2.1.1, the groundwater flow direction at the site is presumed to be southwest towards Monterey Bay. The exact groundwater flow direction at the site is not known since there are no monitoring wells at the site to measure the accurate water elevations. Therefore we cannot provide site-specific information about the groundwater gradient and flow direction. However, numerous published reports on the hydrogeology of the Pajaro Valley agree that shallow groundwater flow in the Valley in vicinity the Cal Spray site is southwest towards Monterey Bay (*Geology and Groundwater, Pajaro Valley Area, California*, USGS Open-File Report, June 27, 1972; and, *Geohydrology and Mathematical Simulation of the Pajaro Valley Aquifer System, Santa Cruz and Monterey Counties, California*, USGS, Water-Resources Investigations Report 87-4281). Further, the direction of shallow groundwater flow is typically governed by topography, and the topography in the area of the Cal Spray site slopes southwest towards Monterey Bay, indicating the direction of groundwater flow is southwest towards the Bay. Since, groundwater samples were collected from 9 separate locations, the geographical spacing of these sample locations is such that at least one sample would have been collected downgradient of the source area, regardless of groundwater flow direction. Assuming the groundwater flow is towards the southwest, groundwater samples CH23, CH25, and CH37 were collected downgradient from the locations of highest soil concentrations of arsenic and lead.

Arsenic was detected in four grab groundwater samples (one was upgradient of the site at P1) at concentrations well below the arsenic MCL of 50 µg/L. The maximum arsenic concentration in groundwater was 11 µg/L in the duplicate sample from CH37.



Lead was initially detected in the groundwater sample collected from boring CH23 at 46  $\mu\text{g/L}$ , exceeding the lead action level of 15  $\mu\text{g/L}$ . The action level is the concentration of lead that must not be exceeded at a customer tap. The action level is exceeded if the concentration of lead in more than 10 percent of tap water samples is greater than 15  $\mu\text{g/L}$ . Lead was also detected in upgradient groundwater samples from P1 and P2; however, the concentrations were below 15  $\mu\text{g/L}$ .

The detection of lead in the groundwater samples is suspect and is likely due to the extremely turbid nature of the samples. Due to the fine-grained nature of the sediments, and the methodology used to collect the grab-groundwater samples, the samples were approximately 50% sediment and 50% groundwater. Lead is typically immobile in subsurface soil and groundwater.

Additional groundwater samples were collected from boring CH37, installed adjacent to the location of CH23, to assess if the groundwater in this area is indeed impacted by lead. Lead was not detected ( $<5 \mu\text{g/L}$ ) in either the primary or duplicate groundwater samples from this boring, confirming the groundwater beneath the site has not been impacted by the lead.

One VOC was detected in 1 of 9 groundwater samples. The groundwater sample from CH35 contained 1,2-dichloroethane at 2.4  $\mu\text{g/L}$ , exceeding the MCL of 0.5  $\mu\text{g/L}$ . 1,2-DCA is a commonly used solvent and is not a chemical associated with the previous manufacturing processes of the Cal Spray site. Further, CH35 is located outside of the Area 1 property boundary, and is also located well outside of the former boundary of the Cal Spray property (See Figure 12). Therefore the source of this chemical cannot be attributed to this site.

### 3.3.7 Strychnine Soil Sampling Results

A total of fourteen (14) soil samples from the Cal Spray site have been analyzed for strychnine, including one sample from Area 2 (M10 at 2 to 2.5 feet bgs), and one sample from Area 3 (P5 at 0.5 to 1 foot bgs). Strychnine was not detected in any of these soil samples. Analytical data sheets for the strychnine samples are included in Appendix B.

Three (3) of the samples were collected by ASE during the June 1996 investigation, and were analyzed for strychnine by Alpha Chemical and Biomedical Laboratories, Inc, in Petaluma, California. Strychnine was not detected in these three samples collected from soil described as: orange platy material, white material, and soil with crystals (See Table 1).

Seven (7) of the soil samples from Area 1 (from borings CH1 through CH7) were collected during the September 1996 investigation. Irvine Analytical Laboratories, Inc., in Irvine California, analyzed these samples for strychnine. These borings were drilled in each corner of the site (CH1-CH4), and in the center of the site (CH5-CH7). Strychnine was not detected in these samples (Table 2).

Two of the soil samples were collected from boring CH26, installed at the former location of the strychnine tanks: CH26 (0-0.5 feet bgs) and CH26 (14.5-15 feet bgs). The CH26 (14.5–15 feet bgs) sample was collected by DTSC on December 2, 1997. The California Department of Toxic Substances Control –Hazardous Materials Laboratory (HML) analyzed both these samples. Strychnine was not detected in either of those samples (Table 2).



DTSC collected two additional split soil samples to be analyzed for strychnine on March 31, 1998: M10 (2-2.5 feet bgs), and P5 (0.5-1 feet bgs). HML analyzed these samples and strychnine was not detected in either of those samples (Tables 4 and 5).

The sampling locations provided adequate coverage of the site to test for the presence of strychnine, particularly the samples collected at the former strychnine tanks. The results of the strychnine sampling demonstrate that strychnine is not a COPC at the Cal Spray site.

### 3.3.8 Background Soil Sampling

Analytical results from the offsite background soil samples are presented on Table 9. The locations of the samples are shown on Figure 13.

Arsenic concentrations from the 22 offsite background soil samples (includes one duplicate sample) ranged from 3.1 to 18.9 mg/kg.

Lead concentrations from 5 offsite background soil samples ranged from 9.0 to 477 mg/kg.

The lead values of the surface soil samples from Background 2 and Background 3 are elevated above published background concentrations for California soils (Bradford et al., 1996). These elevated concentrations are similar to the concentrations detected in the surface soil samples from borings CH34 and CH35 (located adjacent to Riverside Drive), and in all of the surface samples collected from Area 2 and Area 4 (excluding M10). The ubiquitous nature of lead in surface soils is well documented, and these samples further support the conclusion that lead on adjacent properties may be from sources other than the Cal Spray site.

### 3.3.9 Estimation of Arsenic Background Concentration in Soil

The results from the offsite background soil samples indicate that naturally occurring arsenic is present in the soil at concentrations higher than the current EPA Region IX, May 1, 1998 arsenic Preliminary Remediation Goals (PRGs) of 0.38 mg/kg (residential) and 3.0 mg/kg (industrial) (EPA, 1998). When natural background concentrations of compounds of concern are higher than the PRGs, the appropriate clean-up goal is the local background concentration. The local background arsenic concentration was estimated following CAL/EPA DTSC and US EPA methodology and guidelines. A detailed analysis of the methods used to estimate the background arsenic concentration is presented in Appendix E, and is summarized below.

Background soil samples are variable and typically reflect a range of values. The CAL/EPA DTSC Final Policy report entitled *"Selecting Inorganic Constituents as Chemicals of Potential Concern at Risk Assessments at Hazardous Waste Sites and Permitted Facilities"* (DTSC, 1997) states that it is appropriate to choose the upper end of the background, or ambient data set distribution. The data set used to estimate the background arsenic concentration consisted of 21 offsite soil samples (see Sections 3.2.6 and 3.3.8).

Two estimators of the upper end of the background data set distribution were used:

1. The 95% UCL on the 95<sup>th</sup> percentile;
2. The non-parametric 95<sup>th</sup> quantile.



The 95% UCL on the 95<sup>th</sup> percentile of the background data set, based on a normal distribution is 17 mg/kg. The 95% UCL on the 95<sup>th</sup> percentile based on a lognormal distribution is 22 mg/kg. (As shown in Appendix E, the data set exhibits both a marginally normal and lognormal distribution).

The 95<sup>th</sup> quantile of the background data set is 18.26 mg/kg (the calculations for determining the 95<sup>th</sup> quantile are described in detail in Appendix E). This value corresponds with the range of concentrations determined by the 95<sup>th</sup> UCL on the 95<sup>th</sup> percentile of 17 to 22 mg/kg, presented above. These values represent the upper range of ambient, or background arsenic concentrations in Watsonville, within 1 mile of the Cal Spray site.

**Based on these estimates, an appropriate and conservative background arsenic concentration for the Cal Spray site is 18 mg/kg.**

This background concentration is similar to other Northern California arsenic background concentrations and cleanup goals. For example, the DTSC-approved background arsenic concentration for the Cal-Trans Cypress Freeway Corridor was 19 mg/kg. Also, the BART/SFO Extension has a Regional Water Quality Control Board (RWQCB) approved unrestricted reuse criteria for arsenic in soil of 19 mg/kg.

Lead ambient concentration calculations to establish a background level were not performed because the cleanup criteria for lead is based on blood level calculation as reflected in the EPA residential PRG of 400 mg/kg, with no point to exceed 840 mg/kg. However, literature values indicate the concentration of naturally occurring lead in California range from 12.4 mg/kg up to 97.1 mg/kg (Bradford et al., 1996).

### 3.3.10 Well Survey

A well survey was conducted to identify all recorded domestic, municipal, irrigation, and other wells within ½-mile of the site. There are three City of Watsonville water supply wells within a 0.5-mile radius of the site: Wells #7, #10, and #15 at locations shown on Figure 13. These wells are all screened in the basal unit of the alluvial aquifer, between 100 and 150 feet bgs. The average monthly production rate for each of these wells during 1997 was approximately 30 million gallons.

### 3.3.11 Deviations from Work Plan

The following deviations from the SI work plan occurred during implementation of the SI field work:

- All groundwater samples were filtered by the analytical laboratory instead of in the field. The laboratory filtered all samples immediately upon receipt of the samples.
- Groundwater parameters of temperature, pH, specific conductivity, and dissolved oxygen were not measure in the field prior to sampling. Reason: These parameters are normally measured when purging and sampling a monitoring well to ensure that samples collected from a well are representative of the groundwater. Purging removes the 'stagnant' or standing water from the screened zone of a permanent monitoring well. The groundwater samples at the Cal Spray site were collected immediately after installing temporary well casings, thus all groundwater collected was from the aquifer formation and had no time to 'stagnate'.



- The groundwater sample from CH26 was collected from the tip of the soil sampling tool. Reason: this boring experienced flowing sands during the attempt to place the temporary well casing. A groundwater sample was unable to be collected from the PVC well casing. Upon retrieving the sampling tools, it was apparent that sufficient water was available for one groundwater sample for arsenic and lead, thus it was collected. Other parameters slated for this sample (VOCs) were not analyzed due to lack of sample.
- A groundwater sample was collected from CH25, which was not specified in the work plan. Reason: Because the groundwater sample from CH26 was suspect and because DTSC was unable to collect a split sample from CH26, it was agreed upon by CH2M HILL and DTSC that an additional groundwater sample be collected from CH25, which is approximately 80 feet downgradient from CH26.
- Boring CH31 (inside of existing Area 1 building) was not completed. Reason: Drilling refusal occurred as a result of a concrete foundation encountered beneath the existing building foundation.

### 3.4 Conclusions

The results of the SI combined with those from previous investigations have indicated that lead and arsenic in soil are the only constituents of potential concern at the Cal Spray site. Groundwater is not adversely impacted by Cal Spray residues. An evaluation of the analytical data collected during the field investigations (combined with a calculated background arsenic concentration of 18 mg/kg) indicates that the horizontal extent of arsenic- and lead-impacted soil at the Cal Spray site is limited to Area 1, the northern half of Area 2, the southern corner of Area 3, and southern and northern portions of Area 4. The vertical extent of impacted soil is limited to the shallow soil and fill overlaying the native silty clay soil. With the exception of limited areas on Area 1 and Area 2, arsenic- and lead-impacted soil is found at maximum depths of 5 to 6 feet below grade.

It is recognized that a few site samples slightly exceed the 18 mg/kg background arsenic concentration. The samples that slightly exceed 18 mg/kg and their locations are as follows:

- **P3 (0.5 – 1 ft bgs) 19.3 mg/kg** – Collected from beneath the asphalt-covered parking area in southwest portion of Area 3
- **P9 (0.5 – 1 ft bgs) 21.2 mg/kg** - Collected from beneath the asphalt-covered parking area in southeast portion of Area 3
- **P11 (2.5 - 3 ft bgs) 26/21/22 mg/kg** (original/duplicate sample/re-analyzed original sample) – Collected from beneath the concrete slab, beneath the existing building on Area 3
- **S2 (0.0-0.5 ft bgs) 21 mg/kg** – Collected from beneath asphalt-covered parking area of the property adjacent to Area 4 (236 Locust Street)

These concentrations exceed the proposed arsenic background concentration, however, they are still within the potential range of arsenic background concentration. The background data set 95<sup>th</sup> UCL on the 95<sup>th</sup> percentile tolerance interval is 22 mg/kg, based on a lognormal distribution (see Section 3.3.9 and Appendix E for details).



Further, as discussed in detail in Appendix E:

- The relative percent differences (RPDs) between arsenic duplicate samples and original samples were calculated to provide a measure of laboratory accuracy in quantifying the amount of arsenic present in soil. The arsenic concentrations detected in the four samples of concern are close enough to the background arsenic concentration of 18 mg/kg that they are within the range of analytical uncertainty of extracting and quantifying arsenic in soil
- The data set populations of Area 3 and the property adjacent to Area 4 were compared to the background data set population. The population to population comparison indicated there are no statistically significant differences between the data sets

These results indicate the areas represented by soil samples P3, P9, P11, and S2 are within the potential range of arsenic background concentration and do not appear to be adversely impacted by Cal Spray site residues. These areas do not warrant removal or institutional controls.

Lead was detected at elevated concentrations in numerous surface soil samples collected from Areas 1, 2, and 4. The analytical results from the surface soil samples from borings CH35, M3, M5, M6, Z1, Z2, Z9, Z13, and Z11 do not match the pattern exhibited by soil samples collected in areas impacted from historic Cal Spray activities. Specifically, these soil samples contained lead at elevated concentrations but did not contain elevated concentrations of arsenic. All other soil samples associated with Cal Spray site residues contain elevated concentrations of both lead and arsenic. If the source of the lead at these locations was from the Cal Spray site, and the lead was transported by grading operations or historic flood waters, then these samples would also contain elevated concentrations of arsenic.

None of the samples in question above exceed the lead cleanup criteria. However, the potential source of the lead was evaluated. Elevated concentrations of lead in surface soil may be caused by many environmental factors. The source of elevated lead in the surface soil samples from Area 2 and Area 4 (M3, M4, and M5; and Z1, Z2, Z9, Z13, and Z11) may be attributed to lead-based paint from the houses located on the properties at or near the same locations where these soil samples were collected. Records show houses were present on these properties from at least 1920. The house on Area 2 was demolished in 1989, after being damaged beyond repair by the Loma Prieta earthquake; the house located on Area 4 is still present. Soil contamination from lead-based house paint is a common occurrence, particularly from older homes. The following information substantiates this conclusion:

“Lead was widely used as a major ingredient in most interior and exterior oil-based paints prior to 1950. Lead compounds continued to be used as corrosion inhibitors, pigments, and drying agents from the early 1950's. In 1972, the Consumer Products Safety Commission limited lead content in new residential paint to 0.5% (5,000 mg/kg) and, in 1978, to 0.06% (600 mg/kg). The Department of Housing and Urban Development (HUD) estimates that three-quarters of pre-1980 housing contain some lead-based paint. The occurrence, extent and concentration of lead-based paint increase with the age of the housing. Ninety percent of privately-owned housing units built before 1940 contain some lead-based paint; 80% of 1940-1959 units; and 62% of 1960-1979 units.” (Comprehensible and Workable Plan for the Abatement of



Lead-Based Paint in Privately-Owned Housing: A Report to Congress, U.S. Department of Housing and Urban Development, Washington, DC, December 7, 1990).

"Common sources of lead in residential soil include deteriorating exterior lead-based paint and historical airborne deposition onto the soil surface as the result of point source emissions or leaded gasoline. These sources have added substantially to the naturally occurring lead in soils, which generally range from 5 - 50 parts per million (mg/kg)." (U.S. Environmental Protection Agency (1989) Review of the National Ambient Air Quality Standards for Lead: Exposure Analysis Methodology and Validation. U.S. EPA Office of Air Quality Planning and Standards, RTP, NC. EPA-450/2-89/011).

The report "*A Survey of Lead Contamination in Soil Along Interstate 880, Alameda County, California*", published in the American Industrial Hygiene Association Journal, September, 1993, concludes that likely urban sources of lead include gasoline emissions and leaded paint from the exterior of homes. This report suggests that samples should be taken more than 20 feet away from homes to eliminate the possibility of lead-based paint contamination. (Note: All of the samples in question from Area 2 and Area 4 (M3, M4, and M5; and Z1, Z2, Z9, Z13, and Z11), were taken within 20 feet of the location of the homes on those properties).

The surface soil sample from boring CH35 also contained elevated lead with a below background concentration of arsenic. Boring CH35 was collected 10 feet away from Highway 129 (Riverside Drive) from the dirt planter area between the sidewalk and the Cal Spray property fence. Highway 129 is a state highway built in the 1960's with a high traffic volume. Therefore, the source of lead from these samples may be attributed to vehicle emissions.

VOCs, arsenic, and lead were detected in grab groundwater samples collected from the Cal Spray site. One out of the nine groundwater samples analyzed for VOCs, contained VOCs (which were not used during the period of pesticide manufacturing). Arsenic and lead were detected in four out of twelve grab groundwater samples from the sites; however, only one sample contained lead above the action limit. Arsenic was not detected above the MCL concentration in any of the groundwater samples. The data from all four samples are considered suspect due to the turbid nature of the groundwater samples collected. Additional groundwater samples were collected to confirm the presence of lead in groundwater beneath the site. The subsequent groundwater samples indicate that lead is not present in the groundwater beneath the site.



# Conceptual Site Model

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## 4.1 Conceptual Site Model

Data from previous site investigations (Section 2) and the SI (Section 3) were used to develop a conceptual site model that identifies the nature and extent of Cal Spray residues, potential exposure pathways, and potential receptors that may be impacted. This information is used to determine the applicability of risk-based clean-up criteria.

### 4.1.1 Nature and Extent of Cal Spray Residues

As previously discussed, the Cal Spray site has been separated into four areas designated Area 1, Area 2, Area 3, and Area 4. The historical location of the Cal Spray operations is located at 135 Walker Street (Area 1). Areas 2 and 3 coincide with two parcels adjacent to the 135 Walker Street property. Area 4 is adjacent to Areas 2 and 3.

Cal Spray produced lead arsenate insecticide spray from 1908 through 1929 to control insects on fruit trees. Lead arsenate was the only insecticide that controlled the codling moth in apple orchards and was considered a good product because of its low solubility (retention as a dust on leaves and soils), low phytotoxicity, and strong control on insect populations (Eisler, 1994, and Adriano, 1986). It is a strong residual pesticide because both lead and arsenic are not readily solubilized from this compound (Handbook of Chemistry and Physics). Lead arsenate breaks down very slowly with an approximate half-life (time for half of the concentration to disperse) of 16 years (Eisler, 1994) compared to days for organic arsenic and organophosphate compounds. Lead arsenate is still being used today to protect orchards from chewing insects.

Residues from historical manufacturing activities currently exist in soil. The chemicals of potential concern (COPCs) are arsenic and lead, and they appear to be limited primarily to the shallow soil (fill) between 0 and 6 feet bgs. Arsenic and lead have been detected in soil at concentrations up to 21,000 and 11,300 mg/kg, respectively. High concentrations of arsenic and lead are found in the western portion of Area 1 near the former retort and furnaces (see Figure 14). In this area, arsenic is found at concentrations above the established background concentration of 18 mg/kg at depths of up to 10 feet bgs. Concentrations of arsenic and/or lead exceeding background concentration and/or cleanup criteria are also found in the shallow fill soil in the southeastern portion of Area 1, near borings CH1, CH17, CH18, and CH19. This area does not correspond with former site facilities, and elevated levels of arsenic and lead in this area are likely the result of grading and fill operations that took place in the 1950's, and again later in the 1970's. The site has been paved with asphalt since the 1950s. The northeast portion of Area 1, defined by borings CH20, CH27, CH28, and CH29, is not impacted by Cal Spray residues. Elevated levels of TRPH (up to 3,440 mg/kg in CH20) were detected in borings CH19, CH20 and CH27 at depths of 8 to 10 feet bgs.



A pattern exists in the distribution of elevated arsenic and lead at the Cal Spray site. Most samples containing elevated levels of lead (greater than 1,000 mg/kg) also contain arsenic at elevated levels (greater than 500 mg/kg). The reverse, however, is not true. For example, 14 soil samples with elevated arsenic levels contained lead at lower concentrations (see Table 2).

Arsenic and lead were detected at elevated levels in shallow soil on the three adjacent properties towards the west: Areas 2, 3, and 4. The highest concentrations of arsenic and lead in soil were detected immediately adjacent to the property boundary with the former Cal Spray site (see Figure 15). The concentrations in soil decrease with distance away from the Cal Spray site.

Arsenic and lead were detected in Area 2 soil at concentrations of up to 1,790 and 1,320 mg/kg, respectively. The extent of elevated concentrations of arsenic appears to be limited to the northern half of the property, northeast of boring M3 (see Figure 15). Soil samples from borings M3, M5, and M6, located adjacent to Locust Street, indicate the southern portion of the property is not impacted by Cal Spray residues. Lead is present at levels exceeding cleanup criteria in only three samples (two from M10 and one from HA3).

Arsenic and lead were detected in Area 3 soil at concentrations of up to 4,740 and 310 mg/kg, respectively. The extent of arsenic and lead on Area 3 is limited to the northeastern and southeastern portions of the property as defined by borings P2, and P4 through P7 (see Figure 15). Arsenic was detected at elevated levels in borings P2, P4, P5, P6, and P7.

Arsenic and lead were detected in Area 4 soil at concentrations of up to 2,810 and 982 mg/kg, respectively. The extent of arsenic and lead on Area 4 is limited to the area north of boring Z9 (see Figure 15), with two minor exceedances of arsenic in Z1 and Z13. The original analysis for lead in soil sample Z7 (0-0.5 feet bgs) was 3,010 mg/kg, however it is believed that this result may be inaccurate. This concentration is approximately a factor of ten higher than that detected in all surrounding samples. The sample was subsequently reanalyzed, with a resulting concentration of 307 mg/kg.

The residues detected on these adjacent properties (Areas 2, 3, and 4) were most likely transported from the Cal Spray site by wind, storm water runoff, and flooding. Flooding of the Watsonville area was common prior to 1930. Levees built along the Pajaro River around 1930 prevented the river from flooding during most storm events after 1930. Additional protection from flooding resulted when the Army Corps of Engineers levee system was completed in 1949. Watsonville has not been extensively flooded since 1938. Research on this issue confirms major floods occurred in March 1911; January 1914; February 1917; and February 1938. The information acquired from historic accounts indicates that these floods were severe enough to cover the area of the site with floodwaters. A report entitled *Flooding and South Watsonville, 1909-1950*, by Sandy Lydon, Professor of History at Cabrillo College (August, 1998) documents the flooding events of the Watsonville area and is included as Appendix D.

Groundwater beneath the Cal Spray site is not impacted by arsenic and lead. One groundwater sample from boring CH23 did contain lead at 46 µg/L (greater than the lead action limit of 15 µg/L); however this result is probably due to an extremely turbid grab groundwater sample. Groundwater from this area was re-sampled and did not contain



detectable concentrations of lead. Arsenic and lead were detected in grab groundwater samples from two other locations; however, the concentrations were below the arsenic MCL and the lead action level. One VOC (1,2-dichloroethane) was detected once in one of 9 groundwater samples at a concentration above the MCL. The source of this compound is unknown, although it is unlikely that the source was from original Cal Spray manufacturing activities as VOCs were not used during Cal Spray operations.

#### **4.1.2 Site Stratigraphy**

Area 1 and Area 2 are covered with asphalt pavement. The site stratigraphy is characterized by 4 to 6 feet of surficial fill underlain by up to 30 feet of clay. The fill material is composed primarily of sandy silt, and in some cases, inert debris such as wood and brick fragments. Below the fill layer is a dense, organic rich blue-gray to black clay that varies in thickness from 2 to 6 feet. This organic rich clay has a very strong hydrogen sulfide ( $\text{H}_2\text{S}$ ) odor, indicating sulfide-reducing conditions. Underlying the black clay is a 5- to 10-foot thick layer of soft to firm silty clay. Several borings encountered perched groundwater at depths as shallow as 12 feet bgs, however, the depth of the water table beneath the site varies from approximately 20 to 30 feet below ground surface.

A 5 to 20-foot thick layer of sand and sandy gravel is found below the clay under the northern portion of Area 1 and beneath Area 3. This sandy layer is absent from borings installed in the southern portion of the site. The cross-sections shown in Figures 6 through 9 present a detailed interpretation of the site stratigraphy.

#### **4.1.3 Fate and Transport Properties of Arsenic and Lead**

Both lead and arsenic have a very limited mobility in soil and subsurface environments. Further, lead arsenate produced by Cal Spray was especially formulated to have a low solubility. The concentrations of arsenic and lead detected in the shallow soil at the Cal Spray site, coupled with the absence of arsenic and lead in deeper soil samples, are evidence of the low solubility of lead arsenate and the limited mobility of arsenic and lead. The behavior of arsenic and lead under the various environmental conditions encountered at the site is discussed below. Table 10 presents the soil geochemical data collected from four soil samples during the November 1998 sampling event.

#### **OXIDIZING CONDITIONS**

Oxidizing conditions are present in the soil and sediments comprising the fill material to at least a depth of 10 feet as evidenced by:

- The measured redox potential ranges from +350 to +470 mV (Table 10); a typical range for an oxidized soil under atmospheric oxygen conditions (oxidizing conditions are defined by redox potential between +100 to +500 millivolts [mV]);
- Sulfate is the major ion in all four samples, ranging from 57 to 730 mg/kg, while sulfide is present at much lower concentrations (10 and 46 mg/kg) in two of four samples and not detected in the other two samples. If the fill material was under reducing conditions (-100 mV or lower), sulfate would be less than 20 mg/kg and sulfide would be the dominant ion.



The dominance of sulfate, low to neutral pH, and high iron (Table 10), and the presence of both sulfide and hydrogen sulfide (hydrogen sulfide odors were detected in soil during sampling activities) also suggest that:

1. the sulfate is probably generated by the oxidation of iron sulfide; and
2. there is little water moving through the fill and sediments. Sulfate is likely present as either calcium sulfate (gypsum) or iron sulfate (jarosite), both of which are quite soluble. Any water movement through the fill must be minimal for the sulfate to still be present.

Furthermore, as it has been over 60 years since lead arsenate was processed at the site, the elevated nature of the arsenic, coupled with the absence of arsenic in deeper soil samples, indicates there has been little arsenic movement at the site. This further supports the assumption that there is little water movement through the fill and, particularly through the clay. Because the site has been covered with an asphalt cover since the early 1950's, infiltration of water into the fill has been significantly reduced.

Oxidizing conditions in the fill material will greatly limit the mobility of both arsenic and lead. Both elements are strongly adsorbed by iron oxyhydroxide; the ubiquitous yellow to yellow-brown and brown compound that colors soils and sediments under oxidizing conditions (EPA, 1997, Mok and Wai, 1994, Prasad, 1994 and Adriano, 1986). Iron is present in site soil at concentrations ranging from 1.6 to 2.0 percent (16,000 to 20,000 mg/kg) in the fill and clay (Table 10), indicating an abundance of available adsorption media to adsorb, and thus immobilize, both arsenic and lead.

Arsenic and lead are also both absorbed/adsorbed by organic matter coating aquifer particles. This coating is composed of manganese oxyhydroxides (black coloration) and aluminum oxyhydroxides (clays on the soil and sediment particles). Organic matter, particularly humic acid, is second only to iron oxyhydroxide in the ability to absorb arsenic. This is of particular importance because total organic carbon (TOC) is detected at high concentrations in both the fill (1,100 to 1,800 mg/kg) and the clay (510 to 520 mg/kg). Manganese and aluminum oxyhydroxides adsorb at a lower rate than either iron oxyhydroxide or organic matter. Manganese is present at concentrations ranging from 95 to 560 mg/kg.

Under oxidizing conditions, arsenic is present as arsenate, the oxidized, pentavalent state of arsenic; the least soluble, least mobile, and least toxic form of arsenic. Arsenate is a negatively charged ion, occurring as  $\text{H}_2\text{AsO}_4^-$  and  $\text{HAsO}_4^{2-}$ , and these species are likely present in the oxidized fill soil of the site. These ions are rapidly adsorbed (within minutes) to iron oxyhydroxide (Prasad, 1994 and Mok and Wai, 1994).

Under oxidizing conditions, lead will be strongly adsorbed to iron oxyhydroxide as well. Lead also forms a carbonate mineral that significantly controls its solubility and mobility. Carbon dioxide created in the soil by microbial activity reacts with water to form dissolved carbonate above a pH of about 4.5. Lead forms a lead carbonate mineral (cerussite) which is extremely insoluble, thus immobile. Cerussite commonly controls the lead concentration to less than about 10 µg/L in oxidized soil, and reduced soil and sediment of wetlands.

Iron oxyhydroxide will become partially dissolved where the pH is as low as 4.2 (as measured in CH38 at 4 feet bgs) but this dissolution will be controlled to less than 5.6 mg/l



by the high redox potential of 470 mV. The reason for this relatively lower pH value may be due to the oxidation of iron sulfide in the organic-rich clay. The oxidation of this clay beneath the fill produces a very strong hydrogen sulfide odor (as observed during drilling activities at the site) typical of the oxidation of fine-grained iron sulfide. In addition to the hydrogen sulfide, this oxidation forms an iron oxyhydroxide precipitate and sulfuric acid. The iron oxyhydroxide precipitate forms a fresh adsorption site for arsenic and lead. The sulfuric acid is usually neutralized by the dissolution of clays and other minerals in the immediate vicinity of the oxidizing sulfide, becoming dissolved sulfate ion.

### **MILDLY OXIDIZING TO MILDLY REDUCING CONDITIONS**

Mildly oxidizing to mildly reducing conditions (+100 to -100 mV) could be present immediately above or below the black, iron sulfide-rich and organic-rich clay encountered beneath the fill layer. Under mildly reducing conditions and low pH, iron oxyhydroxide can have a higher degree of dissolution. Dissolution of the iron oxyhydroxide may in turn disassociate the adsorbed lead and arsenic. However, in the oxidizing environment of the unsaturated zone that contains the elevated arsenic and lead at the site, the iron will reprecipitate within a very small transport distance, forming a fresh adsorption site for both arsenic and lead. There is sufficient iron and organic matter in both the fill and the clay that both lead and arsenic adsorption should be complete and irreversible within a very short transport distance (less than a few feet) into the surrounding oxidizing conditions. This is particularly true with the minimal water infiltration observed in the vadose zone.

### **REDUCING CONDITIONS**

Reducing conditions (zero to negative mV redox potential) likely exist within the black, organic-rich and iron sulfide rich clay. Arsenic, if present, will be in its trivalent, reduced form (As III) and probably exists as an arsenic sulfide, since arsenic has a very high affinity for sulfide. Arsenic sulfides are low-solubility, stable solids. Under reducing conditions, pH rises and sufficient carbonate (particularly in this organic-rich clay) is available for the precipitation of lead carbonate (cerussite) to limit lead concentrations to less than 10 micrograms per liter. Thus, any movement of either arsenic or lead from the fill into the clay should result in arsenic precipitation as a sulfide (Schaufelberger, 1994, and Wok and Wai, 1994) and lead precipitation as lead carbonate, effectively immobilizing both arsenic and lead.

### **POTENTIAL IMPACT TO GROUNDWATER**

In the unlikely case that there was a significant amount of water infiltrating through the asphalt pavement at the site, and the clay underlying the fill material contained numerous fractures, it may be possible for arsenic and lead to be transported downward through the fractures to the shallow water table aquifer. The clay adjacent to any fracture would rapidly become oxidized, releasing both carbon dioxide and most likely iron, sulfate, and arsenic, but little lead, since the lead would be precipitated as a lead carbonate. In the oxidized conditions of the unsaturated and saturated zones, the iron would precipitate as iron oxyhydroxide, forming an adsorbing media for the arsenic. Because the alluvial aquifer beneath the site contains an abundance iron oxyhydroxides, any arsenic and lead that are able to reach the top of the aquifer would be readily adsorbed, and would not be transported beyond the site boundary.



#### 4.1.4 Conclusion

The vertical distribution of arsenic and lead in soil, the analytical results from numerous grab groundwater samples, and the geochemical conditions encountered in soil beneath the site support the following conclusions:

- elevated levels of arsenic and lead are present in the shallow fill material, and are not present in the underlying deeper, native soil;
- groundwater is not impacted by arsenic or lead;
- arsenic and lead at the Cal Spray site are essentially immobile under the geochemical conditions encountered in the soil beneath the site. Furthermore, any future migration potential of arsenic and lead will be extremely limited due to the continued presence of an asphalt cap covering the site reducing infiltration.



## Feasibility Study

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This section describes the development and evaluation of remedial alternatives to manage the elevated concentrations of arsenic and lead found in soil at the Cal Spray site. The development and evaluation process includes: 1) establishing remedial action objectives and goals; 2) identifying remedial action alternatives; 3) evaluating remedial action alternatives; and 4) recommending an alternative for implementation. Each of these steps is discussed in the following subsections.

This Feasibility Study (FS) is based upon data collected during the site investigations conducted to date (as described in Sections 2 and 3) and the conceptual site model described in Section 4.

### 5.1 Remedial Action Objectives and Goals

The remedial objectives of the Cal Spray RI/FS are management of soil containing arsenic and lead at concentrations exceeding designated cleanup criteria. The remedial goals are to minimize future direct exposure to elevated levels of arsenic and lead found in site soil.

DTSC will consider the use of current EPA Region IX, May 1, 1998 Preliminary Remediation Goals (PRGs) to determine the cleanup levels in soil on a site-specific basis. These values reflect the most current EPA toxicological and risk assessment information for the most common exposure pathways (ingestion, dermal contact, and inhalation) applicable to this site. The appropriateness of using the PRGs as remediation goals is determined by DTSC on a site-specific basis.

The arsenic PRG is 0.38 mg/kg for residential soil, and 3.0 mg/kg for industrial soil. The PRGs are based on site-wide average concentrations. Because the site background concentration of arsenic in soil is higher than the PRGs, a more appropriate clean up goal for arsenic is the local background concentration of 18 mg/kg, as determined in Section 3.3.9.

The lead PRG is 400 mg/kg for residential soil, and 1000 mg/kg for industrial soil. DTSC has indicated that an appropriate residential lead cleanup level is a site-wide lead average of 400 mg/kg, with no point to exceed 840 mg/kg (as discussed in the April 21, 1998 meeting at DTSC offices in Berkeley, California).

Thus, the soil cleanup criteria for the Cal Spray site are as follows:

- Arsenic concentrations found to exceed 18 mg/kg during remediation, as determined by side-wall and bottom confirmation sampling, shall be remediated and handled in accordance to methods outlined in this report.
- Lead concentrations above a site-wide average of 400 mg/kg, with no single point to exceed 840 mg/kg.



## 5.2 Identification of Soil Remedial Action Alternatives

This section identifies various remedial technologies and remedial action alternatives for the Cal Spray site. Applicable remedial technologies selected for the site include institutional controls, excavation and consolidation or offsite disposal, containment via capping, and stabilization. These technologies are described in detail below. Groundwater remedial actions are not addressed in this feasibility study because the groundwater at the site is not impacted by previous site activities.

### 5.2.1 Technologies

**Institutional Controls.** The implementation of institutional controls serves to reduce the potential for future possible exposure by restricting site access and limiting future land use. These controls will be required for those alternatives that do not completely remediate the site to meet cleanup criteria. Institutional controls may include access controls, a deed restriction and/or a deed notice, or asphalt or concrete pavement.

The installation of clean utility corridors are required for all alternatives that do not completely remediate the site to meet cleanup criteria.

**Excavation, consolidation, and disposal.** Soil excavation involves physically removing soil containing elevated levels of arsenic and lead. The size and type of equipment and construction techniques selected to remove the soil are determined by the physical characteristics of the materials being excavated, the depth of the excavation, the location of excavations with respect to permanent structures, and the usable space for stockpiling excavated soil. After excavation, the soil is consolidated onsite, or treated and/or disposed of offsite, or a combination of the two. Confirmation samples will be collected from the bottom and side-walls of all excavations. Arsenic concentrations exceeding 18 mg/kg during remediation shall be removed.

Due to site size limitations and the relatively small volume of soil being considered for remediation, consolidation of soil and offsite disposal are the preferred technologies for final management of the soil. Soil excavated from one area of the site may be consolidated onto other areas of the site that will be capped.

Excavated soil slated for offsite disposal is usually stockpiled, then sampled to determine waste classification; however, in situ waste characterization may also be possible. Results of waste characterization sampling determines where excavated soil will be disposed. Soil can be classified as either non-hazardous, California-only hazardous, or RCRA hazardous. Soil characterized as non-hazardous will be disposed of in an offsite California Class II landfill. Soil characterized as California-only hazardous or RCRA hazardous will be disposed of in an offsite California Class I (RCRA Subtitle C) landfill. As required by federal regulations, all RCRA hazardous soil will be pre-treated by stabilization at the Class I landfill facility prior to placement within the landfill.

**Containment.** A single barrier asphalt cap will reduce rainfall infiltration and prevent direct exposure to the shallow soil. Cap maintenance consists of an annual inspection and report, and occasional repair of cracks. The asphalt cap is engineered to withstand heavy truck traffic and can be designed to overlay the existing asphalt pavement at the site.



**Stabilization.** The soil stabilization process involves mixing the soil with reagents to chemically maintain the COPCs in their most immobile or least toxic form. The goal in stabilization is to reduce the solubility or chemical reactivity of the waste. Both in situ and ex situ stabilization are presented as alternatives. Stabilization is not a preferred remedial technology for this site, because all impacted soil remains onsite, and stabilization is costly. This technology is included in the feasibility study for comparison purposes.

## 5.2.2 Remedial Action Alternatives

### Area 1

Potential remedial action alternatives are summarized below and presented on Table 10. A detailed description of each alternative, including the areas and volume of soil removed, is presented in Appendix G. The alternatives for Area 1 are as follows:

- Alternative 1, "No further action," is the baseline case. No remedial actions are proposed for this alternative. This alternative will require a deed restriction and the installation of clean utility corridors.
- Alternative 2 consists of construction of an engineered asphalt cap over the entire site, except north and southeast of the tire store where soil data indicate these areas were not impacted by Cal Spray residues. This alternative will require a deed restriction, the installation of clean utility corridors, and operation and maintenance (O&M) of the asphalt cap.
- Alternative 3 consists of excavation of hot spot areas (areas with highly elevated concentrations of arsenic and lead), and construction of an engineered asphalt cap over the entire site, except north and southeast of the tire store. This alternative will require a deed restriction, the installation of clean utility corridors, and operation and maintenance (O&M) of the asphalt cap.
- Alternative 4 consists of excavation of hot spot areas, and the top two feet of soil where shallow soil data (0 to 2 feet bgs) indicates arsenic and lead levels in soil exceed the clean up criteria. The entire site will be covered with an asphalt cap, except north and southeast of the tire store. This alternative will require a deed restriction and operation, the installation of clean utility corridors, and maintenance (O&M) of the asphalt cap.
- Alternative 5 is similar to Alternative 4, except it does not include excavation of hot spot areas. Instead, only the top 2 feet of soil will be excavated from areas containing arsenic and lead at levels exceeding clean-up criteria. The entire site will be covered with an asphalt cap, except north and southeast of the tire store. This alternative will require a deed restriction, the installation of clean utility corridors, and operation and maintenance (O&M) of the asphalt cap.
- Alternative 6 excavates all soil containing arsenic and lead at levels exceeding clean-up criteria. The site will be backfilled and repaved with asphalt to restore the site to its original condition.
- Alternative 7 includes in-situ stabilization of all soil containing arsenic and lead at levels exceeding clean-up criteria. The entire site will be covered with an asphalt cap following



stabilization, except north and southeast of the tire store. This alternative will require a deed restriction, the installation of clean utility corridors, and operation and maintenance (O&M) of the asphalt cap.

- Alternative 8 includes ex-situ stabilization of all soil containing arsenic and lead at levels exceeding clean-up criteria. The entire site will be covered with an asphalt cap, except north and southeast of the tire store. This alternative will require a deed restriction, the installation of clean utility corridors, and operation and maintenance (O&M) of the asphalt cap.

### **Hot spot definition.**

Areas designated as “hot-spots” are those areas that contain arsenic and/or lead at highly elevated concentrations. The hot spots are defined by area and depth, and are based on the results of the RI soil sampling results. Area 1 was divided into polygons using the Theissen Method, which is an un-biased method of dividing the site by connecting the perpendicular bisectors of imaginary lines drawn between each soil boring. One boring is located within each polygon, and the concentration of each soil sample from that boring is assumed to be the same value for that depth over the entire polygon. Figures within Appendix G associated with each alternative define the hot spot areas for Alternatives 3 and 4.

### **Areas 2, 3, and 4.**

The remedial alternatives for Areas 2, 3 and 4 will entail excavation and offsite disposal of all material exceeding the cleanup criteria, then restoration of each of the properties to their original conditions. The areas of excavation for these properties are shown in detail in Appendix G. The estimated site-wide average concentrations of arsenic and lead (based on the 95<sup>th</sup> UCL) remaining in soil on these properties after remediation are below the cleanup criteria, and are presented in the ‘Basis for Costing’ sheets, also included in Appendix G. Other remedial alternatives for these areas were not considered for the following reasons:

- The volume of material exceeding cleanup criteria on Area 3 is limited. Complete removal of this material would be expeditious, easily implemented and would avoid the requirement of a deed restriction on this property.
- The properties comprising Areas 2 and 4 are zoned residential; therefore complete cleanup to residential standards is required by DTSC.

Implementation of the remedial action for Area 2 will be difficult because the existing building on the site will have to be moved, or demolished and rebuilt, since impacted material is likely beneath the building. Area 2 may be re-zoned from residential to commercial use. The clean-up requirements for this parcel would then change from residential standards to industrial standards. If Area 2 is re-zoned to commercial, then the recommended alternative for this property is to leave impacted material onsite, cover the site with an asphalt or concrete cap, and institute a deed restriction. This option would also allow the building to remain intact, and would allow some of the soil excavated from Area 3 and/or Area 4 to be consolidated onto Area 2.



## 5.3 Evaluation of Remedial Action Alternatives

Potential remedial alternatives for Area 1 were formulated using the technologies discussed in the previous section. These alternatives were evaluated based on their effectiveness, implementability, cost. The result of this evaluation is discussed herein. The ability for each alternative to comply with Applicable or Relevant and Appropriate Regulations (ARARs) is presented in Appendix F to this report.

### 5.3.1 Effectiveness

Effectiveness is a measure of how well an alternative protects human health and the environment. Each alternative is evaluated as to its effectiveness in reducing toxicity, mobility, or volume of wastes. Both short- and long-term components of effectiveness are evaluated. 'Short term' refers to the period of time during implementation of the remedial action, and 'long-term' refers to the period after remediation is complete. The effectiveness of the different alternatives for Area 1 is discussed below.

Alternatives 6 and 8 would have the highest relative short-term risk associated with construction and implementation of the remedial action, because the excavation volume is greatest (thus a greater potential exists for worker exposure to site soil). However, Alternatives 3, 4, and 5 all involve soil excavation; therefore, the potential for worker exposure is also present with these alternatives. Alternatives 1, 2, and 7 would have no significant short-term risk since no soil is excavated.

The long-term effectiveness with respect to protection of human health is equal for all of the alternatives (except Alternative 1). Alternatives 2 through 8, excluding Alternative 6, would provide an asphalt cap; thus, an exposure pathway would not exist. In order to have a risk, an exposure pathway must be present. Therefore, the long-term human health risks for all of the alternatives (except Alternative 1) are negligible.

Implementation of any of the alternatives (except Alternative 1), reduces the sitewide human health risks to an acceptable level for carcinogens (of  $10^{-4}$  to  $10^{-6}$ ), and to an acceptable level for non-carcinogens (hazard index at 1.0). For arsenic, risks will be based on the background concentration level. Risk reduction for Alternative 6 is achieved by removing all soil above background concentrations (removal of all soil in exceedence of the arsenic cleanup criteria also removes all elevated levels of lead). Risk reduction for all other alternatives (except Alternative 1) is achieved due to the incomplete exposure pathway to impacted soil due an asphalt cap covering all of the impacted soil at the site. A cap will also greatly reduce the amount of infiltration of precipitation into the site soils, thus further inhibiting the migration potential of arsenic and lead remaining in the soil.

In the event of disturbance of the cap (e.g., unforeseen construction at the site), an exposure pathway may be created. In this case, Alternatives 4, 5, and 6 are the most effective at preventing exposure to impacted soil since the top two feet of soil across the site containing arsenic and lead at levels exceeding cleanup criteria will be removed. The resulting risks for these alternatives will be lower than for the other alternatives, assuming the breach does not exceed a depth of 2 feet bgs.



Alternatives 1 and 2 have the least long-term effectiveness since most of the impacted material remains onsite. Alternative 1 is the least effective, since it does not improve the existing asphalt pavement at the site. Alternatives 7 and 8 are effective at reducing the mobility and toxicity of the arsenic and lead, and eliminating the exposure pathway; however, the volume of impacted soil is not reduced or removed from the site. Alternatives 3, 4, and 5 are equal at eliminating the exposure pathway; however, Alternatives 4 and 5 are more effective at reducing the potential for future exposure should the asphalt be disturbed. Alternative 6 is most effective in reducing the volume of hazardous material at the site.

### 5.3.2 Implementability

Implementability addresses the technical and administrative feasibility of implementing each of the alternatives. Technical feasibility includes ease of construction and operation and maintenance considerations. Administrative feasibility includes activities requiring coordination with other offices and agencies, such as obtaining permits. The performance of each alternative with respect to implementability is discussed below.

Alternatives 1 (no further action) and 2 (construction of an asphalt cap) would be the easiest to implement because they do not require soil excavation. Alternatives 3 through 6 and Alternative 8 would all require soil excavation. Alternative 3 would be the easiest of the excavation scenarios to implement because of the small volume of soil removed.

Alternatives 6 and 8 would be the most difficult to implement due to the large volumes of soil requiring excavation. The limited usable space at the site would hinder construction production rates for Alternatives 4 through 6 and Alternative 8 because of the limited space to stockpile soil after excavation. Alternatives 7 and 8 would also be difficult to implement due to the amount of space required for the necessary construction equipment. The stabilization process also has inherent technical difficulties of adequately and thoroughly mixing of the stabilization agents in the soil.

DTSC will require operation and maintenance (O&M) activities of the asphalt cap for all of the alternatives except Alternative 6. This will require an annual inspection of the cap, an annual report, and any repairs if needed.

Administrative activities will include coordination with DTSC and the City of Watsonville. DTSC will require a deed restriction for all alternatives except Alternative 6 because arsenic and lead will remain in the soil at concentrations above the cleanup criteria for all other alternatives. Traffic permits may also be required for the alternatives requiring offsite disposal of impacted soil because of the large number of trucks entering and exiting the site from Riverside Drive. Remediation activities and excessive truck traffic may also temporarily hinder the tire store operations and the pallet manufacturing operations.

### 5.3.3 Costs

Cost estimates for the remedial action alternatives were prepared using the available data from the RI, and are for remediation activities only. They do not include costs incurred due to the disruption of facility operations such as work stoppage or work inefficiencies of current or future tenants residing on Areas 1 and 3 during the period of remediation activities. Costs are included for the relocation of existing utilities and the installation of a clean utility corridor as well as for the operation and maintenance (O&M) of the asphalt cap



(except Alternative 6 which does not include costs for the installation of a clean utility corridor or O&M). O&M costs are projected for 30 years and are based on 30-year Net Present Value (NPV) dollars. Costs are presented on Figure 16 and Table 11. The detailed cost estimates for each alternative are presented in Appendix G.

The cost of Alternative 1 (no further action) are \$224,000. This is the cost associated with the installation of utility corridors and the relocation of existing utilities. The cost for installation of the cap (Alternative 2) is \$487,000. The costs for Alternatives 3 and 4 are \$1,415,000 and \$1,872,000, respectively. Cost for Alternative 5 is similar to Alternative 3 at \$1,376,000. Alternative 6 is the most costly of the alternatives at \$3,375,000. In situ stabilization, Alternative 7, is less costly (\$1,832,000) than ex situ stabilization, Alternative 8 (\$2,206,000).

Costs related to the volume of soil requiring excavation and waste classification profiling, (i.e., the percentages of non-hazardous, California-hazardous, and RCRA-hazardous soil), are based on the available analytical data to date. Additional soil sampling prior to and during remediation activities will determine the actual volume of non-hazardous, California-hazardous, and RCRA-hazardous soil to be managed.

#### **Areas 2, 3, and 4.**

Estimated costs for complete soil removal actions for Area 2, Area 3, and Area 4, are \$188,000, \$45,000, and \$96,000, respectively. If Area 2 becomes re-zoned, then some soil from Area 4 will be consolidated onto Area 2, and Area 2 will then be capped. The estimated costs for this scenario are \$62,000, \$45,000, \$34,000, for Area 2, Area 3, and Area 4, respectively.

## **5.4 Recommendation of Remedial Action**

Table 11 summarizes the evaluation of the remedial action alternatives for Area 1 based on their effectiveness, implementability, and costs.

Chevron recommends implementing Alternative 2, (construction of an asphalt cap) as the preferred remedial action. The short-term risk due to remediation activities for this alternative is the lowest of all alternatives, and it provides the same degree of long-term protection of human health as the other alternatives (except Alternative 1). Paving over the existing asphalt prevents direct exposure to impacted soil both now and in the future, and minimizes precipitation infiltration. This alternative is the easiest to implement, the least costly, and provides the greatest benefit-to-cost ratio. Since soil containing arsenic and lead at concentrations above cleanup criteria remains onsite, ongoing O&M of the asphalt cap is required. However, O&M is also required for all other alternatives except Alternative 6.

The evaluation of the other alternatives is summarized below.

- Alternative 1 is not effective at reducing the potential for current or future exposure to soil at the site, and is therefore not a feasible alternative.
- Alternative 3 reduces a significant amount of arsenic- and lead-impacted soil at the site by removing hot spot areas, and the asphalt cap is effective at eliminating the exposure pathway. This alternative is harder to implement and more costly than Alternative 2;



and the risk of future exposure to impacted soil due to disturbance of the cap is only reduced slightly. Since soil containing arsenic and lead at concentrations above cleanup criteria remains onsite following the removal action, ongoing O&M of the asphalt cap is still required.

- Alternative 4 reduces a significant volume of arsenic- and lead-impacted soil at the site by removing hot spot areas; it reduces the potential risk of a future exposure to impacted soil by an intentional or accidental breach of the asphalt; and is effective at eliminating the exposure pathway. This alternative is more difficult to implement and more costly than Alternative 2, but it achieves the same degree of risk reduction as Alternative 2. Furthermore, the large volume of soil requiring excavation, stockpiling, and transportation significantly increases the risk of exposing workers and neighbors at or around the site to impacted soil. Since soil containing arsenic and lead at concentrations above cleanup criteria remains onsite following the removal action, ongoing O&M of the asphalt cap is still required.
- Alternative 5 reduces the potential risk of a future exposure to impacted soil by an intentional or accidental breach of the asphalt. This alternative is more difficult to implement and more costly than Alternative 2, but it achieves the same degree of risk reduction as Alternative 2. Since soil containing arsenic and lead at concentrations above cleanup criteria remains onsite following the removal action, ongoing O&M of the asphalt cap is still required.
- Alternative 6 effectively eliminates all future risk associated with the site by removing all material above cleanup criteria. This alternative is by far the most difficult to implement and carries the highest short-term risk to exposure to excavated impacted soil. The amount of truck traffic generated during construction will hinder local traffic and greatly affect the existing business at the site. Furthermore, the cost is approximately 7 to 8 times higher than that of Alternative 2. Because all impacted material is removed, O&M of an asphalt cap is not required.
- Alternatives 7 and 8 were not selected because they are difficult to implement, they do not reduce the volume of impacted soil, and they are costly. Alternative 8 has a high short-term risk because of the large volume of soil requiring excavation, stockpiling, and mixing, thus increasing the risk of offsite migration of impacted soil. The risk of offsite exposure to wind-blown dust is the greatest with this Alternative 8. Since soil containing arsenic and lead at concentrations above cleanup criteria remains onsite following stabilization, ongoing O&M of the asphalt cap is still required.

For Area 3 and Area 4, Chevron recommends excavation and offsite disposal and/or consolidation of all material exceeding the cleanup criteria, then restoration of each of the properties to their original conditions. This action will ensure the most expeditious and effective cleanup for these two properties.

The recommended alternative for Area 2 will depend upon the final zoning designation of the property. Two alternatives are proposed for this property:

1. If the property remains zoned as residential, then the alternative for this property is excavation and offsite disposal of all material exceeding the cleanup criteria, then restoration of the property to its original condition.



2. If the property is re-zoned as industrial, then the recommended alternative for this property is cover the site with an asphalt cap, and institute a deed restriction. Some of the soil excavated from Area 3 and/or Area 4 may be consolidated onto Area 2.



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## Tables



**Table 1**  
**Summary of ASE Soil Sampling Results**  
**Cal Spray Site, Watsonville, California**

Soil Type	Sample Number	Sample* Depth (ft bgs)	Concentration (mg/kg)							
			Calcium (EPA 7140)	Sulfur (EPA 6010)	TRPH (EPA 418.1)	Pesticides /PCBs (EPA 8080)	Arsenic (EPA 7060)	Copper (EPA 7210)	Strychnine (HPLC)	SVOCs (EPA 8270)
Orange, platy mater	10458	0-2	8900	24000	--	--	--	--	<2.5	--
White material	10460	0-2	68000	59000	--	--	--	--	<2.5	--
Oily sand	10461	4	--	--	2700	ND	--	--	--	--
Native clay	10459	10-11	--	--	ND	--	--	--	--	--
Soil w/ crystals	10462	4	--	--	4000	ND	--	--	<2.5	--
Composite	10458/10460/ 10461/10462	--	--	--	--	--	410 (11 mg/L in STLC test)	9	--	--
Composite	10461/10462	--	--	--	--	--	--	--	--	ND

Notes:

-- Sample not analyzed

\* Depths approximated from ASE report

Source: Applied Science & Engineering (ASE) Report, July 3, 1996



**Table 2**  
**Summary of Soil Analytical Data - Area 1**  
**(September, October, November, 1996 and December 1997)**  
**Cal Spray Site, Watsonville, California**

Sample ID	Sample Depth (ft bgs)	Concentration (mg/kg)				
		Arsenic (SW 7060)	Lead (SW 7421)	TRPH (EPA 8015)	Mercury (SW 7471)	Strychnine (HPLC)
September 1996 Investigation						
CH1	0.5 - 1	1.6	2.1	-	0.17	-
	1.5 - 2	471	849	-	0.27	<1
	2 - 3	1300	1560	-	1.8	-
CH2	0.5 - 1	95.8	79.7	-	0.12	-
	1.5 - 2	15.4	24.4	-	0.07	<1
	2.5 - 3	34.8	37.5	<33	0.06	-
CH3	0.5 - 1	10.5	17	-	<0.03	-
	1 - 1.5	7020	985	-	0.98	<1
	2 - 2.5	1480	9.8	-	0.05	-
CH4	0 - 1	81.1	369	-	0.07	-
	1 - 1.5	3.8	197	-	0.18	<1
	2 - 2.5	5.3	8.3	-	0.1	-
CH5	9 - 10	22.9	6.6	<32	-	-
	15 - 16	9.2	13.5	<34	0.19	-
	17 - 18	12.1	13.8	<36	0.18	<1
CH6	15.5 - 16	8.5	12.5	<35	0.07	-
	17.5 - 18	11.6	11.9	<36	0.19	<1
CH7	14 - 15	20.6	13.5	<34	-	-
	16 - 17	19.3	16.1	<39	0.18	-
	17 - 18	29.3	14.9	<40	0.22	<1
October 1996 Investigation						
CH8	0.5 - 1	2.72	6.71	-	-	-
	2.5 - 3	8.94	10.3	-	-	-
	5.5 - 6	10.9	11.8	-	-	-
CH9	0.5 - 1	3.6	5.18	-	-	-
	1.5 - 2	31.7	10.6	-	-	-
	5.5 - 6	9.14	8.51	-	-	-
CH10	0.5 - 1	2830	2570	-	-	-
	1.5 - 2	101	8940	-	-	-
	5.5 - 6	299	363	-	-	-
November 1996 Supplemental Remedial Investigation						
CH11	2 - 2.5	119	239	-	-	-
	4 - 4.5	1010	13.2	-	-	-
	6 - 6.5	<11.5	NA	-	-	-
CH12	2 - 2.5	19400	4660	-	-	-
	4 - 4.5	21400	1550	-	-	-
	6 - 6.5	3670	156	-	-	-
	8 - 8.5	818	<13.9	-	-	-
CH13	2 - 2.5	32.1	5.13	-	-	-
	4 - 4.5	2730	3920	-	-	-
	6 - 6.5	966	20.6	-	-	-
CH13 (DTSC Split Sample)	9.5 - 10	<5	6.55	-	-	-

Notes:

"--" Sample not analyzed



**Table 2**  
**Summary of Soil Analytical Data - Area 1**  
**(September, October, November, 1996 and December 1997)**  
**Cal Spray Site, Watsonville, California**

Sample ID	Sample Depth (ft bgs)	Concentration (mg/kg)				
		Arsenic (SW 7060)	Lead (SW 7421)	TRPH (EPA 8015)	Mercury (SW 7471)	Strychnine (HPLC)
CH14	2 - 2.5	85.5	2010	-	-	-
	4 - 4.5	209	102	-	-	-
CH15	2 - 2.5	3.6	4	-	-	-
	4 - 4.5	16	17.3	-	-	-
CH16	2 - 2.5	755	105	-	-	-
	4 - 4.5	33.6	84.5	-	-	-
CH17	2 - 2.5	275	11300	-	-	-
	4 - 4.5	458	96.8	-	-	-
	6 - 6.5	1650	NA	-	-	-
CH18	2 - 2.5	88.6	316	-	-	-
	4 - 4.5	1300	9.86	-	-	-
	6 - 6.5	<12.5	NA	-	-	-
CH19	2 - 2.5	6.25	4.05	-	-	-
	4 - 4.5	543	864	-	-	-
	6 - 6.5	252	136	-	-	-
	8 - 8.5	NA	NA	715	-	-
CH20	2 - 2.5	9.9	16.9	-	-	-
	4 - 4.5	9.31	17.9	-	-	-
	8 - 8.5	NA	NA	3440	-	-
<b>December 1997 Supplemental Remedial Investigation</b>						
CH21	9.5 - 10.0	136	7.86	-	-	-
	14.5 - 15.0	12.5	13.1	-	-	-
CH22	9.5 - 10.0	0.86	7.49	-	-	-
	14.5 - 15.0	7.56	4.77	-	-	-
CH23 <sup>1</sup>	0.5 - 1.0	2.95	5.5	-	-	-
	4.5 - 5.0	429	54.0	-	-	-
	9.5 - 10.0	7.90	7.1	<13	-	-
	14.5 - 15.0	53.3	11.6	<13	-	-
	19.5-20.0	16.5	-	-	-	-
CH24	0.0 - 0.5	<9.0	25.2	<100	-	-
	4.5 - 5.0	<9.0	47.9	<110	-	-
	9.5 - 10.0	<9.0	<10.0	<140	-	-
	14.5 - 15.0	22.8	<10.0	<140	-	-
CH25	9.5 - 10.0	37.9	8.9	-	-	-
CH-DUP-1	9.5 - 10.0	42.4	8.3	-	-	-
	14.5 - 15.0	15.7	11.1	-	-	-
CH26	0.0 - 0.5	204	600	-	-	ND
	4.5 - 5.0	33.0	106	-	-	-
	14.5 - 15.0	12.1	13.6	-	-	-
CH26 (DTSC Split Sample)	14.5 - 15.0	-	-	-	-	ND
CH27	9.5 - 10.0	15.4	8.29	68	-	-
	14.5 - 15.0	13.7	5.98	<13	-	-

Notes:

"--" Sample not analyzed

<sup>1</sup> Samples CH23 (9.5' - 10)' and (14.5' - 15.0') were also analyzed for VOCs (EPA 8010). No VOCs were detected.



**Table 2**  
**Summary of Soil Analytical Data - Area 1**  
 (September, October, November, 1996 and December 1997)  
 Cal Spray Site, Watsonville, California

Sample ID	Sample Depth (ft bgs)	Concentration (mg/kg)				
		Arsenic (SW 7060)	Lead (SW 7421)	TRPH (EPA 8015)	Mercury (SW 7471)	Strychnine (HPLC)
CH28	0.5 - 1.0	2.3	3.57	-	-	-
	9.5 - 10.0	6.15	5.38	-	-	-
	14.5 - 15.0	9.81	12.1	-	-	-
CH29 <sup>2</sup>	0.5 - 1.0	<9.0	<10	<0.55	-	-
	5.0 - 6.0	56	<10	<62	-	-
	9.5 - 10.0	<9	<10	<12	-	-
CH30 <sup>2</sup>	0.5 - 1.0	3.0	4.95	-	-	-
	5 - 5.5	6500	1850	-	-	-
	9.5 - 10.0	9.1	9.6	-	-	-
CH-DUP-5	9.5 - 10.0	<9.0	<10.0	<11	-	-
	12.5 - 13.5	<9	<10	-	-	-
<b>December 1997 Supplemental Remedial Investigation (Locust Street Samples)</b>						
CH32	0.5 - 1.0	8.2	27.4	-	-	-
	4.5 - 5.0	8.8	10.6	-	-	-
CH-DUP-9	4.5 - 5.0	10.2	15.2	-	-	-
	9.5 - 10.0	5.9	8.5	-	-	-
	14.5 - 15.0	16.8	15.0	-	-	-
CH33	0.5 - 1.0	8.0	22.2	-	-	-
	4.5 - 5.0	9.4	12.7	-	-	-
	9.5 - 10.0	20.5	8.4	-	-	-
	14.5 - 15.0	11.5	6.2	-	-	-
<b>December 1997 Supplemental Remedial Investigation (Riverside Drive Samples)</b>						
CH34	0.5 - 1.0	59.0	720	-	-	-
	5.5 - 6	34.1	15.0	-	-	-
CH-DUP-8	5.5 - 6	20.7	31.1	-	-	-
	10.5 - 11	6.9	6.3	-	-	-
	13.5 - 14	11.6	8.4	-	-	-
CH35	0.5 - 1.0	22.4	106	-	-	-
	4.5 - 5.0	11.6	9.97	-	-	-
	9.5 - 10.0	8.17	7.61	-	-	-
	14.5 - 15.0	12.4	13.5	-	-	-
CH36	0.5 - 1.0	11.0	18.6	-	-	-
	5.5 - 6	8.8	10.3	-	-	-
	9.5 - 10.0	6.7	8.5	-	-	-
	14.5 - 15.0	13.0	14.0	-	-	-
	19.5 - 20	10.3	11.9	-	-	-
<b>November 1998 Sampling Event - Cambria Environmental</b>						
CH37	1.75 - 2.25	9.9	12	-	-	-
	7.5 - 8	<5.0	5.9	-	-	-
CH38	4.0 - 4.5	180	7.2	-	-	-
	10 - 10.5	240	<5.0	-	-	-

Notes:

"--" Sample not analyzed

<sup>2</sup> All samples from CH29 and CH30 were analyzed for pesticides/PCBs (EPA 8080). None were detected.



**Table 3**  
**Analytical Results for CAM 17 Metals in Soil Samples**  
**December 1997 Supplemental Investigation**  
**Cal Spray Site, Watsonville, California**

Sample ID	Sample Depth (ft bgs)	Concentration (mg/kg)																
		As	Pb	Sb	Ba	Be	Cd	Cr	Co	Cu	Hg	Mo	Ni	Se	Ag	Th	Vn	Zn
CH24	0.0 - 0.5	<9.0	25.2	<9.0	36.2	<1.0	<1.0	26.3	6.3	31.3	0.14	<3.0	20.1	<0.40	<2.0	<0.44	32.6	60.3
	4.5 - 5.0	<9.0	47.9	<9.0	82.9	<1.0	<1.0	27.0	8.2	72.4	0.08	<3.0	27.5	<0.40	<2.0	<0.44	53.2	103
	9.5 - 10.0	<9.0	<10.0	<9.0	159	<1.0	<1.0	59.4	10.0	22.0	1.0	<3.0	72.3	<0.40	<2.0	<0.44	38.3	47.5
	14.5 - 15.0	22.8	<10.0	<9.0	211	<1.0	<1.0	63.6	14.2	32.2	<0.08	<3.0	79.5	<0.40	<2.0	<0.44	36.7	76.1
CH29	0.5 - 1.0	<9.0	<10	<9.0	61.4	<1.0	<1.0	53.9	8.1	19	<0.08	<3.0	31.3	<0.40	<2.0	<0.44	31.5	20.6
	5.0 - 6.0	56	<10	<9.0	118	<1.0	<1.0	40.7	7.6	15.5	0.13	<3.0	34.0	2.47	<2.0	<0.44	33.9	47.8
	9.5 - 10.0	<9	<10	<9.0	135	<1.0	<1.0	57.8	7.8	13.1	<0.08	<3.0	56.2	0.68	<2.0	<0.44	49.8	28.6
CH30	0.5 - 1.0	<4.5	<5.0	<4.5	40.5	<0.5	<0.5	39.4	8.8	5.4	<0.08	<1.5	41.3	<0.2	<1.0	<0.44	20.1	21.3
	5 - 5.5	3240*	1110*	<4.5	96.2	<0.5	16.0	44.9	8.6	21.7	0.72	<1.5	52.2	0.48	<1.0	<0.44	30.4	5500
	9.5 - 10.0	5.4*	7.6*	<4.5	150	<0.5	<0.5	43.4	6.2	13.5	<0.08	1.8	38.6	<0.2	<1.0	<0.44	29.9	31.4
CH-DUP-5	9.5 - 10.0	<9.0	<10.0	<9.0	225	<1.0	<1.0	68.6	8.5	14.5	<0.08	<3.0	55.4	<0.40	<2.0	<0.44	49.9	38.2
	12.5 - 13.5	<9	<10	<9.0	154	<1.0	<1.0	70.7	9.0	14.2	0.08	<3.0	103	<0.4	<2.0	<0.44	49.1	37.6

Notes:

\* Sample reanalyzed for suite of CAM 17 metals. Arsenic and lead concentrations differ from Table 2 results due to variability within soil samples



**Table 4**  
**Summary of Soil Analytical Data for Area 2**  
**Cal Spray Site, Watsonville, California**

Sample ID	Sample Depth (ft bgs)	Concentration (mg/kg)	
		Arsenic (SW 7060)	Lead (SW 7421)
HA1	0 - 0.5	1270	171
HA2	0 - 0.5	321	168
HA3	0 - 0.5	1390	303
	2.5 - 3	523	1550
HA4	0 - 0.5	1330	251
	2.5 - 3	129	135
M1	0.0 - 0.5	111	197
CH-DUP-2	0.0 - 0.5	118	181
M1 (DTSC Split Sample)	0.0 - 0.5	102	167
	4.5 - 5.0	9.6	16.2
	9.5 - 10.0	2.59	6.87
	14.5 - 15.0	3.34	5.30
M2	0.0 - 0.5	300	258
	4.5 - 5.0	109	12.6
	9.5 - 10.0	156	12.0
	14.5 - 15.0	1.92	5.52
M3	0.0 - 0.5	15	128
	4.5 - 5.0	7.62	8.99
	9.5 - 10.0	8.45	13.2
	14.5 - 15.0	1.61	7.94
M4	0.0 - 0.5	190	406
	4.5 - 5.0	8.67	9.28
	9.5 - 10.0	9.71	12.8
	14.5 - 15.0	1.52	7.46
M5	0.0 - 0.5	13.4	122
CH-DUP-6	0.0 - 0.5	13.4	137
	4.5 - 5.0	10.2	10.9
	9.5 - 10.0	23.6	14.0
CH-DUP-7	9.5 - 10.0	36.7	13.3
	14.5 - 15.0	1.3	7.4
M6	0.0 - 0.5	13.7	111
CH-DUP-3	0.0 - 0.5	14.9	112
	4.5 - 5.0	5.42	7.96
	9.5 - 10.0	8.31	12.3
	14.5 - 15.0	3.25	9.10
M7	0.0 - 0.5	51.0	175
	1 - 1.5	50.2	165
	2 - 2.5	5.05	29.3
M8	0.0 - 0.5	49.9	118
	1 - 1.5	135.0	536
	2.5 - 3	31	25.7
M9	0.0 - 0.5	363	304
	1 - 1.5	277.0	344
	2 - 2.5	212	359
M10	0.0 - 0.5	1000	1320
	1 - 1.5	412	1020
	2 - 2.5	1790	534
M10 (DTSC Split Sample) <sup>1</sup>	2 - 2.5	NA	NA

Notes:

<sup>1</sup> DTSC split sample for M10 was analyzed for strychnine, but was strychnine was not detected.



**Table 5**  
**Summary of Soil Analytical Data for Area 3**  
**Cal Spray Site, Watsonville, California**

Sample ID	Sample Depth (ft bgs)	Concentration (mg/kg)	
		Arsenic (SW 7060)	Lead (SW 7421)
P1	0.5 - 1.0	10	25.1
	4.5 - 5.0	5.4	7
	9.5 - 10.0	3.2	5.5
	14.5 - 15.0	2.5	3.2
	19.5 - 20.0	1.5	3
	24.5 - 25.0	8.7	4.2
P2	0.5 - 1.0	79.4	101
	4.5 - 5.0	7.24	11.4
	9.5 - 10.0	8.07	5.27
	14.5 - 15.0	2.11	3.23
P3	0.5 - 1.0	19.3	41.2
	4.5 - 5.0	5.2	7.9
	9.5 - 10.0	4.6	5.3
	14.5 - 15.0	3.2	3.3
	19.5 - 20.0	1.2	3.5
	24.5 - 25.0	1.6	3.1
P4	0.5 - 1.0	50.6	80.3
	4.5 - 5.0	4740	305
CH-DUP-4	4.5 - 5.0	3460	246
	9.5 - 10.0	4.42	5.3
	14.5 - 15.0	3.8	4
	19.5 - 20.0	2.8	3.5
P5	0.5 - 1.0	91.4	231
	4.5 - 5.0	9.5	8.4
	9.5 - 10.0	20.9	4.9
P5 (DTSC Split Sample) <sup>1</sup>	9.5 - 10.0	14.3	9.08
P6	0.5 - 1.0	179	228
	4.5 - 5.0	17.3	10.2
	9.5 - 10.0	5.2	4.0
P7	0.5 - 1.0	122	310
	4.5 - 5.0	6.2	10.3
	9.5 - 10.0	5.4	5.4
P8	0.5 - 1.0	3.0	14.2
	4.5 - 5.0	10.4	11.7
	9.5 - 10.0	4.3	5.6
P9	0.5 - 1.0	21.2	38.4
	4.5 - 5.0	6.1	14
	9.5 - 10.0	5.3	7.1
P10 <sup>2</sup>	0.6 - 1.1	<5.0	11
	4.5 - 5.0	<5.0	7.9
P11 <sup>2</sup>	2.5 - 3.0	26/22 <sup>3</sup>	120
P11 Duplicate <sup>2</sup>	2.5 - 3.0	21	100
	4.5 - 5.0	<5.0	8.4

Notes:

<sup>1</sup> DTSC split sample for P5 was analyzed for strychnine but was not detected.

<sup>2</sup> Samples collected by Cambria Environmental, November 1998.

<sup>3</sup> Original sample reanalyzed for arsenic, both results presented.



<b>Table 6</b> <b>Summary of Soil Analytical Data for Area 4</b> <b>Cal Spray Site, Watsonville, California</b>			
<b>Sample</b>	<b>Depth (feet bgs)</b>	<b>Arsenic (mg/kg)</b>	<b>Lead (mg/kg)</b>
Z1	0-0.5	32.0	161.0
	1-1.5	18.3	9.2
Z2	0-0.5	18.4	294.0
	1-1.5	17.4	82.2
Z3	0-0.5	54.4	237.0
	1-1.5	49.0	108.0
Z4	0-0.5	141.0	382.0
	1-1.5	2810.0	982.0
Z4B <sup>2</sup>	4.5-5	<5	6.9
Z5	0-0.5	124.0	203.0
	1-1.5	286.0	327.0
Z6	0-0.5	11.3	135.0
	1-1.5	157.0	752.0
Z6B <sup>2</sup>	4.5-5	<5	8.9
Z6B (Duplicate) <sup>2</sup>	4.5-5	<5	10.0
Z7	0-0.5	24.8	3020
	0-0.5 <sup>1</sup>	21.6	307
	1-1.5	20.6	199.0
Z8	0-0.5	23.7	338.0
	1-1.5	18.3	123.0
Z9	0-0.5	12.8	152.0
	1-1.5	10.9	10.0
Z11	0-0.5	15.1	530.0
	1-1.5	18.4	80.4
Z13	0-0.5	7.8	226.0
	1-1.5	23.1	75.4

Samples Z1, Z2, Z3, Z4, Z6, Z9, Z11, and Z13 were analyzed on July 7, 1998

Samples Z5, Z7, and Z8 were analyzed on September 21, 1998

<sup>1</sup> - Sample Z7 (0-0.5 ft bgs) was reanalyzed on October 7, 1998 to confirm anomalous lead result.

<sup>2</sup> - Samples Z4B (5 feet bgs) and Z6B (5 feet bgs) were sampled November 4, 1998 by Cambria Environmental.



<b>Table 7</b> <b>Analytical Results for Area Adjacent to Area 4 Soil Samples</b> <b>Cal Spray Site, Watsonville, California</b>			
Sample ID	Sample Depth (ft bgs)	Concentration (mg/kg)	
		Arsenic (SW 6010)	Lead (SW 6010)
S1	0.0 - 0.5	17.0	76.0
	4.0 - 4.5	<5	<5
S2	0.0 - 0.5	21.0	120.0
	4.0 - 4.5	<5	<5
S3	0.0 - 0.5	6.8	52.5
	1-1.5	11.2	11.2
S4	0.0 - 0.5	11.7	257.0
	1-1.5	11.2	124.0
S5	0.0 - 0.5	14.5	97.7
	1-1.5	9.6	19.5
S6	0.0 - 0.5	15.5	146.0
	1-1.5	5.8	6.7
S7	0.0 - 0.5	9.7	60.5
	1-1.5	12.6	14.0
S8	0.0 - 0.5	11.3	112.0
	1-1.5	7.0	12.4

S1 and S2 collected on 11/4/98 by Cambria Environmental and analyzed by Sequoia Analytical

S3-S8 collected by CH2M HILL on 9/20/99 and analyzed by CAS



<b>Table 8</b> <b>Groundwater Analytical Results</b> <b>Supplemental Remedial Investigation</b> <b>Cal Spray Site, Watsonville, California</b>				
Sample ID	Concentration (µg/L)			
	Arsenic <sup>1</sup> (SW 7060)	Lead (SW 7421)	VOCs (EPA 8010)	Pesticides and PCBs (EPA 8080)
CH35	<2	<2	2.4 <sup>4</sup>	-
CH23	2.9	46 <sup>2</sup>	ND	-
P1	<2	9.1	ND	-
GW-DUP-1 (Duplicate of P1)	3.2	10.5	ND	-
P3	<2	2.9	ND	-
CH28	<2	<2	ND	-
CH25	<2	<2	ND	-
CH26	<2	<2	-	-
CH30	<2	<2	ND	ND
M5	<2	<2	ND	-
CH37 <sup>3</sup>	8.6	<5.0	-	-
CH37-Dup <sup>3</sup>	11	<5.0	-	-

Notes:

<sup>1</sup> None of the samples exceed the Arsenic MCL of 50 µg/L

<sup>2</sup> Exceeds the Lead Action Level of 15 µg/L. Result attributed to extremely turbid sample.

<sup>3</sup> Samples from CH37 collected from same location as CH23 by Cambria Environmental

<sup>4</sup> Detection of 1,2-Dichloroethane, exceeds California Primary MCL of 0.5 µg/L

"-" Sample not analyzed

ND = Not Detected (None of the 28 VOCs that the sample was analyzed for was detected)



<b>Table 9</b> <b>Analytical Results for Offsite Background Soil Samples</b> <b>Cal Spray Site, Watsonville, California</b>			
Sample ID	Sample Depth (ft bgs)	Arsenic (SW 6010)	Lead (SW 6010)
		Concentration (mg/kg)	
Background #1	0.0 - 0.5	7.5	9.0
	4.0 - 4.5	8	9.5
Background #2	0.0 - 0.5	11.5	110.0
	4.0 - 4.5	9.2	9.7
Background #3	0.0 - 0.5	5.6	477.0
Background #4	0.0 - 0.5	10.5	NA
	1.0-1.5	10.2	NA
Background #5	0.0 - 0.5	8.1	NA
	1.0-1.5	11.5	NA
Background #6	0.0 - 0.5	7.7	NA
Dup 1*	0.0 - 0.5	8.9	NA
	1.0-1.5	7.5	NA
Background #7	0.0 - 0.5	7.5	NA
	1.0-1.5	12.5	NA
Background #8	0.0 - 0.5	7.5	NA
	1.0-1.5	6.7	NA
Background #9	0.0 - 0.5	3.1	NA
	1.0-1.5	3.2	NA
Background #10	0.0 - 0.5	18.9	NA
	1.0-1.5	11.9	NA
Background #11	0.0 - 0.5	9.3	NA
	1.0-1.5	7.8	NA

\* Duplicate Sample



**Table 10**  
**Analytical Results for Soil Geochemical Parameters<sup>1</sup>**  
**Cal Spray Site, Watsonville, California**

Sample ID	Sample Depth (ft bgs)	Concentration (mg/kg)					pH	Red-Ox Potential (mV)
		Iron	Manganese	Total Organic Carbon	Sulfate	Sulfide		
CH37	1.75 - 2.25	20,000	330	1,800	57	<10	7.3	380
	7.5 - 8	16,000	560	520	830	<10	7.5	360
CH38	4 - 4.5	18,000	95	1,100	380	46	4.2	470
	10 - 10.5	17,000	280	510	730	10	6.4	350

<sup>1</sup> Samples collected by Cambria Environmental, November 1998



**Table 11**  
**Summary of Remedial Action Alternatives for Area 1**  
**Cal Spray Site, Watsonville, California**

Alternatives	Remediation Approach
1) No further action	No further action
2) Asphalt cap	Construction of asphalt cap over entire site except N and SE of tire store. Includes utility corridors.
3) Hot-spot removal with Asphalt cap	Soil excavation and disposal from hot spot areas Construction of asphalt cap over entire site except N and SE of tire store. Includes utility corridors.
4) Top 2 feet and hot-spot removal, with asphalt cap	Soil excavation and disposal from top 2 feet Soil excavation and disposal from hot spots Construction of asphalt cap over entire site except N and SE of tire store. Includes utility corridors.
5) Removal of Top 2 feet with asphalt cap	Soil excavation and disposal from top 2 feet Construction of asphalt cap over entire site except N and SE of tire store. Includes utility corridors.
6) Sitewide Excavation	Soil excavation and disposal from areas with As and Pb levels above cleanup criteria Restoration of asphalt paving
7) In-situ Stabilization with asphalt cap	In-situ stabilization of soil in areas with As and Pb levels above cleanup criteria Construction of asphalt cap over entire site except N and SE of tire store.
8) Ex-situ Stabilization with asphalt cap	Ex-situ stabilization of soil in areas with As and Pb levels above cleanup criteria Construction of asphalt cap over entire site except N and SE of tire store.

Operation and Maintenance included for all alternatives except Alternative 6.



**Table 12**  
**Evaluation of Remedial Action Alternatives for Area 1**  
**Cal Spray Site, Watsonville, California**

Alternative	Effectiveness		Implementability	Cost*	
	Short Term	Long Term		30 Year NPV Costs**	
1) No further action	High: Low risk of worker exposure (no excavation).	Low: All impacted material remains onsite.	High: No soil excavation.	Low:	\$224,000
2) Asphalt cap	High: Low risk of worker exposure (no excavation).	Moderately High: Eliminates exposure pathway. However, all impacted material remains onsite.	High: No soil excavation.	Moderate:	\$487,000
3) Hot-spot removal with asphalt cap	Moderate: Moderate risk of worker exposure (moderate excavation).	Moderately High: Eliminates exposure pathway. Significantly reduces volume of impacted material.	Moderately High: Small excavation area.	Moderate:	\$1,415,000
4) Top 2 feet and hot-spot removal, with asphalt cap	Moderately Low: Moderate risk of worker exposure (moderate excavation).	Moderately High: Eliminates exposure pathway. Significantly reduces volume of impacted material. Effectively prevents exposure in case of breach of asphalt.	Moderately low: Large excavation area. Limited usable onsite space.	Moderate:	\$1,872,000
5) Top 2 feet removal, with asphalt paving	Moderate Low: Moderate risk of worker exposure (moderate excavation).	Moderately High: Eliminates exposure pathway. Reduces impacted material. Effectively prevents exposure in case of breach of asphalt.	Moderate: Large excavation area. Limited usable onsite space.	Moderate:	\$1,376,000
6) Site-wide excavation	Low: High risk of worker exposure (large excavation).	High: Eliminates exposure pathway. Removes all impacted material.	Low: Very large excavation area. Limited usable onsite space.	High:	\$3,375,000
7) In-situ stabilization, with asphalt cap	High: Low risk of worker exposure (no excavation).	Moderately High: Eliminates exposure pathway. Reduces mobility and toxicity. All impacted material remains in onsite.	Low: Inherent technical difficulties to stabilize an area this large.	High:	\$1,832,000
8) Ex-situ stabilization, with asphalt cap	Low: High risk of worker exposure (large excavation).	Moderately High: Reduces mobility and toxicity. All impacted material remains onsite.	Low: Large excavation area. Limited usable onsite space. Inherent technical difficulties.	High:	\$2,206,000



## Figures



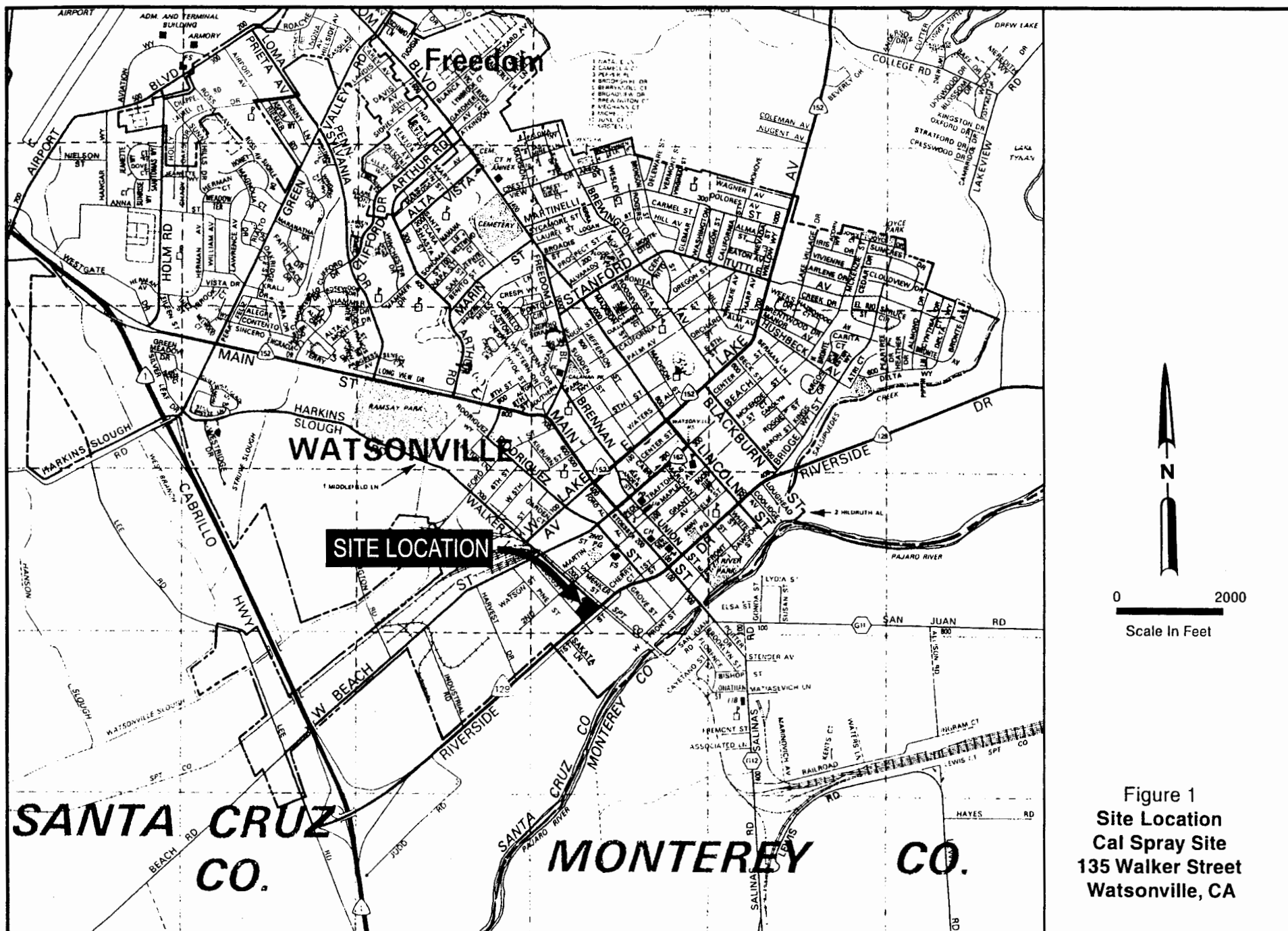


Figure 1  
 Site Location  
 Cal Spray Site  
 135 Walker Street  
 Watsonville, CA



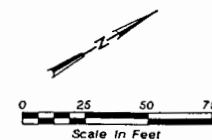
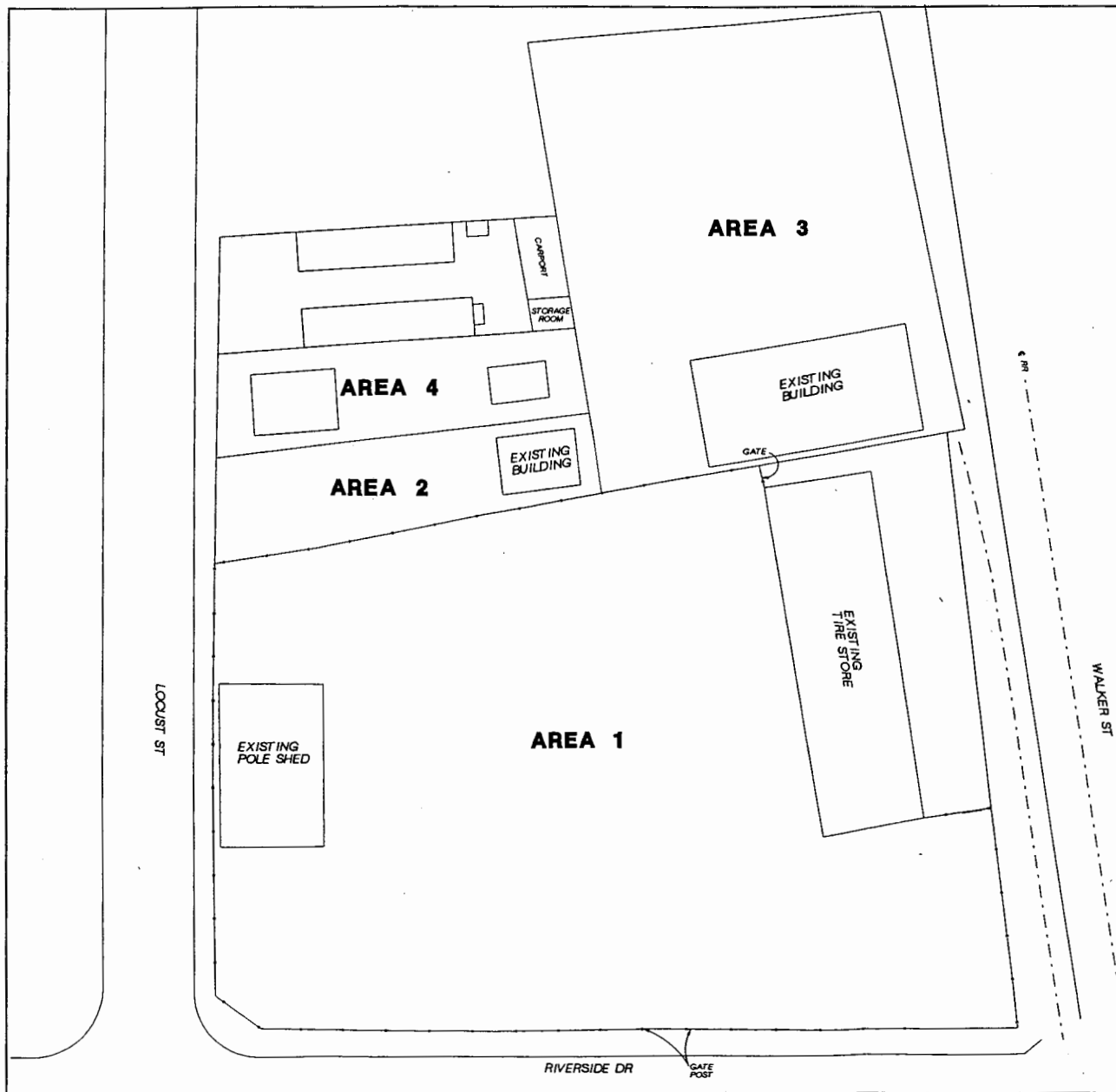
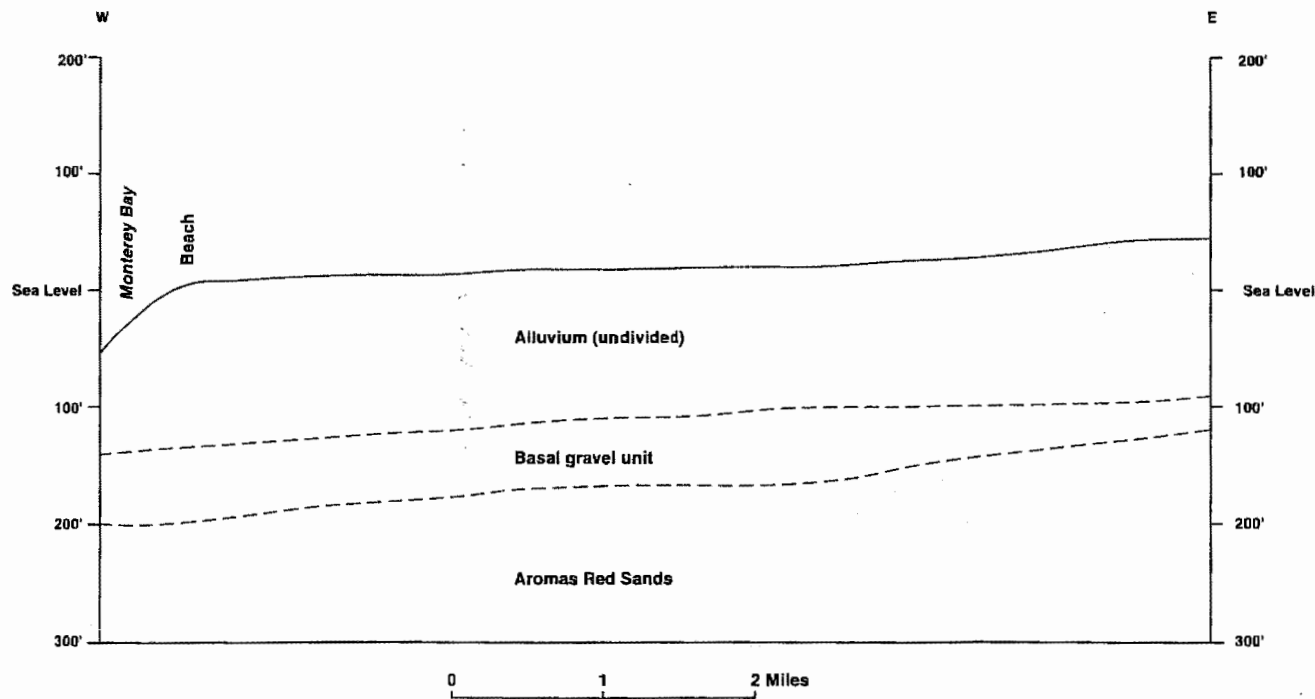


Figure 2  
SITE MAP

Cal Spray Site  
135 Walker Street  
Watsonville, California

CH2MHILL





Source: Geology and Groundwater of the  
Pajaro Valley Area  
Santa Cruz and Monterey Counties, California  
USGS, 1972

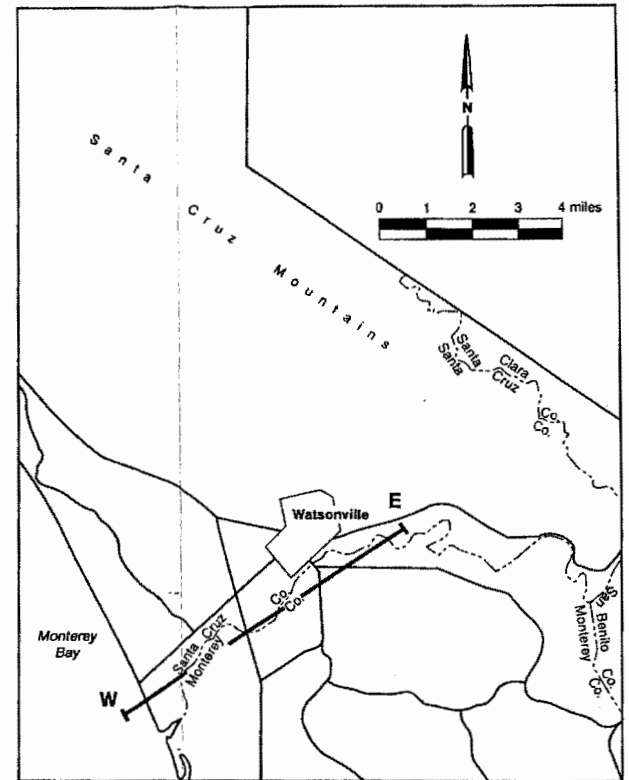
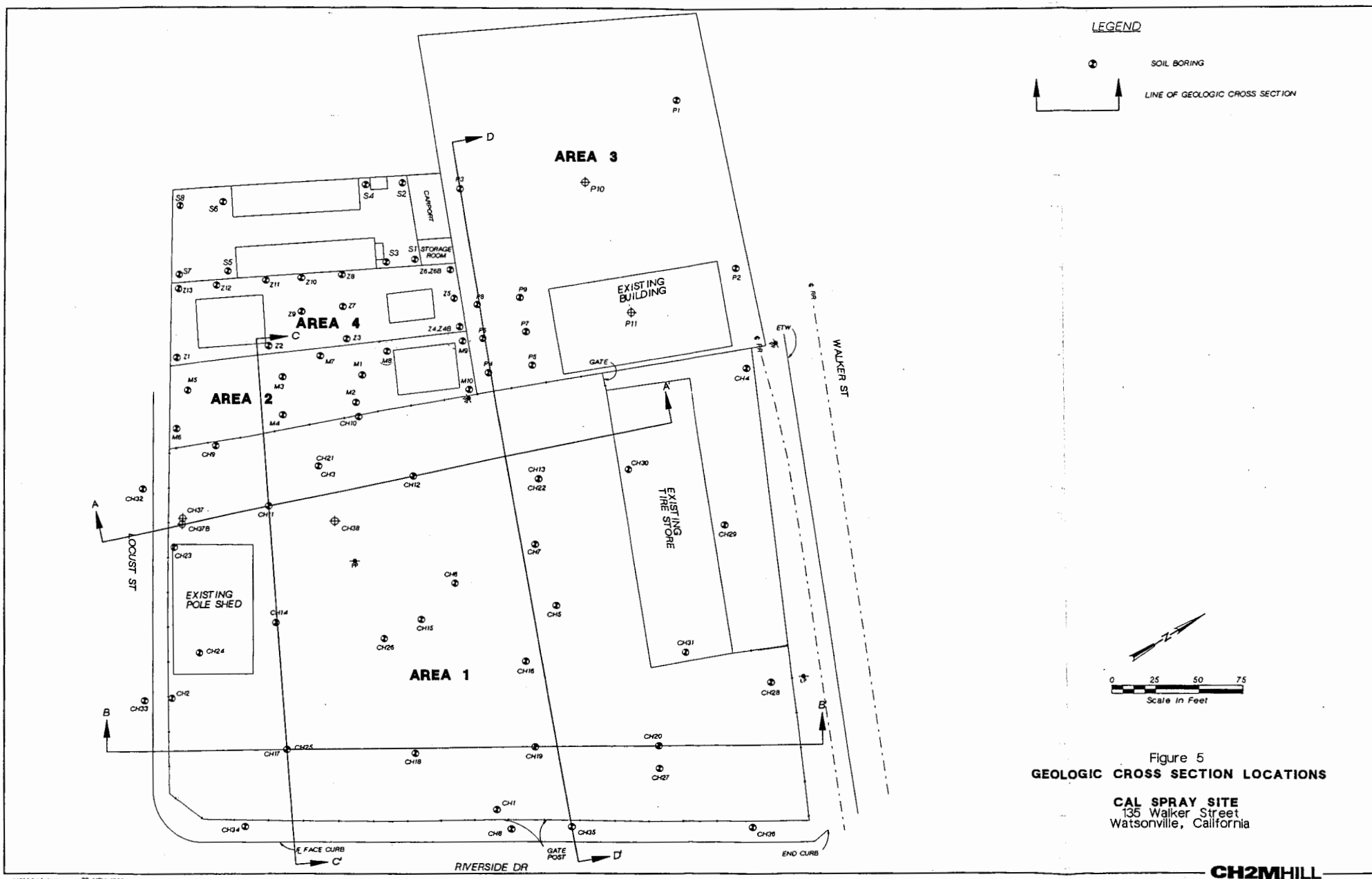


Figure 3  
Regional Hydrogeologic Cross Section  
Cal Spray Site  
Watsonville, California











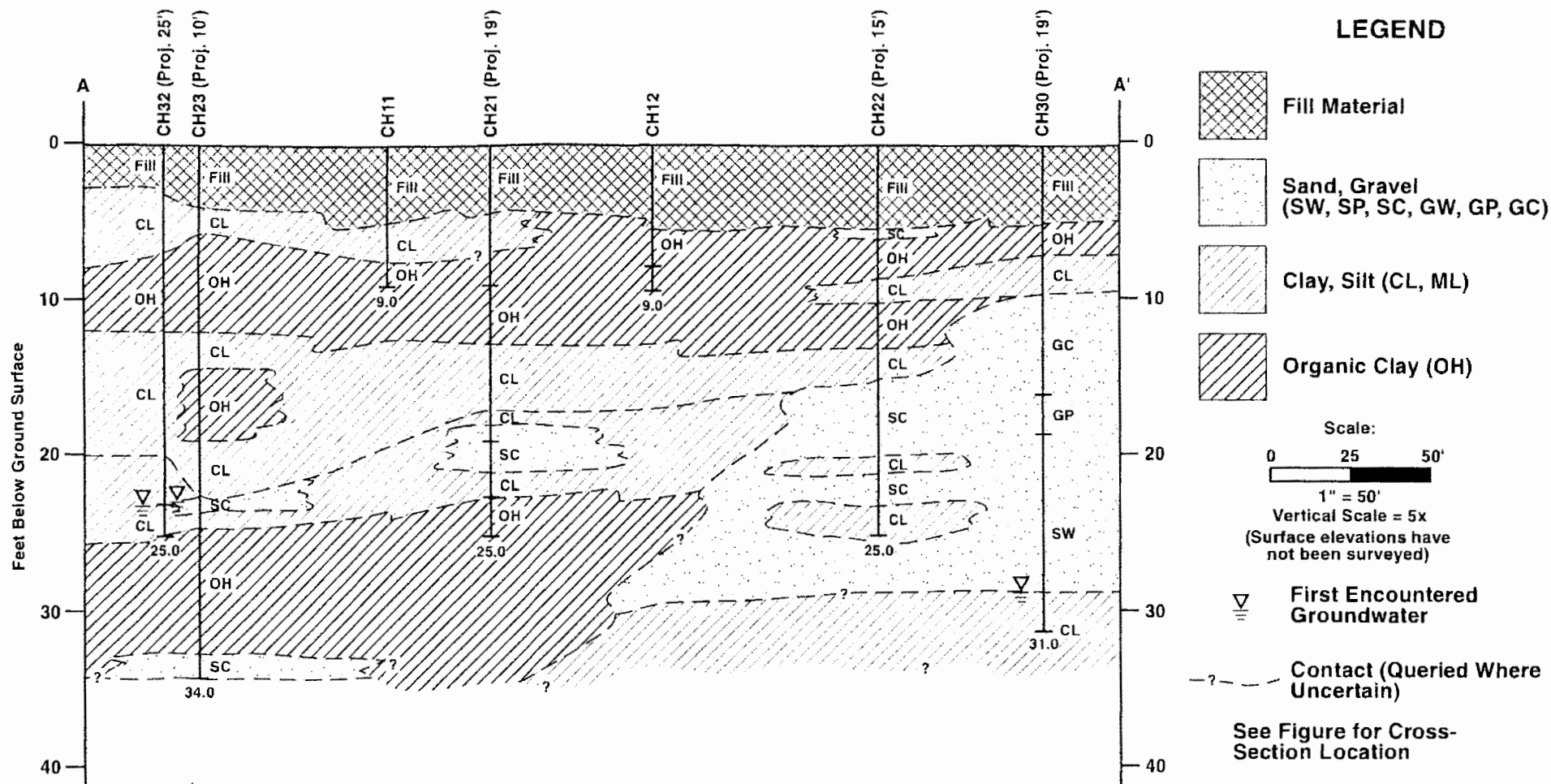
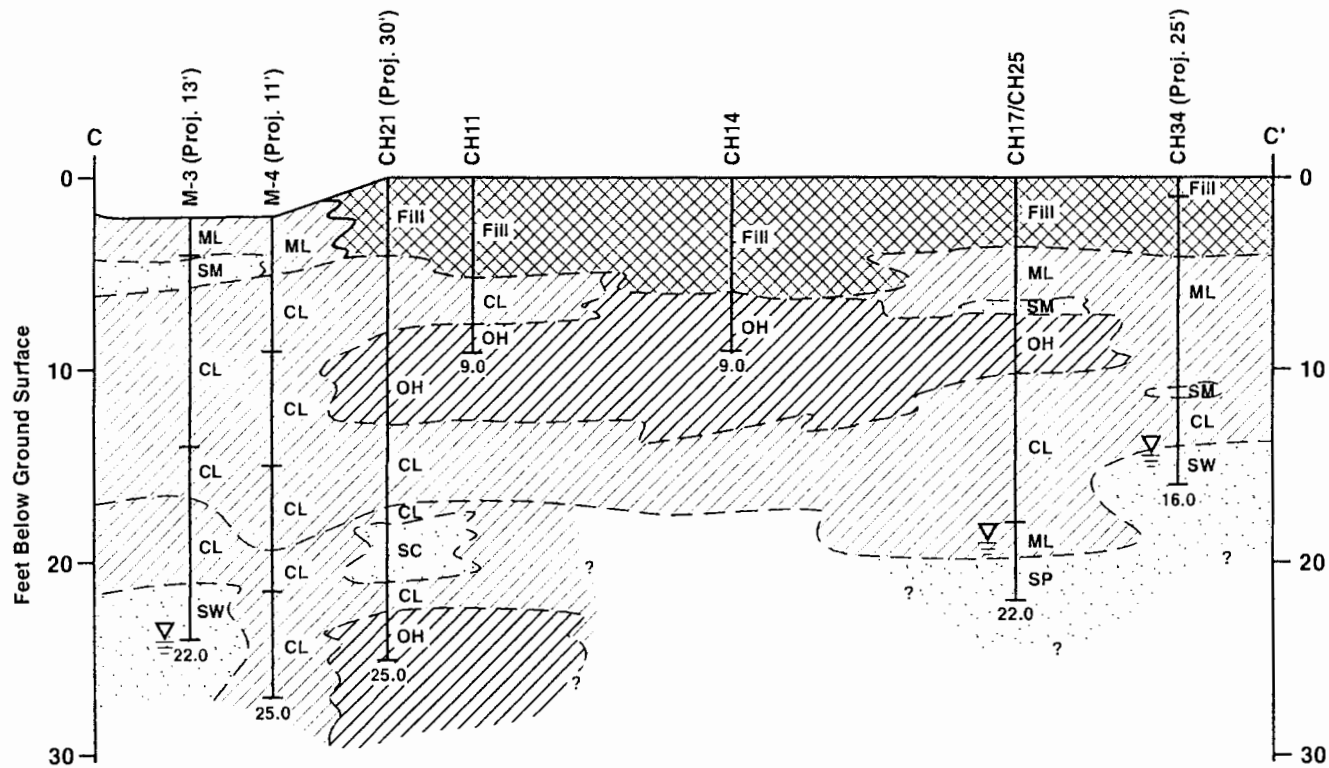


Figure 6  
 Geologic Cross Section A-A'  
 Cal Spray Site  
 Watsonville, California









### LEGEND

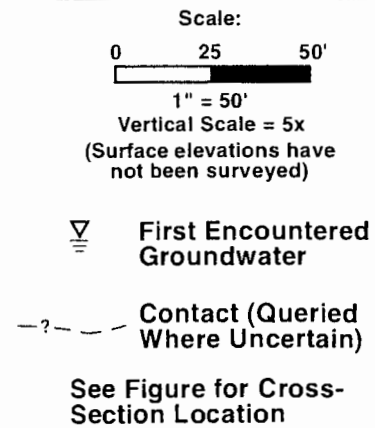
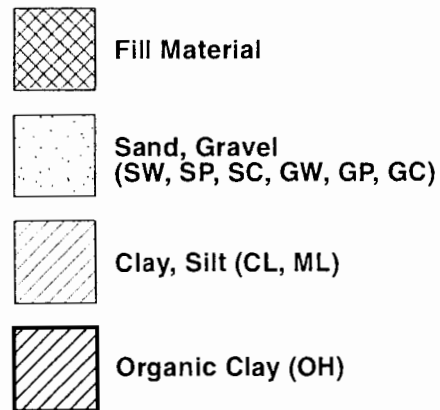
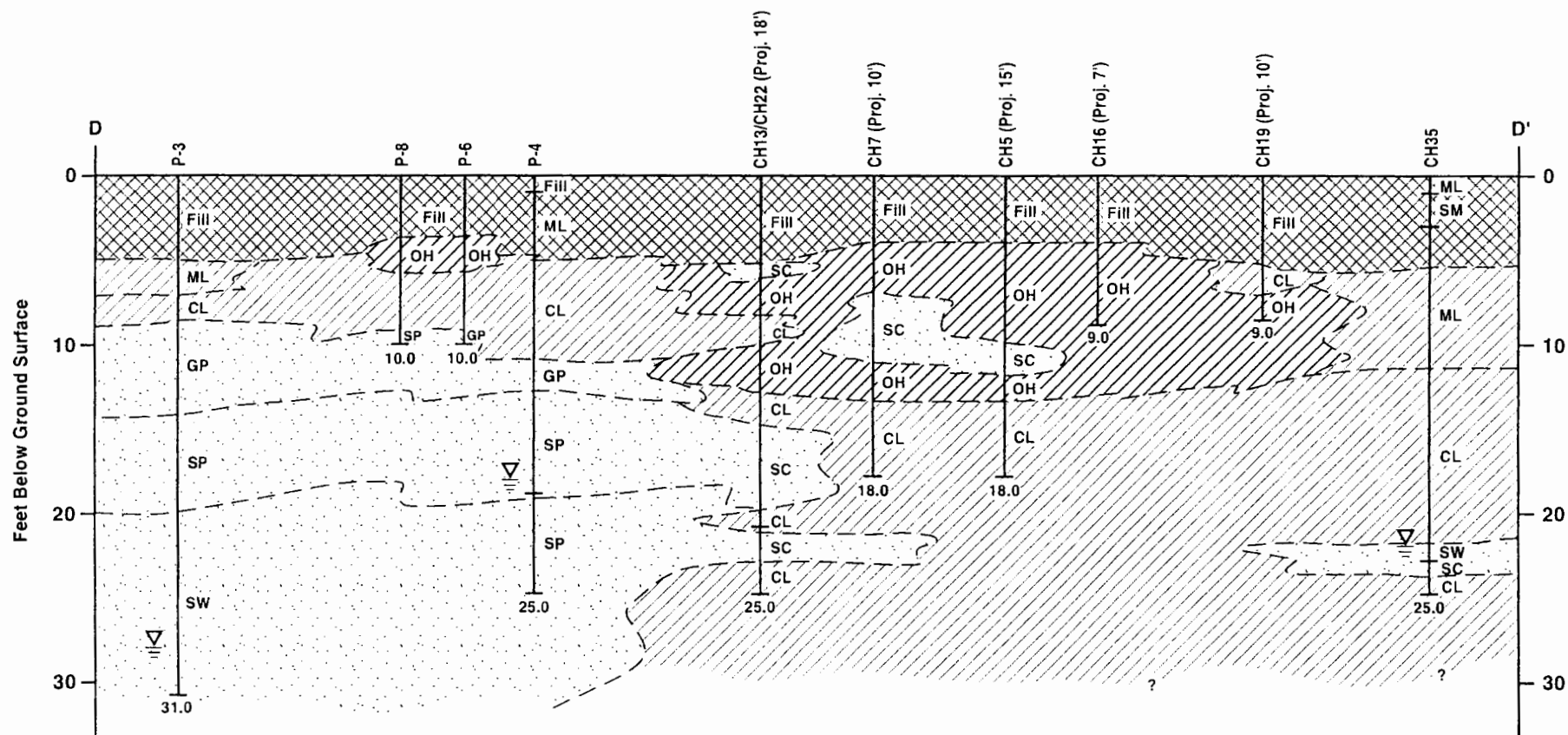


Figure 8  
 Geologic Cross Section C-C'  
 Cal Spray Site  
 Watsonville, California





# LEGEND



Fill Material



Sand, Gravel  
(SW, SP, SC, GW, GP, GC)

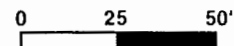


Clay, Silt (CL, ML)



Organic Clay (OH)

Scale:



1" = 50'

Vertical Scale = 5x  
(Surface elevations have  
not been surveyed)



First Encountered  
Groundwater

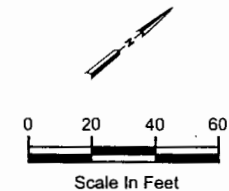
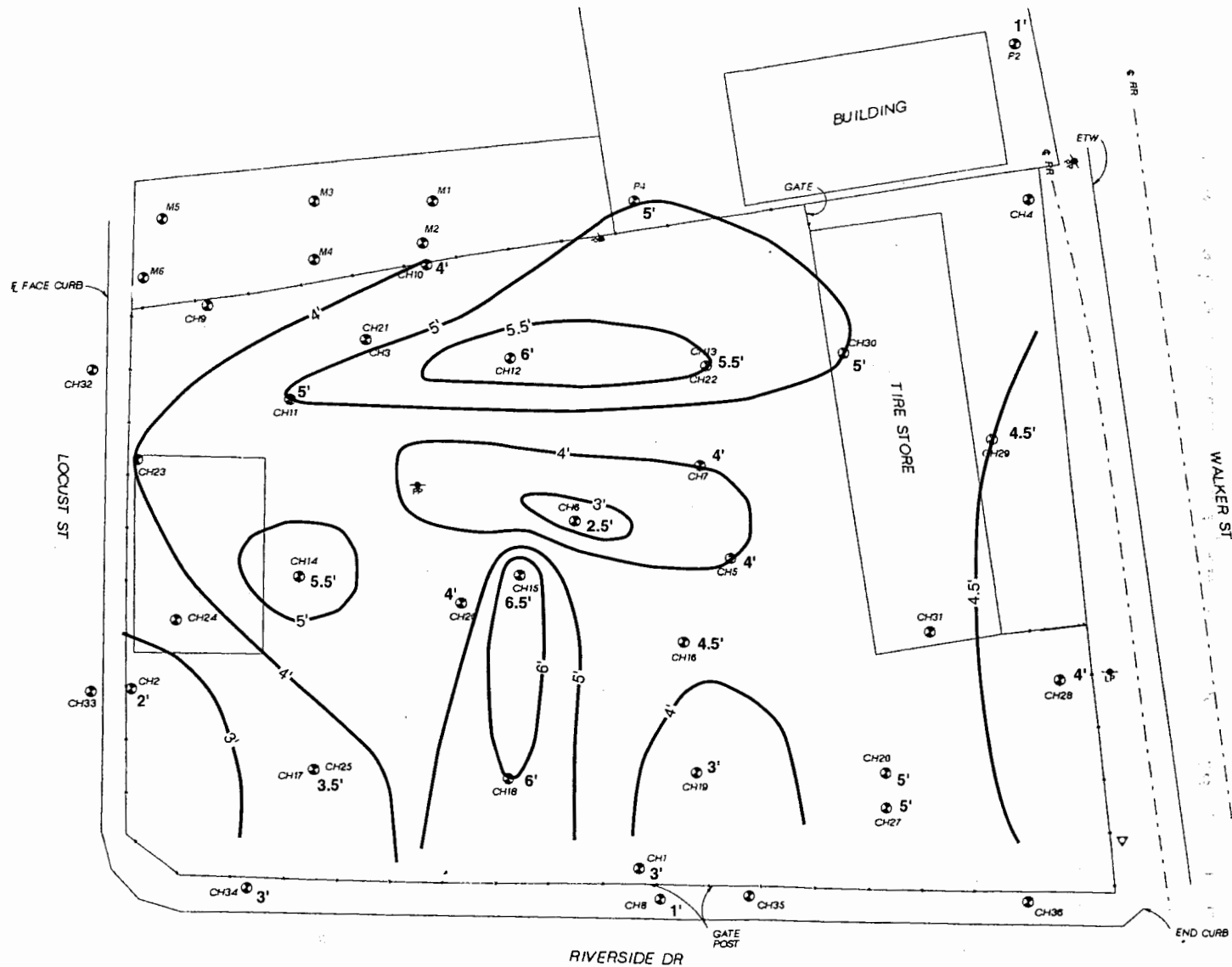


Contact (Queried  
Where Uncertain)

See Figure for Cross-  
Section Location

Figure 9  
Geologic Cross Section D-D'  
Cal Spray Site  
Watsonville, California



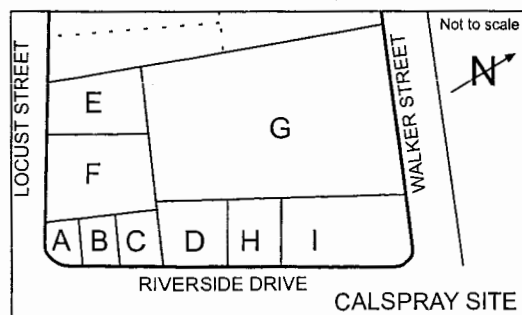
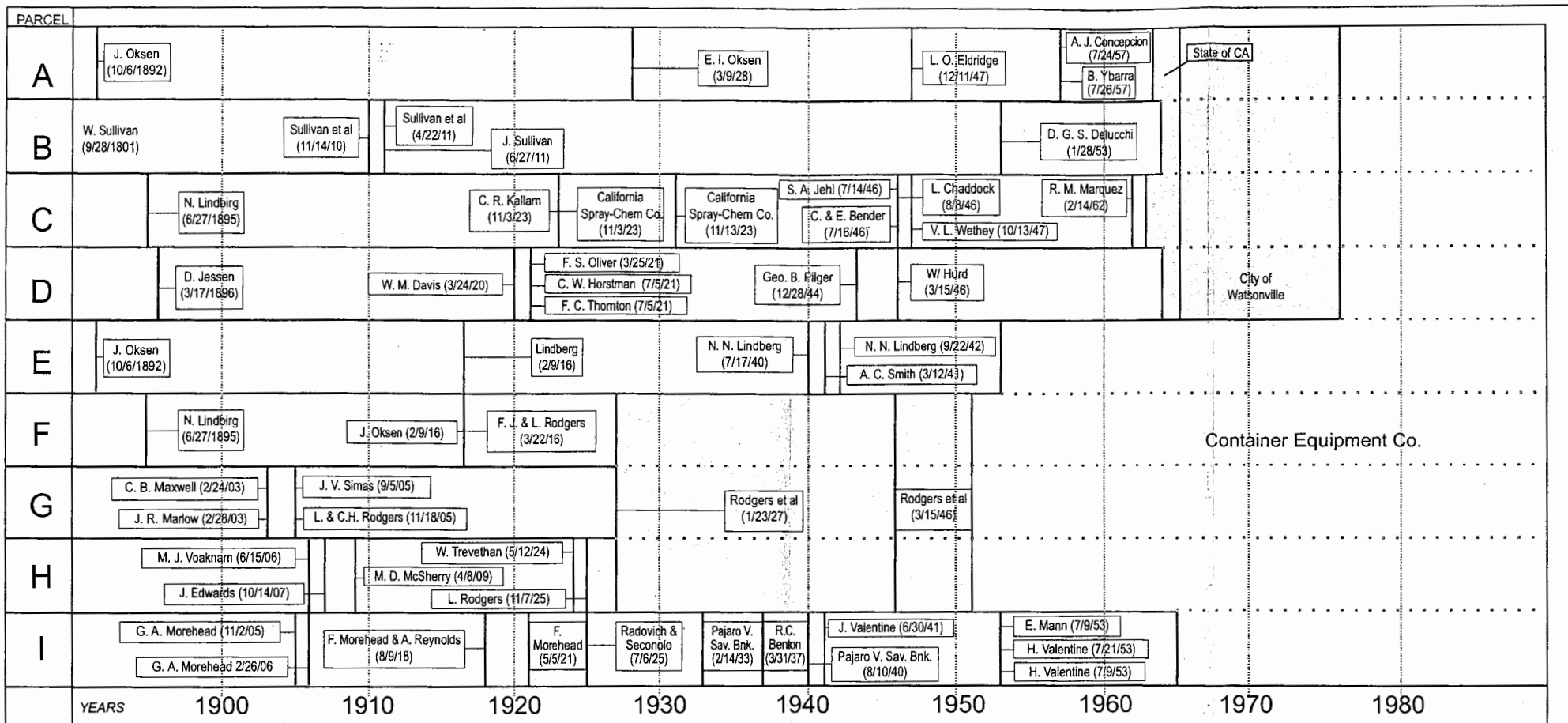


Note:  
Contours are in feet below  
ground surface.

Figure 10  
Estimated Fill Layer Thickness  
Cal Spray Site, Watsonville, CA

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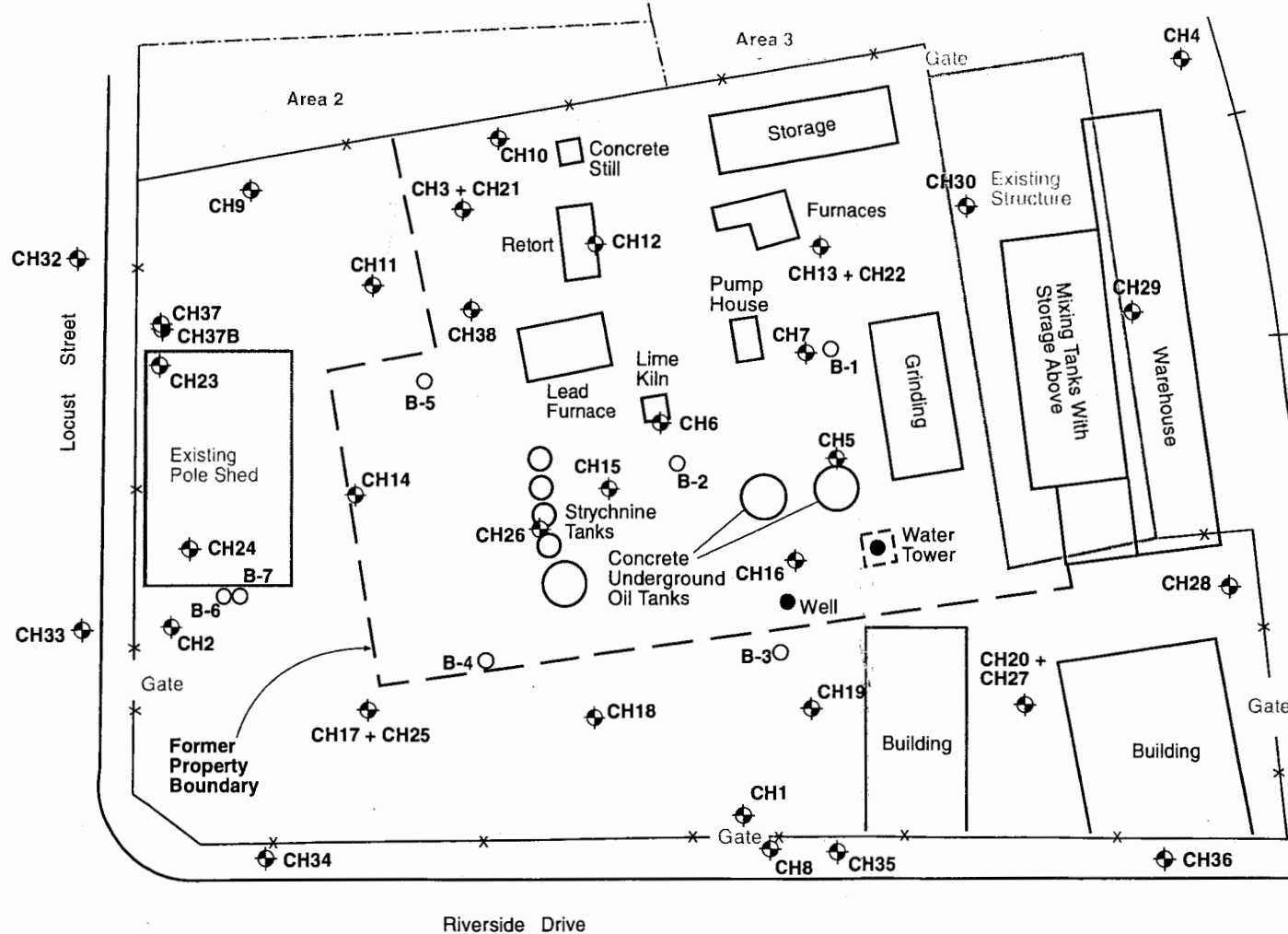




Source: Chain of Title Summary, 135 Walker Street  
Michael S. Maiorana, 1996

Figure 11  
Timeline - Area 1 Parcel Summary  
Cal Spray Site  
Watsonville, California





**Legend**  
 X Fence  
 ⊕ Soil Boring

**Note:**  
 Boring locations are approximate.

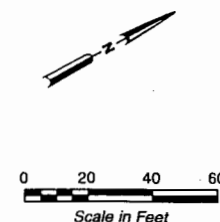
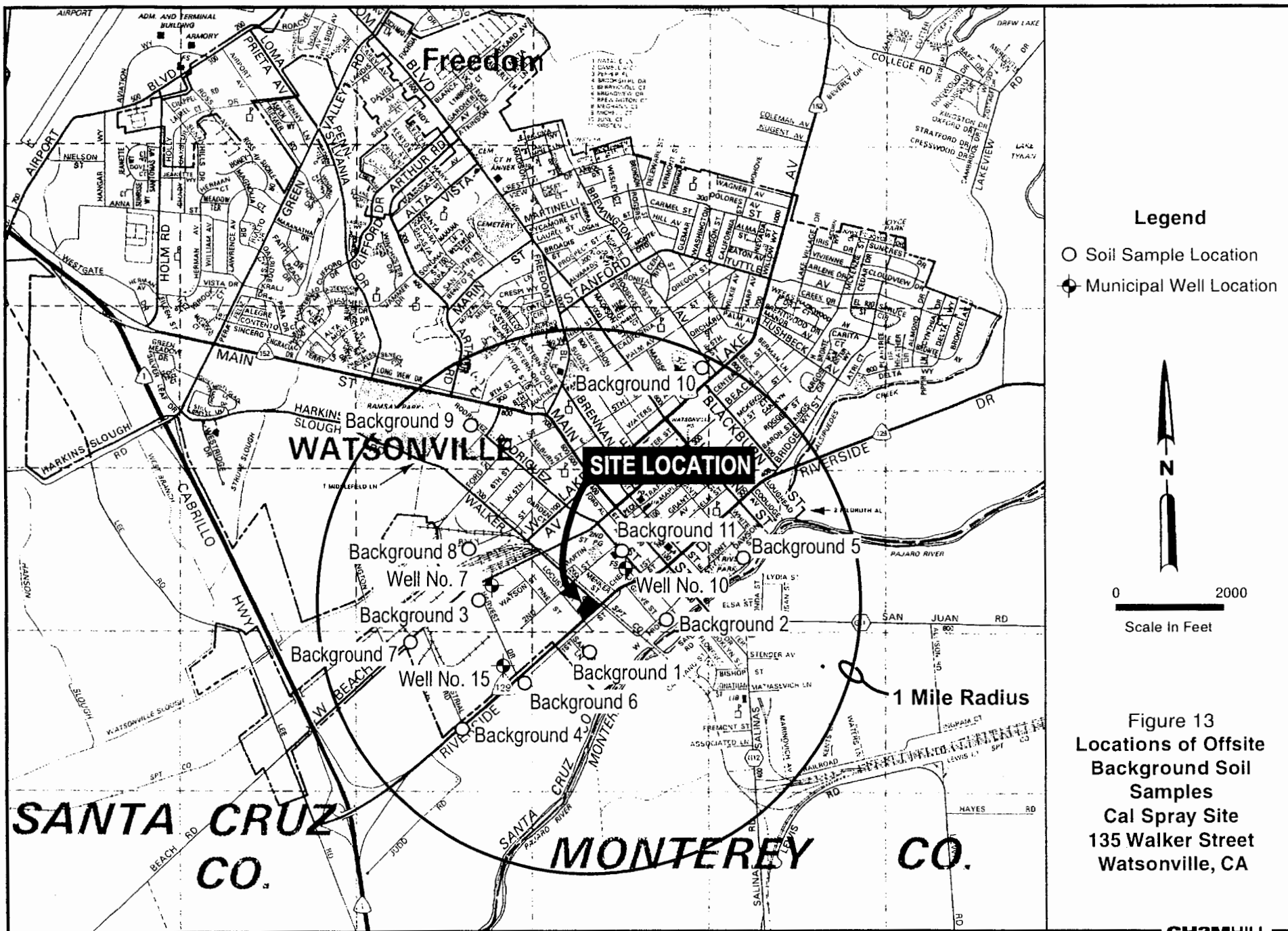


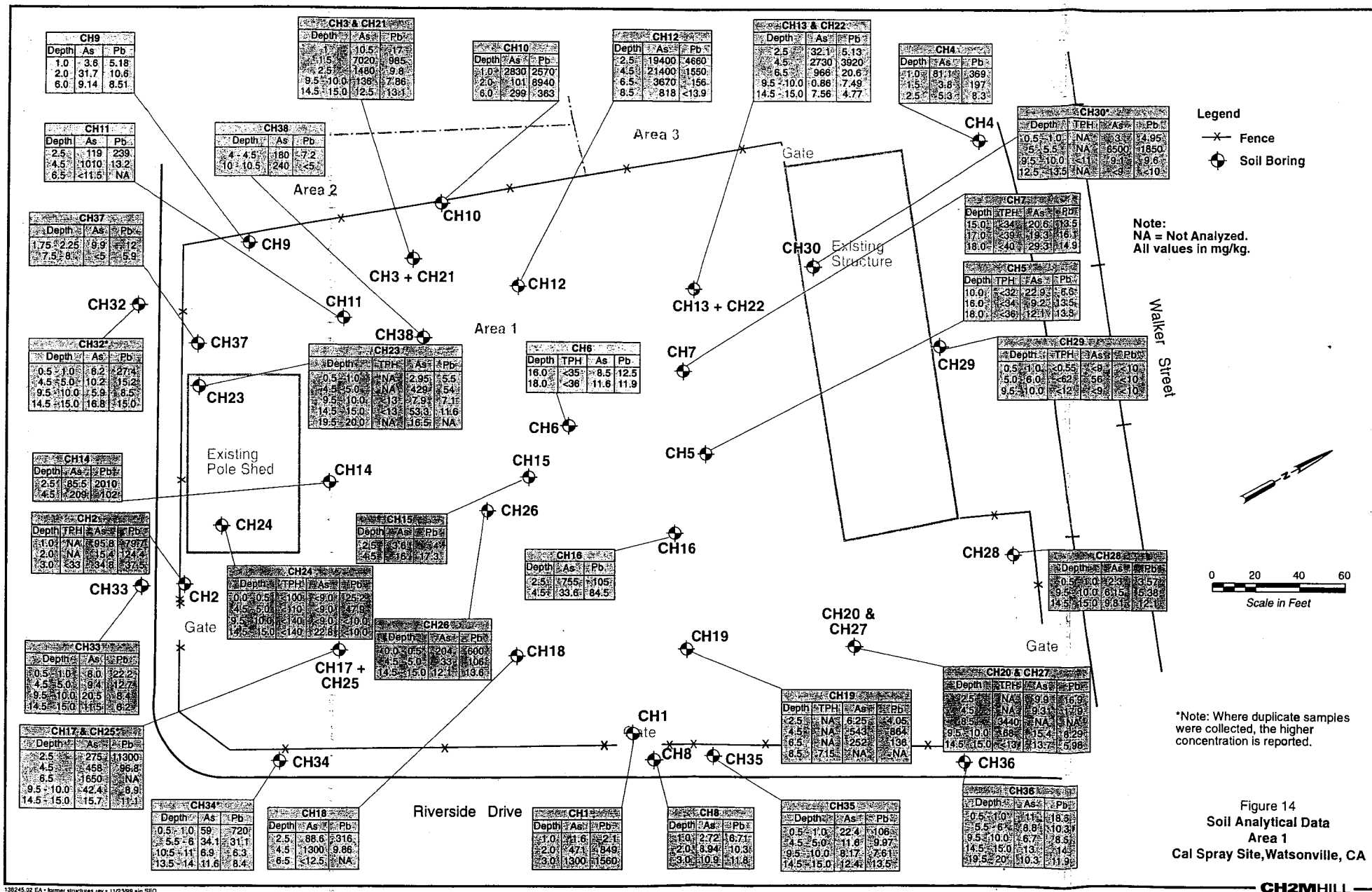
Figure 12  
 Former Onsite Structures  
 Area 1  
 Cal Spray Site  
 135 Walker Street  
 Watsonville, CA

Source:  
 Sanborn Fire Insurance Map (December 1920)

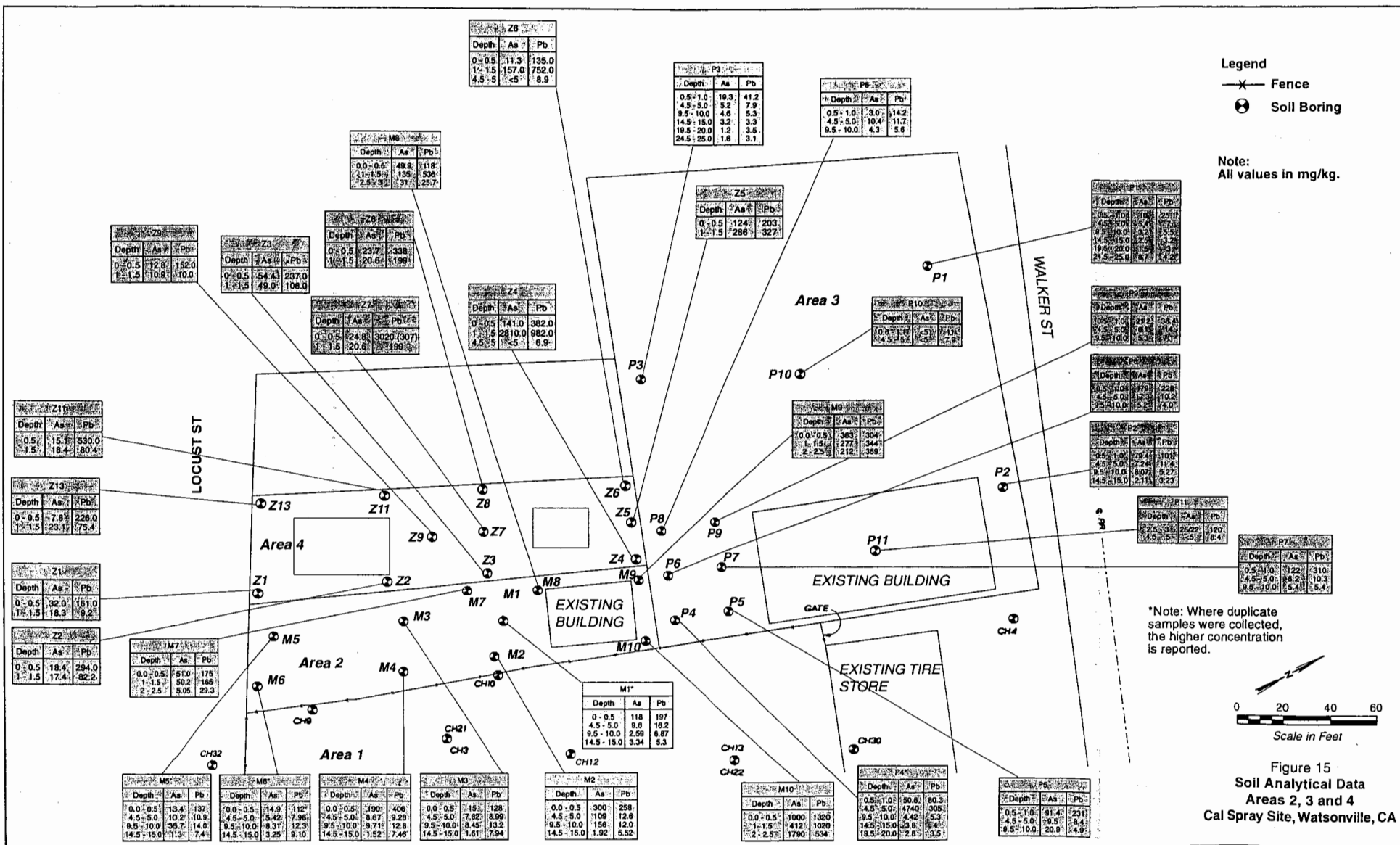






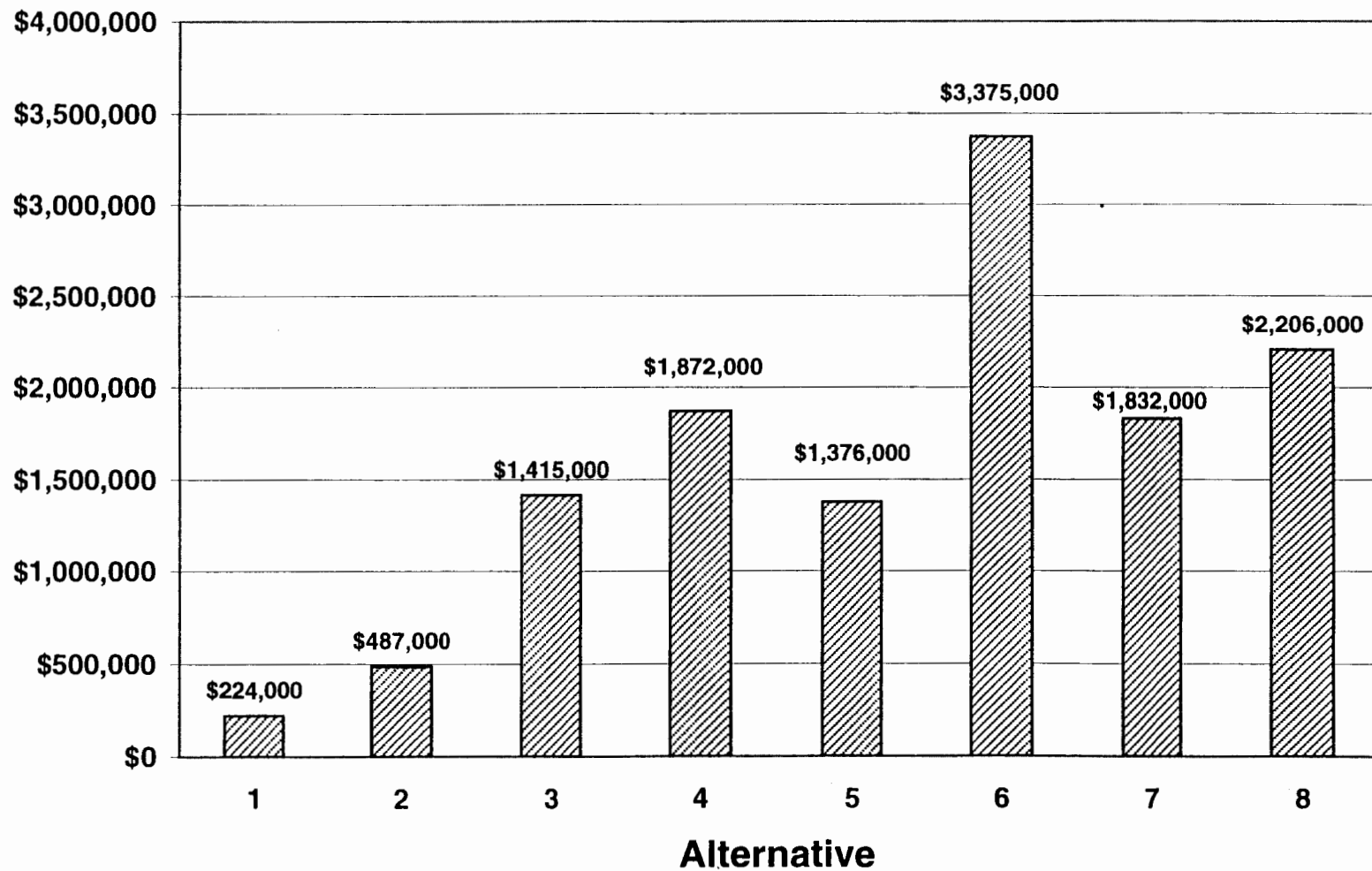








**Figure 16**  
**Remedial Alternative Costs for Area 1**





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*Remedial Action Implementation Report*

**135 Walker Street  
(Former Cal Spray Site Area 1)**

Watsonville, California

Prepared for  
**Chevron Environmental Management Company**

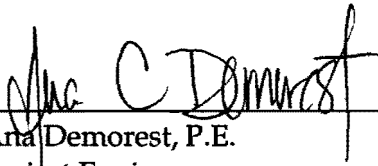
June 2002

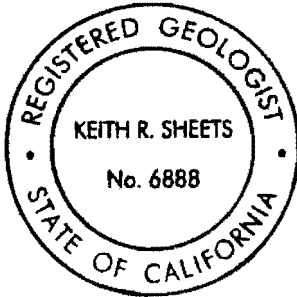
**CH2MHILL**  
155 Grand Avenue, Suite 1000  
Oakland, California 94612




This report has been prepared for Chevron Environmental Management Company by  
CH2M HILL under the supervision of:



  
\_\_\_\_\_  
Ana Demorest, P.E.  
Project Engineer



  
\_\_\_\_\_  
Keith R. Sheets, R.G.  
Project Manager





**CH2MHILL**

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**Fax 510.893.8205**

June 19, 2002

166867.01.EA

Barbara Cook  
Department of Toxic Substances Control  
700 Heinz Avenue  
Suite 200  
Berkeley, CA 94710-2737

Attention: Ryan Miya

Subject: Submittal of Area 1 Final Remedial Action Implementation Report, Cal Spray Site,  
Watsonville, CA

Dear Ms. Cook:

Enclosed are two copies of the Area 1 Final Remedial Action Implementation Report for the Cal Spray site. CH2M HILL is submitting this report on behalf of Chevron Environmental Management Company, LLC.

This report has been prepared for Chevron by CH2M HILL, under the direction of Ana Demorest, PE and Keith Sheets, RG.

If you have any questions please call me at 510-251-2888 ext. 2101 or Curt Peck/ChevronTexaco at 925-842-3561.

Sincerely,

CH2M HILL

Keith Sheets  
Project Manager

cc. Richard Hammond  
SFO\Area1\_coverltr.doc



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# 1.0 Introduction

---

This closure report presents a summary of final site conditions and a description of remedial activities performed at 135 Walker Street, also known as Area 1 of the Chevron Chemical Cal Spray site, located in Watsonville, California (Figure 1). Remedial activities were performed in accordance with the Remedial Action Work (RAW) Plan prepared by CH2M HILL and submitted to the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) in March 2001. The RAW was formally approved by DTSC in a letter dated July 26, 2001. Field activities were performed during the period of July 2001 through November 2001 by CH2M HILL Constructors, Inc. (CCI).

## 1.1 Background

The California Spray and Chemical Company, a predecessor of Chevron Chemical Company, was formed in 1907 to produce lead arsenate insecticide spray to control codling moths which were damaging apple orchards in the Pajaro Valley. The manufacturing plant was constructed in 1908 at the Cal Spray site, and produced lead arsenate, lime-sulfur solutions, and strychnine. The manufacturing process was discontinued from the site in 1929. Warehouse operations continued at the site until the early 1950's.

The Cal Spray site is comprised of four areas. The property located at 135 Walker Street is referred to as Area 1, and is the location of the former Cal Spray operations. Area 1 is bounded on the north by Walker Street, on the east by Riverside Drive, and on the south by Locust Street. Two parcels bound the property to the west. The southernmost property, located at 228 Locust Street, is referred to as Area 2. The northernmost property, located at 131 Walker Street, is referred to as Area 3. Area 4 is west of Area 2 and south of Area 3, and is located at 234 Locust Street.

Investigations were initiated at Area 1 in 1996 after discolored material was discovered during the construction of a new building. Nine sampling events have been conducted on or around the Cal Spray site between 1996 and 1999. The results of investigations conducted at the site indicate that lead and arsenic in soil are the only chemicals of potential concern (CPOC) at the Cal Spray site. Furthermore, an evaluation of analytical data collected during the field investigations (combined with a calculated ambient, or background arsenic concentration of 18 mg/kg) indicates that the horizontal extent of arsenic- and lead-impacted soil at the Cal Spray site is limited to Area 1, the northern portion of Area 2, the southeastern corner of Area 3, and the northern and southern portion of Area 4. Groundwater beneath the Cal Spray site does not appear to be impacted by arsenic or lead.

The following DTSC-approved residential soil cleanup criteria were established for the site:

- For arsenic: a sitewide average of 18 mg/kg based on the 95<sup>th</sup> quantile (the average shall be determined for each Area separately).



- For lead: a sitewide average of 210 mg/kg based on the 95<sup>th</sup> percent upper confidence limit of the mean (the average shall be determined for each Area separately).

The approved remedial action for Area 1 consists of construction of an engineered asphalt cap over the entire site, except north and southeast of the tire store building, where soil data indicate these areas were not impacted by Cal Spray residues. This alternative requires a deed restriction, the installation of clean utility corridors, and operation and maintenance (O&M) of the asphalt cap. The deed restriction will require that the land use for this property be restricted to industrial.

The major components of the selected remedy for Area 1 were as follows:

- Site preparation/demolition
- Soil excavation
- Asphalt cap construction
- Site restoration

The area to be capped as identified in the RAW is shown on Figure 2.

## 1.2 Report Organization

This report includes the following sections:

- Summary of Construction Activities
- Health and Safety
- Excavation
- Asphalt cap construction
- Air Monitoring
- Site Restoration
- Monitoring Well Installation
- Deviations from RAW
- References



## 2.0 Field Activities

---

Section 2 describes the construction activities including health and safety, excavation activities, air monitoring, asphalt cap construction, and site restoration of Area 1.

### 2.1 Summary of Construction Activities

The general chronology of activities is shown on Table 1. Mobilization activities began on July 23, 2001. Site preparation activities included the setup of staging areas, decontamination areas, and dedicated air monitoring stations. Air monitoring for arsenic and lead dusts, which was performed throughout the project during remedial excavation activities, is described in Section 2.5. Record Drawings for all remediation activities for all areas of the Cal Spray Site are included in Appendix A.

### 2.2 Health and Safety

All work at the site was performed in accordance with all applicable sections of the Occupational Safety and Health Act (OSHA), 29 Code of Federal Regulations (CFR) 1910 and 1926; specifically Title 8 California Code of Regulations 5192. All work performed at the site followed the DTSC-Approved site-specific Health and Safety Plan (CH2M HILL, July 2001). The following health and safety measures were taken during the remediation:

- All excavation work was completed in Level C and D personal protective equipment (PPE) as per the Health and Safety Plan.
- An equipment and personnel decontamination area was setup in the western portion of Area 1. Decontamination of equipment was performed with pressured water and by scraping of loose material. Decontamination procedures for personnel included a boot and glove wash and rinse, removal and proper disposal of outer clothing such as Tyvek, hand and face wash and rinse.
- Dust control measures were implemented during all excavation activities. Dust control was achieved by spreading water with a water "buffalo" (trailer) and direct spraying from a fire hose. Approximately 2000 gallons of water were used for dust suppression each day excavation activities occurred.
- Air monitoring and real-time dust monitoring was performed during periods of excavation activities as per the RAW and Health and Safety Plan. Details regarding air monitoring are provided below in Section 2.5.
- Noise monitoring was conducted using a Quest Model 2700 decibel meter during activities such as heavy vehicle and equipment operation, saw-cutting, generator operation, and excavation equipment operation. Readings were collected approximately every 30 minutes within the Exclusion Zone and at the perimeters of the Exclusion Zone, Decontamination Zone, Support Zone, and Site and compared to action level of 85 decibels. Noise action levels were not exceeded at any time during the project.



## 2.3 Excavation

### 2.3.1 Site Preparation and Demolition

Site preparation and demolition activities in Area 1 included modifications to an existing pole shed, asphalt and concrete demolition, and fence removal. The shed modifications, which included raising the shed on three sides, were performed to allow equipment access after the placement of the asphalt cap. The concrete and asphalt demolition was performed to facilitate the construction of the cap. Asphalt and concrete rubble generated during demolition activities was transported to Buena Vista Landfill for recycling. Fence removal was performed to allow the construction of new retaining walls along the perimeter of the property. The demolition plan for the site is shown on Sheet 1 of the Record Drawings (Appendix A).

### 2.3.2 Soil Excavation

Soil excavation in Area 1 was performed in limited areas to allow for placement of the asphalt concrete cap, including construction of the retaining walls and drainage facilities. It is estimated that approximately 150 cubic yards of soil were excavated. With the exception of trench excavations for the drainage facilities, the maximum excavation depth was approximately 1 foot. The excavated soil was loaded into roll-off bins and handled as per the soil management plan provided in the RAW. The excavation and removal plan is shown on Sheet 2 of the Record Drawings (Appendix A).

### 2.3.3 Soil Disposal

All soil was disposed of as non-RCRA California hazardous waste. Material was transported to Waste Management Incorporated's Kettleman Hills facility by Lutrel Trucking, Inc.

## 2.4 Asphalt Cap Construction

The remedial construction activities in Area 1 included the construction of an asphalt cap to eliminate the exposure route to lead and arsenic-impacted soil present at the site. Construction of the cap included construction of perimeter retaining walls, installation of drainage structures, and placement of the asphalt concrete (AC) pavement section. The capped area, which encompasses approximately 61,000 square feet, is shown on Figure 2 and Sheet 4 of the Record Drawings. The locations of the retaining walls are shown on Sheet 4, drainage structures are shown on Sheet 3. Details associated with the cap construction, including drainage facilities and retaining walls, are presented on Sheets 6 through 8 (Appendix A).

Prior to installation of the asphalt pavement section, retaining walls were installed to provide storm water containment and control and to protect the asphalt edge integrity. Drainage structures, including drainage grates and piping were also installed. The retaining walls and drainage structures were installed per the approved plans by DCM Construction between August 31 and October 27, 2001. Prior to any placement of concrete, DCI Inc., a certified concrete construction inspector, inspected the form work, reinforcing steel, and clearances. In addition, DCI observed each concrete pour and performed the required



concrete testing. The daily inspection reports and cylinder break test results are included in Appendix B.

The asphalt pavement section, including the leveling course, was constructed by Goebel Paving between October 10 and November 2, 2001. The asphalt pavement section includes a 7-inch layer Caltrans Type "B" asphalt concrete (AR 8000) underlain by a minimum of 4-inches of Caltrans Class II aggregate base (AB). Because the AB was used to level the site in accordance with design grades, the AB thickness ranges between approximately 4 and 12 inches. The asphalt cap was generally constructed over existing asphalt. To facilitate placement of the AB, a bonding agent was used between the existing asphalt and the AB. The AB was compacted to a minimum of 95 percent relative compaction per ASTM 1557.

The asphalt was placed in two layers: a 4-inch layer overlain by a 3-inch layer. A pavement reinforcing fabric was placed between the asphalt layers to minimize reflective cracking and to provide additional support against rutting under potential high-pressure loading caused by forklift traffic. The asphalt was compacted to a minimum of 95 percent relative compaction. A third party inspector, measuring depth, temperature and relative compaction density monitored the installation of the asphalt. The asphalt inspection reports are included in Appendix C.

## 2.5 Air Monitoring

The purpose of the air monitoring program was to provide onsite, upwind, and downwind ambient air monitoring to determine whether contaminated soils were released off site during remedial work, to ensure nearby residents, offsite workers, and onsite workers were not exposed to impacted dust, and to ensure the project complied with the state and federal air quality regulations. Air monitoring was performed during all excavation activities that occurred on Areas 1, 2, 3, and 4 using the following three methods:

1. Ambient air monitoring was performed using Total Suspended Particulate (TSP) sampling using a standard Hi-Volume TSP air sampling system.
2. Industrial hygiene air samples were collected using Dupont Alpha-1 Air Sampling pumps.
3. Real-time measurement of airborne particulates was performed using a Miniram PDM-3 dust monitor.

The details and a summary of the frequency, methodology, and results of each of these methods are discussed below.

### 2.5.1 Total Suspended Particulate Sampling

Ambient air sampling was performed using the standard Total Suspended Particulate (TSP) sampling system. This type of sampling was performed to evaluate if elevated concentrations of lead and/or arsenic were being carried offsite during soil remediation activities. The TSP filters collected during this monitoring activity were analyzed for arsenic and lead using United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP).



Air samples were collected at three locations along the perimeter of the site using high volume air samplers (See Figure 3). The air monitoring samplers were set up and periodically calibrated by Tracer ES&T, Inc. as per the RAW air monitoring plan. CCI performed the collection of air samples over an approximate 8-hour period during remedial excavation activities. Background air monitoring, prior to the start of remedial soil excavation activities, was performed during the period of August 6 through August 8, 2001 to determine the background concentrations of lead and arsenic in the ambient air. A summary of the TSP air monitoring results, which documents air quality prior to and during remedial construction activities is provided in Table 2. The Filter B air samples were collected from the upwind monitoring station, and air samples from Filters A and C were collected from downwind monitoring stations. Copies of the certified analytical reports are provided in Appendix D.

Based upon these results, an evaluation was performed using state and federal exposure guidelines. The following presents the results of that evaluation.

### **Arsenic**

Several arsenic exposure guidelines are published. The American Conference of Government Industrial Hygienists (ACGIH) threshold limit value (a time-weighted average in workroom air for an 8-hour day) is  $10 \mu\text{g}/\text{m}^3$  (ACGIH, 2000). The California Occupational Safety and Health Administration (Cal/OSHA) permissible exposure limit for construction workers is  $200 \mu\text{g}/\text{m}^3$  (8-hour time weighted average) for organic arsenic and  $10 \mu\text{g}/\text{m}^3$  for inorganic arsenic (OSHA, 1996). National Institute for Occupational Safety and Health (NIOSH) (NIOSH, 1997) has recommended  $2 \mu\text{g}/\text{m}^3$  as the limit. The State of California has published an acute Reference Exposure Level (REL) of  $0.19 \mu\text{g}/\text{m}^3$  (OEHHA, 2002). The acute REL is intended to protect an individual from adverse health effects due to short-term exposure (i.e., 4-hour exposure). The results of the arsenic monitoring indicate that the maximum concentration of arsenic detected at the downwind monitoring station was  $0.15 \mu\text{g}/\text{m}^3$  (detected on September 11, 2001). This maximum concentration is less than the acute REL established by OEHHA and far less than either the OSHA or ACGIH values.

It is apparent from the above results that inhalation of arsenic and lead in dust as a result of excavation activities are well below ambient air quality standards for individuals or industrial workers. It is therefore concluded that adverse health impacts would not be expected to occur to the onsite workers or offsite residents or workers.

### **Lead**

Lead-bearing dust and fumes serve as the major sources of exposure for workers through the inhalation and ingestion pathways (ATSDR, 2000). The California OSHA permissible exposure limit (PEL) for lead in the workplace is  $50 \mu\text{g}/\text{m}^3$  averaged over an 8-hour workday for workers in general industry. The NIOSH recommended the exposure limit of  $50 \mu\text{g}/\text{m}^3$  to be maintained so that worker blood lead remains less than  $60 \mu\text{g}/\text{dL}$  of whole blood. The ACGIH has set a threshold limit value for a time-weighted average (TLV/TWA) of  $50 \mu\text{g}/\text{m}^3$  for lead in workspace air. The TLV/TWA guideline represents the average concentrations to which most workers may be exposed without adverse effects. Finally, EPA has set a National Ambient Air Quality Standard for lead of  $1.5 \mu\text{g}/\text{m}^3$  averaged over a calendar quarter. This standard is intended to protect the most susceptible persons (e.g.,



children) in the general population. The results of the lead monitoring indicate that the maximum concentration of lead detected at the downwind monitoring station was  $0.162 \mu\text{g}/\text{m}^3$  (detected on September 11, 2001). This maximum concentration is less than the PEL ( $50 \mu\text{g}/\text{m}^3$ ) established by OSHA and NIOSH for workplace safety.

It is apparent from the above results that inhalation of lead in dust as a result of excavation activities are well below ambient air quality standards for individuals or industrial workers. It is therefore concluded that adverse health impacts would not be expected to occur to the onsite workers or offsite residents or workers.

## 2.5.2 Industrial Hygiene Air Samples

Industrial hygiene samples were collected following NIOSH Analytical Method 7300 to evaluate airborne exposures for construction workers to arsenic and lead during the first two days of soil excavation activities at the Chevron Cal Spray site, and to evaluate concentrations of lead and arsenic in the ambient air at the fenceline. Industrial hygiene air samples were collected using Dupont Alpha-1 Air Sampling pumps fitted with 37 mm sampling cartridges that contained a  $0.8 \mu\text{m}$  cellulose ester membrane filter. Sampling pumps were calibrated prior to and after sampling activities using a Mini-Buck wet cell calibrator.

Air samples were collected during the first two days of excavation activities in Area 2. Samples were collected to evaluate personal exposure to arsenic and lead during the excavation of contaminated soil to evaluate if the level of personal protective equipment worn by onsite personnel was appropriate. Additionally, air samples were collected along the fence line located between Area 2 and Area 4 to evaluate if arsenic or lead were being carried offsite and towards the residence located in Area 4. Sampling pumps were typically started at the beginning of both shifts and were allowed to run for a total of around 8 hours.

The sampling locations and the results of the industrial hygiene samples are shown on Table 3. None of the samples contained arsenic or lead above the analytical detection limit of  $0.001 \text{ mg}/\text{m}^3$ .

## 2.5.3 Real-time Dust Monitoring

Real-time measurement of airborne particulates was performed during all excavation activities using a Miniram PDM-3 dust monitor. Readings were initially collected at 15 minute intervals, and later adjusted to 30 minutes. The dust monitor was used to measure dust at various locations around the site. Table 4 summarizes the times, locations, and results of the real-time dust monitoring. As per the Health and Safety Plan (CH2M HILL, 2001), based on worst case dust exposure calculations, the permissible limit for a total dust mixture was  $0.11 \text{ mg}/\text{m}^3$  (with a safety factor of 4 built into the equation). All dust measurements were well below this concentration for the duration of the excavation activities.

## 2.6 Site Restoration

Site restoration activities in Area 1 included the installation of a 6 to 8 foot high commercial chain link fence with brown PVC privacy slats. Fence posts were installed through and into



the retaining wall in most locations. However, in areas where the retaining walls were offset from the original fence line, the fence was installed behind the retaining wall. The new fencing replaced the existing fence along the same fence line. Two new rolling gates were installed at the entrances on Riverside Drive and Locust Avenue. The fencing plan is shown on Sheet 5 of the Record Drawings.



## 3.0 Monitoring Well Installation

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Part of the O&M requirements of the asphalt cap include the installation and sampling of groundwater monitoring wells. Three (3) monitoring wells were installed at the site on February 19, February 20, and March 19, 2002, at locations shown on Figure 2. The monitoring wells were installed to total depth ranging from 30.0 to 34.5 feet bgs. All monitoring wells were constructed with 2-inch diameter Schedule 40 PVC with 10 feet of 0.020-inch slotted screen and completed with a steel flush-mounted well box. Soil boring logs and well completion diagrams are included in Appendix E. Details regarding monitoring well installation and development will be reported in the first Groundwater Monitoring Report.



## 4.0 Deviations from RAW or Construction Plans

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This section summarizes activities and conditions encountered during the performance of the remedial work that were found to differ from the RAW. The noted difference is as follows:

- The asphalt pavement design presented in the RAW was modified to reduce concerns regarding the pavement performance, improve constructability of the pavement section, and decrease costs of the asphalt overlay. The asphalt cap design was changed from an 11-inch full depth asphalt concrete (AC) section to a section consisting of a 7-inch Caltrans Type 'B' AC layer underlain by a minimum of 4 inches of Caltrans Class II aggregate base (AB). The new section included a pavement reinforcing fabric sandwiched between a 3-inch layer and a 4-inch layer of AC. The re-design is consistent with the design method presented in the Caltrans Highway Design Manual.

Detailed justification and engineering calculations for the pavement section re-design were presented in a letter to DTSC from CH2M HILL dated August 15, 2001. DTSC approved of the modified design in a letter dated September 6, 2001 (approval letter included in Appendix F). The pavement section re-design was based on several concerns of the original design, including the following:

- The original design contained a permeable "open graded" asphalt layer to act as a drainage layer. This layer would not have the ability to drain, as there are retaining walls around the downgradient edges of the site. Further, the "open graded" asphalt layer, did not have the compaction requirements of dense graded asphalt, therefore the pavement may be susceptible to rutting. This layer was removed from the design.
- The traffic index (TI) used for the original pavement design was excessive (TI = 8.5). Caltrans has standard TIs for roadside rests, which are applicable to the site in terms of truck usage. The Caltrans standard is TI=8 for truck roads and ramps, TI=6 for truck parking. A TI of 7 was used for the re-design, resulting in an AC thickness of 7-inches.
- The 4-inch aggregate base (minimum thickness) was use as a leveling course, improving the constructability of the cap. The aggregate base will also help minimize the propagation of reflection cracks.
- The addition of a pavement-reinforcing fabric will further help minimize rutting.
- The asphalt specification in the original design was not a Caltrans standard asphalt 'mix' and is higher-cost. The re-design specified standard Caltrans Type 'B' AC.



## 5.0 References

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## Tables



**Table 1**  
**Chronology of Activities**

<b>Construction Activity</b>	<b>Start</b>	<b>Finish</b>
<b>Mobilization</b>	<b>7-23-01</b>	<b>7-23-01</b>
<b>Site Preparation/Demolition</b>	<b>7-24-01</b>	<b>8-30-01</b>
<b>Soil Excavation, Transport, &amp; Disposal</b>	<b>8-13-01</b>	<b>9-07-01</b>
<b>Asphalt Cap Construction</b>	<b>8-31-01</b>	<b>11-02-01</b>
<i>Retaining Wall and Drainage Facilities</i>	<i>8-31-01</i>	<i>10-27-01</i>
<i>Asphalt Pavement Installation</i>	<i>10-10-01</i>	<i>11-02-01</i>
<b>Site Restoration</b>	<b>11-02-01</b>	<b>12-04-01</b>



**Table 2: Areas 1, 2, and 3**  
**Total Suspended Particulate Air Monitoring Results**  
**Cal Spray Site, Watsonville, California**

Activity Monitored	Date	tsp concentrations (mg/m <sup>3</sup> )			arsenic concentrations (ug/m <sup>3</sup> )			lead concentrations (ug/m <sup>3</sup> )		
		Filter A	Filter B	Filter C	Filter A	Filter B	Filter C	Filter A	Filter B	Filter C
baseline	08/06/2001	NA	0.244	0.158	NA	<0.0002	<0.0002	NA	0.008	0.005
baseline	08/07/2001	NA	0.136	0.150	NA	<0.0002	<0.0002	NA	0.013	0.007
baseline	08/08/2001	NA	0.090	0.096	NA	<0.0002	<0.0002	NA	0.007	0.014
excavation	08/13/2001	0.173	0.080	0.111	0.002	0.001	0.001	0.013	0.007	0.007
excavation	08/14/2001	0.137	0.081	0.083	0.002	0.001	0.004	0.012	0.006	0.008
excavation	08/15/2001	0.214	0.059	0.149	0.004	0.001	0.004	0.018	0.005	0.012
excavation	08/16/2001	0.154	0.069	0.078	0.002	0.003	0.005	0.009	0.009	0.012
excavation	08/17/2001	0.194	0.069	0.131	0.005	0.002	0.005	0.031	0.009	0.015
excavation	08/20/2001	0.111	0.039	0.153	<0.0002	<0.0002	0.021	0.013	0.003	0.040
excavation	08/21/2001	0.177	0.072	0.080	<0.0002	<0.0002	0.003	0.011	0.007	0.008
excavation	08/22/2001	0.173	0.078	0.248	0.001	<0.0002	0.039	0.018	0.002	0.040
excavation	08/23/2001	0.119	0.068	0.322	0.010	<0.0002	0.055	<0.0001	0.005	0.064
excavation	08/24/2001	0.188	0.064	0.088	0.000	<0.0004	0.005	0.010	<0.0002	0.016
excavation	08/27/2001	0.258	0.085	0.427	0.003	<0.0002	0.053	0.014	0.003	0.051
excavation	08/28/2001	0.206	0.011	0.427	<0.0002	<0.0002	0.047	0.011	<0.0001	0.043
excavation	08/29/2001	0.103	0.045	0.240	<0.0002	<0.0002	0.031	0.007	0.003	0.033
excavation	09/05/2001	0.286	0.088	0.170	0.020	0.009	0.034	0.024	0.013	0.035
excavation	09/11/2001	0.217	0.111	0.767	0.014	0.005	0.151	0.029	0.014	0.162
excavation	10/10/2001	0.058	NA	0.232	0.016	NA	0.010	0.027	NA	0.028

Samples with "<" indicate non-detect samples

NA = Not Analyzed



**Table 3**  
**Industrial Hygiene Sample Results**  
**Cal Spray Site, Watsonville, California**

<b>Sample No.</b>	<b>Date Collected</b>	<b>Sample Location</b>	<b>Pump #</b>	<b>Results (for Lead and Arsenic) mg/m<sup>3</sup></b>
CCS-0813-01	08/13/2001	Victor Leopoldo	7253	<0.001
CCS-0813-02	08/13/2001	Aaron Wolf	10932	<0.001
CCS-0813-03	08/13/2001	Jeff Deakin	10901	<0.001
CCS-0813-04	08/13/2001	On Fence between Areas 2 and 4 (near front of house)	6069	<0.001
CCS-0813-05	08/13/2001	On Fence between Areas 2 and 4 (near rear of house)	3415	<0.001
CCS-0814-02	08/14/2001	Louis Rios	7253	<0.001
CCS-0814-03	08/14/2001	On Fence between Areas 2 and 4 (near front of house)	10901	<0.001
CCS-0814-04	08/14/2001	On Fence between Areas 2 and 4 (near rear of house)	10932	<0.001



**Table 4**  
**Real-Time Dust Monitoring Results**  
**Cal Spray Site, Watsonville, California**

Time	Concentration (mg/m <sup>3</sup> )	Prevailing Direction	Location
8/13/01 8:50 AM	0	downwind	immediately adjacent to excavation at sample node 19
8/13/01 9:05 AM	0	upwind	corner of Area 2 and Area 4 properties at Locust St.
8/13/01 9:20 AM	0	downwind	back bay door of Dixon Tire shop
8/13/01 9:37 AM	0	downwind	corner of Area 1 and Area 2 properties at Locust St.
8/13/01 9:50 AM	0.003	downwind	entrance at Riverside
8/13/01 10:05 AM	0	downwind	immediately adjacent to excavation at sample node 19
8/13/01 10:20 AM	0.006	upwind	back corner of Scotts valley building
8/13/01 10:35 AM	0.006	downwind	middle of pallet shed
8/13/01 10:50 AM	0.015	downwind	corner of Area 1 and Area 2 properties at Locust St.
8/13/01 11:05 AM	0.026	downwind	at power pole on Area 1 property
8/13/01 11:20 AM	0.033	upwind	outside corner of Area 2 and Area 4 at Locust St.
8/13/01 11:35 AM	0.016	downwind	middle of Area 1 property at power pole
8/13/01 11:50 AM	0.022	downwind	at CCI office trailer
8/13/01 12:05 AM	0.017	downwind	at power pole on Area 1 property
8/13/01 12:23 AM	0.028	upwind	corner of Riverside and Locust
8/13/01 12:40 AM	0.028	upwind	back corner of Scotts valley building
8/13/01 12:55 AM	0.023	upwind	corner of Area 1 and Area 2 properties at Locust St.
8/13/01 1:45 PM	0.03	downwind	at power pole on Area 1 property
8/13/01 2:15 PM	0.021	downwind	back bay door of Dixon Tire shop
8/13/01 2:33 PM	0.013	upwind	outside corner of Area 2 and Area 4 at Locust St.
8/13/01 2:45 PM	0.015	downwind	immediately adjacent to excavation at sample node 19
8/13/01 3:00 PM	0.019	upwind	back corner of Area 4 and Area 3 property
8/14/01 8:00 AM	0	upwind	outside corner of Area 2 and Area 4 at Locust St.
8/14/01 8:15 AM	0	downwind	at power pole on Area 1 property
8/14/01 8:30 AM	0.003	downwind	at CCI office trailer
8/14/01 8:45 AM	0	upwind	corner of Area 1 and Area 2 properties at Locust St.
8/14/01 9:00 AM	0.036	downwind	entrance at Riverside
8/14/01 9:15 AM	0.05	upwind	corner of Riverside and Locust
8/14/01 9:30 AM	0.03	downwind	Area 1 property ~100 yd. Behind Locust immediately behind loading truck
8/14/01 9:45 AM	0.045	upwind	outside corner of Area 2 and Area 4 at Locust St. immediately behind excavator
8/14/01 10:03 AM	0.053	downwind	back bay door of Dixon Tire shop
8/14/01 10:15 AM	0.041	downwind	Area 1 driveway at Locust
8/14/01 11:15 AM	0.05	downwind	immediately adjacent to excavation on Area 2 property next to sample node 15
8/14/01 12:00 PM	0.061	upwind	back corner of Scotts valley building
8/15/01 8:00 AM	0	upwind	outside corner of Area 2 and Area 4 at Locust St. immediately behind excavator
8/15/01 8:30 AM	0	downwind	at power pole on Area 1 property immediately adjacent to excavator
8/15/01 9:00 AM	0	downwind	entrance at Riverside
8/15/01 10:00 AM	0.016	downwind	corner of Area 1 and Area 2 properties at Locust St.
8/15/01 10:30 AM	0.036	upwind	outside corner of Area 2 and Area 4 at Locust St.
8/15/01 11:00 AM	0.047	downwind	back bay door of Dixon Tire shop
8/15/01 11:30 AM	0.038	downwind	middle of Area 1 property adjacent to excavation & excavator



**Table 4**  
**Real-Time Dust Monitoring Results**  
**Cal Spray Site, Watsonville, California**

<b>Time</b>	<b>Concentration (mg/m<sup>3</sup>)</b>	<b>Prevailing Direction</b>	<b>Location</b>
8/15/01 12:30 AM	0.037	upwind	outside corner of Area 2 and Area 4 at Locust St.
8/16/01 8:00 AM	0	downwind	at power pole on Area 1 property
8/16/01 8:30 AM	0	upwind	Area 1 entrance at Locust
8/16/01 10:00 AM	0.008	downwind	back bay door of Dixon Tire shop
8/20/01 8:40 AM	0	upwind	Area 1 entrance at Locust
8/20/01 9:00 AM	0	downwind	back bay door of Dixon Tire shop
8/20/01 9:30 AM	0	downwind	at power pole on Area 1 property immediately adjacent to excavator & auger
8/20/01 10:00 AM	0	downwind	entrance at Riverside
8/20/01 10:40 AM	0	downwind	corner of Area 1 and Area 2 properties at Locust St.
8/20/01 11:00 AM	0	upwind	corner of Area 2 and Area 4 at Locust St.
8/20/01 12:15 AM	0	downwind	at power pole on Area 1 property immediately adjacent to excavator & auger
8/20/01 1:00 PM	0	upwind	corner of Riverside and Locust
8/20/01 1:30 PM	0	downwind	at power pole on Area 1 property immediately adjacent to auger
8/20/01 2:00 PM	0	upwind	corner of Area 2 and Area 4 at Locust St.
8/20/01 2:30 PM	0.02	downwind	entrance at Riverside
8/20/01 3:00 PM	0.015	downwind	back bay door of Dixon Tire shop
8/20/01 3:30 PM	0.023	downwind	entrance at Riverside
8/22/01 7:55 AM	0	downwind	Area 1 driveway at Locust
8/22/01 8:30 AM	0	downwind	at power pole on Area 1 property immediately adjacent to excavator
8/22/01 9:01 AM	0	downwind	back bay door of Dixon Tire shop
8/22/01 9:25 AM	0	downwind	at power pole on Area 1 property immediately adjacent to excavator
8/22/01 10:00 AM	0.03	downwind	entrance at Riverside
8/22/01 10:30 AM	0.002	downwind	Area 2 & Area 4 property line at back corner of Area 4 house from Area 2 property
8/22/01 10:58 AM	0.013	downwind	corner of Area 1 and Area 2 properties at Locust St.
8/22/01 11:32 AM	0.032	upwind	corner of Area 2 and Area 4 at Locust St.
8/22/01 12:00 PM	0.06	downwind	entrance at Riverside
8/22/01 12:30 PM	0.023	downwind	Area 2 & Area 4 property line at back corner of Area 4 house from Area 2 property
8/22/01 1:00 PM	0.005	downwind	Area 1 driveway at Locust
8/22/01 1:30 PM	0.014	upwind	corner of Area 2 and Area 4 at Locust St.
8/22/01 2:30 PM	0.02	downwind	back bay door of Dixon Tire shop
8/22/01 8:06 AM	0	downwind	corner of Area 1 and Area 2 properties at Locust St.
8/22/01 8:30 AM	0.022	upwind	corner of Area 2 and Area 4 at Locust St.
8/22/01 8:55 AM	0.017	downwind	entrance at Riverside
8/22/01 9:30 AM	0.02	upwind	back corner of Scotts valley building
8/22/01 9:56 AM	0.025	downwind	at CCI office trailer
8/22/01 11:20 AM	0.03	downwind	Area 2 & Area 4 property line at back corner of Area 4 house from Area 2 property
8/22/01 11:55 AM	0.028	downwind	at power pole on Area 1 property
8/22/01 12:25 PM	0.02	upwind	corner of Riverside and Locust
8/23/01 8:06 AM	0	downwind	corner of Area 1 and Area 2 properties at Locust St.
8/23/01 8:30 AM	0.022	upwind	corner of Area 2 and Area 4 at Locust St.



**Table 4**  
**Real-Time Dust Monitoring Results**  
**Cal Spray Site, Watsonville, California**

<b>Time</b>	<b>Concentration (mg/m<sup>3</sup>)</b>	<b>Prevailing Direction</b>	<b>Location</b>
8/23/01 8:55 AM	0.017	downwind	entrance at Riverside
8/23/01 9:30 AM	0.02	upwind	back corner of Scotts valley building
8/23/01 9:56 AM	0.025	downwind	at CCI office trailer
8/23/01 11:20 AM	0.038	upwind	Area 2 & Area 4 property line at back corner of Area 4 house from Area 2 property
8/23/01 11:55 AM	0.028	downwind	at power pole on Area 1 property
8/23/01 12:25 PM	0.02	downwind	corner of Riverside and Locust
9/5/01 8:32 AM	0	downwind	entrance at Riverside
9/5/01 9:00 AM	0	downwind	Area 2 & Area 4 property line at back corner of Area 4 house from Area 2 property
9/5/01 9:36 AM	0.001	downwind	at power pole on Area 1 property
9/5/01 10:00 AM	0	downwind	Area 1 driveway at Locust
9/5/01 11:11 AM	0	downwind	at CCI office trailer
9/11/01 7:55 AM	0	downwind	entrance at Riverside
9/11/01 8:31 AM	0	downwind	Area 2 & Area 4 property line at back corner of Area 4 house from Area 2 property
9/11/01 9:45 AM	0	downwind	at power pole on Area 1 property
9/11/01 10:30 AM	0	downwind	Area 1 driveway at Locust
9/11/01 11:53 AM	0	downwind	at CCI office trailer



## Figures



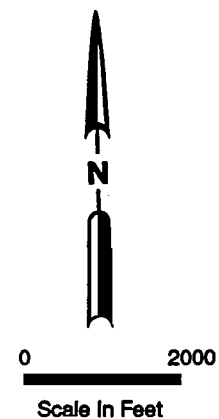
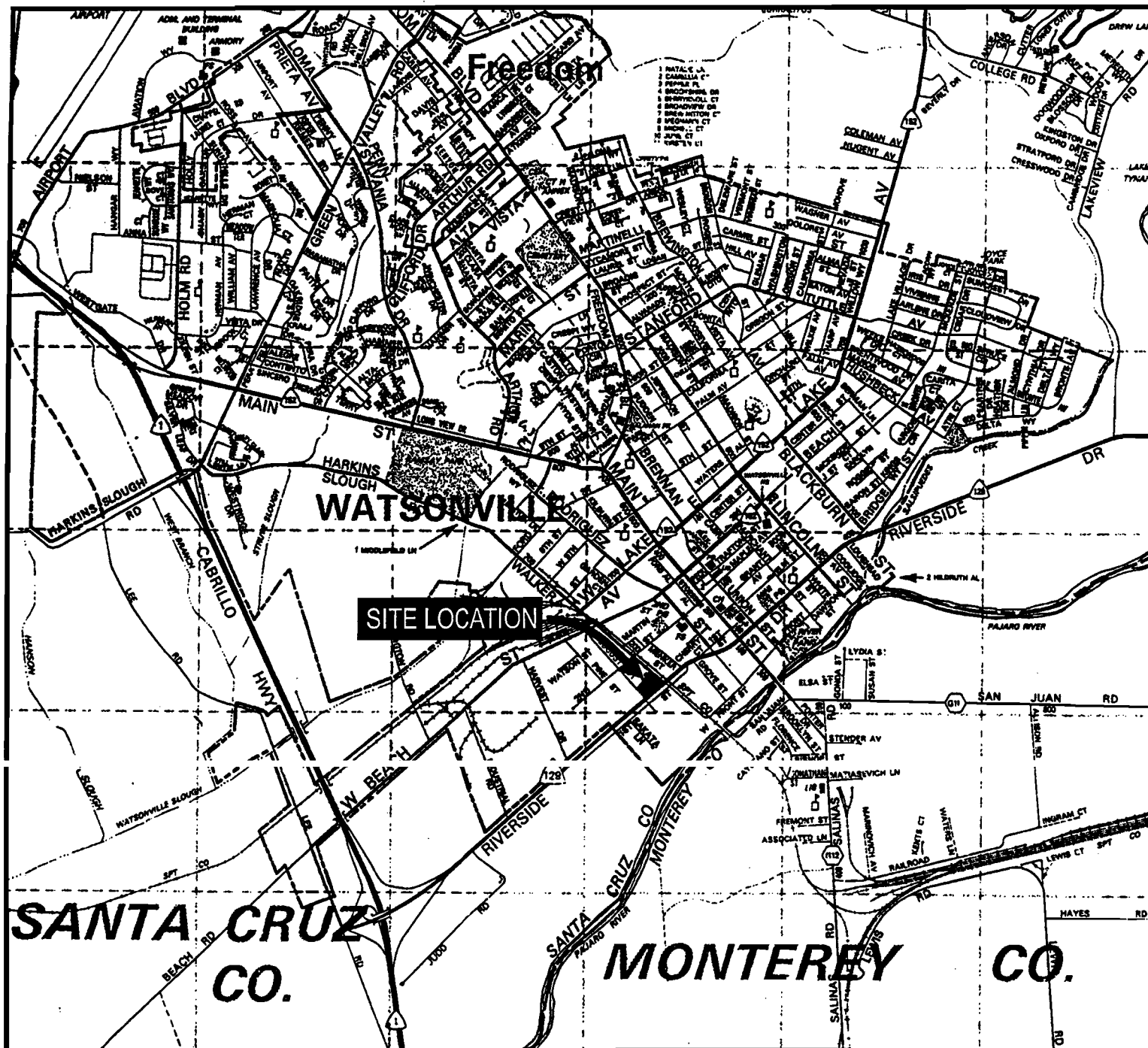
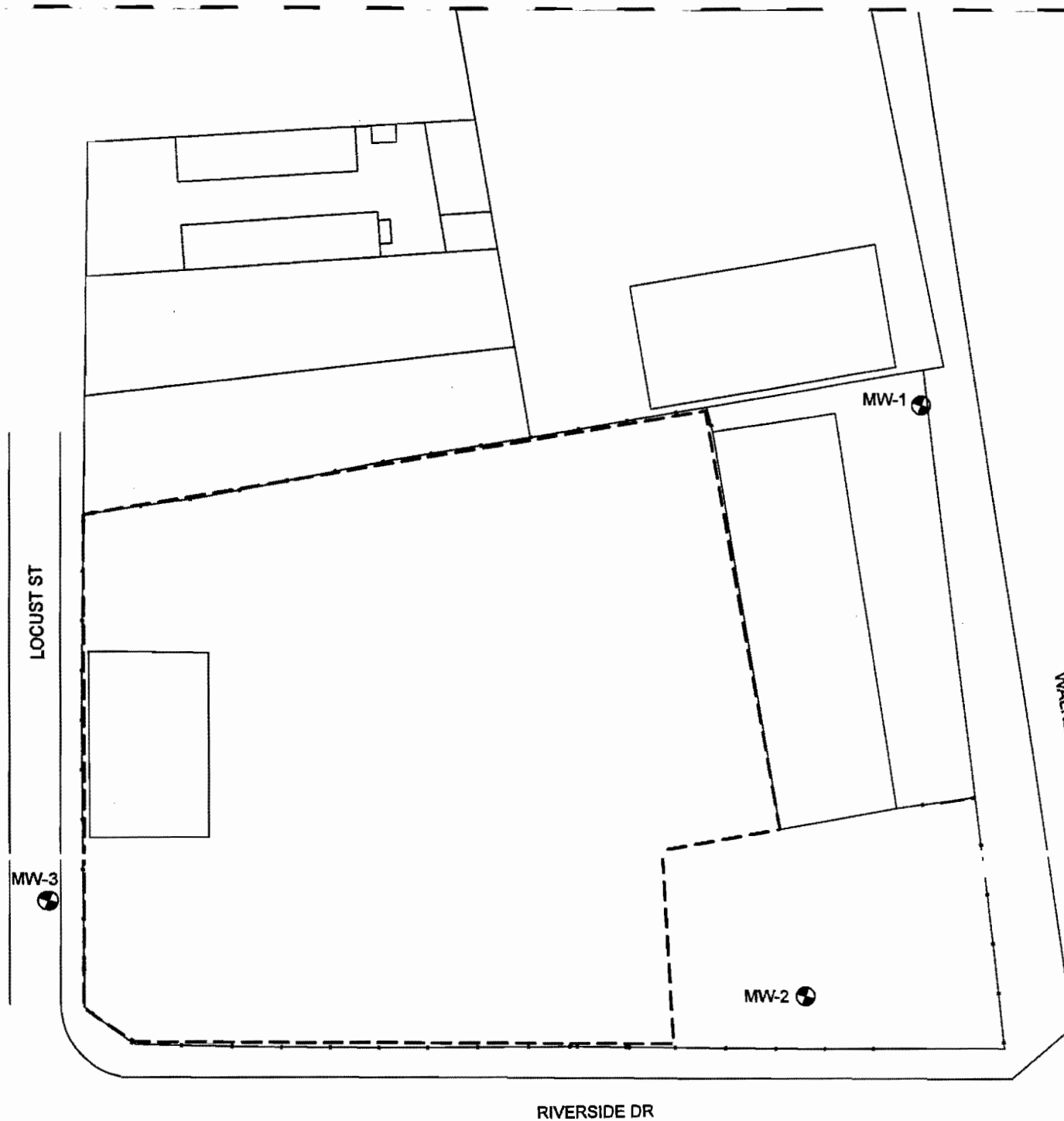


Figure 1  
 Site Location  
 Cal Spray Site  
 135 Walker Street  
 Watsonville, CA





# **LEGEND**

- MONITORING WELL
- AREA COVERED BY CAP

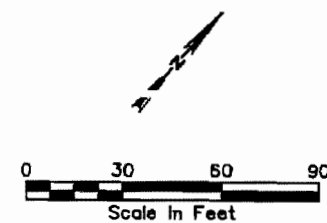
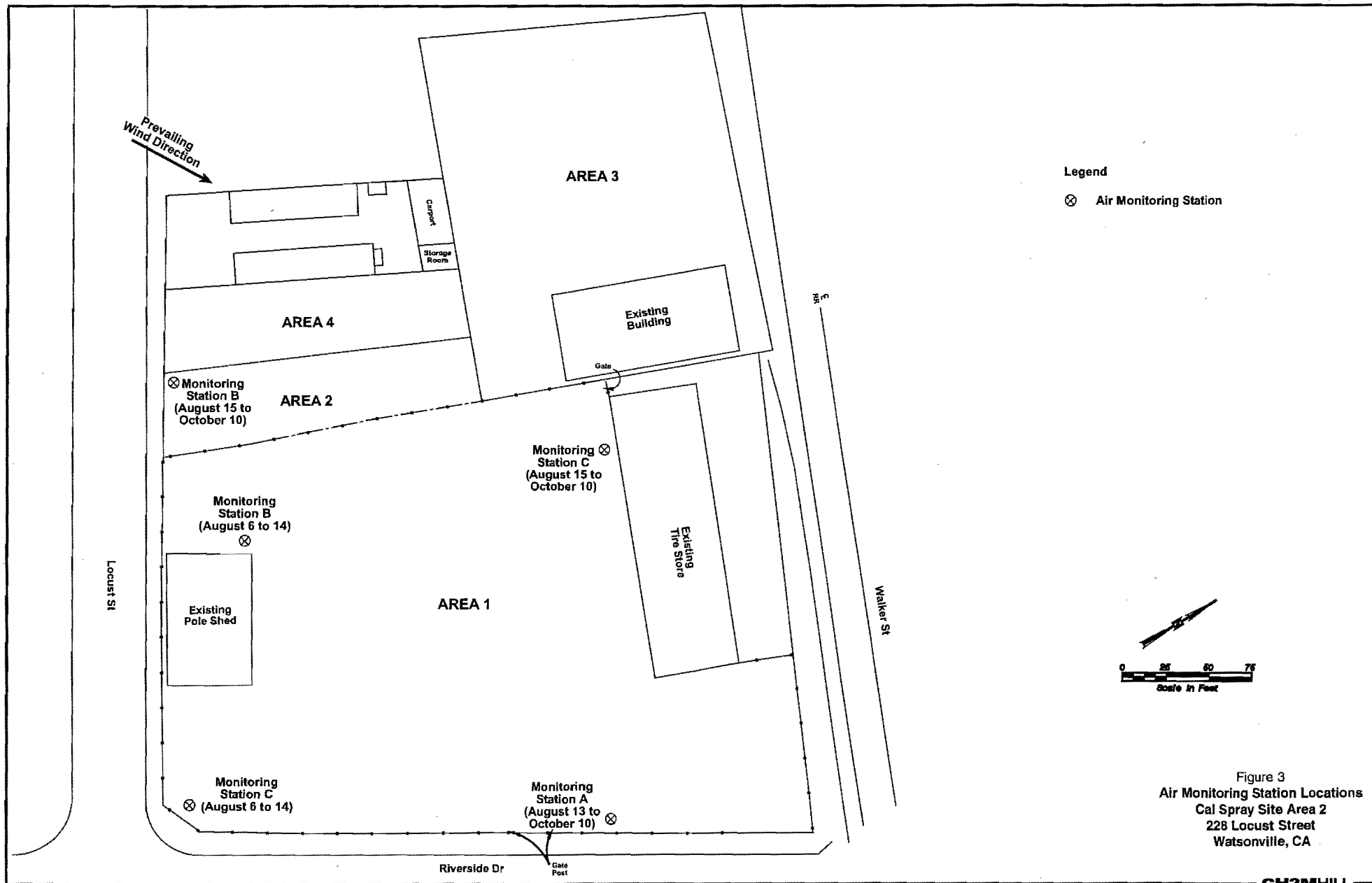


Figure 2  
Site Map  
Cal Spray Site  
Watsonville, CA

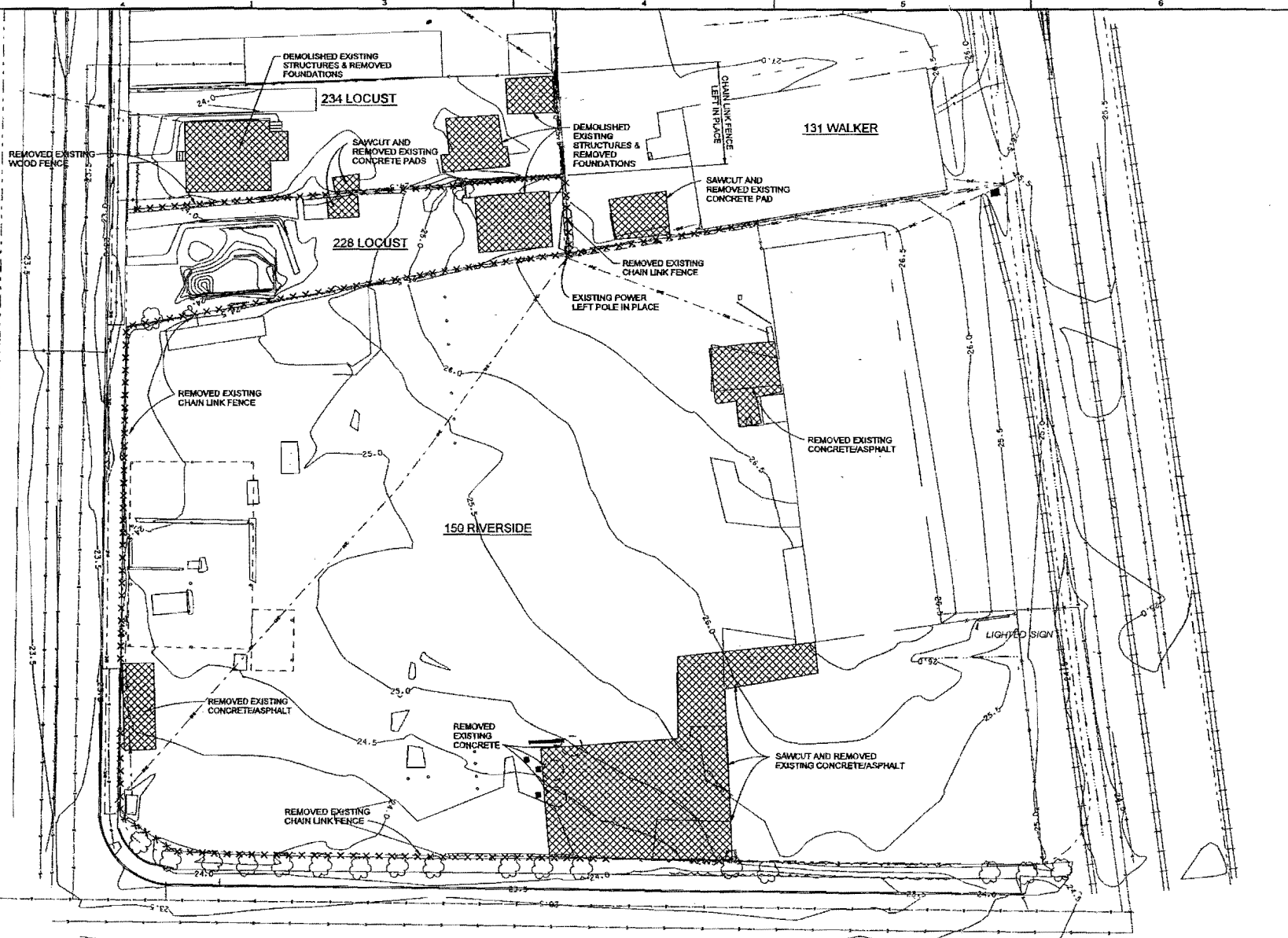
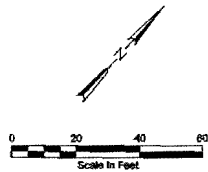






**Appendix A**  
**Record Drawings**





RECORD  
DRAWING

DSGN D. RITZMAN  
DR S. LEONG  
CHK G. GORE  
APVD A. DEMOREST

NO. DATE

REVISION

BY APVD

VERIFY SCALE  
BAR IS ONE INCH ON  
ORIGINAL DRAWING.  
IF NOT ONE INCH ON  
THIS SHEET, ADJUST  
SCALES ACCORDINGLY.

**CH2MHILL**

Cal Spray Site  
135 Walker Street  
Watsonville, California

CHEVRON CAL SPRAY PROJECT  
DEMOLITION PLAN

SHEET	1
DWG	C-1
DATE	FEB 2002
PROJ	130246.02.ED

FILENAME: 36145001.dgn

PLOT DATE: 28-FEB-2002

PLOT TIME: 15:26:19

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 EARTH QUAKE DEBRIS  
REMOVAL LIMITS

 EXCAVATION LIMITS

1. GRATES AND DRAINS FIELD FIT TO MATCH GATE AND DOORWAY WIDTHS.
2. EXCAVATION LIMITS DO NOT INCLUDE AREAS OF SLOPING OR BENCHING NECESSARY FOR CONSTRUCTION.

RECORD  
DRAWING

DSON		P RITZMAN							VERIFY SCALE
DR		A WONG							BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK		C GORE	1	502	REMOVED EXCAVATION DEVISION		FP	ACD	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APVD		DEMAREST	NO.	DATE	REVISION		8Y	APVD	

**CH2MHILL**

\*Cal Spray Site  
135 Walker Street  
Watsonville, California

CHEVRON CAL SPRAY PROJECT  
EXCAVATION AND REMOVAL PLAN

SHEET	2
DWG	C-2
DATE	FEB 2002
PROJ	136245.02.ED

FILENAME: 35245c02.dgn PLOT DATE: 18-JUN-2002 PLOT TIME: 18:02:51

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NOTES:

1. GRATES AND DRAINS FIELD FIT TO MATCH GATE AND DOORWAY WIDTHS.
2. AREAS RESTORED TO APPROXIMATE PRE-CONSTRUCTION GRADES, WITH COMPLETE DRAINAGE TO EXISTING CURB AND GUTTER SYSTEM.
3. FILL MATERIAL PLACED IN MAXIMUM 6-INCH LOOSE LIFTS AND COMPACTED TO NOT LESS THAN 90 PERCENT RELATIVE COMPACTION PER MODIFIED PROCTOR (ASTM 1557) COMPACTION TEST. IN UPPER 2 FEET FILL COMPACTED TO NO LESS THAN 95 PERCENT COMPACTION. AGGREGATE BASE MATERIAL COMPACTED TO NO LESS THAN 95 PERCENT RELATIVE COMPACTION.



GRATE AT EL. 23.31  
(SEE DRAINAGE  
GRATE DETAIL 5) NOTE 1  
CURB DRAIN  
(SEE DETAIL 6)

STREET STORM  
DRAIN  
CURB DRAIN  
(SEE DETAIL 6)

GRATE AT EL. 24.8  
(SEE DRAINAGE  
GRATE DETAIL 5)

GRATE AT EL. 24.1  
(SEE DRAINAGE  
GRATE DETAIL 5) NOTE 1

4" DIAM. PVC SCH 80  
DRAIN PIPE

DETAIL 3  
SHT 7

GRATE AT EL. 20.8  
(SEE DRAINAGE  
GRATE DETAIL 5)  
NOTE 1

DRAIN FOR ELECTRICAL PANEL

LIMIT OF EXISTING DOORWAY

PIPE INVERT  
AT EL. 28.12

DRAIN FOR AIR COMPRESSOR  
CONTAINMENT

LIMITS OF BACKFILL

VARIES  
SEE NOTES 2 & 3

VARIES  
SEE NOTES 2 & 3

SEE NOTES 2 & 3

LIMITS OF BACKFILL

VARIES  
SEE NOTES  
2 & 3

CHEVRON CAL SPRAY PROJECT  
GRADING AND BACKFILL PLAN

DSGN D. RITZMAN  
DR S. LEONG  
CHK C. GORE  
APVD A. DEMOREST

NO.	DATE	REVISION	BY	APVD

VERIFY SCALE  
BAR IS ONE INCH ON  
ORIGINAL DRAWING  
IF NOT ONE INCH ON  
THIS SHEET, ADJUST  
SCALES ACCORDINGLY.

**CH2MHILL**

Cal Spray Site  
135 Walker Street  
Watsonville, California

FILENAME: 3624503.dgn

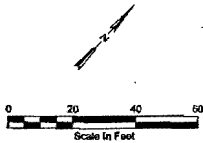
PLOT DATE: 28-FEB-2002

SHEET 3  
DWG C-3  
DATE FEB 2002  
PROJ 136245.02.E0

PLOT TIME: 15:50:53

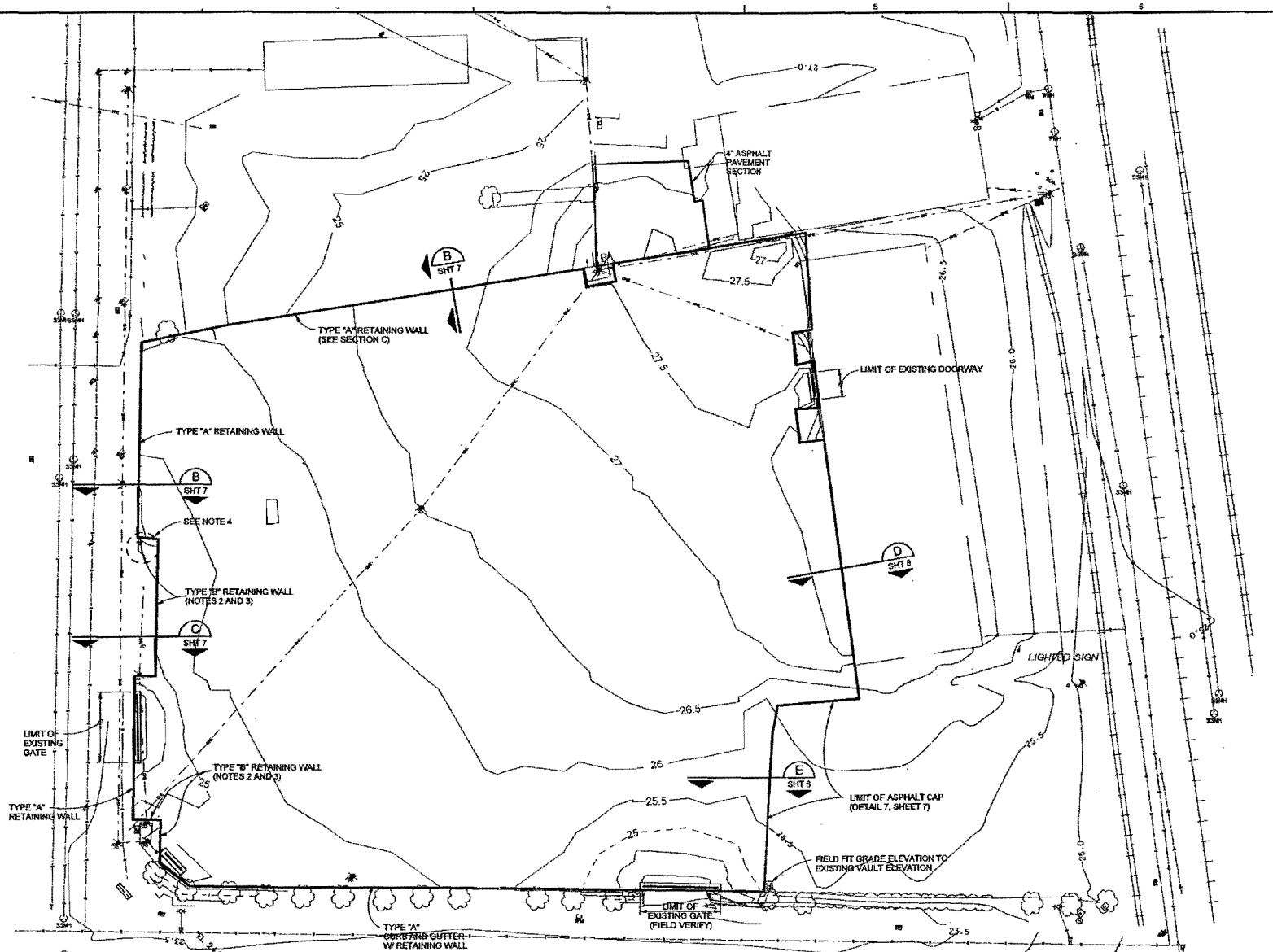
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NOTES:

1. GATE AND DOORWAY WIDTHS AND LOCATIONS ARE APPROXIMATE. FIELD VERIFY AND FIT GRATES AND DRAINS TO MATCH GATE AND DOORWAY WIDTHS.
2. MINIMUM 3 FEET CLEARANCE AROUND EXISTING ELECTRICAL PANEL BOX.
3. EXISTING RADIUS MAINTAINED AROUND UTILITY BOXES.
4. FIELD FIT PAVEMENT AND GUTTER TO DRAIN AROUND INSIDE CORNER OF THE OFFSET RETAINING WALL.



RECORD  
DRAWING

DSGN D. RITZMAN  
DR S. LEONG  
CHK C. GORE  
APVD A. DEMOREST

NO. DATE

REVISION

BY

APVD

VERIFY SCALE  
BAR IS ONE INCH ON  
ORIGINAL DRAWING.  
IF NOT ONE INCH ON  
THIS SHEET, ADJUST  
SCALES ACCORDINGLY.

**CH2MHILL**

Cal Spray Site  
135 Walker Street  
Watsonville, California

CHEVRON CAL SPRAY PROJECT  
ASPHALT PAVING PLAN

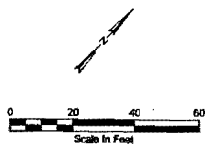
SHEET 4  
DWG C-4  
DATE FEB 2002  
PROJ 136245.02ED

FILENAME: 36245c05.dgn

PLOT DATE: 28-FEB-2002

PLOT TIME: 15:49:25



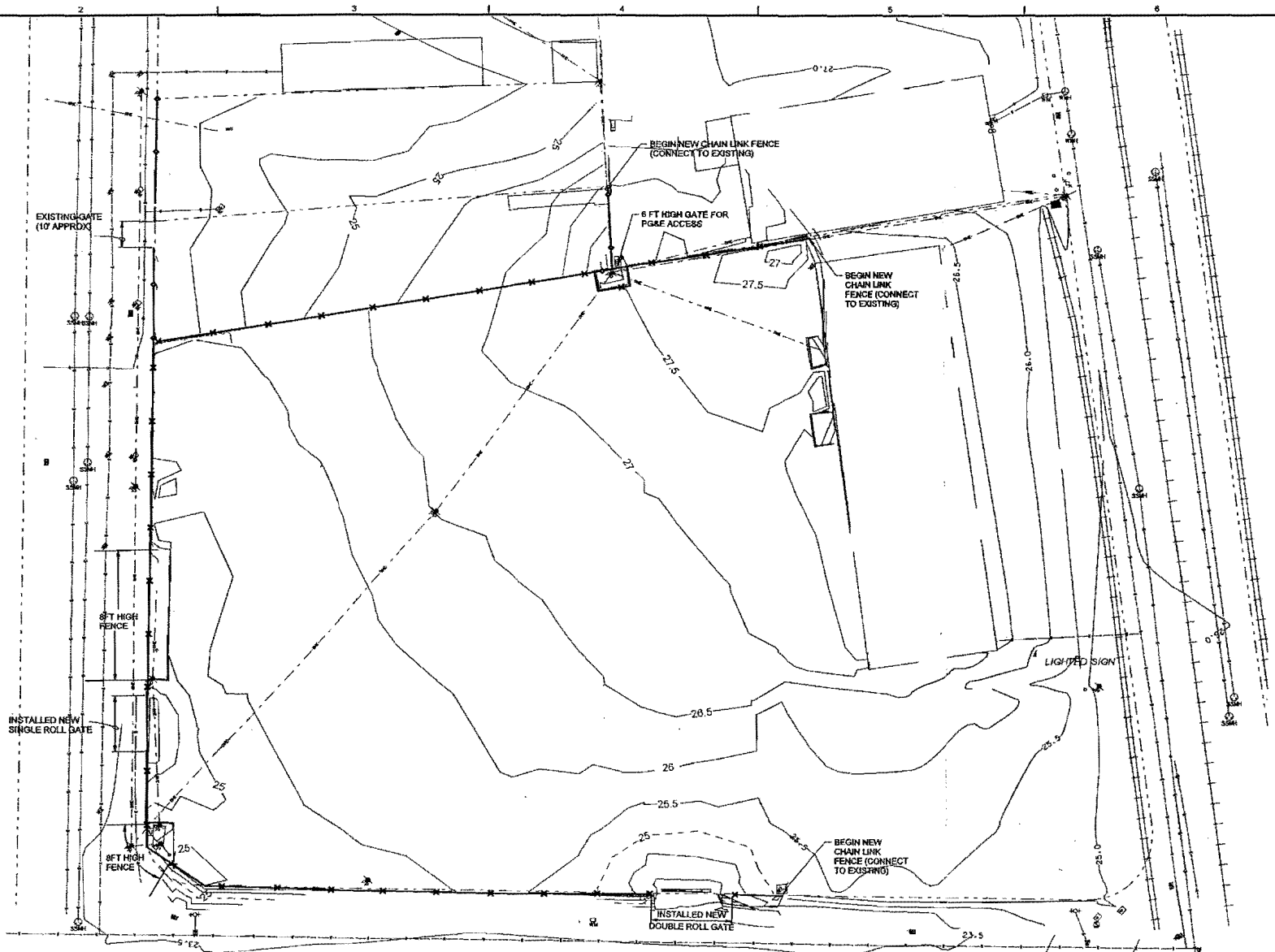


LEGEND:

- CHAIN LINK FENCE (SEE DETAIL 8) ON SHEET 2
- CHAIN LINK FENCE WITH PRIVACY SLATS (SEE DETAIL 8) ON SHEET 2

NOTES:

1. ALL NEW FENCING 6 FEET HIGH EXCEPT AS NOTED.



RECORD  
DRAWING

DSGN	D. RITZMAN	7/30/01	REMOVED BARBED WIRE, ADDED PRIVACY SLATS ALONG RIVERSIDE AND LOCUST. ADDED EXISTING TREE.
DR	S. LEONG		
CHK	C. GORE		
APVD	A. DEMOREST		

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

**CH2MHILL**

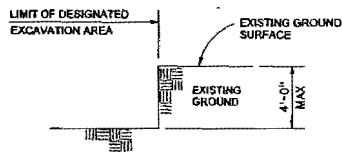
Cal Spray Site  
135 Walker Street  
Watsonville, California

CHEVRON CAL SPRAY PROJECT  
FENCING PLAN

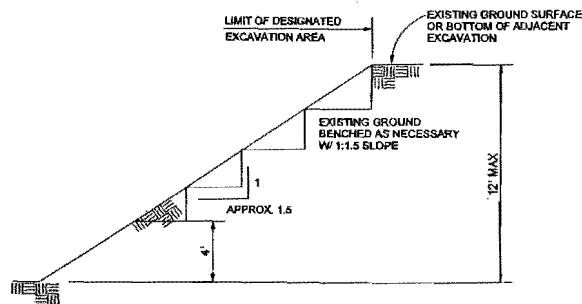
SHEET	5
DWG	C-5
DATE	FEB 2002
PROJ	135245.02.ED

FILENAME: 36245005.dgn PLOT DATE: 26-FEB-2002 PLOT TIME: 15:05:42

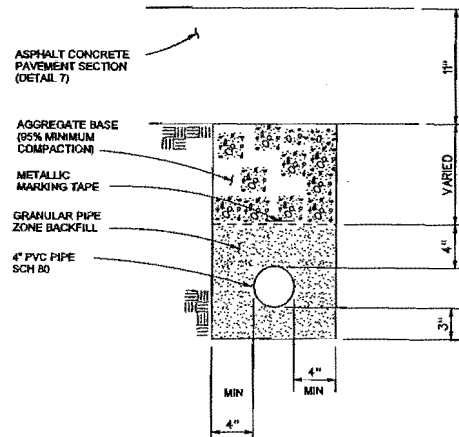




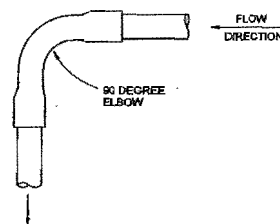
**DETAIL 1**  
EXCAVATIONS UP TO 4 FEET DEEP  
NTS



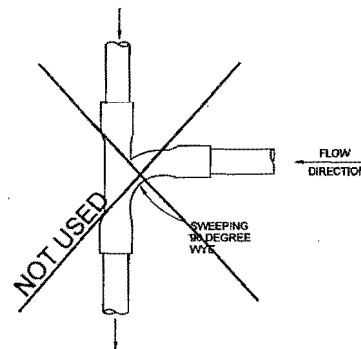
**DETAIL 2**  
EXCAVATIONS GREATER THAN 4 FEET DEEP  
NTS



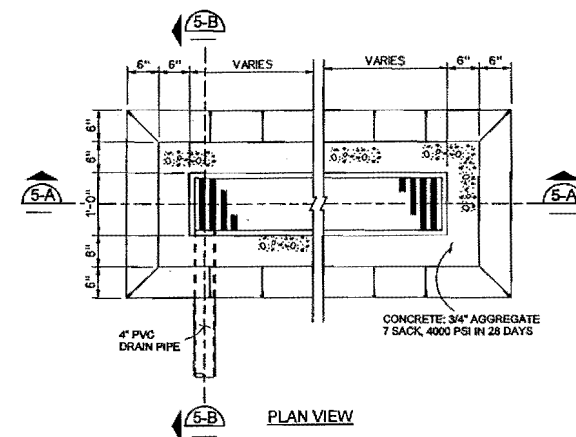
**SECTION A**  
PVC DRAINAGE PIPE TRENCH AND BACKFILL  
NTS



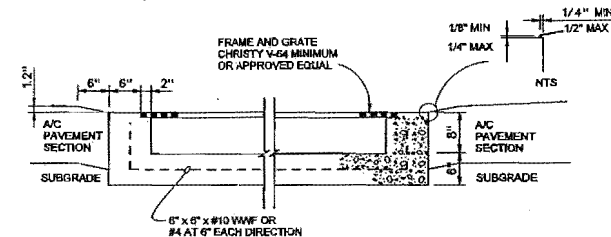
**DETAIL 3**  
PVC DRAINAGE PIPE ELBOW  
NTS



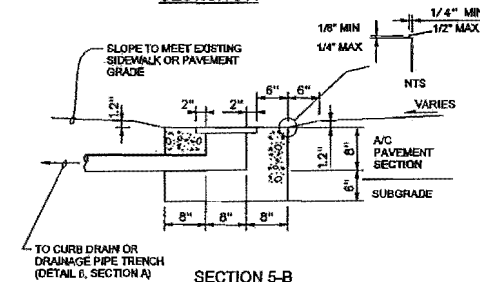
**DETAIL 4**  
PVC DRAINAGE PIPE WYE CONNECTION  
NTS



**PLAN VIEW**



**SECTION 5-A**



**SECTION 5-B**

**DETAIL 5**  
DRAINAGE GRATE  
NTS

RECORD  
DRAWING

DESIGN	B. RITZMAN	NO.	DATE	REVISION	BY	APPROVED
DR	A. WONG					
CHK	C. GORE					
APPROVED	A. DEMOREST					

VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

**CH2MHILL**

Cal Spray Site  
135 Walker Street  
Watsonville, California

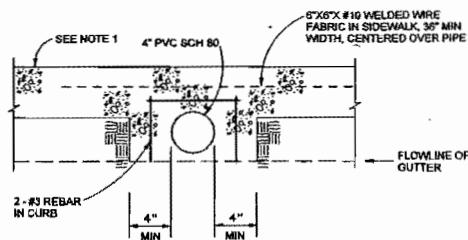
CHEVRON CAL SPRAY PROJECT  
CONSTRUCTION DETAILS

SHEET	6
DWG	C-6
DATE	FEB 2002
PROJ	130245.02.ED

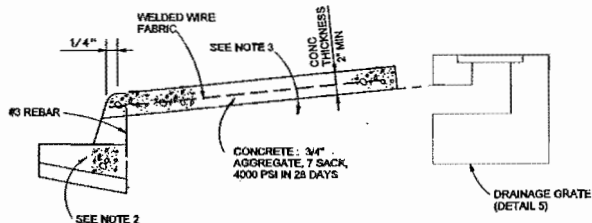
FILENAME: 30245C07.dgn PLOT DATE: 28-FEB-2002 PLOT TIME: 15:04:35

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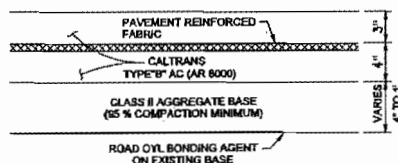
CROSS SECTION



LONGITUDINAL SECTION

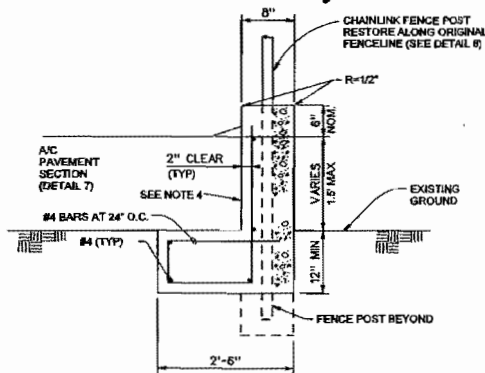
CURB DRAIN(S)  
RIVERSIDE PER  
CALTRANS  
PERMIT NO. 0501.60M.0590

DETAIL 6 C-3  
CURB DRAIN  
LOCUST STREET  
NTS

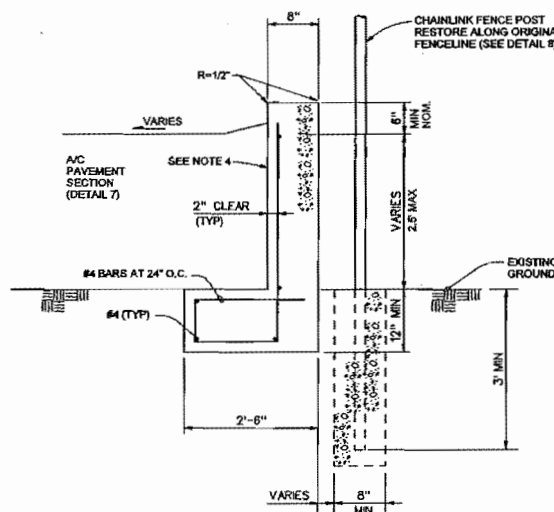


SEE NOTE 5

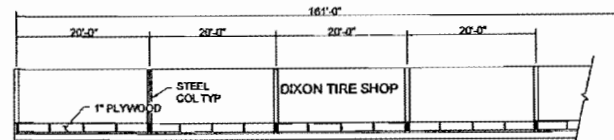
DETAIL 7 C-4  
ASPHALT CONCRETE (AC)  
PAVEMENT SECTION  
NTS



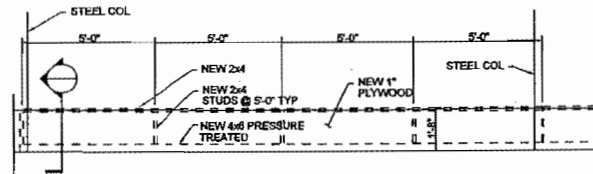
SECTION B C-3  
RETAINING WALL WITH  
FENCE  
NTS



SECTION C C-3  
RETAINING WALL WITHOUT  
FENCE  
NTS



WALL ELEVATION  
NTS



ENLARGED PARTIAL ELEVATION  
NTS

NOTES:

1. SAW OUT EXISTING CURB, GUTTER AND SIDEWALK OUT FROM SCORE TO SCORE IN DRAIN PIPE THROUGHWAY SAME IN A MONOLITHIC MANNER PER PERMIT REQUIREMENTS.
2. FORM NEW SIDEWALK, CURB, AND GUTTER TO MATCH EXISTING.
3. NO PIPE OR DUCT JOINTS SHALL BE MADE WITHIN THE CURB OR SIDE WALK.
4. APPLY TACK COAT BETWEEN RETAINING WALL AND PAVEMENT SECTION.
5. APPLY "ROAD OIL" BETWEEN AGGREGATE BASE MATERIAL AND EXISTING GROUND MATERIAL.



RECORD  
DRAWING

DSGN	D. RITZMAN					VERIFY SCALE
DR	A. WONG					BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	C. GORE					IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APVD	A. DEMOREST	NO.	DATE	REVISION	BY	APVD

CH2MHILL

Cal Spray Site  
135 Walker Street  
Watsonville, California

CHEVRON CAL SPRAY PROJECT  
CONSTRUCTION DETAILS

SHEET	7
DWG	C-7
DATE	FEB 2002
PROJ	136245.02.ED

FILENAME: 33245C08.dgn

PLOT DATE: 28-FEB-2002

PLOT TIME: 15:37:03





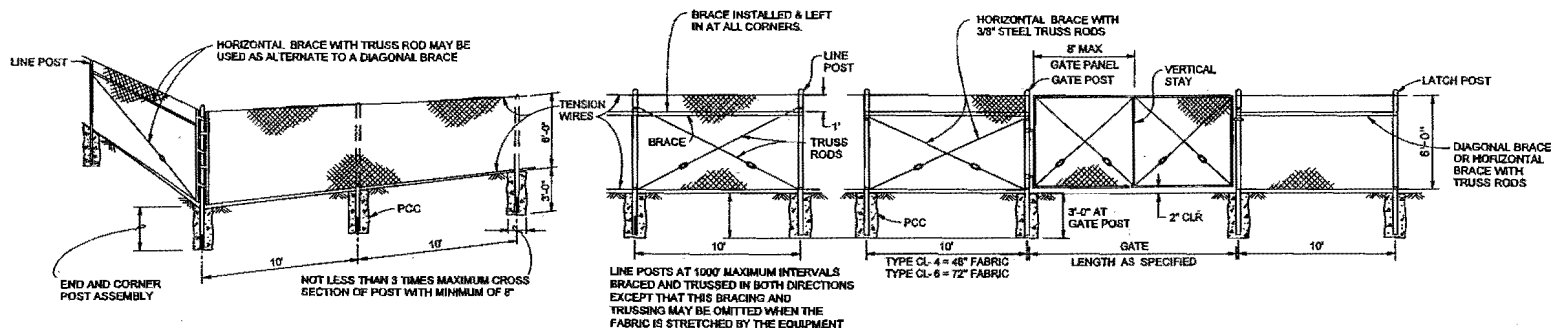


**Appendix B**  
**Concrete Inspection Records**



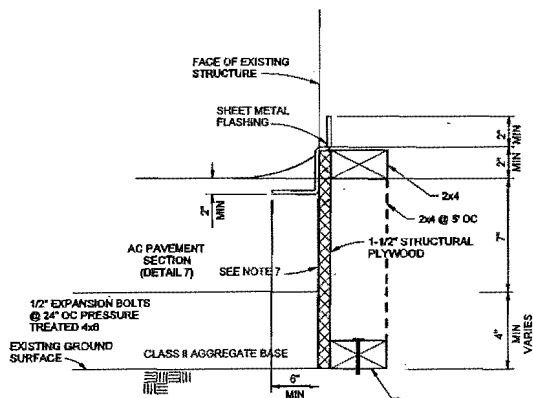
GATE POST			
FENCE HEIGHT	GATE WIDTHS	NOMINAL ID	WEIGHT PER FOOT
6' AND LESS	UP THRU 6'	2 1/2"	4.85
	OVER 6' THRU 12'	4"	10.79
	OVER 12' THRU 18'	5"	14.62
	OVER 18' TO 24' MAX	6"	18.97
OVER 6'	UP THRU 6'	3"	7.56
	OVER 6' THRU 12'	5"	14.62
	OVER 12' THRU 18'	6"	18.97
	OVER 18' TO 24' MAX	6"	28.55

ABOVE POST DIMENSIONS AND WEIGHTS ARE MINIMUMS. LARGER SIZES MAY BE USED ON APPROVAL OF THE ENGINEER.



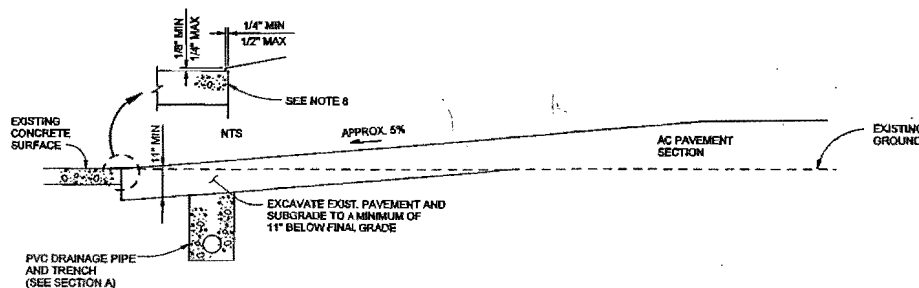
TYPICAL MEMBER DIMENSIONS (SEE NOTES)									
FENCE HEIGHT	LINE POSTS			END, LATCH & CORNER POSTS			BRACES		
	ROUND ID	H	ROLL FORMED	ROUND ID	ROLL FORMED	ROLL FORMED	ROUND ID	H	ROLL FORMED
6' & LESS	1 1/2"	1 7/8"x1 5/8"	1 7/8"x1 5/8"	2"	3 1/2"x3 1/2"	2"x1 3/4"	1 1/4"	1 1/2"x1 5/8"	1 5/8"x1 1/4"
OVER 6'	2"	2 1/4"x2"	2"x1 3/4"	2 1/2"	3 1/2"x3 1/2"	2 1/2"x2 1/2"	1 1/4"	1 1/2"x1 5/8"	1 5/8"x1 1/4"

- NOTES
1. THE TYPICAL MEMBER DIMENSIONS TABLE SHOWS EXAMPLES OF POST AND BRACE SECTIONS WHICH MAY COMPLY WITH THE SPECIFICATIONS.
  2. SECTIONS SHOWN IN THE TABLES MUST ALSO COMPLY WITH THE STRENGTH REQUIREMENTS AND OTHER PROVISIONS OF THE SPECIFICATIONS.
  3. OTHER SECTIONS WHICH COMPLY WITH THE STRENGTH REQUIREMENTS AND OTHER PROVISIONS OF THE SPECIFICATIONS MAY BE USED ON APPROVAL OF THE ENGINEER.
  4. OPTIONS EXERCISED SHALL BE UNIFORM ON ANY ONE PROJECT.
  5. DIMENSIONS SHOWN ARE NOMINAL.
  6. REMOVE AND REPLACE EXISTING GATES (SEE FENCING PLAN, SHEET 5).
  7. APPLY TACK COAT BETWEEN PLYWOOD AND PAVEMENT SECTION AND FLASHING AND PAVEMENT SECTION.
  8. APPLY TACK COAT BETWEEN EXISTING CONCRETE AND PAVEMENT SECTION.
  9. ALL FENCING ALONG RIVERSIDE AND LOGUST STREETS TO INCLUDE BROWN PVC PRIVACY SLATS.



SECTION D  
C-4

DETAIL B  
CHAIN LINK FENCE WITH BARBED WIRE OPTION NTS



SECTION E  
ASPHALT/CONCRETE JOINT AND RAMP NTS

RECORD  
DRAWING

DSGN	D. RITZMAN	7/30/01	REMOVED BARBED WIRE, ADDED NOTE ABOUT PRIVACY SLATS
CHK	S. LEONG		
APVD	A. DEMOREST		

VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CH2MHILL

Cal Spray Site  
135 Walker Street  
Watsonville, California

CHEVRON CAL SPRAY PROJECT  
CONSTRUCTION DETAILS

SHEET	8
DWG	C-8
DATE	FEB 2002
PROJ	136245.02.ED

FILENAME: 36245C09.DGN.dgn PLOT DATE: 28-FEB-2002 PLOT TIME: 15:36:53



Corporate Offices  
Materials Laboratory  
415 Fairchild Drive  
Mountain View, California 94043-2216  
Telephone: (650) 967-6982  
Facsimile: (650) 967-6955

# DCI

## DYNAMIC CONSULTANTS, INC.

Testing & Inspection Services

Branch Office  
34 Hangar Way  
Watsonville, California 95076-243  
Telephone: (831) 724-2234  
Facsimile: (831) 724-9166

### COMPRESSION TEST REPORT

September 20, 2001/7-days  
October 11, 2001/28-days

REPORT TO: Jeff Deakin  
D C M Construction & Services, Inc.  
7172 Regional Street #139  
Dublin, California 94568

DCI No.: 6807-W01

PERMIT NO.: E01-00228

PROJECT: CHEVRON CAL-SPRAY PROJECT  
135 Walker Avenue, Watsonville, CA

Sampling Location: Retaining wall at Dixon Tire

Material:	Concrete Cylinders	Date Cast (ASTM C31):	9/13/01	Slump, in. (ASTM C143):	3
Supplier:	Las Animas	Date Received:	9/14/01	Mix Temp., °F (ASTM C1064):	76
Mix Design:	LA70930	Sampled By (ASTM C172):	Stephenson, H.	Ambient Temp., °F:	66
Water-Cement Factor, sk/cy:	7 sacks	Truck No./Load No.:	72 / 1	Air Content, % (ASTM C173/C231):	
Max. Size Aggr., in.:	1"	Tag No.:	148551	Fresh Unit Wt., pcf (ASTM C138):	
Admixture(s):	WRDA				
Design Strength, psi:	4,000 @ 28 days				

#### Compression Test Data (ASTM C39)

Specimen No.	Client's ID	Date Tested	Age, days	Nominal Dimensions, in.	Area, sq. in.	Ultimate Load, lbs.	Compressive Strength, psi	Fracture	Tested By
W1116 A		09/20/01	7	6 x 12	28.26	127,000	4,490	Normal	JM
1116 B		10/11/01	28	6 x 12	28.26	155,000	5,480	Normal	HS
1116 C		10/11/01	28	6 x 12	28.26	152,000	5,380	Normal	HS

Average compressive strength (psi) at 28 days: 5,430

All samples designated HOLD will be kept 14 days after the 28 day test and thereafter discarded unless instructed otherwise. Any samples held beyond these 14 days are subject to storage fees.

Respectfully submitted,  
DYNAMIC CONSULTANTS, INC.

  
Denny Zucchi  
Laboratory Supervisor

CH2M Hill / CCI / Cecil Gore\*  
City of Watsonville





DYNAMIC CONSULTANTS, INC.

	Standard Scope	Reinap.	Not in Contract		
Feet. Proposed Bldg.	<input checked="" type="checkbox"/>		Substr.	Add. Scope	Revision

## Reinforcing Inspection

DCI NO.: \_\_\_\_\_ PROJECT: Cherron Cal Spray  
DATE: 9-12-01 TIME ARRIVED: 1:45 TIME LEFT: 2:45 TRAVEL: 15 min TOTAL TIME: \_\_\_\_\_  
MILES TO JOB: 3 TOLL: \$ PARKING: \$ LUNCH: \$

## PRELIMINARY

GENERAL CONTRACTOR: D.C.M. SUPPLIER: \_\_\_\_\_  
REBAR PLCMT. CONTRACTOR: " PLANNED POUR DATE: 9-13-01  
YES NO None YES NO YES NO  
[ ] [ ] SPECS CHECKED [ ] [ ] GEN. NOTES CHECKED [ ] [ ] APPR. PLAN SHEETS CHECKED  
☒ CAST-IN-PLACE CONCRETE (0309) \_\_\_\_\_ TILT-UP PANELS (0402) \_\_\_\_\_ PRECAST CONCRETE (0402)  
\_\_\_\_\_ POST-TENSIONED CONCRETE (0404) \_\_\_\_\_ SHOTCRETE (0310) \_\_\_\_\_ OTHER (0104/0204)

## PLACEMENT

1. MEMBER Dixon Tie Store Electric Meter Panel Area, Type B retaining wall  
LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? Yes  
2. MEMBER Dixon Tie Store Air Compressor Shed West Side only  
LINE \_\_\_\_\_ TO Type B retaining wall, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? Yes  
3. MEMBER \_\_\_\_\_  
LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_  
4. MEMBER \_\_\_\_\_  
LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_  
Continued on reverse? Yes ☐ No ☐  
REBAR GRADES SPECIFIED? None GRADES COMPLY? 60 CHECKED SIZES? Yes  
CHECKED SPACING? Yes CHECKED LAPS? Yes CHECKED RADII? Yes  
CHECKED POSITION? Yes CHECKED CLEARANCE? Yes CHECKED ANCHOR BOLTS? N/A  
CONTINUITY PREVIOUS? OK CONTINUITY FUTURE? OK

Work ☒ completed ☐ in progress this date ☒ DOES ☐ DOES NOT meet the requirements of:  
☒ Approved Plans (stamped by Code Enforcement Agency) ☒ Project Drawings (stamped by Structural Engineer)  
☒ Project specifications ☐ Engineer's Approved Revision/Change Order  
☒ Codes/Standards ☐ attached ☐ requested  
☐ UBC \_\_\_\_\_ (Year) ☐ Unapproved Revision/Change Order  
☐ Title 24 ☐ attached ☐ requested  
☐ AWS \_\_\_\_\_ (Code/Year) ☐ Shop Drawings ☐ approved ☐ unapproved  
☐ Other ☐ Other \_\_\_\_\_

REMARKS: \_\_\_\_\_

Continued on Reverse: Yes ☐ No ☒INSPECTOR: D. Schmidt



# SPECIAL INSPECTION RECORD

Inspection Agency: DYNAMIC CONSULTANTS INC.  
 Job Address: 125 WALKER STREET  
 Building Permit No.: EO1-00228  
 When attached to the job inspection record card, this card becomes a part of the inspection record.

NOTE: Each special inspector shall complete for each day's inspection. Post this card adjacent to building permit inspection record card. Weekly reports to be submitted by each special inspector/inspection agency to the building department.

INSPECTION TYPE	INSPECTOR	ID NO.	DATE	NOTES	TIME		
					START	END	
Rebar Placement	H. Stephenson	084870-98	8-29-01	Type A retaining wall adjacent to Riverside P.A.	1:30	3:00	I
Concrete Placement	D. Schmidt	I.C.B.O. 0843628-88	8-31-01	" " "	6:30	8:00	I
REBAR PLACEMENT	M. ALLEN		9-6-01	TYPE B RIVERSIDE WHARF FOOTING	8:45	9:15	I
Concrete placement	H. Stephenson	084870-88	9-7-01	retaining wall Riverside	630	830	I
Rebar Placements	D. Schmidt	0843628-88	9-12-01	Type B retaining wall Dixon Tire	1:45	2:45	I









DYNAMIC CONSULTANTS, INC.

## Concrete Placement Inspection

	Standard Scope	Rebar	Not in Contract	
Tech. Proposed Billing			SUBMIT	ADD SCOPE

DCI NO.: \_\_\_\_\_ PROJECT: Chouven Cal Spr  
DATE: 7-13-91 TIME ARRIVED: 1015 TIME LEFT: 1230 TRAVEL: 44 TOTAL TIME: \_\_\_\_\_  
MILES TO JOB: 7 TOLL: \_\_\_\_\_ PARKING: \_\_\_\_\_ LUNCH: \_\_\_\_\_  
GENERAL CONTRACTOR: DCM SUPPLIER: Assoc Robt

YES NO

<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

PRELIMINARY  
SPECS CHECKED  
GEN. NOTES CHECKED  
FORMS CLEANED  
REBAR BRACED, CLEAN, CLEAR  
FORMS WET  
SAND DAMPENED  
DIMENSIONS OF MEMBERS VERIFIED

YES NO

<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

PORTS NECESSARY  
PORTS PROVIDED  
POUR JOINTS READY  
DOWELS/BOLTS READY  
KEYWAYS READY  
REBAR CONTINUITY

Number of Vibrators on Hand: 1 Number of Placing Crew: 5 All above ready before placement? yes  
DISCREPANCIES FROM PRELIMINARY CORRECTED BEFORE COVERED? yes  
If not, explain: \_\_\_\_\_

Retaining wall at Dicksonville PLACEMENT Aircomp Room & Elec Room  
\_\_\_\_\_, LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_  
\_\_\_\_\_, LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_  
\_\_\_\_\_, LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_  
\_\_\_\_\_, LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_

Continued on reverse? Yes ☐ No ☒

MIX NO.: LA 70930 CEMENT: 75K AGGR.: 1" PIGMENT: Gray  
COMPR. STRENGTH 4000 psi CUBIC YARDS PLACED TODAY \_\_\_\_\_  
TIME OF INITIAL PLACEMENT 1100 TIME FIRST TRUCK BATCHED 1015 PUMP MIX? NO  
WORKABILITY OK CONSOLIDATION NORMAL? OK REINFORCING DISTURBED? NO  
SET NORMAL? OK POUR COMPLETED TO PLANNED POUR JOINTS? yes TIME COMPLETED 1215

## FIELD TESTS

TIME: 1130  
TEMP/TEMP \_\_\_\_\_  
(CONC/AMB): 76, 66  
SLUMP: 3  
AIR: \_\_\_\_\_  
NO. CYLS.: 3  
OTHER: \_\_\_\_\_

Work ☒ completed ☐ in progress this date ☒ DOES ☐ DOES NOT meet the requirements of:

<input checked="" type="checkbox"/> Approved Plans (stamped by Code Enforcement Agency)	<input checked="" type="checkbox"/> Project Drawings (stamped by Structural Engineer)
<input checked="" type="checkbox"/> Project specifications	<input type="checkbox"/> Engineer's Approved Revision/Change Order
<input checked="" type="checkbox"/> Codes/Standards	<input type="checkbox"/> attached <input type="checkbox"/> requested
<input checked="" type="checkbox"/> UBC <u>91</u> (Year)	<input type="checkbox"/> Unapproved Revision/Change Order
<input type="checkbox"/> Title 24	<input type="checkbox"/> attached <input type="checkbox"/> requested
<input checked="" type="checkbox"/> AWS <u>91</u> (Code/Year)	<input type="checkbox"/> Shop Drawings <input type="checkbox"/> approved <input type="checkbox"/> unapproved
<input type="checkbox"/> Other	<input type="checkbox"/> Other

Remarks on Reverse: Yes ☐ No ☐

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INSPECTOR: H Stephenson



## WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate and is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

SANTA CRUZ  
PHONE 438-7280  
DYNAMIX BOX 507  
146 ENCINAL  
95060

SOLD  
BY

**Las Animas Concrete & Building Supply, Inc.**

DCI NO.

PROJECT

SOLD TO **F-17A**

TIME ARRIVED **10:15**

DELIVER TO

**RIVERSIDE & WALKER ST  
WATSONVILLE**

D. C. M.  
MILES TO JOB **7**

GENERAL CONTRACTOR **DCM**

**3" SLUMP**

DATE NO  
**09/13/01 10:11:54**

JOB NAME OR NUMBER  
**DCM 0**

LOT NO.

P.O. NUMBER

TRUCK NO.

**72**

## WARNING:

- CONCRETE CONTAINS PORTLAND CEMENT.
- IRRITATING TO THE SKIN AND EYES.
- AVOID CONTACT WITH EYES AND PROLONGED CONTACT WITH SKIN.
- WEAR RUBBER BOOTS AND GLOVES.
- IN CASE OF CONTACT WITH SKIN OR EYES, FLUSH THOROUGHLY WITH WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.
- KEEP CHILDREN AWAY.

## PROPERTY DAMAGE RELEASE

(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer: The driver of this truck in presenting this RELEASE to you for your signature is of the opinion that the size and weight of his truck may possibly cause damage to the premises and/or adjacent property if he places the material in this load where you desire it. It is our wish to help you in every way that we can, but in order to do this the driver is requesting that you sign this RELEASE relieving him and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. from any responsibility for any damage that may occur to the premises and/or adjacent property, buildings, sidewalks, driveways, curbs, etc. by the delivery of this material, and that you also agree to help him remove mud from the wheels of his vehicle so that he will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED

Continued on reverse? Yes ☐ No ☒

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE ABOVE HEALTH WARNING NOTICE. LAS ANIMAS CONCRETE WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE.

LOAD RECEIVED BY **1100** TIME  
WORKABILITY **02** CONSOLIDATION  
SET NORMAL **02**

PURCHASER AGREES TO PAY FOR MATERIALS LISTED ABOVE WITHIN 30 DAYS FROM DATE. IF COURT ACTION IS INSTITUTED ON THIS INVOICE, THE PURCHASER PROMISES TO PAY REASONABLE ATTORNEYS FEES.

TIME **11:30**  
BATCH END. **37**  
HOT TRIM **2.0%**  
(CONC/AMB) **1.66**  
01/02 B9Z **3.50**  
BATCH N1. **37**  
02/02 B9Z **3.50**  
BATCH N1. **38**  
AGG 04 12080 LB **MC 1.0**  
AGG 02 10120 LB **MC 5.0**

CEM 01 4604 LB  
WAT 01 149.8L  
Project specifications  
Code/Standard  
TIME **10:16:11**  
END TARES  
AGG **40 LB**  
CEM **00 LB**  
WAT **00 LB**  
AXA **00 OZ**  
AXB **00 OZ**  
AXC **00 OZ**  
AXD **0.0 BL**

## JOB DELAYS-CIRCLE DELAY NO.

- JOB NOT READY
- SLOW POUR OR PUMP
- TRUCK AHEAD ON JOB
- CONTRACTOR BROKE DOWN
- ADDED WATER
- TRUCK BROKE DOWN
- ACCIDENT
- CITATION
- OTHER

LEAVE PLANT

ARRIVE JOB

START UNLOADING

FINISH UNLOADING

ARRIVE PLANT

TOTAL TIME

HRS MIN

CYLINDERS TAKEN

MIX NO.

CaCl<sub>2</sub>

TIME ORDERED

F# **00025**  
C# **25**

CUBIC YARDS

SACKS

MAX. SIZE

SLUMP

**7.00**

**3"**

YARDS ORDERED

LOAD NUMBER

YARDS DELIVERED

**0007.00**

**01**

**0007.00**

GAL WATER ADDED BY  
REQUEST AT JOB SITE

AUTHORIZED BY

**16**

**GALS.**

LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. - WEIGHMASTER

SERVICE CHARGE IS COMPUTED BY A "PERIODIC RATE" OF 1 1/2% PER MONTH WHICH IS AN ANNUAL PERCENTAGE RATE OF 18% ON PAST DUE ACCOUNTS.

QUANTITY	UNIT	PRODUCT DESCRIPTION	PRICE	AMOUNT
7.00		LA70930		
SUB TOTAL				
COD N				
CHARGE		MINUTES STANDBY TIME		

148551

TAG NO. **148551**

THIS DELIVERY TICKET HAS BEEN PREPARED BY AN 80 SERIES COMPUTERIZED BATCHING CONTROL, WITH COMMAND CENTER OPTIONS.

SALES TAX

TOTAL



# SPECIAL INSPECTION RECORD

Inspection Agency: DYNAMIC CONSULTANTS INC.

Job Address: 125 WALKER STREET

Building Permit No.: EO1-00228

When attached to the job inspection record card, this card becomes a part of the inspection record.

NOTE: Each special inspector shall complete for each day's inspection. Post this card adjacent to building permit inspection record card. Weekly reports to be submitted by each special inspector/inspection agency to the building department.

INSPECTION TYPE	INSPECTOR	ID NO.	DATE	NOTES	TIME	
					START	END
Rebar Placement	H. Stephenson	084820-88	8-29-01	Type A retaining wall adjacent to Riverside Dr.	1:30	3:00
Concrete Placement	D. Schmidt	E.C.B.O. 0843628-88	8-31-01	" " "	6:30	8:00
REBAR PLACEMENT	M. ALLEN		9-6-01	TYPE B RIVERSIDE WALL FOOTING	8:45	9:15
Concrete placement	H. Stephenson	084820-88	9-7-01	retaining wall Riverside	630	830
Rebar Placement	D. Schmidt	084328-88	9-12-01	Type B retaining wall Dixie Ave	1:45	2:45
Concrete placement	H. Stephenson	084820-88	9-13-01	retaining wall Dixie Ave	1015	1230







	Standard Specs	Reinap.	Not In Contract
Tech. Pro-cess Billing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CONSULTANTS, INC.

# Concrete Placement Inspection

PROJECT: Cherron Cal. Highway

9-20-01 TIME ARRIVED: 10:45

TIME LEFT: \_\_\_\_\_

TRAVEL: 15 min TOTAL TIME: \_\_\_\_\_

MILES TO JOB: 10

TOLL: 0

PARKING: 0

LUNCH: 0

GENERAL CONTRACTOR: CH2M Hill

SUPPLIER: Las Animas Concrete

## PRELIMINARY

YES NO

☒ ☐ SPECS CHECKED None  
☒ ☐ GEN. NOTES CHECKED  
☒ ☐ FORMS CLEANED  
☒ ☐ REBAR BRACED, CLEAN, CLEAR  
☒ ☐ FORMS WET  
☒ ☐ SAND DAMPENED  
☒ ☐ DIMENSIONS OF MEMBERS VERIFIED

YES NO

☐ ☒ PORTS NECESSARY  
☐ ☒ PORTS PROVIDED  
☒ ☐ POUR JOINTS READY  
☒ ☐ DOWELS/BOLTS READY  
☒ ☐ KEYWAYS READY  
☒ ☐ REBAR CONTINUITY

Number of Vibrators on Hand: 0

Number of Placing Crew: 4

All above ready before placement? Yes

DISCREPANCIES FROM PRELIMINARY CORRECTED BEFORE COVERED? \_\_\_\_\_

If not, explain: \_\_\_\_\_

## PLACEMENT

Drainage ports @ Dixon Fire doorway LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL fs  
" @ corner of Riverside Dr + Locust St LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL "  
 \_\_\_\_\_, LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_  
 \_\_\_\_\_, LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_

Continued on reverse? Yes ☐ No ☒

MIX NO.: LA70930 CEMENT: 7.0 sack AGGR.: 1 1/2" Limston PIGMENT: None

COMPR. STRENGTH 4000 psi

CUBIC YARDS PLACED TODAY \_\_\_\_\_

TIME OF INITIAL PLACEMENT 12:15 TIME FIRST TRUCK BATCHED 11:10 PUMP MIX? N/A

WORKABILITY OK CONSOLIDATION NORMAL? Yes REINFORCING DISTURBED? No

SET NORMAL? Yes POUR COMPLETED TO PLANNED POUR JOINTS? Yes TIME COMPLETED \_\_\_\_\_

## FIELD TESTS

TIME: 12:20

TEMP/TEMP

(CONC/AMB): 75°/64°

SLUMP: 2 3/4"

AIR: \_\_\_\_\_

NO. CYLS.: 3

OTHER: \_\_\_\_\_

Work ☒ completed ☐ In progress this date ☒ DOES ☐ DOES NOT meet the requirements of:  
☒ Approved Plans (stamped by Code Enforcement Agency) ☒ Project Drawings (stamped by Structural Engineer)  
☒ Project specifications ☐ Engineer's Approved Revision/Change Order  
☒ Codes/Standards ☐ attached ☐ requested  
☒ UBC \_\_\_\_\_ (Year) ☐ Unapproved Revision/Change Order  
☐ Title 24 ☐ attached ☐ requested  
☐ AWS \_\_\_\_\_ (Code/Year) ☐ Shop Drawings ☐ approved ☐ unapproved  
☐ Other ☐ Other \_\_\_\_\_

Remarks on Reverse: Yes ☐ No ☒

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INSPECTOR: R. Schmidt



	Standard Scope	Reinap.	Not in Contract	
Tech. Pre-rated	<input checked="" type="checkbox"/>		SBT/SSB	Add. Scope
Billing				Revisions

CONSULTANTS, INC.

# Reinforcing Inspection

PROJECT: Chesron, Cab. & Drap  
 9-20-01 TIME ARRIVED: 10:45 TIME LEFT: \_\_\_\_\_ TRAVEL: 15 min TOTAL TIME: \_\_\_\_\_  
 MILES TO JOB: 10 TOLL: 0 PARKING: 0 LUNCH: 0

## PRELIMINARY

GENERAL CONTRACTOR: CHAM Hill SUPPLIER: Associated Rebar  
 REBAR PLCLMT. CONTRACTOR: D. C. M. PLANNED POUR DATE: 9-20-01  
 YES NO None YES NO YES NO  
 ( ) ( ) SPECS CHECKED ( ) ( ) GEN. NOTES CHECKED ( ) ( ) APPR. PLAN SHEETS CHECKED  
☒ CAST-IN-PLACE CONCRETE (0309) \_\_\_\_\_ TILT-UP PANELS (0402) \_\_\_\_\_ PRECAST CONCRETE (0402)  
 \_\_\_\_\_ POST-TENSIONED CONCRETE (0404) \_\_\_\_\_ SHOTCRETE (0310) \_\_\_\_\_ OTHER (0104/0204)

## PLACEMENT

- MEMBER Drainage grate @ Dixon tire doorway  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL fldr. DIMENSIONS CHECKED? Yes
  - MEMBER Drainage grate @ corner of Riverside Dr. & Locust Sts.  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL fldr. DIMENSIONS CHECKED? Yes
  - MEMBER \_\_\_\_\_  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_
  - MEMBER \_\_\_\_\_  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_
- Continued on reverse? Yes ☐ No ☒
- REBAR GRADES SPECIFIED? No GRADES COMPLY? 60 CHECKED SIZES? Yes  
 CHECKED SPACING? Yes CHECKED LAPS? N/A CHECKED RADII? Yes  
 CHECKED POSITION? Yes CHECKED CLEARANCE? Yes CHECKED ANCHOR BOLTS? N/A  
 CONTINUITY PREVIOUS? OK CONTINUITY FUTURE? OK

Work ☒ completed ☐ in progress this date ☒ DOES ☐ DOES NOT meet the requirements of:

☒ Approved Plans (stamped by Code Enforcement Agency) ☒ Project Drawings (stamped by Structural Engineer)  
☒ Project specifications ☐ Engineer's Approved Revision/Change Order  
☒ Codes/Standards ☐ attached ☐ requested  
☒ UBC \_\_\_\_\_ (Year) ☐ Unapproved Revision/Change Order  
☐ Title 24 ☐ attached ☐ requested  
☐ AWS \_\_\_\_\_ (Code/Year) ☐ Shop Drawings ☐ approved ☐ unapproved  
☐ Other \_\_\_\_\_ ☐ Other \_\_\_\_\_

REMARKS:

Continued on Reverse: Yes ☐ No ☒







# SPECIAL INSPECTION RECORD

Inspection Agency: DYNAMIC CONSULTANTS INC.  
 Job Address: 125 WALKER STREET  
 Building Permit No.: ED1-00228  
 When attached to the job inspection record card, this card becomes a part of the inspection record.

NOTE: Each special inspector shall complete for each day's inspection. Post this card adjacent to building permit inspection record card. Weekly reports to be submitted by each special inspector/inspection agency to the building department.

INSPECTION TYPE	INSPECTOR	ID NO.	DATE	NOTES	TIME	
					START	END
Rebar Placement	H. Stephenson	094820-90	8-29-01	TYPE A retaining wall adjacent to Riverside Dr.	1:30	3:00
Concrete Placement	D. Schmidt	E.C.B.O. 0843428-88	8-31-01	" " "	6:30	8:00
REBAR PLACEMENT	M. ALLEN		9-6-01	TYPE B RIVERSIDE WHARF FOOTING	8:45	9:15
Concrete placement	H. Stephenson	094820-80	9-7-01	retaining wall Riverside	6:30	8:30



# SPECIAL INSPECTION RECORD

Inspection Agency: DYNAMIC CONSULTANTS INC.  
 Job Address: 125 WALKER STREET  
 Building Permit No.: EO1-00228  
 When attached to the job inspection record card, this card becomes a part of the inspection record.

NOTE: Each special inspector shall complete for each day's inspection. Post this card adjacent to building permit inspection record card. Weekly reports to be submitted by each special inspector/inspection agency to the building department.

INSPECTION TYPE	INSPECTOR	ID NO.	DATE	NOTES	TIME	
					START	END
Rebar Placement	H. Stephenson		8-29-01	Type A retaining wall adjacent to Riverside Rd.	1:30	3:00
Concrete Placement	D. Schmidt	E.C.B. Co. 0013428-01	8-31-01	" " "	6:30	8:00
REBAR PLACEMENT	M. ALLEN		9-6-01	TYPE B RIVERSIDE WALL FOOTING	8:45	9:15



# DCI

Task	Standard	Notes	Inspector	Reviewer
Prepared				
Check				

DYNAMIC CONSULTANTS, INC.

## Concrete Placement Inspection

DCI NO.: \_\_\_\_\_ PROJECT: Chevron Cal Spray

DATE: 9-7-01 TIME ARRIVED: \_\_\_\_\_ TIME LEFT: \_\_\_\_\_ TRAVEL: \_\_\_\_\_ TOTAL TIME: \_\_\_\_\_

MILES TO JOB: \_\_\_\_\_ TOLL: \_\_\_\_\_ PARKING: \_\_\_\_\_ LUNCH: \_\_\_\_\_

GENERAL CONTRACTOR: DCM SUPPLIER: Las Animas

YES		NO		PRELIMINARY		YES		NO	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Number of Vibrators on Hand: 1 Number of Placing Crew: 5 All above ready before placement? Yes

DISCREPANCIES FROM PRELIMINARY CORRECTED BEFORE COVERED? Yes

If not, explain: \_\_\_\_\_

Reinforcing wall - mid point Riverside St to Locust St

LINE	TO	ROW	TO	LEVEL
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Continued on reverse? Yes ☐ No ☒

MIX NO.: LA70930 CEMENT: 75K AGGR.: 1" PIGMENT: Gray

COMPR. STRENGTH 4000 psi CUBIC YARDS PLACED TODAY 9+/-

TIME OF INITIAL PLACEMENT 6:45 TIME FIRST TRUCK BATCHED 6:00 PUMP MIX? NO

WORKABILITY OK CONSOLIDATION NORMAL? \_\_\_\_\_ REINFORCING DISTURBED? \_\_\_\_\_

SET NORMAL? Yes POUR COMPLETED TO PLANNED POUR JOINTS? Yes TIME COMPLETED 8:00 AM

FIELD TESTS				
TIME:	<u>7:00</u>	_____	_____	_____
TEMP/TEMP	_____	_____	_____	_____
(CONC/AMB):	<u>70 / 52</u>	<u>1</u>	<u>1</u>	<u>1</u>
SLUMP:	<u>3 1/2</u>	_____	_____	_____
AIR:	<u>1</u>	_____	_____	_____
NO. CYLS.:	<u>3</u>	_____	_____	_____
OTHER:	_____	_____	_____	_____

Work ☒ completed ☐ in progress this date ☒ DOES ☐ DOES NOT meet the requirements of:

☒ Approved Plans (stamped by Code Enforcement Agency) ☐ Project Drawings (stamped by Structural Engineer)

☒ Project specifications ☐ Engineer's Approved Revision/Change Order

☒ Codes/Standards ☐ attached ☐ requested

☒ UBC 97 (Year) ☐ Unapproved Revision/Change Order

☐ Title 24 ☐ attached ☐ requested

☐ AWS \_\_\_\_\_ (Code/Year) ☐ Shop Drawings ☐ approved ☐ unapproved

☐ Other \_\_\_\_\_ ☐ Other \_\_\_\_\_

Remarks on Reverse: Yes ☐ No ☐ INSPECTOR: H. Stephens



CH2MHILL

## DAILY INSPECTOR'S REPORT

DATE:

9-6-01

By Project:

SCHEDULE:

Chevron Cal Spary.

PROJECT NO:

164824

LINE:

Contract Item.

INSP:

Paul Gore

Items of Work Completed	Location or Sta. to Sta.	Amount	Remarks
Pista Walker 1 Test	Center 94.1%		
Area 3B	Area 3.6	option	5.8%
	2nd test 4' from Center		
	at Street		
	Moisture 4.2		
	Compaction 94.5%		
15X20X2' Excavation			
S V Building.			
Gas meter	3' chain link fence gate.		
1st Test			
2nd Test	chain link fence		
Street			
1st Test	94.1% Relative compaction		
2nd Test	94.5% Relative compaction		
Test Failed	95% required		
Paul Gore			

Remarks:

9-6-01



# WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

**SANTA CRUZ**  
PHONE 428-7280  
P.O. BOX 507  
146 ENCINAL  
95060

SOLD  
BY

**Las Animas Concrete &  
Building Supply, Inc.**

SOLD TO

DCM

DELIVER TO

RTVERSIDE  
WATSONVILLE

DATE

JOB NAME OR NUMBER

LOT NO.

P.O. NUMBER

TRUCK NO.

08/31/01 05:57:03

DCM

0

## WARNING:

- CONCRETE CONTAINS PORTLAND CEMENT.
- IRRITATING TO THE SKIN AND EYES.
- AVOID CONTACT WITH EYES AND PROLONGED CONTACT WITH SKIN.
- WEAR RUBBER BOOTS AND GLOVES.
- IN CASE OF CONTACT WITH SKIN OR EYES, FLUSH THOROUGHLY WITH WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.
- KEEP CHILDREN AWAY.

## PROPERTY DAMAGE RELEASE

(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer - The driver of this truck in presenting this RELEASE to you for your signature is of the opinion that the size and weight of his truck may possibly cause damage to the premises and/or adjacent property if he places the material in this load where you desire it. It is our wish to help you in every way that we can, but in order to do this the driver is requesting that you sign this RELEASE relieving him and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. from any responsibility from any damage that may occur to the premises and/or adjacent property, buildings, sidewalks, driveways, curbs, etc. by the delivery of this material, and that you also agree to help him remove mud from the wheels of his vehicle so that he will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED

X

By signing this RELEASE, the driver of this truck is certifying that he has read the above and understands the contents of this RELEASE and agrees to indemnify and hold harmless the driver of this truck and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. from any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

LOAD RECEIVED BY

X

1. JOB NOT READY	LEAVE PLANT	6:38
2. SLOW POUR OR PUMP	ARRIVE JOB	6:33
3. TRUCK AHEAD ON JOB	START UNLOADING	6:40
4. CONTRACTOR BROKE DOWN	FINISH UNLOADING	7:12
5. ADDED WATER	ARRIVE PLANT	
6. TRUCK BROKE DOWN	TOTAL TIME	HRS. MIN.
7. ACCIDENT		
8. CITATION		
9. OTHER		

DRIVER NAME

TOTAL TIME

HRS. MIN.

CYLINDERS TAKEN	MIX NO.	CaCl <sub>2</sub>	TIME ORDERED
CUBIC YARDS	F# 00025	MAX. SIZE	SLUMP
YARDS ORDERED	F# SACKS 25	LOAD NUMBER	YARDS DELIVERED
GAL. WATER ADDED BY REQUEST AT JOB SITE	GALS.	AUTHORIZED BY	

LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. — WEIGHMASTER

BY DEPUTY  
SERVICE CHARGE IS COMPUTED BY A "PERIODIC RATE" OF 1 1/2% PER MONTH WHICH IS AN ANNUAL PERCENTAGE RATE OF 18% ON PAST DUE ACCOUNTS.

QUANTITY	UNIT	PRODUCT DESCRIPTION	PRICE	AMOUNT
----------	------	---------------------	-------	--------

2.00

LA70930

SUB TOTAL

COG N

CHARGE

MINUTES STANDBY TIME

SALES TAX

TOTAL

TAG NO. 148173

THIS DELIVERY TICKET HAS BEEN PREPARED BY AN 80 SERIES COMPUTERIZED BATCHING CONTROL, WITH COMMAND CENTER OPTIONS.



# WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

**SANTA CRUZ**  
PHONE 425-7260  
P.O. BOX 507  
148 ENCINAL  
95060

SOLD  
BY

*Las Animas Concrete &  
Building Supply, Inc.*

SOLD TO

DCM

DELIVER TO

RIVERSIDE  
WATSONVILLE

DATE

JOB NAME OR NUMBER

LOT NO.

P.O. NUMBER

TRUCK NO.

08/31/01 06:30:34

DCM

0

B2

## WARNING:

- CONCRETE CONTAINS PORTLAND CEMENT.
- IRRITATING TO THE SKIN AND EYES.
- AVOID CONTACT WITH EYES AND PROLONGED CONTACT WITH SKIN.
- WEAR RUBBER BOOTS AND GLOVES.
- IN CASE OF CONTACT WITH SKIN OR EYES, FLUSH THOROUGHLY WITH WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.
- KEEP CHILDREN AWAY.

## PROPERTY DAMAGE RELEASE

(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer: The driver of this truck in presenting this RELEASE to you for your signature is of the opinion that the size and weight of his truck may possibly cause damage to the premises and/or adjacent property if he places the material in this load where you desire it. It is our wish to help you in every way that we can, but in order to do this the driver is requesting that you sign this RELEASE relieving him and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. from any responsibility from any damage that may occur to the premises and/or adjacent property, buildings, sidewalk, driveways, curbs, etc. by the delivery of this material, and that you also agree to help him remove mud from the wheels of his vehicle so that he will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED

X

NOT TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE. THE ABOVE RELEASE IS VOID IF THE DRIVER OF THIS TRUCK IS NOT THE DRIVER OF THE TRUCK DELIVERING THE MATERIAL. THE DRIVER OF THE TRUCK DELIVERING THE MATERIAL MUST SIGN THIS RELEASE.

LOAD RECEIVED BY

X

PURCHASER AGREES TO PAY FOR MATERIALS LISTED ABOVE WITHIN 30 DAYS FROM DATE. IF COURT ACTION IS INSTITUTED ON THIS INVOICE, THE PURCHASER PROMISES TO PAY REASONABLE ATTORNEY'S FEES.

JOB DELAYED, LISTED, OR CANCELLED

TIME

- JOB NOT READY
- SLOW POUR OR PUMP
- TRUCK AHEAD ON JOB
- CONTRACTOR BROKE DOWN
- ADDED WATER
- TRUCK BROKE DOWN
- ACCIDENT
- CITATION
- OTHER

LEAVE PLANT

6:40

ARRIVE JOB

7:08

START UNLOADING

7:15

FINISH UNLOADING

7:46

ARRIVE PLANT

DRIVER NAME

TOTAL TIME

HRS. MIN.

CYLINDERS TAKEN

MIX NO.

CaCl<sub>2</sub>

TIME ORDERED

3

F# 00025

CUBIC YARDS

C# SACKS 25

MAX. SIZE

SLUMP

YARDS ORDERED

LOAD NUMBER

YARDS DELIVERED

GAL. WATER ADDED BY REQUEST AT JOB SITE

AUTHORIZED BY

3

GALS.

LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. — WEIGHMASTER

BY

DEPUT

SERVICE CHARGE IS COMPUTED BY A "PERIODIC RATE" OF 1 1/2% PER MONTH WHICH IS AN ANNUAL PERCENTAGE RATE OF 18% ON PAST DUE ACCOUNTS.

QUANTITY

UNIT

PRODUCT DESCRIPTION

PRICE

AMOUNT

3.00

LA79930

SUB TOTAL

COL N

CHARGE

MINUTES STANDBY TIME

SALES TAX

TAG NO. 148177

THIS DELIVERY TICKET HAS BEEN PREPARED BY AN 80 SERIES COMPUTERIZED BATCHING CONTROL, WITH COMMAND CENTER OPTIONS.

TOTAL





DYNAMIC CONSULTANTS, INC.

	Standard Scope	Retrop.	Not in Contract		
			SM/SH/ST	Asst. Scope	Partitions
Tech. Pre-estd	<input checked="" type="checkbox"/>				
Billing					

## Concrete Placement Inspection

DCI NO.: \_\_\_\_\_ PROJECT: Cherron, Cal. Hwy 99  
 DATE: 8-31-01 TIME ARRIVED: 6:30 TIME LEFT: 8:00 TRAVEL: 15 min TOTAL TIME: \_\_\_\_\_  
 MILES TO JOB: 10 TOLL: 0 PARKING: 0 LUNCH: 0  
 GENERAL CONTRACTOR: D.C.M. SUPPLIER: Las Animas Concrete

PRELIMINARY			
YES	NO		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	SPECS CHECKED	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	GEN. NOTES CHECKED	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	FORMS CLEANED	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	REBAR BRACED, CLEAN, CLEAR	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FORMS WET	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	SAND DAMPENED	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	DIMENSIONS OF MEMBERS VERIFIED	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	PORTS NECESSARY	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	PORTS PROVIDED	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	POUR JOINTS READY	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	DOWELS/BOLTS READY	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	KEYWAYS READY	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	REBAR CONTINUITY	<input checked="" type="checkbox"/>

Number of Vibrators on Hand: 2 Number of Placing Crew: 4 All above ready before placement? Yes  
 DISCREPANCIES FROM PRELIMINARY CORRECTED BEFORE COVERED? \_\_\_\_\_  
 If not, explain: \_\_\_\_\_

PLACEMENT			
<u>Type A retaining wall adjacent to Riverside Dr.</u>	LINE	TO	ROW
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Continued on reverse? Yes ☐ No ☒  
 MIX NO.: LA70930 CEMENT: 7.0 disk AGGR.: 1" PIGMENT: None  
 COMPR. STRENGTH 4000 psi CUBIC YARDS PLACED TODAY 18  
 TIME OF INITIAL PLACEMENT 6:40 TIME FIRST TRUCK BATCHED 6:10 PUMP MIX? N/A  
 WORKABILITY OK CONSOLIDATION NORMAL? Yes REINFORCING DISTURBED? No  
 SET NORMAL? Yes POUR COMPLETED TO PLANNED POUR JOINTS? Yes TIME COMPLETED 7:45

FIELD TESTS			
TIME:	<u>7:25</u>	_____	_____
TEMP/TEMP	_____	_____	_____
(CONC/AMB):	<u>75°/61°</u>	<u>1</u>	<u>1</u>
SLUMP:	<u>3 1/4"</u>	_____	_____
AIR:	_____	_____	_____
NO. CYLS.:	<u>3</u>	_____	_____
OTHER:	_____	_____	_____

Work <input checked="" type="checkbox"/> completed <input type="checkbox"/> In progress this date <input checked="" type="checkbox"/> DOES <input type="checkbox"/> DOES NOT meet the requirements of:	
<input checked="" type="checkbox"/> Approved Plans (stamped by Code Enforcement Agency)	<input checked="" type="checkbox"/> Project Drawings (stamped by Structural Engineer)
<input checked="" type="checkbox"/> Project specifications	<input type="checkbox"/> Engineer's Approved Revision/Change Order
<input checked="" type="checkbox"/> Codes/Standards	<input type="checkbox"/> attached <input type="checkbox"/> requested
<input checked="" type="checkbox"/> UBC _____ (Year)	<input type="checkbox"/> Unapproved Revision/Change Order
<input type="checkbox"/> Title 24	<input type="checkbox"/> attached <input type="checkbox"/> requested
<input type="checkbox"/> AWS _____ (Code/Year)	<input type="checkbox"/> Shop Drawings <input type="checkbox"/> approved <input type="checkbox"/> unapproved
<input type="checkbox"/> Other	<input type="checkbox"/> Other

Remarks on Reverse: Yes ☐ No ☒

Rev 941101

INSPECTOR: B. Schmidt







# SPECIAL INSPECTION RECORD

Inspection Agency: DYNAMIC CONSULTANTS INC.

Job Address: 125 WALKER STREET

Building Permit No.: EO1-00228

When attached to the job inspection record card, this card becomes a part of the inspection record.

NOTE: Each special inspector shall complete for each day's inspection. Post this card adjacent to building permit inspection record card. Weekly reports to be submitted by each special inspector/inspection agency to the building department.

INSPECTION TYPE	INSPECTOR	ID NO.	DATE	NOTES	TIME	
					START	END
Rebar Placement	H. Stephenson		8-29-01	Type A retaining wall adjacent to Riverside Dr.	1:30	3:00
Concrete Placement	D. Schmidt	E.C.B. 08431028-25	8-31-01	" " "	6:30	8:00
REBAR PLACEMENT	M. ALLEN		9-6-01	TYPE B RIVERSIDE WALL FOOTING	8:45	9:15



Inspection Agency: Shore & Associates  
Job Address: 125 Walker Street  
Building Permit No.: EO1-00228

When attached to the job inspection record card, this card becomes a part of the inspection record.

**NOTE:** Each special inspector shall complete for each day's inspection. Post this card adjacent to building permit inspection record card. Weekly reports to be submitted by each special inspector/inspection agency to the building department.

[illegible]









## DAILY INSPECTOR'S REPORT

DATE: 9-7-01

SCHEDULE: \_\_\_\_\_

PROJECT NO: 164824LINE: Riverside near Locust Corner,INSP: Cecil Gore

Items of Work Completed	Location or Sta. to Sta.	Amount	Remarks
Pouring Concrete	115' to 170	55'	
7 Sack	JAS Animas Concrete out of Santa Cruz		
PCI onsite for Concrete Inspection and cylinder Test			
Ambient Temp. 52°F			
Concrete Mix Temp. 71°F			
Slump 3 1/2"			
Forms were ready - Wetted and Braced			
Footings - Clean - Clean - Wetted			
Rebar previously Inspected 9-6-01			
Properly Tied.			
Form 2x4 split-out at Post Rebarred okay.			

Remarks:









DYNAMIC CONSULTANTS, INC.


## Reinforcing Inspection

DCI NO.: \_\_\_\_\_ PROJECT: Chevron Cal Spray  
DATE: 9-26-01 TIME ARRIVED: 1130 TIME LEFT: 200 TRAVEL: 7/4 TOTAL TIME: 2 3/4  
MILES TO JOB: 2 TOLL: \_\_\_\_\_ PARKING: \_\_\_\_\_ LUNCH: \_\_\_\_\_

### PRELIMINARY

GENERAL CONTRACTOR: DCM SUPPLIER: Assoc Rdw  
REBAR PLCMT. CONTRACTOR: DCM PLANNED POUR DATE: 9-26-01  
YES NO YES NO YES NO  
(X) ( ) SPECS CHECKED (X) ( ) GEN. NOTES CHECKED ( ) ( ) APPR. PLAN SHEETS CHECKED  
X CAST-IN-PLACE CONCRETE (0309) \_\_\_\_\_ TILT-UP PANELS (0402) \_\_\_\_\_ PRECAST CONCRETE (0402)  
\_\_\_\_\_ POST-TENSIONED CONCRETE (0404) \_\_\_\_\_ SHOTCRETE (0310) \_\_\_\_\_ OTHER (0104/0204)

### PLACEMENT

1. MEMBER Footings and retaining wall at S/East corner Riverside  
LINE \_\_\_\_\_ TO 22, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_  
2. MEMBER Footings and retaining wall at S/West corner Riverside  
LINE \_\_\_\_\_ TO 23, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_  
3. MEMBER \_\_\_\_\_  
LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_  
4. MEMBER \_\_\_\_\_  
LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_

Continued on reverse? Yes ☐ No ☒

REBAR GRADES SPECIFIED? Yes GRADES COMPLY? Yes CHECKED SIZES? Yes  
CHECKED SPACING? Yes CHECKED LAPS? Yes CHECKED RADII? N/A  
CHECKED POSITION? Yes CHECKED CLEARANCE? Yes CHECKED ANCHOR BOLTS? N/A  
CONTINUITY PREVIOUS? Yes CONTINUITY FUTURE? Yes

Work ☒ completed ☐ in progress this date ☒ DOES ☐ DOES NOT meet the requirements of:

☒ Approved Plans (stamped by Code Enforcement Agency) ☐ Project Drawings (stamped by Structural Engineer)  
☒ Project specifications ☐ Engineer's Approved Revision/Change Order  
☒ Codes/Standards ☐ attached ☐ requested  
☒ UBC 97 (Year) ☐ Unapproved Revision/Change Order  
☐ Title 24 ☐ attached ☐ requested  
☐ AWS \_\_\_\_\_ (Code/Year) ☐ Shop Drawings ☐ approved ☐ unapproved  
☐ Other \_\_\_\_\_ ☐ Other \_\_\_\_\_

REMARKS:

Continued on Reverse: Yes ☐ No ☒



THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

**SOLD  
BY**

*Las Animas Concrete &  
Building Supply, Inc.*

DCM

WALKER & RIVERSIDE  
WATSONVILLE

TRUCK NO.

①

71

- CONCRETE CONTAINS PORTLAND CEMENT.
- IRRITATING TO THE SKIN AND EYES.
- AVOID CONTACT WITH EYES AND PROLONGED CONTACT WITH SKIN.
- WEAR RUBBER BOOTS AND GLOVES.
- IN CASE OF CONTACT WITH SKIN OR EYES, FLUSH THOROUGHLY WITH WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

KEEP CHILDREN AWAY.

(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer - The driver of this truck in presenting this RELEASE to you for your signature is of the opinion that the size and weight of his truck may possibly cause damage to the premises and/or adjacent property if he places the material in this load where you desire it. It is our wish to help you in every way that we can, but in order to do this the driver is requesting that you sign this RELEASE relieving him and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. from any responsibility from any damage that may occur to the premises and/or adjacent property, buildings, sidewalk, driveways, curbs, etc. by the delivery of this material, and that you also agree to help him remove mud from the wheels of his vehicle so that he will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

**X**

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE ABOVE HEALTH WARNING NOTICE. LAS ANIMAS CONCRETE WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE.

**X**

**PURCHASER AGREES TO PAY FOR MATERIALS LISTED ABOVE WITHIN 30 DAYS FROM DATE. IF COURT ACTION IS INSTITUTED ON THIS INVOICE, THE PURCHASER PROMISES TO PAY REASONABLE ATTORNEYS FEES.**

TIME

7.30

12.30  
1.00

HRS. • MIN.

•

DRIVER NAME

TIME ORDERED

F# 00025  
C# 25

SLUMP

9.00

YARDS ORDERED

LOAD NUMBER

YARDS DELIVERED

0009.00

01

0009.00

GAL. WATER ADDED BY  
REQUEST AT JOB SITE

**AUTHORIZED BY**

**GALS.**

LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. — WEIGHMASTER

BY                      DEPUTY  
SERVICE CHARGE IS COMPUTED BY A "PERIODIC RATE" OF 1 1/2% PER MONTH WHICH IS AN ANNUAL  
PERCENTAGE RATE OF 18% ON PAST DUE ACCOUNTS.

AXD 0.0 GL

AMOUNT

LA70930

COD M

CHARGE

MINUTES STANDBY TIME

148996

**TAG NO. 148996**

THIS DELIVERY TICKET HAS BEEN PREPARED BY AN  
80 SERIES COMPUTERIZED BATCHING CONTROL,  
WITH COMMAND CENTER OPTIONS.

SALES TAX

TOTAL





DYNAMIC CONSULTANTS, INC.

Tech. Prepared Billing	Standard Scope	Relap.	Not In Contract	
	801/881	Add. Scope	Revisions	
	<input checked="" type="checkbox"/>			

## Reinforcing Inspection

DCI NO.: \_\_\_\_\_ PROJECT: Cherron, Cal. Spry  
 DATE: 9-28-01 TIME ARRIVED: 12:00 TIME LEFT: \_\_\_\_\_ TRAVEL: 15 min TOTAL TIME: \_\_\_\_\_  
 MILES TO JOB: 10 TOLL: 0 PARKING: 0 LUNCH: \_\_\_\_\_

### PRELIMINARY

GENERAL CONTRACTOR: CHM 2 Hill SUPPLIER: Associated Rebar  
 REBAR PLCMT. CONTRACTOR: D.C.M. PLANNED POUR DATE: 9-28-01  
 YES NO YES NO YES NO  
☒ [ ] SPECS CHECKED ☒ [ ] GEN. NOTES CHECKED ☒ [ ] APPR. PLAN SHEETS CHECKED  
☒ CAST-IN-PLACE CONCRETE (0309) \_\_\_\_\_ TILT-UP PANELS (0402) \_\_\_\_\_ PRECAST CONCRETE (0402)  
 \_\_\_\_\_ POST-TENSIONED CONCRETE (0404) \_\_\_\_\_ SHOTCRETE (0310) \_\_\_\_\_ OTHER (0104/0204)

### PLACEMENT

- \* 1. MEMBER Drain grate footing/slab, adjacent to Riverside Dr.  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL fdm DIMENSIONS CHECKED? Yes  
 2. MEMBER Septic B' retaining wall, Dixon Fire, Scotts Valley, Sprinkler  
corner to 200 ft. west  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL fdm DIMENSIONS CHECKED? Yes  
 3. MEMBER \_\_\_\_\_  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_  
 4. MEMBER \_\_\_\_\_  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_

Continued on reverse? Yes ☐ No ☒

REBAR GRADES SPECIFIED? Non-spezif. GRADES COMPLY? 60 \*CHECKED SIZES? Yes  
 CHECKED SPACING? Yes CHECKED LAPS? Yes CHECKED RADII? Yes  
 CHECKED POSITION? Yes CHECKED CLEARANCE? Yes CHECKED ANCHOR BOLTS? N/A  
 CONTINUITY PREVIOUS? OK CONTINUITY FUTURE? OK

Work ☒ completed ☐ in progress this date ☒ DOES ☒ DOES NOT meet the requirements of:  
☒ Approved Plans (stamped by Code Enforcement Agency) ☒ Project Drawings (stamped by Structural Engineer)  
☒ Project specifications ☐ Engineer's Approved Revision/Change Order  
☒ Codes/Standards ☐ attached ☐ requested  
☒ UBC \_\_\_\_\_ (Year) ☐ Unapproved Revision/Change Order  
☐ Title 24 ☐ attached ☐ requested  
☐ AWS \_\_\_\_\_ (Code/Year) ☐ Shop Drawings ☐ approved ☐ unapproved  
☐ Other ☐ Other \_\_\_\_\_

\* REMARKS: Drain Grate slab below grate form to be 6" thick, depth  
varies from 5" to 6"

Continued on Reverse: Yes ☐ No ☒









DATE: Mon Oct 1, 01

SCHEDULE: *Contract Item*

PROJECT NO: 164824

LINE:

INSP:

Clinton CCI, PCI

[illegible]

Remarks:





DYNAMIC CONSULTANTS, INC.

	Standard Scope	Reinps.	North Contract	
Tech. Prepared			8/1/81	8/1/81
Reinps.				

## Reinforcing Inspection

DCI NO.: \_\_\_\_\_ PROJECT: Chevron Cal Spray  
 DATE: 90-1-a TIME ARRIVED: 1200 TIME LEFT: 300 TRAVEL: \_\_\_\_\_ TOTAL TIME: 3  
 MILES TO JOB: \_\_\_\_\_ TOLL: \_\_\_\_\_ PARKING: \_\_\_\_\_ LUNCH: \_\_\_\_\_

### PRELIMINARY

GENERAL CONTRACTOR: DCM SUPPLIER: ASSOC  
 REBAR PLCMT. CONTRACTOR: DCM PLANNED POUR DATE: 10-1-01  
 YES NO YES NO YES NO  
 [ ] [ ] SPECS CHECKED [ ] [ ] GEN. NOTES CHECKED [ ] [ ] APPR. PLAN SHEETS CHECKED  
X CAST-IN-PLACE CONCRETE (0309) \_\_\_\_\_ TILT-UP PANELS (0402) \_\_\_\_\_ PRECAST CONCRETE (0402)  
 \_\_\_\_\_ POST-TENSIONED CONCRETE (0404) \_\_\_\_\_ SHOTCRETE (0310) \_\_\_\_\_ OTHER (0104/0204)

### PLACEMENT

1. MEMBER retaining wall North End  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_  
 2. MEMBER \_\_\_\_\_  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_  
 3. MEMBER \_\_\_\_\_  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_  
 4. MEMBER \_\_\_\_\_  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_

Continued on reverse? Yes ☐ No ☒

REBAR GRADES SPECIFIED? yes GRADES COMPLY? yes CHECKED SIZES? yes  
 CHECKED SPACING? yes CHECKED LAPS? yes CHECKED RADII? N/A  
 CHECKED POSITION? yes CHECKED CLEARANCE? yes CHECKED ANCHOR BOLTS? N/A  
 CONTINUITY PREVIOUS? NO CONTINUITY FUTURE? yes

Work ☒ completed ☐ in progress this date ☒ DOES ☐ DOES NOT meet the requirements of:  
☒ Approved Plans (stamped by Code Enforcement Agency) ☐ Project Drawings (stamped by Structural Engineer)  
☒ Project specifications ☐ Engineer's Approved Revision/Change Order  
☒ Codes/Standards ☐ attached ☐ requested  
☒ UBC 97 (Year) ☐ Unapproved Revision/Change Order  
☐ Title 24 ☐ attached ☐ requested  
☐ AWS \_\_\_\_\_ (Code/Year) ☐ Shop Drawings ☐ approved ☐ unapproved  
☐ Other ☐ Other \_\_\_\_\_

REMARKS:

Continued on Reverse: Yes ☐ No ☒





DYNAMIC CONSULTANTS, INC.

## Concrete Placement Inspection

Field Inspector	Standard Form	Project	DATE	Job No.	Contract No.	Revision

DCI NO.: \_\_\_\_\_ PROJECT: Chevron Cal Spray  
 DATE: 10-1-02 TIME ARRIVED: 1200 TIME LEFT: 300 TRAVEL: \_\_\_\_\_ TOTAL TIME: 3  
 MILES TO JOB: \_\_\_\_\_ TOLL: \_\_\_\_\_ PARKING: \_\_\_\_\_ LUNCH: \_\_\_\_\_  
 GENERAL CONTRACTOR: DCM SUPPLIER: \_\_\_\_\_

YES		NO		PRELIMINARY		YES		NO	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SPECS CHECKED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GEN. NOTES CHECKED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FORMS CLEANED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	REBAR BRACED, CLEAN, CLEAR		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FORMS WBT		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SAND DAMPENED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DIMENSIONS OF MEMBERS VERIFIED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				Number of Vibrators on Hand: <u>1</u>				Number of Placing Crew: <u>6</u>	
								All above ready before placement? <u>Yes</u>	
				DISCREPANCIES FROM PRELIMINARY CORRECTED BEFORE COVERED? <u>Yes</u>					
				If not, explain: _____					

Retaining Wall North End 83' **PLACEMENT**

LINE _____	TO _____	ROW _____	TO _____	LEVEL _____
LINE _____	TO _____	ROW _____	TO _____	LEVEL _____
LINE _____	TO _____	ROW _____	TO _____	LEVEL _____
LINE _____	TO _____	ROW _____	TO _____	LEVEL _____

Continued on reverse? Yes ☐ No ☒

MIX NO: LA70930 CEMENT: 75K AGGR.: 1 PIGMENT: Gray

COMPR. STRENGTH 4000 psi CUBIC YARDS PLACED TODAY 14 7/8

TIME OF INITIAL PLACEMENT 1 PM TIME FIRST TRUCK BATCHED 1230 PUMP MIX? NO

WORKABILITY OK CONSOLIDATION NORMAL? Yes REINFORCING DISTURBED? \_\_\_\_\_

SET NORMAL? \_\_\_\_\_ POUR COMPLETED TO PLANNED POUR JOINTS? \_\_\_\_\_ TIME COMPLETED \_\_\_\_\_

**FIELD TESTS**

TIME: 115

TEMP/TEMP \_\_\_\_\_

(CONC/AMB): 78/64

SLUMP: 3 1/2

AIR: \_\_\_\_\_

NO. CYLS.: 3

OTHER: \_\_\_\_\_

Work ☒ completed ☐ in progress this date ☒ DOES ☐ DOES NOT meet the requirements of:

<input checked="" type="checkbox"/> Approved Plans (stamped by Code Enforcement Agency)	<input type="checkbox"/> Project Drawings (stamped by Structural Engineer)
<input checked="" type="checkbox"/> Project specifications	<input type="checkbox"/> Engineer's Approved Revision/Change Order
<input checked="" type="checkbox"/> Codes/Standards	<input type="checkbox"/> attached <input type="checkbox"/> requested
<input checked="" type="checkbox"/> UBC <u>9.5</u> (Year)	<input type="checkbox"/> Unapproved Revision/Change Order
<input type="checkbox"/> Title 24	<input type="checkbox"/> attached <input type="checkbox"/> requested
<input type="checkbox"/> AWS _____ (Code/Year)	<input type="checkbox"/> Shop Drawings <input type="checkbox"/> approved <input type="checkbox"/> unapproved
<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____

Remarks on Reverse: Yes ☐ No ☒

Rev 941101

INSPECTOR: H. Stephens



# SPECIAL INSPECTION RECORD

Inspection Agency: DYNAMIC CONSULTANTS INC.

Job Address: 125 WALKER STREET

Building Permit No.: EO1-00228

When attached to the job inspection record card, this card becomes a part of the inspection record.

NOTE: Each special inspector shall complete for each day's inspection. Post this card adjacent to building permit inspection record card. Weekly reports to be submitted by each special inspector/inspection agency to the building department.

INSPECTION TYPE	INSPECTOR	ID NO.	DATE	NOTES	TIME	
					START	END
Rebar Placement	H. Stephenson	08482088	8-29-01	Type A retaining wall adjacent to Riverside Dr.	1:30	3:00
Concrete Placement	D. Schmidt	I.C.B. O. 0843628-88	8-31-01	" " "	6:30	8:00
REBAR PLACEMENT	M. ALLEN		9-6-01	TYPE B RIVERSIDE WALL FOOTING	8:45	9:15
Concrete placement	H. Stephenson	084820-88	9-7-01	retaining wall Riverside	630	830
Rebar Placement	D. Schmidt	084328-88	9-12-01	Type B retaining wall Dupont Ave.	1:45	2:45
Concrete placement	H. Stephenson	084820-88	9-13-01	retaining wall Dixie	1015	1230
Rebar concrete placement	D. Schmidt	084328-88	9-20	Drain Box	1100	200
Rebar concrete placement	H. Stephenson	084820-88	9-26	Retaining wall	1130	200
Rebar concrete	H. Stephenson	084820-88	10-1	Retaining wall	1200	300



# WEIGHMASTER CERTIFICATE

TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized person of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Weights and Measures of the California Department of Food and Agriculture.

**SANTA CRUZ**  
PHONE 426-7280  
P.O. BOX 507  
146 ENCINAL  
95060

SOLD  
BY

*Las Animas Concrete &  
Building Supply, Inc.*

SOLD TO

DCM CONST

DELIVER TO

WALKER & RIVERSIDE  
WATSONVILLE

DATE  
10/01/01 12:08:35

JOB NAME OR NUMBER  
DCM 0

LOT NO.

P.O. NUMBER

TRUCK NO.  
85

**WARNING:**

- CONCRETE CONTAINS PORTLAND CEMENT.
- IRRITATING TO THE SKIN AND EYES.
- AVOID CONTACT WITH EYES AND PROLONGED CONTACT WITH SKIN.
- WEAR RUBBER BOOTS AND GLOVES.
- IN CASE OF CONTACT WITH SKIN OR EYES, FLUSH THOROUGHLY WITH WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.
- KEEP CHILDREN AWAY.

## PROPERTY DAMAGE RELEASE

(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer - The driver of this truck in presenting this RELEASE to you for your signature is of the opinion that the size and weight of his truck may possibly cause damage to the premises and/or adjacent property if he places the material in this load where you desire it. It is our wish to help you in every way that we can, but in order to do this the driver is requesting that you sign this RELEASE relieving him and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. from any responsibility from any damage that may occur to the premises and/or adjacent property, buildings, sidewalk, driveways, curbs, etc. by the delivery of this material, and that you also agree to help him remove mud from the wheels of his vehicle so that he will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED

X

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE ABOVE HEALTH WARNING NOTICE. LAS ANIMAS CONCRETE WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE.

LOAD RECEIVED BY

X

PURCHASER AGREES TO PAY FOR MATERIALS LISTED ABOVE WITHIN 30 DAYS FROM DATE. IF COURT ACTION IS INSTITUTED ON THIS INVOICE, THE PURCHASER PROMISES TO PAY REASONABLE ATTORNEYS FEES.

## JOB DELAYS—CIRCLE DELAY NO.

1. JOB NOT READY
2. SLOW POUR OR PUMP
3. TRUCK AHEAD ON JOB
4. CONTRACTOR BROKE DOWN
5. ADDED WATER
6. TRUCK BROKE DOWN
7. ACCIDENT
8. CITATION
9. OTHER

DRIVER NAME

## TIME

LEAVE PLANT

ARRIVE JOB

START UNLOADING

FINISH UNLOADING

ARRIVE PLANT

TOTAL TIME

HRS. MIN.

CYLINDERS TAKEN

MIX NO.  
F# 00025  
C# 25

CaCL<sub>2</sub>

TIME ORDERED

CUBIC YARDS

9.00

SACKS

MAX. SIZE

SLUMP

YARDS ORDERED

0009.00

LOAD NUMBER

01

YARDS DELIVERED

0009.00

GAL. WATER ADDED BY  
REQUEST AT JOB SITE

AUTHORIZED BY

GALS.

LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. — WEIGHMASTER

SERVICE CHARGE IS COMPUTED BY A "PERIODIC RATE" OF 1 1/2% PER MONTH WHICH IS AN AVERAGE PERCENTAGE RATE OF 18% ON PAST DUE ACCOUNTS.

BATCH NO. 44  
WAT TRIM - 1.0

01/02 BSZ 4.50

BATCH NO. 44

02/02 BSZ 4.50

BATCH NO. 45

AGG 04 15420 LB MC 1.0

AGG 02 13240 LB NC 5.0

CEM 01 5016 LB

WAT 01 201 GL

AXB 02 234 GL

TIME 12:17:29

END TAKES

AGG -20 LB

CEM 00 LB

WAT 00 GL

AXA 00 02

AXP 00 07

AXC 00 07

AXD 0.0 GL

QUANTITY

9.00

UNIT

PRODUCT DESCRIPTION

LA70930

PRICE

AMOUNT

CHARGE

MINUTES STANDBY TIME

149155

TAG NO. 149155

THIS DELIVERY TICKET HAS BEEN PREPARED BY AN 80 SERIES COMPUTERIZED BATCHING CONTROL, WITH COMMAND CENTER OPTIONS.

SALES TAX

TOTAL



# WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

**SANTA CRUZ**  
PHONE 426-7280  
P.O. BOX 507  
146 ENCINAL  
95060

SOLD  
BY

*Las Animas Concrete & Building Supply, Inc.*

SOLD TO

DCM CONST

DELIVER TO

WALKER & RIVERSIDE  
WATSONVILLE

DATE

10/01/01 13:26:37

JOB NAME OR NUMBER

DCM

LOT NO.

0

P.O. NUMBER

TRUCK NO.

154

**WARNING:**

- CONCRETE CONTAINS PORTLAND CEMENT.
- IRRITATING TO THE SKIN AND EYES.
- AVOID CONTACT WITH EYES AND PROLONGED CONTACT WITH SKIN.
- WEAR RUBBER BOOTS AND GLOVES.
- IN CASE OF CONTACT WITH SKIN OR EYES, FLUSH THOROUGHLY WITH WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.
- KEEP CHILDREN AWAY.

## PROPERTY DAMAGE RELEASE

(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer - The driver of this truck in presenting this RELEASE to you for your signature is of the opinion that the size and weight of his truck may possibly cause damage to the premises and/or adjacent property if he places the material in this load where you desire it. It is our wish to help you in every way that we can, but in order to do this the driver is requesting that you sign this RELEASE relieving him and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. from any responsibility from any damage that may occur to the premises and/or adjacent property, buildings, sidewalk, driveways, curbs, etc. by the delivery of this material, and that you also agree to help him remove mud from the wheels of his vehicle so that he will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED

X

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE ABOVE HEALTH WARNING NOTICE. LAS ANIMAS CONCRETE WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE.

LOAD RECEIVED BY

X

PURCHASER AGREES TO PAY FOR MATERIALS LISTED ABOVE WITHIN 30 DAYS FROM DATE. IF COURT ACTION IS INSTITUTED ON THIS INVOICE, THE PURCHASER PROMISES TO PAY REASONABLE ATTORNEYS FEES.

## JOB DELAYS-CIRCLE DELAY NO.

1. JOB NOT READY
2. SLOW POUR OR PUMP
3. TRUCK AHEAD ON JOB
4. CONTRACTOR BROKE DOWN
5. ADDED WATER
6. TRUCK BROKE DOWN
7. ACCIDENT
8. CITATION
9. OTHER

LEAVE PLANT

1:40

ARRIVE JOB

START UNLOADING

FINISH UNLOADING

ARRIVE PLANT

TOTAL TIME

HRS.

MIN.

CYLINDERS TAKEN

MIX NO.

CaCL<sub>2</sub>

TIME ORDERED

F# 00025  
C# 25

CUBIC YARDS

SACKS

MAX. SIZE

SLUMP

7.50

YARDS ORDERED

LOAD NUMBER

YARDS DELIVERED

0009.00

02

0016.50

GAL. WATER ADDED BY  
REQUEST AT JOB SITE

AUTHORIZED BY

GALS.

LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. — WEIGHMASTER

BY

DEPU

SERVICE CHARGE IS COMPUTED BY A "PERIODIC RATE" OF 1 1/2% PER MONTH WHICH IS AN ANNUAL PERCENTAGE RATE OF 18% ON PAST DUE ACCOUNTS.

BATCH NO. 56  
WAT TRIM - 2.0

01/02 BSZ 3.75

BATCH NO. 56

02/02 BSZ 3.75

BATCH NO. 57

AGG 04 12800 LB MC 1.0

AGG 02 11020 LB MC 5.0

CEM 01 4936 LB

WAT 01 160 GL

AXB 02 195 OZ

TIME 13:30:33

END TARES

AGG 20 LB

CEM 00 LB

WAT 00 GL

AXB 00 OZ

AXB 00 OZ

AXB 00 OZ

AXB 0.0 GL

QUANTITY

UNIT

PRODUCT DESCRIPTION

PRICE

AMOUNT

7.50

LA70930

SUB TOTAL

000 N

CHARGE

MINUTES STANDBY TIME

149163

TAG NO. 149163

THIS DELIVERY TICKET HAS BEEN PREPARED BY AN 80 SERIES COMPUTERIZED BATCHING CONTROL, WITH COMMAND CENTER OPTIONS.

SALES TAX

TOTAL





DYNAMIC CONSULTANTS, INC.

Job No.	Project Name	Rebar Type	Rebar Size	Rebar Spacing	Rebar Length

# Reinforcing Inspection

DCI NO: \_\_\_\_\_ PROJECT: Chevron Cal Spray  
 DATE: 10-2-01 TIME ARRIVED: 1130 TIME LEFT: 100 TRAVEL: 174 TOTAL TIME: 1314  
 MILES TO JOB: 7 TOLL: \_\_\_\_\_ PARKING: \_\_\_\_\_ LUNCH: \_\_\_\_\_

## PRELIMINARY

GENERAL CONTRACTOR: DCM SUPPLIER: ASSOL  
 REBAR PLANT CONTRACTOR: DCM PLANNED POUR DATE: 10-2-01  
 YES NO YES NO YES NO  
 (X) [ ] SPECS CHECKED (X) [ ] GEN. NOTES CHECKED [ ] [ ] APPR. PLAN SHEETS CHECKED  
 (X) CAST-IN-PLACE CONCRETE (0309) \_\_\_\_\_ TILT-UP PANELS (0402) \_\_\_\_\_ PRECAST CONCRETE (0402)  
 \_\_\_\_\_ POST-TENSIONED CONCRETE (0404) \_\_\_\_\_ SHOTCRETE (0310) \_\_\_\_\_ OTHER (0104/0204)

## PLACEMENT

1. MEMBER Drainage Grate @ Riverside near Dixon Ave  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_  
 2. MEMBER \_\_\_\_\_  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_  
 3. MEMBER \_\_\_\_\_  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_  
 4. MEMBER \_\_\_\_\_  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_

Continued on reverse? Yes ☐ No ☒  
 REBAR GRADES SPECIFIED? Yes GRADES COMPLY? Yes CHECKED SIZES? Yes  
 CHECKED SPACING? Yes CHECKED LAPS? Yes CHECKED RADII? N/A  
 CHECKED POSITION? Yes CHECKED CLEARANCE? Yes CHECKED ANCHOR BOLTS? N/A  
 CONTINUITY PREVIOUS? NO CONTINUITY FUTURE? NO

Work ☒ completed ☐ in progress this date ☒ DOES ☐ DOES NOT meet the requirements of:  
☒ Approved Plans (stamped by Code Enforcement Agency) ☐ Project Drawings (stamped by Structural Engineer)  
☒ Project specifications ☐ Engineer's Approved Revision/Change Order  
☒ Codes/Standards ☐ attached ☐ requested  
☒ UBC 97 (Year) ☐ Unapproved Revision/Change Order  
☐ Title 24 ☐ attached ☐ requested  
☐ AWS \_\_\_\_\_ (Code/Year) ☐ Shop Drawings ☐ approved ☐ unapproved  
☐ Other \_\_\_\_\_ ☐ Other \_\_\_\_\_

REMARKS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Continued on Reverse: Yes ☐ No ☐





DYNAMIC CONSULTANTS, INC.

## Concrete Placement Inspection

DCI NO.: \_\_\_\_\_ PROJECT: Chevron Cal spray  
 DATE: 10 TIME ARRIVED: 1130 TIME LEFT: 100 TRAVEL: 14 TOTAL TIME: 1314  
 MILES TO JOB: 7 TOLL: \_\_\_\_\_ PARKING: \_\_\_\_\_ LUNCH: \_\_\_\_\_  
 GENERAL CONTRACTOR: DCM SUPPLIER: Las Animas

## PRELIMINARY

YES NO

☒ ☐ SPECS CHECKED  
☒ ☐ GEN. NOTES CHECKED  
☒ ☐ FORMS CLEANED  
☒ ☐ REBAR BRACED, CLEAN, CLEAR  
☒ ☐ FORMS WET  
☒ ☐ SAND DAMPENED  
☒ ☐ DIMENSIONS OF MEMBERS VERIFIED

YES NO

☒ ☐ PORTS NECESSARY  
☒ ☐ PORTS PROVIDED  
☒ ☐ POUR JOINTS READY  
☒ ☐ DOWELS/BOLTS READY  
☒ ☐ KEYWAYS READY  
☒ ☐ REBAR CONTINUITY

Number of Vibrators on Hand: 1 Number of Placing Crew: 5 All above ready before placement? Y  
 DISCREPANCIES FROM PRELIMINARY CORRECTED BEFORE COVERED? Y  
 If not, explain: \_\_\_\_\_

## PLACEMENT

Drainage Grate @ Riverside St near Dixon Ave  
 \_\_\_\_\_, LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_  
 \_\_\_\_\_, LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_  
 \_\_\_\_\_, LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_  
 \_\_\_\_\_, LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_

Continued on reverse? Yes ☐ No ☒  
 MIX NO.: LA 70930 CEMENT: 7SK AGGR.: 1" PIGMENT: Gray  
 COMPR. STRENGTH 4000 psi CUBIC YARDS PLACED TODAY 351-  
 TIME OF INITIAL PLACEMENT 1200 TIME FIRST TRUCK BATCHED 1130 PUMP MIX? N/A  
 WORKABILITY OK CONSOLIDATION NORMAL? OK REINFORCING DISTURBED? N/A  
 SET NORMAL? OK POUR COMPLETED TO PLANNED POUR JOINTS? Y TIME COMPLETED 1245

## FIELD TESTS

TIME: 1215  
 TEMP/TEMP  
 (CONC/AMB): 75, 64  
 SLUMP: 2 1/2  
 AIR: \_\_\_\_\_  
 NO. CYLS.: 3  
 OTHER: \_\_\_\_\_

Work ☒ completed ☐ In progress this date ☒ DOES ☐ DOES NOT meet the requirements of:  
☒ Approved Plans (stamped by Code Enforcement Agency) ☐ Project Drawings (stamped by Structural Engineer)  
☒ Project specifications ☐ Engineer's Approved Revision/Change Order  
☒ Codes/Standards 97 (Year) ☐ attached ☐ requested  
☒ UBC ☐ Unapproved Revision/Change Order  
☐ Title 24 ☐ attached ☐ requested  
☐ AWS \_\_\_\_\_ (Code/Year) ☐ Shop Drawings ☐ approved ☐ unapproved  
☐ Other ☐ Other

Remarks on Reverse: Yes ☐ No ☒

Rev 941101

INSPECTOR: H-Stephens



# SPECIAL INSPECTION RECORD

Inspection Agency: DYNAMIC Consultants Inc.  
 Job Address: 125 WALKER STREET  
 Building Permit No.: EO1-00228  
 When attached to the job inspection record card, this card becomes a part of the inspection record.

NOTE: Each special inspector shall complete for each day's inspection. Post this card adjacent to building permit inspection record card. Weekly reports to be submitted by each special inspector/inspection agency to the building department.

INSPECTION TYPE	INSPECTOR	ID NO.	DATE	NOTES	TIME	
					START	END
Rebar Placement	H. Stephenson	084820-88	8-29-01	Type A retaining wall adjacent to Riverside Dr.	1:30	3:00
Concrete Placement	D. Schmidt	E.C.B.O. 0843428-88	8-31-01	" " "	6:30	8:00
REBAR PLACEMENT	M. ALLEN		9-6-01	TYPE B RIVERSIDE WALL FOOTING	8:45	9:15
Concrete placement	H. Stephenson	084820-88	9-7-01	retaining wall Riverside	630	830
Rebar Placement	D. Schmidt	084328-88	9-12-01	Type B retaining wall Dupont Circle	1:45	2:45
Concrete placement	H. Stephenson	084820-88	9-13-01	retaining wall Dupont	105	1230
Rebar Concrete placement	D. Schmidt	084328-88	9-20	Drain Box	1100	200
Rebar Concrete placement	H. Stephenson	084820-88	9-26	Retaining wall	1130	200
Rebar concrete	H. Stephenson	084820-88	10-1	Retaining wall	1200	300
Rebar/Concrete	H. Stephenson	084820-88	10-2	Drain Grade	1130	100







THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

**SOLD  
BY**

TOTAL <sup>o</sup>





## DAILY INSPECTOR'S REPORT

DATE:

9-26-01

SCHEDULE:

PROJECT NO:

164824

LINE:

INSP:

Ceil Hone

Items of Work Completed	Location or Sta. to Sta.	Amount	Remarks
Retaining Wall Form DCE Inspected	0-20' Rebar and Clearance.	East of Riverside Drive	
PCI on-site Concrete	Taken slump & cylinder observing Pour. IPS ANIMA.	9 yds <sup>3</sup>	
Ambient	74°F		
Mix	78°F		
Slump	3.5"		
Water added	5 gallons.		
3 cylinders	Taken		
Concrete	Being place okay		
Footings	was prepared okay per PCI		
1 Area Poured:	short wall at SW drainage grate		
	short wall at Riverside from P.C. corner to previous wall		
	about 25'		
2 Area Poured:	short wall at SE corner 20' East of Riverside Drive		
All Pours were Acceptable			

Remarks:

Ceil Hone



Corporate Offices  
Materials Laboratory  
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**DCI**  
**DYNAMIC CONSULTANTS, INC.**  
Testing & Inspection Services

Branch Office  
34 Hangar Way  
Watsonville, California 95076-2  
Telephone: (831) 724-2234  
Facsimile: (831) 724-9166

**COMPRESSION TEST REPORT**

September 14, 2001/7-days  
October 8, 2001/31-days

REPORT TO: Jeff Deakin  
D C M Construction & Services, Inc.  
7172 Regional Street #139  
Dublin, California 94568

DCI No.: 6807-W01

PERMIT NO.: E01-00228

PROJECT: CHEVRON CAL-SPRAY PROJECT  
135 Walker Avenue, Watsonville, CA

Sampling Location: Retaining wall mid point Riverside Drive

Material:	Concrete Cylinders	Date Cast (ASTM C31):	9/7/01	Slump, in. (ASTM C143):	3-1/2
Supplier:	Las Animas Concrete	Date Received:	9/10/01	Mix Temp., °F (ASTM C1064):	70
mix Design:	LA70930	Sampled By (ASTM C172):	Stephenson, H.	Ambient Temp., °F:	52
Cement Factor, sk/cy:	7 sacks	Truck No./Load No.:	75 / 1	Air Content, % (ASTM C173/C231):	
Max. Size Aggr., in.:	1"	Tag No.:	148363	Fresh Unit Wt., pcf (ASTM C138):	
admixture(s):	WRDA				
Design Strength, psi:	4,000 @ 28 days				

**Compression Test Data (ASTM C39)**

Specimen No.	Client's ID	Date Tested	Age, days	Nominal Dimensions, in.	Area, sq. in.	Ultimate Load, lbs.	Compressive Strength, psi	Fracture	Tested By
1112 A		09/14/01	7	6 x 12	28.26	135,500	4,790	Normal	DS
1112 B		10/08/01	31	6 x 12	28.26	166,500	5,890	Normal	JM
W1112 C		10/08/01	31	6 x 12	28.26	165,000	5,840	Normal	JM

All samples designated HOLD will be kept 14 days after the 28 day test and thereafter discarded unless instructed otherwise. Any samples held beyond these 14 days are subject to storage fees.

Respectfully submitted,  
**DYNAMIC CONSULTANTS, INC.**

  
Denny Zucchi  
Laboratory Supervisor

CH2M Hill / CCI / Cecil Gore\*  
City of Watsonville



Corporate Offices  
Materials Laboratory  
415 Fairchild Drive  
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Facsimile: (650) 967-6955

# DCI

## DYNAMIC CONSULTANTS, INC.

Testing & Inspection Services

Branch Office  
34 Hangar Way  
Watsonville, California 95076-24  
Telephone: (831) 724-2234  
Facsimile: (831) 724-9166

### COMPRESSION TEST REPORT

September 27, 2001/7-days  
October 18, 2001/28-days

REPORT TO: Jeff Deakin  
D C M Construction & Services, Inc.  
7172 Regional Street #139  
Dublin, California 94568

DCI No.: 6807-W01  
PERMIT No.: E01-00228

PROJECT: CHEVRON CAL-SPRAY PROJECT  
135 Walker A venue, Watsonville, CA

Sampling Location: Drainage grate at Dixon Tire and corner of Riverside Dr./Locust St

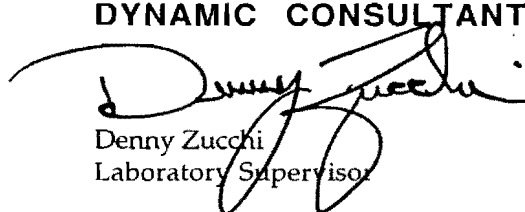
Material:	Concrete Cylinders	Date Cast (ASTM C31):	9/20/01	Slump, in. (ASTM C143):	2-3/4
Supplier:	Las Animas	Date Received:	9/21/01	Mix Temp., °F (ASTM C1064):	75
Mix Design:	LA70930	Sampled By (ASTM C172):	Schmidt, D.	Ambient Temp., °F:	64
Cement Factor, sk/cy:	7	Truck No./Load No.:	73 / 1	Air Content, % (ASTM C173/C231):	
Max. Size Aggr., in.:	1 limestone	Tag No.:	148800	Fresh Unit Wt., pcf (ASTM C138):	
Mixture(s):					
Design Strength, psi:	4,000 @ 28 days				

#### Compression Test Data (ASTM C39)

Specimen No.	Client's ID	Date Tested	Age, days	Nominal Dimensions, in.	Area, sq.in.	Ultimate Load, lbs.	Compressive Strength, psi	Fracture	Tested By
W1122 A		09/27/01	7	6 x 12	28.26	130,000	4,600	Normal	HS
W1122 B		10/18/01	28	6 x 12	28.26	165,000	5,840	Normal	JM
W1122 C		10/18/01	28	6 x 12	28.26	165,500	5,860	Normal	JM
Average compressive strength (psi) at 28 days:							5,850		

All samples designated HOLD will be kept 14 days after the 2 day test and thereafter discarded unless instructed otherwise. Any samples held beyond these 14 days are subject to storage fees.

Respectfully submitted,  
DYNAMIC CONSULTANTS, INC.

  
Denny Zucchi  
Laboratory Supervisor

1c: CH2M Hill / CCI / Cecil Gore\*  
1c: City of Watsonville



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# DCI

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Testing & Inspection Services

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34 Hangar Way  
Watsonville, California 95076  
Telephone: (831) 724-2444  
Facsimile: (831) 724-9166

### COMPRESSION TEST REPORT

October 22, 2001/7-days  
November 12, 2001/28-days

REPORT TO: Jeff Deakin  
D C M Construction & Services, Inc.  
7172 Regional Street #139  
Dublin, California 94568

DCI No.: 6807-W01  
PERMIT NO.: E01-00228

PROJECT: CHEVRON CAL-SPRAY PROJECT  
135 Walker Avenue, Watsonville, CA

Sampling Location: Retaining wall, north side

Material:	Concrete Cylinders	Date Cast (ASTM C31):	10/15/01	Slump, in. (ASTM C143):	2-1/2
Supplier:	Las Animas	Date Received:	10/16/01	Mix Temp., °F (ASTM C1064):	75
Mix Design:	LA70930	Sampled By (ASTM C172):	Stephenson, H.	Ambient Temp., °F:	68
Cement Factor, sk/cy:	7 sacks	Truck No./Load No.:	/ 1	Air Content, % (ASTM C173/C231):	
Max. Size Aggr., in.:	1"	Tag No.:	149640	Fresh Unit Wt., pcf (ASTM C138):	
Admixture(s):	WRDA				
Compressive Strength, psi:	4,000 @ 28 days				

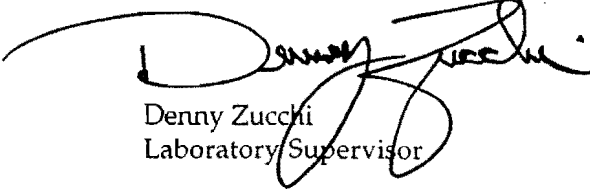
#### Compression Test Data (ASTM C39)

Specimen No.	Client's ID	Date Tested	Age, days	Nominal Dimensions, in.	Area, sq.in.	Ultimate Load, lbs.	Compressive Strength, psi	Fracture	Tested By
W1147 A		10/22/01	7	6 x 12	28.26	120,000	4,250	Normal	DS
W1147 B		11/12/01	28	6 x 12	28.26	162,000	5,730	Normal	D
W1147 C		11/12/01	28	6 x 12	28.26	158,000	5,590	Normal	JL

Average compressive strength (psi) at 28 days: 5,660

All samples designated HOLD will be kept 14 days after the day test and thereafter discarded unless instructed otherwise. Any samples held beyond these 14 days are subject to storage fees.

Respectfully submitted,  
**DYNAMIC CONSULTANTS, INC.**

  
Denny Zucchi  
Laboratory Supervisor

1c: CH2M Hill / CCI / Cecil Gore\*  
1c: City of Watsonville



Corporate Offices  
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# DCI

**DYNAMIC CONSULTANTS, INC.**  
Testing & Inspection Services

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Telephone: (831) 724-2234  
Facsimile: (831) 724-9166

## COMPRESSION TEST REPORT

October 9, 2001/7-days  
October 30, 2001/28-days

REPORT TO: Jeff Deakin  
D C M Construction & Services, Inc.  
7172 Regional Street #139  
Dublin, California 94568

DCI No.: 6807-W01  
PERMIT No.: E01-00228

PROJECT: CHEVRON CAL-SPRAY PROJECT  
135 Walker Avenue, Watsonville, CA

Sampling Location: Drainage grate @ Riverside near Dixon Tire

Material:	Concrete Cylinders	Date Cast (ASTM C31):	10/2/01	Slump, in. (ASTM C143):	2-1
Supplier:	Las Animas	Date Received:	10/4/01	Mix Temp., °F (ASTM C1064):	75
Mix Design:	LA70930	Sampled By (ASTM C172):	Stephenson, H.	Ambient Temp., °F:	64
Cement Factor, sk/cy:	7 sacks	Truck No./Load No.:	71 / 1	Air Content, % (ASTM C173/C231):	
Max. Size Aggr., in.:	1"	Tag No.:	149198	Fresh Unit Wt., pcf (ASTM C138):	
Admixture(s):	WRDA				
Design Strength, psi:	4,000 @ 28 days				

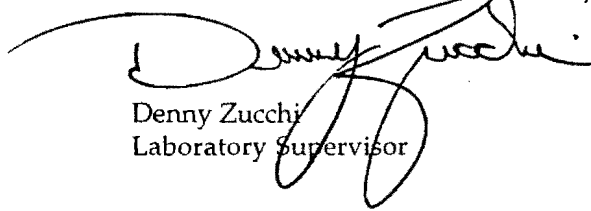
### Compression Test Data (ASTM C39)

Specimen No.	Client's ID	Date Tested	Age, days	Nominal Dimensions, in.	Area, sq. in.	Ultimate Load, lbs.	Compressive Strength, psi	Fracture	Test By
W1135 A		10/09/01	7	6 x 12	28.26	143,000	5,060	Normal	H.
W1135 B		10/30/01	28	6 x 12	28.26	175,000	6,190	Normal	B.
W1135 C		10/30/01	28	6 x 12	28.26	177,000	6,260	Normal	B.

Average compressive strength (psi) at 28 days: 6,230

All samples designated HOLD will be kept 14 days after the day test and thereafter discarded unless instructed otherwise. Any samples held beyond these 14 days are subject to storage fees.

Respectfully submitted,  
**DYNAMIC CONSULTANTS, INC.**

  
Denny Zucchi  
Laboratory Supervisor

1c: CH2M Hill / CCI / Cecil Gore\*  
1c: City of Watsonville



Corporate Offices  
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415 Fairchild Drive  
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Telephone: (650) 967-6982  
Facsimile: (650) 967-6955

# DCI

## DYNAMIC CONSULTANTS, INC.

Testing & Inspection Services

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Watsonville, California 95076  
Telephone: (831) 724-2233  
Facsimile: (831) 724-9166

### COMPRESSION TEST REPORT

October 17, 2001/7-days  
November 7, 2001/28-days

REPORT TO: Jeff Deakin  
D C M Construction & Services, Inc.  
7172 Regional Street #139  
Dublin, California 94568

DCI No.: 6807-W01  
PERMIT No.: E01-00228

PROJECT: CHEVRON CAL-SPRAY PROJECT  
135 Walker Avenue, Watsonville, CA

Sampling Location: Retaining wall north side

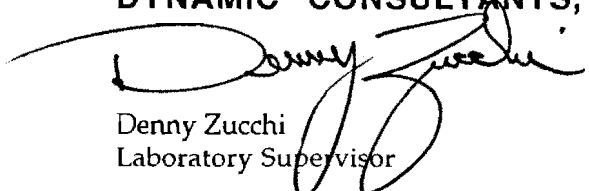
Material:	Concrete Cylinders	Date Cast (ASTM C31):	10/10/01	Slump, in. (ASTM C143):	3- /
Supplier:	Las Animas	Date Received:	10/11/01	Mix Temp., °F (ASTM C1064):	72
Mix Design:	LA70930	Sampled By (ASTM C172):	Stephenson, H.	Ambient Temp., °F:	61
Cement Factor, sk/cy:	7	Truck No./Load No.:	71 / 1	Air Content, % (ASTM C173/C231):	
Max. Size Aggr., in.:	1	Tag No.:	149454	Fresh Unit Wt., pcf (ASTM C138):	
Admixture(s):	WRDA				
Design Strength, psi:	4,000 @ 28 days				

#### Compression Test Data (ASTM C39)

Specimen No.	Client's ID	Date Tested	Age, days	Nominal Dimensions, in.	Area, sq. in.	Ultimate Load, lbs.	Compressive Strength, psi	Fracture	Tested by
W1144 A		10/17/01	7	6 x 12	28.26	128,000	4,530	Normal	JM
W1144 B		11/07/01	28	6 x 12	28.26	156,000	5,520	Normal	J
W1144 C		11/07/01	28	6 x 12	28.26	156,500	5,540	Normal	J...
Average compressive strength (psi) at 28 days:							5,530		

All samples designated HOLD will be kept 14 days after the day test and thereafter discarded unless instructed otherwise. Any samples held beyond these 14 days are subject to storage fees.

Respectfully submitted,  
DYNAMIC CONSULTANTS, INC.

  
Denny Zucchi  
Laboratory Supervisor

To: CH2M Hill / CCI / Cecil Gore\*  
Cc: City of Watsonville



Corporate Offices  
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Telephone: (650) 967-6982  
Facsimile: (650) 967-6955

# DCI

## DYNAMIC CONSULTANTS, INC.

Testing & Inspection Services

Branch Office  
34 Hangar Way  
Watsonville, California 9  
Telephone: (831) 72  
Facsimile: (831) 724

### COMPRESSION TEST REPORT

October 8, 2001/7-days  
October 29, 2001/28-days

REPORT TO: Jeff Deakin  
D C M Construction & Services, Inc.  
7172 Regional Street #139  
Dublin, California 94568

DCI No.: 6807-W01  
PERMIT NO.: E01-00228

PROJECT: CHEVRON CAL-SPRAY PROJECT  
135 Walker Avenue, Watsonville, CA

Sampling Location: Retaining wall north end

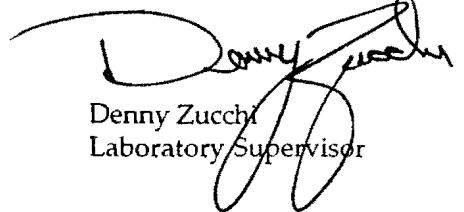
Material:	Concrete Cylinders	Date Cast (ASTM C31):	10/1/01	Slump, in. (ASTM C143):	3-
Supplier:	Las Animas	Date Received:	10/2/01	Mix Temp., °F (ASTM C1064):	78
Mix Design:	LA70930	Sampled By (ASTM C172):	Stephenson, H.	Ambient Temp., °F:	64
Cement Factor, sk/cy:	7 sacks	Truck No./Load No.:	85 / 1	Air Content, % (ASTM C173/C231):	
Max. Size Aggr., in.:	1"	Tag No.:	149155	Fresh Unit Wt., pcf (ASTM C138):	
Admixture(s):	WRDA				
Design Strength, psi:	4,000 @ 28 days				

#### Compression Test Data (ASTM C39)

Specimen No.	Client's ID	Date Tested	Age, days	Nominal Dimensions, in.	Area, sq. in.	Ultimate Load, lbs.	Compressive Strength, psi	Fracture	Test Result
W1133 A		10/08/01	7	6 x 12	28.26	128,500	4,550	Normal	JM
W1133 B		10/29/01	28	6 x 12	28.26	149,500	5,290	Normal	H
W1133 C		10/29/01	28	6 x 12	28.26	146,000	5,170	Normal	H
Average compressive strength (psi) at 28 days:							5,230		

All samples designated HOLD will be kept 14 days after the 1 day test and thereafter discarded unless instructed otherwise. Any samples held beyond these 14 days are subject to storage fees.

Respectfully submitted,  
**DYNAMIC CONSULTANTS, INC.**

  
Denny Zucchi  
Laboratory Supervisor

1c: CH2M Hill / CCI / Cecil Gore\*  
1c: City of Watsonville



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Facsimile: (650) 967-6955

# DCI

## DYNAMIC CONSULTANTS, INC.

Testing & Inspection Services

Branch Office  
34 Hangar Way  
Watsonville, California 95076  
Telephone: (831) 724-223  
Facsimile: (831) 724-9166

### COMPRESSION TEST REPORT

October 26, 2001/7-days  
November 16, 2001/28-days

REPORT TO: Jeff Deakin  
D C M Construction & Services, Inc.  
7172 Regional Street #139  
Dublin, California 94568

DCI No.: 6807-W01

PERMIT NO.: E01-00228

PROJECT: CHEVRON CAL-SPRAY PROJECT  
135 Walker Avenue, Watsonville, CA

Sampling Location: Retaining wall at Locust Street

Material: Concrete Cylinders  
Supplier: Las Animas  
Mix Design: LA70930  
Cement Factor, sk/cy: 7 sacks  
Max. Size Aggr., in.: 1"  
Admixture(s): WRDA  
Design Strength, psi: 4,000 @ 28 days

Date Cast (ASTM C31): 10/19/01  
Date Received: 10/22/01  
Sampled By (ASTM C172): Stephenson, H.  
Truck No./Load No.: 79 / 1  
Tag No.: 149840

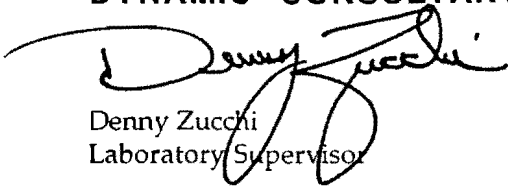
Slump, in. (ASTM C143): 3-4  
Mix Temp., °F (ASTM C1064): 76  
Ambient Temp., °F: 70  
Air Content, % (ASTM C173/C231):  
Fresh Unit Wt., pcf (ASTM C138):

#### Compression Test Data (ASTM C39)

Specimen No.	Client's ID	Date Tested	Age, days	Nominal Dimensions, in.	Area, sq. in.	Ultimate Load, lbs.	Compressive Strength, psi	Fracture	Tested By
W1153 A		10/26/01	7	6 x 12	28.26	118,500	4,190	Normal	HS
W1153 B		11/16/01	28	6 x 12	28.26	168,500	5,960	Normal	J
W1153 C		11/16/01	28	6 x 12	28.26	165,000	5,840	Normal	J
Average compressive strength (psi) at 28 days:							5,900		

All samples designated HOLD will be kept 14 days after the day test and thereafter discarded unless instructed otherwise. Any samples held beyond these 14 days are subject to storage fees.

Respectfully submitted,  
DYNAMIC CONSULTANTS, INC.

  
Denny Zucchi  
Laboratory Supervisor

1c: CH2M Hill / CCI / Cecil Gore\*  
1c: City of Watsonville



Corporate Offices  
Materials Laboratory  
415 Fairchild Drive  
Mountain View, California 94043-2216  
Telephone: (650) 967-6982  
Facsimile: (650) 967-6955

# DCI

## DYNAMIC CONSULTANTS, INC.

Testing & Inspection Services

Branch Office  
34 Hangar Way  
Watsonville, California 95076-  
Telephone: (831) 724-223  
Facsimile: (831) 724-9166

### COMPRESSION TEST REPORT

October 15, 2001/7-days  
November 5, 2001/28-days

REPORT TO: Jeff Deakin  
D C M Construction & Services, Inc.  
7172 Regional Street #139  
Dublin, California 94568

DCI No.: 6807-W01  
PERMIT No.: E01-00228

PROJECT: CHEVRON CAL-SPRAY PROJECT  
135 Walker A venue, Watsonville, CA

Sampling Location: Retaining wall by Riverside/Locust end

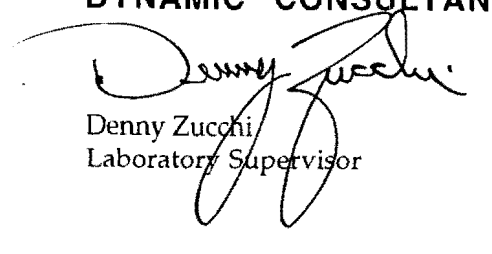
Material:	Concrete Cylinders	Date Cast (ASTM C31):	10/8/01	Slump, in. (ASTM C143):	4
Supplier:	Las Animas	Date Received:	10/10/01	Mix Temp., °F (ASTM C1064):	74
Mix Design:	LA70930	Sampled By (ASTM C172):	Stephenson, H.	Ambient Temp., °F:	56
Cement Factor, sk/cy:	7	Truck No./Load No.:	61 / 1	Air Content, % (ASTM C173/C231):	
Max. Size Aggr., in.:	1	Tag No.:	149356	Fresh Unit Wt., pcf (ASTM C138):	
Admixture(s):	WRDA				
Design Strength, psi:	4,000 @ 28 days				

#### Compression Test Data (ASTM C39)

Specimen No.	Client's ID	Date Tested	Age, days	Nominal Dimensions, in.	Area, sq. in.	Ultimate Load, lbs.	Compressive Strength, psi	Fracture	Tested By
W1142 A		10/15/01	7	6 x 12	28.26	122,000	4,320	Normal	JM
W1142 B		11/05/01	28	6 x 12	28.26	152,000	5,380	Normal	JM
W1142 C		11/05/01	28	6 x 12	28.26	153,000	5,410	Normal	JB
Average compressive strength (psi) at 28 days:							5,400		

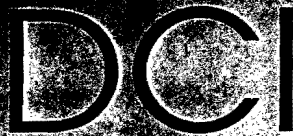
All samples designated HOLD will be kept 14 days after the 2 day test and thereafter discarded unless instructed otherwise. Any samples held beyond these 14 days are subject to storage fees.

Respectfully submitted,  
**DYNAMIC CONSULTANTS, INC.**

  
Denny Zucchi  
Laboratory Supervisor

1c: CH2M Hill / CCI / Cecil Gore\*  
1c: City of Watsonville





Corporate Office  
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15 Fairchild Drive  
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Telephone: (650) 967-6982  
Facsimile: (650) 967-6955

**DYNAMIC CONSULTANTS, INC.**  
Testing & Inspection Services

Branch Office  
34 Hangar Way  
Watsonville, California 950  
Telephone: (831) 7  
Facsimile: (831) 72

## COMPRESSION TEST REPORT

October 31, 2001/7-days  
November 21, 2001/28-days

REPORT TO: Jeff Deakin  
D C M Construction & Services, Inc.  
7172 Regional Street #139  
Dublin, California 94568

DCI No.: 6807-W01

PERMIT No.: E01-00228

PROJECT: CHEVRON CAL-SPRAY PROJECT  
135 Walker Avenue, Watsonville, CA

Sampling Location: Retaining wall Locust Street side south end

Material:	Concrete Cylinders	Date Cast (ASTM C31):	10/24/01	Slump, in. (ASTM C143):	2-
Supplier:	Las Animas	Date Received:	10/25/01	Mix Temp., °F (ASTM C1064):	3
Mix Design:	LA70930	Sampled By (ASTM C172):	Stephenson, H.	Ambient Temp., °F:	70
Cement Factor, sk/cy:	7 sacks	Truck No./Load No.:	72 / 1	Air Content, % (ASTM C173/C231):	
Max. Size Aggr., in.:	1"	Tag No.:	149994	Fresh Unit Wt., pcf (ASTM C138):	
Admixture(s):	WRDA				
Design Strength, psi:	4,000 @ 28 days				

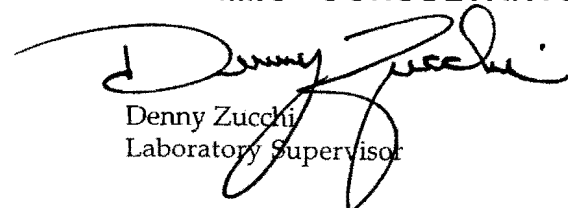
### Compression Test Data (ASTM C39)

Specimen No.	Client's ID	Date Tested	Age, days	Nominal Dimensions, in.	Area, sq. in.	Ultimate Load, lbs.	Compressive Strength, psi	Fracture	Test Result
W1157 A		10/31/01	7	6 x 12	28.26	132,000	4,670	Normal	
W1157 B		11/21/01	28	6 x 12	28.26	156,000	5,520	Normal	H
W1157 C		11/21/01	28	6 x 12	28.26	154,000	5,450	Normal	H

Average compressive strength (psi) at 28 days: 5,490

All samples designated HOLD will be kept 14 days after the day test and thereafter discarded unless instructed otherwise. Any samples held beyond these 14 days are subject to storage fees.

Respectfully submitted,  
**DYNAMIC CONSULTANTS, INC.**

  
Denny Zucchi  
Laboratory Supervisor

cc: CH2M Hill / CCI / Cecil Gore\*  
cc: City of Watsonville



Corporate Offices  
Materials Laboratory  
415 Fairchild Drive  
Mountain View, California 94043-2216  
Telephone: (650) 967-6982  
Facsimile: (650) 967-6955

# DCI

## DYNAMIC CONSULTANTS, INC.

Testing & Inspection Services

Branch Office  
34 Hangar Way  
Watsonville, California 95071  
Telephone: (831) 724-2700  
Facsimile: (831) 724-9100

### COMPRESSION TEST REPORT

October 3, 2001/7-days  
October 24, 2001/28-days

REPORT TO: Jeff Deakin  
D C M Construction & Services, Inc.  
7172 Regional Street #139  
Dublin, California 94568

DCI No.: 6807-W01

PERMIT NO.: E01-00228

PROJECT: CHEVRON CAL-SPRAY PROJECT  
135 Walker Avenue, Watsonville, CA

Sampling Location: Retaining wall footing

Material:	Concrete Cylinders	Date Cast (ASTM C31):	9/26/01	Slump, in. (ASTM C143):	3-
Supplier:	Las Animas	Date Received:	9/27/01	Mix Temp., °F (ASTM C1064):	78
Mix Design:	LA70930	Sampled By (ASTM C172):	Stephenson, H.	Ambient Temp., °F:	74
Cement Factor, sk/cy:	7 sacks	Truck No./Load No.:	71 / 1	Air Content, % (ASTM C173/C231):	
Max. Size Aggr., in.:	1"	Tag No.:	148996	Fresh Unit Wt., pcf (ASTM C138):	
Admixture(s):	WRDA				
Design Strength, psi:	4,000 @ 28 days				

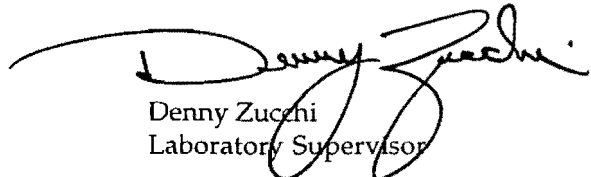
#### Compression Test Data (ASTM C39)

Specimen No.	Client's ID	Date Tested	Age, days	Nominal Dimensions, in.	Area, sq. in.	Ultimate Load, lbs.	Compressive Strength, psi	Fracture	Tested by
W1130 A		10/03/01	7	6 x 12	28.26	119,000	4,210	Normal	J
W1130 B		10/24/01	28	6 x 12	28.26	148,000	5,240	Normal	J
W1130 C		10/24/01	28	6 x 12	28.26	151,000	5,340	Normal	J

Average compressive strength (psi) at 28 days: 5,290

All samples designated HOLD will be kept 14 days after the day test and thereafter discarded unless instructed otherwise. Any samples held beyond these 14 days are subject to storage fees.

Respectfully submitted,  
DYNAMIC CONSULTANTS, INC.

  
Denny Zucchi  
Laboratory Supervisor

cc: CH2M Hill / CCI / Cecil Gore\*  
cc: City of Watsonville





DATE: Monday 10-29-01

SCHEDULE: *Contract*

PROJECT NO: 164874.01.P4

LINE:

INSP:

[illegible]

Remarks:



THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

**SOLD  
BY**

*Las Animas Concrete &  
Building Supply, Inc.*

DCM:

RIVERSIDE &amp; WALKER

2nd Side Walk Pour  
Monday Morning 8:00

TRUCK NO.

75

**X**

LOAD RECEIVED BY

✕

JOB DELAYS-CIRCLE DELAY NO.		TIME	
1. JOB NOT READY	LEAVE PLANT	6:39	
2. SLOW POUR OR PUMP	ARRIVE JOB	2:05	
3. TRUCK AHEAD ON JOB	START UNLOADING	3:08	
4. CONTRACTOR BROKE DOWN	FINISH UNLOADING	3:11	
5. ADDED WATER	ARRIVE PLANT		
6. TRUCK BROKE DOWN	TOTAL TIME	HRS.	MIN.
7. ACCIDENT			
8. CITATION			
9. OTHER			
DRIVER NAME			

**TIME ORDERED**

**SLUMP**

YARDS DELIVERED

0001.00

**AUTHORIZED BY**

## GALS

LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. — WEIGHMASTER

BY

AXD	0.0	GL
-----	-----	----

QUANTITY	UNIT	PRODUCT DESCRIPTION	PRICE	AMOUNT
1.00		LA70930		
		SUB TOTAL		
		COD N		
CHARGE		MINUTES STANDBY TIME		

SALES TAX

TOTAL

THIS DELIVERY TICKET HAS BEEN PREPARED BY AN  
80 SERIES COMPUTERIZED BATCHING CONTROL,  
WITH COMMAND CENTER OPTIONS.







# WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

**SANTA CRUZ**  
PHONE 426-7280  
P.O. BOX 507  
146 ENCINAL  
95060

SOLD  
BY

*Las Animas Concrete &  
Building Supply, Inc.*

SOLD TO

DCM

*Sidewalk Pour.*

DELIVER TO

RIVERSIDE & WALKER

*Rejected By City Inspector Due to  
No Pre-Inspection*

DATE

10/26/01 06:45:06

JOB NAME OR NUMBER

DCM

0

LOT NO.

P.O. NUMBER

TRUCK NO.

82

**WARNING:**

- CONCRETE CONTAINS PORTLAND CEMENT.
- IRRITATING TO THE SKIN AND EYES.
- AVOID CONTACT WITH EYES AND PROLONGED CONTACT WITH SKIN.
- WEAR RUBBER BOOTS AND GLOVES.
- IN CASE OF CONTACT WITH SKIN OR EYES, FLUSH THOROUGHLY WITH WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.
- KEEP CHILDREN AWAY.

## PROPERTY DAMAGE RELEASE

(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer - The driver of this truck in presenting this RELEASE to you for your signature is of the opinion that the size and weight of his truck may possibly cause damage to the premises and/or adjacent property if he places the material in this load where you desire it. It is our wish to help you in every way that we can, but in order to do this the driver is requesting that you sign this RELEASE relieving him and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. from any responsibility from any damage that may occur to the premises and/or adjacent property, buildings, sidewalk, driveways, curbs, etc. by the delivery of this material, and that you also agree to help him remove mud from the wheels of his vehicle so that he will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED

X

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE ABOVE HEALTH WARNING NOTICE. LAS ANIMAS CONCRETE WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE.

LOAD RECEIVED BY

X

PURCHASER AGREES TO PAY FOR MATERIALS LISTED ABOVE WITHIN 30 DAYS FROM DATE. IF COURT ACTION IS INSTITUTED ON THIS INVOICE, THE PURCHASER PROMISES TO PAY REASONABLE ATTORNEYS FEES.

## JOB DELAYS-CIRCLE DELAY NO.

1. JOB NOT READY
2. SLOW POUR OR PUMP
3. TRUCK AHEAD ON JOB
4. CONTRACTOR BROKE DOWN
5. ADDED WATER
6. TRUCK BROKE DOWN
7. ACCIDENT
8. CITATION
9. OTHER

LEAVE PLANT

6:55

ARRIVE JOB

7:15

START UNLOADING

7:17

FINISH UNLOADING

7:22

ARRIVE PLANT

TOTAL TIME

HRS. • MIN.

DRIVER NAME

CYLINDERS TAKEN

MIX NO.

CaCl<sub>2</sub>

TIME ORDERED

F# 00025  
C# 25

CUBIC YARDS

SACKS

MAX. SIZE

SLUMP

1.00

YARDS ORDERED

LOAD NUMBER

YARDS DELIVERED

0001.00

01

0001.00

GAL. WATER ADDED BY  
REQUEST AT JOB SITE

AUTHORIZED BY

GALS.

LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. — WEIGHMASTER,

DI  
SERVICE CHARGE IS COMPUTED BY A "PERIODIC RATE" OF 1 1/2% PER MONTH WHICH IS AN /  
PERCENTAGE RATE OF 18% ON PAST DUE ACCOUNTS.

BATCH NO. 10  
WAT TRIM - 30.0

01/01 BSZ 1.00

BATCH NO. 10

AGG 04 1740 LB MC 1.0

AGG 02 1460 LB MC 5.0

CEM 01 668 LB

WAT 01 00 GL

AXB 02 24 OZ

TIME 06:46:05

END FARES

AGG 00 LB

CEM 04 LB

WAT 00 GL

AXA 00 OZ

AXB 00 OZ

AXC 00 OZ

AXD 0.0 GL

QUANTITY

UNIT

PRODUCT DESCRIPTION

PRICE

AMOUNT

1.00

LA70930

SUB TOTAL

CGD N

CHARGE

MINUTES STANDBY TIME

150094

SALES TAX

TAG NO. 150094

THIS DELIVERY TICKET HAS BEEN PREPARED BY AN  
80 SERIES COMPUTERIZED BATCHING CONTROL,  
WITH COMMAND CENTER OPTIONS.

TOTAL





# DAILY INSPECTOR'S REPORT

DATE: Wed 10-24-01

SCHEDULE: Contract

PROJECT NO: 164824

LINE: \_\_\_\_\_

INSP: Cecil Gore & DCI

Items of Work Completed	Location or Sta. to Sta.	Amount	Remarks
From Locust St Access to corner			to All underneath
Pole shed.			58'
From Medina - Hammond corner at Locust St.			70'
21 yds <sup>3</sup> Placed.			
Slump 2 3/4"			
Mix 73°F			
Ambient 76°F Air			
3 Cylinders taken for compression tests.			
DCI accepted formwork & Rebar Clearance			
& observed Pour.			
LAS ANIMAS was scheduled at 11:00 on site			
Ticket shows 11:00 Dispatch Left Plant 11:20 about			
12:00 on-site.			

Remarks: \_\_\_\_\_



# SPECIAL INSPECTION RECORD

Inspection Agency: DYNAMIC Consultants

Job Address: 125 WALKER STREET

Building Permit No.: EOI-00228

When attached to the job inspection record card, this card becomes a part of the inspection record.

NOTE: Each special inspector shall complete for each day's inspection. Post this card adjacent to building permit inspection record card. Weekly reports to be submitted by each special inspector/inspection agency to the building department.

INSPECTION TYPE	INSPECTOR	ID NO.	DATE	NOTES	TIME	
					START	END
Rebar/Concrete	H. Stephens		10-10	retaining wall (North)	845	1100
Rebar/Concrete	H. Stephens		10-15	retaining wall	800	1100
Rebar/Concrete	H. Stephens		10-19	retaining wall	1200	300
Rebar/Concrete	H. Stephens		10-24	retaining wall	1000	330



**DYNAMIC CONSULTANTS, INC.**

## Concrete Placement Inspection

	Standard Score	Percentile	Raw Score	Age	Gender
Yoch. Pre-Test Only					

DCI NO.: 6807-WD PROJECT: Chevron cat spray  
DATE: 10-24-61 TIME ARRIVED: 1000 TIME LEFT: 330 TRAVEL: \_\_\_\_\_ TOTAL TIME: \_\_\_\_\_  
MILES TO JOB: 20 TOLL: — PARKING: — LUNCH: —  
GENERAL CONTRACTOR: DCM SUPPLIER: Las Animas

**YES      NO**

✓	SPECS CHECKED
✓	GEN. NOTES CHECKED
✓	FORMS CLEANED
✓	REBAR BRACED, CLEAN, CLEAR
✓	FORMS WET
✓	SAND DAMPENED
✓	DIMENSIONS OF MEMBERS VERIFIED

Number of Vibrators on Hand: 1      Number of Pacing Crew: 6

**DISCREPANCIES FROM PRELIMINARY CORRECTED BEFORE COVERED?**

**If not, explain:**

YES NO

**PORTS NECESSARY  
PORTS PROVIDED  
FOUR JOINTS READY  
DOWELS/BOLTS READY  
KEYWAYS READY  
REBAR CONTINUITY**

All above ready before placement? ☒

DISCREPANCIES FROM PRELIMINARY CORRECTED BEFORE COVERED? *YPS*

**If not, explain:**

## PLACEMENT

NORTH SIDE		PLACEMENT									
Retaining wall 80'		LINE	—	TO	—	ROW	—	TO	—	LEVEL	I
Retaining wall Locust st 80'		LINE	—	TO	—	ROW	—	TO	—	LEVEL	II
		LINE	—	TO	—	ROW	—	TO	—	LEVEL	
		LINE	—	TO	—	ROW	—	TO	—	LEVEL	

Continued on reverse? Yes ☐ No ☐

MIX NO: A 70930 CEMENT: 2SK AGGR.: 1" PIGMENT: Gray

COMPR. STRENGTH 4000 psi. CUBIC YARDS PLACED TODAY 1215

TIME OF INITIAL PLACEMENT 1215 TIME FIRST TRUCK DATCHED 1130 PUMP MIX? ✓

WORKABILITY OK CONSOLIDATION NORMAL? OL REINFORCING DISTURBED? NO

SET NORMAL? α POUR COMPLETED TO PLANNED POUR JOINTS? α TIME COMPLETED 332

## FIELD TESTS

TIME:	1230				
TEMP/TEMP					
(CONC/AMB):	73, 76	1	1	1	1
SLUMP:	2 3/4				
AIR:	-				
NO. CYLS:	3				
OTHER:					

Work ☒ completed ☐ in progress this date ☒ DOES ☐ DOES NOT meet the requirements of:

☒ Approved Plans (stamped by Code Enforcement Agency) ☐ Project Drawings (stamped by Structural Engineer)

### Project specifications

**Codes/Standards**

UBC 1971 (Year)

**Title 24**

☐ AWS \_\_\_\_\_ (Code/Year)

Other

☐ Project Drawings (stamped by Structural Engineer)

**Engineer's Approved Revision/Change Order**

☐ attached ☐ requested☐ Unapproved Revision/Change Order☐ attached ☐ requested☐ Shop Drawings    ☐ approved    ☐ unapproved☐ OtherRemarks on Reverse: Yes ☐ No ☒

Rev 941101

INSPECTOR:

H. Stephenson











# WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

**SANTA CRUZ**  
PHONE 426-7280  
P.O. BOX 507  
146 ENCINAL  
95060

SOLD  
BY

*Las Animas Concrete & Building Supply, Inc.*

SOLD TO

DCM

DELIVER TO

RIVERSIDE & WALKER  
WATSONVILLE

DATE	JOB NAME OR NUMBER	LOT NO.	P.O. NUMBER	TRUCK NO.
10/24/01 14:10:18	DCM 0			71

**WARNING:**

- CONCRETE CONTAINS PORTLAND CEMENT.
- IRRITATING TO THE SKIN AND EYES.
- AVOID CONTACT WITH EYES AND PROLONGED CONTACT WITH SKIN.
- WEAR RUBBER BOOTS AND GLOVES.
- IN CASE OF CONTACT WITH SKIN OR EYES, FLUSH THOROUGHLY WITH WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.
- KEEP CHILDREN AWAY.

## PROPERTY DAMAGE RELEASE

(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer - The driver of this truck in presenting this RELEASE to you for your signature is of the opinion that the size and weight of his truck may possibly cause damage to the premises and/or adjacent property if he places the material in this load where you desire it. It is our wish to help you in every way that we can, but in order to do this the driver is requesting that you sign this RELEASE relieving him and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. from any responsibility from any damage that may occur to the premises and/or adjacent property, buildings, sidewalk, driveways, curbs, etc. by the delivery of this material, and that you also agree to help him remove mud from the wheels of his vehicle so that he will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED

X

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE ABOVE HEALTH WARNING NOTICE. LAS ANIMAS CONCRETE WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE.

LOAD RECEIVED BY

X

PURCHASER AGREES TO PAY FOR MATERIALS LISTED ABOVE WITHIN 30 DAYS FROM DATE. IF COURT ACTION IS INSTITUTED ON THIS INVOICE, THE PURCHASER PROMISES TO PAY REASONABLE ATTORNEYS FEES.

JOB DELAYS-CIRCLE DELAY NO.	TIME
1. JOB NOT READY	LEAVE PLANT 2.25
2. SLOW POUR OR PUMP	ARRIVE JOB 2.55
3. TRUCK AHEAD ON JOB	START UNLOADING 3.00
4. CONTRACTOR BROKE DOWN	FINISH UNLOADING
5. ADDED WATER	ARRIVE PLANT
6. TRUCK BROKE DOWN	TOTAL TIME
7. ACCIDENT	HRS. • MIN
8. CITATION	
9. OTHER	

CYLINDERS TAKEN	MIX NO.	CaCL <sub>2</sub>	TIME ORDE
	F# 00025 C# 25		
CUBIC YARDS	SACKS	MAX. SIZE	SLUMP
5.00			
YARDS ORDERED	LOAD NUMBER	YARDS DELIVER	
0016.00	02	0021.	
GAL. WATER ADDED BY REQUEST AT JOB SITE	AUTHORIZED BY		
	GALS.		

LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. — WEIGHMAS

BY

SERVICE CHARGE IS COMPUTED BY A "PERIODIC RATE" OF 1 1/2% PER MONTH WHICH PERCENTAGE RATE OF 18% ON PAST DUE ACCOUNTS.

BATCH NO.	QUANTITY	UNIT	PRODUCT DESCRIPTION	PRICE	AM
BAT TRIM - 4.0	5.00		LA70930		
01/01 BSZ 5.00					
BATCH NO. 84					
AGG 04 8600 LB MC 1.0					
AGG 02 7300 LB MC 5.0					
CEM 01 3280 LB					
WAT 01 97 GL					
AXB 02 131 02					
TIME 14:12:50					
END TARES					
AGG -20 LB					
CEM 08 LB					
WAT 00 GL					
AXB 00 02					
AXB 00 07					
AXB 00 02					
AXB 0.0 GL					
	CHARGE		SUB TOTAL		
			MINUTES STANDBY TIME		
			150015		
			TAG NO. 150015		
			SALES TAX		
			TOTAL		

THIS DELIVERY TICKET HAS BEEN PREPARED BY AN 80 SERIES COMPUTERIZED BATCHING CONTROL, WITH COMMAND CENTER OPTIONS.



# SPECIAL INSPECTION RECORD

Inspection Agency: DYNAMIC Consultants  
 Job Address: 125 WALKER STREET  
 Building Permit No.: EO1-00228  
 When attached to the job inspection record card, this card becomes a part of the inspection record.

NOTE: Each special inspector shall complete for each day's inspection. Post this card adjacent to building permit inspection record card. Weekly reports to be submitted by each special inspector/inspection agency to the building department.

INSPECTION TYPE	INSPECTOR	ID NO.	DATE	NOTES	TIME	
					START	END
Rebar/Concrete	H. Stephens		10-10	retaining wall (North)	845	1100
Rebar/Concrete	H. Stephens		10-15	retaining wall	800	1100
Rebar/Concrete	H. Stephens		10-19	retaining wall	1200	300



**DCI****DYNAMIC CONSULTANTS, INC.**

DATE	TIME	LOCATION	REMARKS

**Reinforcing Inspection**

DCI NO.: 68072nd PROJECT: Chevron Cal - Spring  
 DATE: 10-19-01 TIME ARRIVED: 1200 TIME LEFT: 3:00 TRAVEL: 74 TOTAL TIME: 4  
 MILES TO JOB: 7 TOLL:        PARKING:        LUNCH:       

**PRELIMINARY**

GENERAL CONTRACTOR: DCM SUPPLIER: ASSOL  
 REBAR PLCMT. CONTRACTOR: DCM PLANNED FOUR DATE: 10-19-01  
 YES NO YES NO YES NO  
 (X) [ ] SPECS CHECKED (X) [ ] GEN. NOTES CHECKED (---) [---] APPR. PLAN SHEETS CHECKED  
 CAST-IN-PLACE CONCRETE (0309) TILT-UP PANELS (0402) PRECAST CONCRETE (0402)  
 POST-TENSIONED CONCRETE (0404) SHOTCRETE (0310) OTHER (0104/0204)

**PLACEMENT**

1. MEMBER Retaining Wall 80' Along Locust St  
 LINE        TO        ROW        TO        LEVEL I DIMENSIONS CHECKED? Yes  
 2. MEMBER Drainage Grade at Locust St  
 LINE        TO        ROW        TO        LEVEL        DIMENSIONS CHECKED? Yes  
 3. MEMBER         
 LINE        TO        ROW        TO        LEVEL        DIMENSIONS CHECKED?         
 4. MEMBER         
 LINE        TO        ROW        TO        LEVEL        DIMENSIONS CHECKED?         
 Continued on reverse? Yes ☐ No ☒  
 REBAR GRADES SPECIFIED? Yes GRADES COMPLY? Yes CHECKED SIZES? Yes  
 CHECKED SPACING? Yes CHECKED LAPS? Yes CHECKED RADII? NA  
 CHECKED POSITION? Yes CHECKED CLEARANCE? Yes CHECKED ANCHOR BOLTS? NO  
 CONTINUITY PREVIOUS? Yes CONTINUITY FUTURE? Yes

Work ☒ completed ☐ In progress this date ☐ DOES ☐ DOES NOT meet the requirements of:  
☒ Approved Plans (stamped by Code Enforcement Agency) ☐ Project Drawings (stamped by Structural Engineer)  
☒ Project specifications ☐ Engineer's Approved Revision/Change Order  
☒ Codes/Standards ☐ attached ☐ requested  
☒ UBC 97 (Year) ☐ attached ☐ requested  
☐ Title 24 ☐ attached ☐ requested  
☐ AWS        (Code/Year) ☐ attached ☐ requested  
☐ Other ☐ attached ☐ requested ☐ approved ☐ unapproved

**REMARKS:**Continued on Reverse: Yes ☐ No ☒





DYNAMIC CONSULTANTS, INC.

## Concrete Placement Inspection

	Standard Scope	Rein.	No In Contingency	Rein.
Tech. Pre-qualified				
Rating				

DCI NO.: 6807-WA PROJECT: Chevron Cal Spray  
 DATE: 10-19-01 TIME ARRIVED: 1200 TIME LEFT: 345 TRAVEL: 1/4 TOTAL TIME: 184  
 MILES TO JOB: 7 TOLL: 0 PARKING: 0 LUNCH: 0  
 GENERAL CONTRACTOR: DCM SUPPLIER: Las Animas

## PRELIMINARY

YES NO

☒ SPECS CHECKED  
☒ GEN. NOTES CHECKED  
☒ FORMS CLEANED  
☒ REBAR BRACED, CLEAN, CLEAR  
☒ FORMS WET  
☒ SAND DAMPENED  
☒ DIMENSIONS OF MEMBERS VERIFIED

YES NO

☒ PORTS NECESSARY  
☒ PORTS PROVIDED  
☒ POUR JOINTS READY  
☒ DOWELS/BOLTS READY  
☒ KEYWAYS READY  
☒ REBAR CONTINUITY

Number of Vibrators on Hand: 1 Number of Placing Crew: 3 All above ready before placement? Y/N

DISCREPANCIES FROM PRELIMINARY CORRECTED BEFORE COVERED? Y/N

If not, explain: \_\_\_\_\_

## PLACEMENT

retaining wall at Locust St LINE 80' TO --- ROW --- TO --- LEVEL I  
Drainage Grate at Locust St LINE --- TO --- ROW --- TO --- LEVEL I  
 LINE --- TO --- ROW --- TO --- LEVEL ---  
 LINE --- TO --- ROW --- TO --- LEVEL ---

Continued on reverse? Yes ☐ No ☒  
 MIX NO. 6A-70930 CEMENT: 25K AGGR.: 1" PIGMENT: Gray  
 COMPR. STRENGTH 4000 psi CUBIC YARDS PLACED TODAY 16+/-  
 TIME OF INITIAL PLACEMENT 130 TIME FIRST TRUCK BATCHED 100 PUMP MIX? NO  
 WORKABILITY OK CONSOLIDATION NORMAL? OK REINFORCING DISTURBED? NO  
 SET NORMAL? OK POUR COMPLETED TO PLANNED POUR JOINTS? Yes TIME COMPLETED 330

## FIELD TESTS

TIME: 145  
 TEMP/TEMP  
 (CONC/AMB): 76, 70  
 SLUMP: 3 1/2  
 AIR: \_\_\_\_\_  
 NO. CYLS.: 3  
 OTHER: \_\_\_\_\_

Work ☒ completed ☐ in progress this date ☒ DOES ☐ DOES NOT meet the requirements of:  
☒ Approved Plans (stamped by Code Enforcement Agency) ☐ Project Drawings (stamped by Structural Engineer)  
☒ Project specifications ☐ Engineer's Approved Revision/Change Order  
☒ Codes/Standards ☐ attached ☐ requested  
☒ UBC 97 (Year) ☐ Unapproved Revision/Change Order  
☐ Title 24 ☐ attached ☐ requested  
☐ AWS \_\_\_\_\_ (Code/Year) ☐ Shop Drawings ☐ approved ☐ unapproved  
☐ Other ☐ Other

Remarks on Reverse: Yes ☐ No ☒  
 Rev 941101

INSPECTOR: H. Stephenson







# WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

**SANTA CRUZ**  
PHONE 426-7280  
P.O. BOX 507  
146 ENCINAL  
95060

SOLD  
BY

*Las Animas Concrete &  
Building Supply, Inc.*

SOLD TO

DCM

DELIVER TO

RIVERSIDE & WALKEE  
WATSONVILLE

3" SLUMP

DATE

10/19/01 13:46:41

JOB NAME OR NUMBER

DCM

0

LOT NO.

P.O. NUMBER

TRUCK NO.

85

**WARNING:**

- CONCRETE CONTAINS PORTLAND CEMENT.
- IRRITATING TO THE SKIN AND EYES.
- AVOID CONTACT WITH EYES AND PROLONGED CONTACT WITH SKIN.
- WEAR RUBBER BOOTS AND GLOVES.
- IN CASE OF CONTACT WITH SKIN OR EYES, FLUSH THOROUGHLY WITH WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.
- KEEP CHILDREN AWAY.

## PROPERTY DAMAGE RELEASE

(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer - The driver of this truck in presenting this RELEASE to you for your signature is of the opinion that the size and weight of his truck may possibly cause damage to the premises and/or adjacent property if he places the material in this load where you desire it. It is our wish to help you in every way that we can, but in order to do this the driver is requesting that you sign this RELEASE relieving him and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. from any responsibility from any damage that may occur to the premises and/or adjacent property, buildings, sidewalk, driveways, curbs, etc. by the delivery of this material, and that you also agree to help him remove mud from the wheels of his vehicle so that he will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED

X

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE ABOVE HEALTH WARNING NOTICE. LAS ANIMAS CONCRETE WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE.

LOAD RECEIVED BY

X

PURCHASER AGREES TO PAY FOR MATERIALS LISTED ABOVE WITHIN 30 DAYS FROM DATE. IF COURT ACTION IS INSTITUTED ON THIS INVOICE, THE PURCHASER PROMISES TO PAY REASONABLE ATTORNEYS FEES.

## JOB DELAYS-CIRCLE DELAY NO.

1. JOB NOT READY
2. SLOW POUR OR PUMP
3. TRUCK AHEAD ON JOB
4. CONTRACTOR BROKE DOWN
5. ADDED WATER
6. TRUCK BROKE DOWN
7. ACCIDENT
8. CITATION
9. OTHER

LEAVE PLANT

ARRIVE JOB

START UNLOADING

FINISH UNLOADING

ARRIVE PLANT

TOTAL TIME

TIME

2:10

3:30

HRS. MIN.

DRIVER NAME

CYLINDERS TAKEN

MIX NO.

CaCL<sub>2</sub>

TIME ORDERED

F# 00025  
CM 25

CUBIC YARDS

SACKS

MAX. SIZE

SLUMP

9.00

YARDS ORDERED

LOAD NUMBER

YARDS DELIVERED

0016.00

02

0016.00

GAL. WATER ADDED BY  
REQUEST AT JOB SITE

AUTHORIZED BY

GALS.

LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. — WEIGHMASTER

BY *[Signature]* DEPUTY  
SERVICE CHARGE IS COMPUTED BY A "PERIODIC RATE" OF 1 1/2% PER MONTH WHICH IS AN ANNUAL PERCENTAGE RATE OF 18% ON PAST DUE ACCOUNTS.

BATCH NO. 94  
WAT TRIM - 4.0

01/02 BSZ 4.00

BATCH NO. 94

02/02 BSZ 4.00

BATCH NO. 95

AGG 04 13720 LB MC 1.0

AGG 02 11680 LB MC 5.0

CEN 01 5308 LB\*

WAT 01 155 GL

AXB 02 207 02

TIME 13:51:22

END TARES

AGG 00 LB

CEN 04 LB

WAT 00 GL

AXB 00 02

AXB 00 02

AXL 00 02

AXD 0.0 GL

QUANTITY

UNIT

PRODUCT DESCRIPTION

PRICE

AMOUNT

9.00

LA70930

SUB TOTAL

CODE N

CHARGE

MINUTES STANDBY TIME

149847

TAG NO. 149847

THIS DELIVERY TICKET HAS BEEN PREPARED BY AN 80 SERIES COMPUTERIZED BATCHING CONTROL, WITH COMMAND CENTER OPTIONS.

SALES TAX

TOTAL



# WEIGHMASTER CERTIFICATE

WEIGHTMASTER CERTIFICATE that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized person as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Standards of the California Department of Food and Agriculture.

SANTA CRUZ  
PHONE 426-7280  
P.O. BOX 507  
146 ENCINAL  
95060

SOLD  
BY

*Las Animas Concrete &  
Building Supply, Inc.*

SOLD TO

DCM

DELIVER TO

RIVERSIDE & WALKER  
WATSONVILLE

3" SLUMP

DATE	JOB NAME OR NUMBER	LOT NO.	P.O. NUMBER	TRUCK NO.
10/19/01 12:55:50	DCM 0			79

**WARNING:**

- CONCRETE CONTAINS PORTLAND CEMENT.
- IRRITATING TO THE SKIN AND EYES.
- AVOID CONTACT WITH EYES AND PROLONGED CONTACT WITH SKIN.
- WEAR RUBBER BOOTS AND GLOVES.
- IN CASE OF CONTACT WITH SKIN OR EYES, FLUSH THOROUGHLY WITH WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.
- KEEP CHILDREN AWAY.

## PROPERTY DAMAGE RELEASE

(TO BE SIGNED IF DELIVERY TO BE MADE INSIDE CURB LINE)

Dear Customer - The driver of this truck in presenting this RELEASE to you for your signature is of the opinion that the size and weight of his truck may possibly cause damage to the premises and/or adjacent property if he places the material in this load where you desire it. It is our wish to help you in every way that we can, but in order to do this the driver is requesting that you sign this RELEASE relieving him and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. from any responsibility from any damage that may occur to the premises and/or adjacent property, buildings, sidewalk, driveways, curbs, etc. by the delivery of this material, and that you also agree to help him remove mud from the wheels of his vehicle so that he will not litter the public street. Further, as additional consideration, the undersigned agrees to indemnify and hold harmless the driver of this truck and LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. for any and all damage to the premises and/or adjacent property which may be claimed by anyone to have arisen out of delivery of this order.

SIGNED

X

NOTICE: MY SIGNATURE BELOW INDICATES THAT I HAVE READ THE ABOVE HEALTH WARNING NOTICE. LAS ANIMAS CONCRETE WILL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED WHEN DELIVERING INSIDE CURB LINE.

LOAD RECEIVED BY

X

PURCHASER AGREES TO PAY FOR MATERIALS LISTED ABOVE WITHIN 30 DAYS FROM DATE. IF COURT ACTION IS INSTITUTED ON THIS INVOICE, THE PURCHASER PROMISES TO PAY REASONABLE ATTORNEYS FEES.

JOB DELAYS-CIRCLE DELAY NO.	TIME
1. JOB NOT READY	LEAVE PLANT
2. SLOW POUR OR PUMP	ARRIVE JOB
3. TRUCK AHEAD ON JOB	START UNLOADING
4. CONTRACTOR BROKE DOWN	FINISH UNLOADING
5. ADDED WATER	ARRIVE PLANT
6. TRUCK BROKE DOWN	TOTAL TIME
7. ACCIDENT	HRS. • MIN.
8. CITATION	
9. OTHER	

DRIVER NAME

CYLINDERS TAKEN	MIX NO.	CaCL <sub>2</sub>	TIME ORDERED
	F# 00025 C# 25		
CUBIC YARDS	SACKS	MAX. SIZE	SLUMP
8.00			
YARDS ORDERED	LOAD NUMBER	YARDS DELIVERED	
0016.00	01	0008.00	
GAL. WATER ADDED BY REQUEST AT JOB SITE	GALS.		
	LAS ANIMAS CONCRETE & BUILDING SUPPLY, INC. — WEIGHMASTER		

BY SERVICE CHARGE IS COMPUTED BY A "PERIODIC RATE" OF 1 1/2% PER MONTH WHICH IS AN PERCENTAGE RATE OF 18% ON PAST DUE ACCOUNTS.

BATCH NO.	QTY	UNIT	PRODUCT DESCRIPTION	PRICE	AMOUNT
WAT TRIM - 4.0	8.00		LA70930		
01/02 BSZ 4.00					
BATCH NO. 82					
02/02 BSZ 4.00					
BATCH NO. 83					
AGG 04 13740 LB MC 1.0					
AGG 02 11640 LB MC 5.0					
CEM 01 5268 LB					
WAT 01 156 GL					
AXB 02 207 GL					
TIME 13:00:29					
END TARES					
AGG 00 LB					
CEM 04 LB					
WAT 00 GL					
AXB 00 GL					
AXC 00 GL					
AXD 0.0 GL					
			SUB TOTAL		
			COB N		
			MINUTES STANDBY TIME		
			149840		
			SALES TAX		
			TOTAL		

TAG NO. 149840

THIS DELIVERY TICKET HAS BEEN PREPARED BY AN 80 SERIES COMPUTERIZED BATCHING CONTROL, WITH COMMAND CENTER OPTIONS.





DATE: 10-15-01

SCHEDULE: DCM

PROJECT NO: 164824

LINE: *Contract*

INSP: Cecil Horne

Items of Work Completed	Location or Sta. to Sta.	Amount	Remarks
Poured about 100' of Retaining Wall Concrete Type B along the Hammond Machine Property Line			
Poured 17 yd <sup>3</sup> of 4-sack mix.			
Mix was extremely stiff.			
2 1/2 slumps			
3 cylinders were taken.			
PCI observed pour and took required tests.			
after formwork and Rebar was within Plans Specs.			

Remarks:



# SPECIAL INSPECTION RECORD

Inspection Agency: DYNAMIC Consultants  
 Job Address: 125 WALKER STREET  
 Building Permit No.: EO1-00228  
 When attached to the job inspection record card, this card becomes a part of the inspection record.

NOTE: Each special inspector shall complete for each day's inspection. Post this card adjacent to building permit inspection record card. Weekly reports to be submitted by each special inspector/inspection agency to the building department.

INSPECTION TYPE	INSPECTOR	ID NO.	DATE	NOTES	TIME	
					START	END
Rebar/Concrete	H. Stephens		10/10	retaining wall (North)	845	1100
Rebar/Concrete	H. Stephens		10-15	Vefangswall	800	1100





DYNAMIC CONSULTANTS, INC.

Tech. Prepared Billing	Standard Scope	Reinap.	Not in Contract		
			SUT/SBT	Add. Scope	Revisions

## Reinforcing Inspection

DCI NO.: 6807-W21 PROJECT: Chevron cal spray  
 DATE: 10-15-01 TIME ARRIVED: 800 TIME LEFT: \_\_\_\_\_ TRAVEL: 1/4 TOTAL TIME: \_\_\_\_\_  
 MILES TO JOB: 7 TOLL: \_\_\_\_\_ PARKING: \_\_\_\_\_ LUNCH: \_\_\_\_\_

### PRELIMINARY

GENERAL CONTRACTOR: DCM SUPPLIER: ASSOC  
 REBAR PLANT. CONTRACTOR: DCM PLANNED POUR DATE: 10-15-01  
 YES NO YES NO YES NO  
☒ ☐ SPECS CHECKED ☒ ☐ GEN. NOTES CHECKED ☒ ☐ APPR. PLAN SHEETS CHECKED  
☒ CAST-IN-PLACE CONCRETE (0309) \_\_\_\_\_ TILT-UP PANELS (0402) \_\_\_\_\_ PRECAST CONCRETE (0402) \_\_\_\_\_  
 \_\_\_\_\_ POST-TENSIONED CONCRETE (0404) \_\_\_\_\_ SHOTCRETE (0310) \_\_\_\_\_ OTHER (0104/0204) \_\_\_\_\_

### PLACEMENT

1. MEMBER retaining wall North Side 2nd pour 100'  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL 1 DIMENSIONS CHECKED? Yes  
 2. MEMBER \_\_\_\_\_  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_  
 3. MEMBER \_\_\_\_\_  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_  
 4. MEMBER \_\_\_\_\_  
 LINE \_\_\_\_\_ TO \_\_\_\_\_, ROW \_\_\_\_\_ TO \_\_\_\_\_, LEVEL \_\_\_\_\_ DIMENSIONS CHECKED? \_\_\_\_\_

Continued on reverse? Yes ☐ No ☐

REBAR GRADES SPECIFIED? Yes GRADES COMPLY? Yes CHECKED SIZES? Yes  
 CHECKED SPACING? Yes CHECKED LAPS? Yes CHECKED RADII? N/A  
 CHECKED POSITION? Yes CHECKED CLEARANCE? Yes CHECKED ANCHOR BOLTS? N/A  
 CONTINUITY PREVIOUS? Yes CONTINUITY FUTURE? Yes

Work ☒ completed ☐ in progress this date ☒ DOES ☐ DOES NOT meet the requirements of:

☒ Approved Plans (stamped by Code Enforcement Agency) ☐ Project Drawings (stamped by Structural Engineer)  
☒ Project specifications ☐ Engineer's Approved Revision/Change Order  
☒ Codes/Standards ☐ attached ☐ requested  
☒ UBC \_\_\_\_\_ (Year) ☐ Unapproved Revision/Change Order  
☐ Title 24 ☐ attached ☐ requested  
☐ AWS \_\_\_\_\_ (Code/Year) ☐ Shop Drawings ☐ approved ☐ unapproved  
☐ Other \_\_\_\_\_ ☐ Other \_\_\_\_\_

REMARKS:

Continued on Reverse: Yes ☐ No ☐



**Appendix C**  
**Asphalt Pavement Section Inspection and Testing Records**





# DAILY INSPECTOR'S REPORT

DATE: 11-2-01

SCHEDULE: Contract PROJECT NO: 164824

LINE: \_\_\_\_\_

INSP: Cecil Hou

Items of Work Completed	Location or Sta. to Sta.	Amount	Remarks
Asphalt Pave Top layer compacted to 3" Thick			
HR 8000 Asphalt			
Spirit Oil completed a mixed patch area of Fabric placement.			
Construction Material Testing Provided			
Continued Observation on Asphalt placement mix, temperature and compaction			
Test Results on CMT Reports Dated This day.			
Proving to meet Specification on Compaction per CMT.			
Area inspected to be acceptable.			

Remarks:



# CMT, INC.

## DAILY FIELD REPORT

JOB NO. or P.O. NO.  
**96630**

PAGE  
**ONE of Three**

PROJECT NAME <b>CHEVRON 125 WALKER CALSPTAY</b>	CLIENT OR OWNER <b>GOEBEL PAVING</b>	DAILY FIELD REPORT SEQUENCE NO. <b>EIGHT</b>	
GENERAL LOCATION OF WORK <b>WATSONVILLE, CA</b>	OWNER OR CLIENT'S REPRESENTATIVE <b>COREY</b>	DATE <b>11-2-01</b>	DAY OF WEEK <b>FRIDAY</b>
GENERAL CONTRACTOR	GRADING CONTRACTOR <b>GOEBEL</b>	PROJECT ENGINEER	
TYPE OF WORK <b>T.O.</b>	CONTRACTOR'S SUPERINTENDENT OR FOREMAN	SUPERVISOR <b>Cecil GORE</b>	

SOURCE AND DESCRIPTION OF FILL MATERIAL <b>1/2 AC GRANITE ROCK</b>	(IMPORT OR SITE) <b>(O)</b>	WEATHER <b>MID-DAY SUN FOG AM + LATE PM</b>	TECHNICIAN <b>MARK HOPKINS</b>
---	--------------------------------	--	-----------------------------------

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, AND COMPACTING  
**PAVING MACHINE, CAT CB-534C COMPACTOR, END Dumps Deere skid loader**

TEST NUMBER	TEST LOCATION <b>FINAL CAP LIFT AREA THREE - AC.</b>	ELEV (feet) <b>AC +3"</b>	FIELD TESTING			REFERENCE CURVE			COMMENTS <b>95% minimum</b>
			DRY DENSITY lbs/cu. ft.	MOISTURE CONTENT %	% OF MAXIMUM DRY DENSITY	COMP CURVE NO.	MAXIMUM DRY DENSITY lbs/cu. ft.	OPTIMUM MOISTURE CONTENT %	
137	SW. QUADRANT	↓	139.6	↓	95	2	147.3	↓	PASS
138	SW. QUADRANT	↓	140.6	↓	95	↓	↓	↓	↓
139	N.W. QUADRANT	↓	143.1	↓	97	↓	↓	↓	↓
140	N.W. QUADRANT	↓	144.3	↓	98	↓	↓	↓	↓
141	S.W. QUADRANT	↓	141.8	↓	96	↓	↓	↓	↓
142	SW. QUADRANT	↓	140.1	↓	95	↓	↓	↓	↓
143	N.W. QUADRANT	↓	140.1	↓	95	↓	↓	↓	↓
144	N.W. QUADRANT	↓	140.5	↓	95	↓	↓	↓	PASS
145	SW QUAD UNOPI SHED	↓	143.9	↓	98	↓	↓	↓	↓
146	SW. QUADRANT	↓	139.9	↓	95	↓	↓	↓	↓
147	N.W. QUADRANT	↓	141.5	↓	96	↓	↓	↓	↓
148	N.W. QUADRANT	↓	142.5	↓	96	↓	↓	↓	PASS

NOTES (Describe work completed during the day, any problems and their solutions)

AS REQUESTED TO BE ON SITE BY GOEBEL PAVING TO PERFORM TESTING AND OBSERVATION SERVICES.

CONTRACTOR TO CONTINUE PAVING AREA THREE FINAL CAP ON TOP OF PAVEMENT REINFORCING FABRIC. TAM PAVING STARTS - Temperature WAS TAKEN REGULARLY. IN ARRIVING TRUCK 300°F±, IN PLACE 260-280°F± AT 130pm ABOUT 50% OF AREA THREE THREE TESTED WITH MINIMUM OR ABOVE COMPACTION. CHECKING UNCOMPACTED A.C. THROUGHOUT THE DAY, SHOWED IT WAS BEING PLACED FROM 3 1/2" TO 3 3/4". CONTRACTOR USING SMALL VIB ROLLER AND VIBRA-PLATE FOR DETAIL WORK. A TOTAL OF 31 COMPACTION DENSITY TEST WERE TAKEN ON FINAL A.C. CAP.

TIME BILLED	HRS.	NO. OF VISITS	TYPED REPORT <input type="checkbox"/> YES <input type="checkbox"/> NO	CONTINUED <input type="checkbox"/>
RECEIVED BY		COPY GIVEN TO		



TWO OF THREE

COPY GIVEN TO:



MEDINA

139.6  
137HAMMOUD  
140.6  
138143.1  
139144.3  
140

2100

141  
141.8140.-  
142140.1  
143140.5  
144145  
143.9146  
139.9141.5  
147142-  
148149  
141.5  
139.9  
151150  
139.9  
140.  
155151  
141.2  
156152  
143.1  
142.3  
157153  
139.9  
140.6  
158159  
146160  
143.0161  
139.3162  
140.1

163, 142.7

164  
143.9165  
143.3166  
145.8167  
143.4

LOCUST ST

168  
146

apodjamed

11-02-01 FRIDAY  
3" AC FINI CAP  
CHIT#96030  
PABE 30.3  
SEA # EIGHT

RIVERSIDE

RIVERSIDE DRIVEWAY  
COMPLETED IN AREA ONE



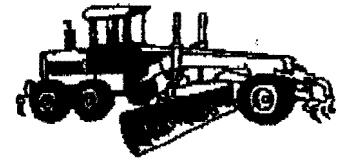






**GOEBEL  
PAVING, GRADING & UNDERGROUND, INC.**

P.O. Box 2745 • Petaluma, CA 94953



(707) 763-0088

FAX: (707) 763-7137

# Fax Cover

**To:** CH2MHILL

**From:** Greg Goebel

**Attn:** Cecil Gore

**GP #** 5648-01

**Phone:** 707-822-9707 (cell)

**Pages:** 35 Including this one

**Fax:** 510-822-9180

**Date:** 11/1/2001

**Re:** 125 Walker Street

**CC:** File

☐ Urgent    ☒ For Review    ☐ Please Comment    ☐ Please Reply    ☐ Please Recycle

• **Comments:**



11-1-01 AREA II  
Typical Pull Tags for Pavement Fabric  
All Tags Checked & Verified

LL

Square Yds...	555	Gross...	173
Lin Feet.....	400	Tare.....	28
Width (In)....	150	Net.....	145
Shift 2-WLC	PP	BLK 50	

C040 150 400



100134866



C040 150 400



# CMT, INC. DAILY FIELD REPORT

JOB NO. or P.O. NO.  
**96630**  
PAGE **TWO**  
**ONE** OF ~~ONE~~

PROJECT NAME <b>CHEURON 125 WALKER CALSPRAY</b>		CLIENT OR OWNER <b>GOEBEL PAUING</b>		DAILY FIELD REPORT SEQUENCE NO. <b>SEVEN - A</b>	
GENERAL LOCATION OF WORK <b>WATSONVILLE CA</b>		OWNER OR CLIENT'S REPRESENTATIVE <b>COREY</b>		DATE <b>11-1-01</b>	DAY OF WEEK <b>THURS</b>
GENERAL CONTRACTOR		GRADING CONTRACTOR <b>GOEBEL</b>		PROJECT ENGINEER	
TYPE OF WORK <b>T.O</b>		CONTRACTOR'S SUPERINTENDENT OR FOREMAN		SUPERVISOR <b>Cecil Gore</b>	
SOURCE AND DESCRIPTION OF FILL MATERIAL <b>1/2 AC GRANITE ROCK</b>			(IMPORT OR SITE) <b>NO</b>	WEATHER <b>SUN FAIR</b>	TECHNICIAN <b>MARK HOPKINS</b>

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, AND COMPACTING

**DEERE 210E SKIP LOADER END DUMPS PAUING MACHINE**

TEST NUMBER	TEST LOCATION <b>AC 1ST LIFT PISTA PROPERTY</b>	ELEV (feet) <b>AC</b>	FIELD TESTING			REFERENCE CURVE			COMMENTS <b>95% MINIMUM PASS</b>
			DRY DENSITY lbs/cu. ft.	MOISTURE CONTENT %	% OF MAXIMUM DRY DENSITY	COMP CURVE NO.	MAXIMUM DRY DENSITY lbs/cu. ft.	OPTIMUM MOISTURE CONTENT %	
127	SE QUADRANT	+2"	140.5		95	2	147.3		
128	NE QUADRANT		141.-		96				
129	NW QUADRANT		139.7		95				
130	SW QUADRANT		139.8		95				
131	CENTER	↓	140.1		95				
	<b>PISTA PROPERTY 2ND LIFT</b>	<b>+</b>							
132	SE QUADRANT		141.4		96				
133	NE QUADRANT		141.8		96				
134	NW QUADRANT		142.7		97				
135	SW QUADRANT		143.4		97				
136	CENTER	↓	140-		95	↓	↓	↓	↓
									<b>PASS</b>

NOTES (Describe work completed during the day, any problems and their solutions)

AS REQUESTED TO BE ON SITE BY GOEBEL PAUING TO PERFORM TESTING AND OBSERVATION SERVICES  
PLEASE NOTE:

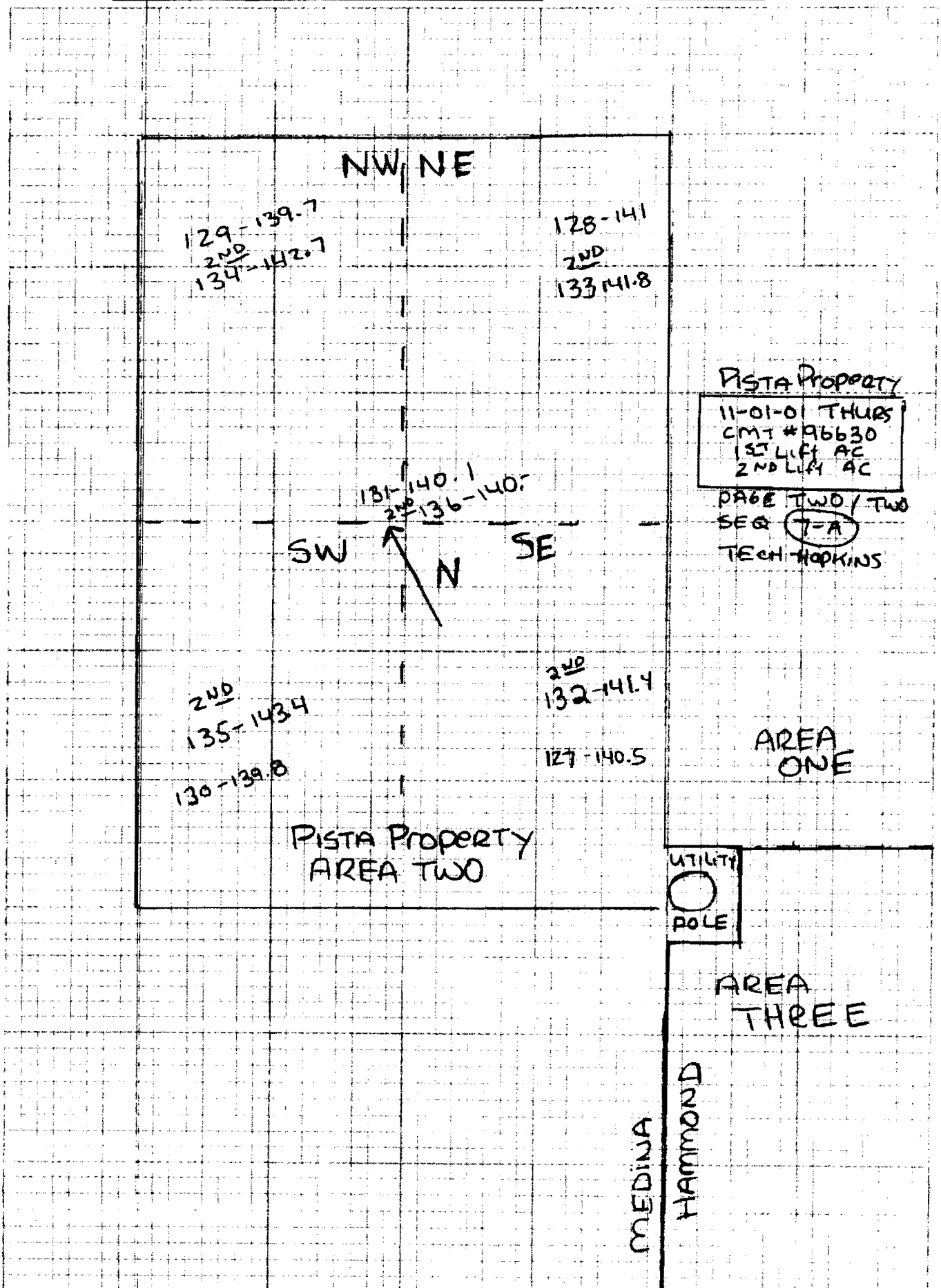
THIS REPORT IS AN ADDENDUM TO DAILY FIELD REPORT SEQUENCE NO. SEVEN.

REQUESTED COMPACTION TESTING OF THE PISTA PROPERTY AT NW CORNER OF AREA THREE. TWO LIFTS OF AC WERE PLACED COMPACTED AND TESTED THIS DATE. COMPLETION OF 2ND LIFT AND COMPACTION TESTING AT 430 PM.

GOEBEL SPRAYING TACK BOND AGENT IN AREA THREE IN PREP OF FRIDAY PAUING. TEMP READINGS ON AC. 260°-290°

TIME BILLED	HRS.	NO. OF VISITS	TYPED REPORT <input type="checkbox"/> YES <input type="checkbox"/> NO	CONTINUED <input type="checkbox"/>
RECEIVED BY		COPY GIVEN TO		









411 Walker Street; Watsonville, CA 95077-5001

## Research-Technical Services

**831-768-2330**

**831-768-2403 Fax**

**October 31, 2001**

**FAX TRANSMISSION TO:**

**Greg Goebel**  
**Goebel Paving**  
**Fax: 707-763-7137**

**RE: ½" Maximum Medium Asphalt Mix Certification  
Graniterock Astec Drum and Astec Batch Plants at Aromas Quarry**

Dear Mr. Gobel:

This letter is to certify that the 1/2" asphalt mix produced on October 31 and November 1, 2001, at the above facilities for your project, was and will be produced using AR2000 asphaltic concrete binder.

If you should need additional information regarding this matter, you may reach me at the above number.

Sincerely,  
Graniterock Research-Technical Services

**Paul Coffman**  
**HMA Manager**

8C









## CONSTRUCTION SITE VISITORS LOG

PROJECT: CHEVRON CAL SPRAY

PROJECT NO: 164824

CONTRACTOR: CCI / GOEBEL PAVING / DCM

CONSTRUCTION MGR: CECIL GORE

Name	Representing	Date	Time In	Time Out	Reason For Visit
C Boschee	Goebel	10/31/01	6:00		PAVING installation ↓
G Sumner					
J Gaytan					
R Delgado					
A Montano					
S Mager	Graniterock	10/31/01	8:20		Checking Asphalt Quality from Plant. Compaction Testing Asphalt.
MARK HOPKINS	CMT	10-31-01	8:45		

(1) Note: Visitors at the construction site are the responsibility of the contractor. Therefore, each visitor shall obtain the permission of the contractor's superintendent before entering the site.



# CMT, INC. DAILY FIELD REPORT

JOB NO. or P.O. NO.  
**96630**  
PAGE  
**ONE** of **THREE**

PROJECT NAME <b>CHEVRON</b> <b>125 WALKER, CALS PRAY</b>		CLIENT OR OWNER <b>GOEBEL PAVING</b>		DAILY FIELD REPORT SEQUENCE NO. <b>SEVEN</b>	
GENERAL LOCATION OF WORK <b>WATSONVILLE CA</b>		OWNER OR CLIENT'S REPRESENTATIVE <b>COREY</b>		DATE <b>11-1-01</b>	DAY OF WEEK <b>Thurs</b>
GENERAL CONTRACTOR		GRADING CONTRACTOR <b>Goebel</b>		PROJECT ENGINEER	
TYPE OF WORK <b>T.O.</b>		CONTRACTOR'S SUPERINTENDENT OR FOREMAN		SUPERVISOR <b>Cecil Gore</b>	
SOURCE AND DESCRIPTION OF FILL MATERIAL (IMPORT OR SITE) <b>1/2 AC GRANITE ROCK</b>			WEATHER <b>SUN FAIR</b>		TECHNICIAN <b>MARK HOPKINS</b>

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, AND COMPACTING

**CAT CB-534C COMPACTOR, PAVING MACHINES, EXCAVATOR, END DUMPS**

TEST NUMBER	TEST LOCATION <b>2<sup>ND</sup> LIFT AREA THREE AC.</b>	ELEV (feet) <b>AC</b>	FIELD TESTING			REFERENCE CURVE			COMMENTS
			DRY DENSITY lbs/cu. ft.	MOISTURE CONTENT %	% OF MAXIMUM DRY DENSITY	COMP. CURVE NO.	MAXIMUM DRY DENSITY lbs/cu. ft.	OPTIMUM MOISTURE CONTENT %	
94	S.W. QUADRANT	+2"	142.9		97	2	147.3		PASS
95	S.W. QUADRANT		141.5		96				
96	N.W. QUADRANT		140.-		95				
97	N.W. QUADRANT		139.9		95				
98	S.W. QUADRANT		139.9		95				
99	S.W. QUADRANT		141.1		96				
100	N.W. QUADRANT		139.9		95				
101	N.W. QUADRANT		141.1		96				
102	S.W. QUAD. UNDER SHED		139.9		95				
103	S.W. QUADRANT		144.1		98				
104	N.W. QUADRANT		139.5		95				
105	N.W. QUADRANT		143.8		98				PASS

NOTES (Describe work completed during the day, any problems and their solutions)

AS REQUESTED TO BE ON SITE BY GOEBEL PAVING  
TO PERFORM TESTING AND OBSERVATION SERVICES

CONTRACTOR CONTINUED ON SECOND 2" LIFT of AC.  
IN AREA THREE. AT THE END OF YESTERDAY'S WORK A  
TACK COAT BINDING AGENT WAS APPLIED TO AREA  
TO BE PAVED THIS AM. I TOOK TEMP READING ON  
ARRIVING AC. AND APPLIED AC.. RANGE OF 250-290°  
WERE RECORDED. INFORMED COMPACTOR OPERATOR AREAS  
OF WEAKNESS ALONG WITH INFORMING PAVING OPERATOR OF  
MY TEMP READINGS. PAVING AND COMPACTION OF AREA  
THREE COMPLETED 2<sup>ND</sup> LIFT 2" AC AT 1236 PM THIS DATE  
SPIRIT ROAD OILS ARRIVED AT 1230 TO PLACE PETRO MAT. CITY  
INSPECTOR MIKE SMITH VISITED SITE TO WITNESS PLACEMENT OF  
PAVEMENT REINFORCING FABRIC (PETRO MAT) ALONG WITH REVIEWING  
DAILY COMPACTION TESTS.

TIME BILLED	HRS.	NO. OF VISITS	TYPED REPORT <input type="checkbox"/> YES <input type="checkbox"/> NO	CONTINUED <input type="checkbox"/>
RECEIVED BY		COPY GIVEN TO		



TWO OF THREE

COPY GIVEN TO:



LOCUST ST.

MEDINA

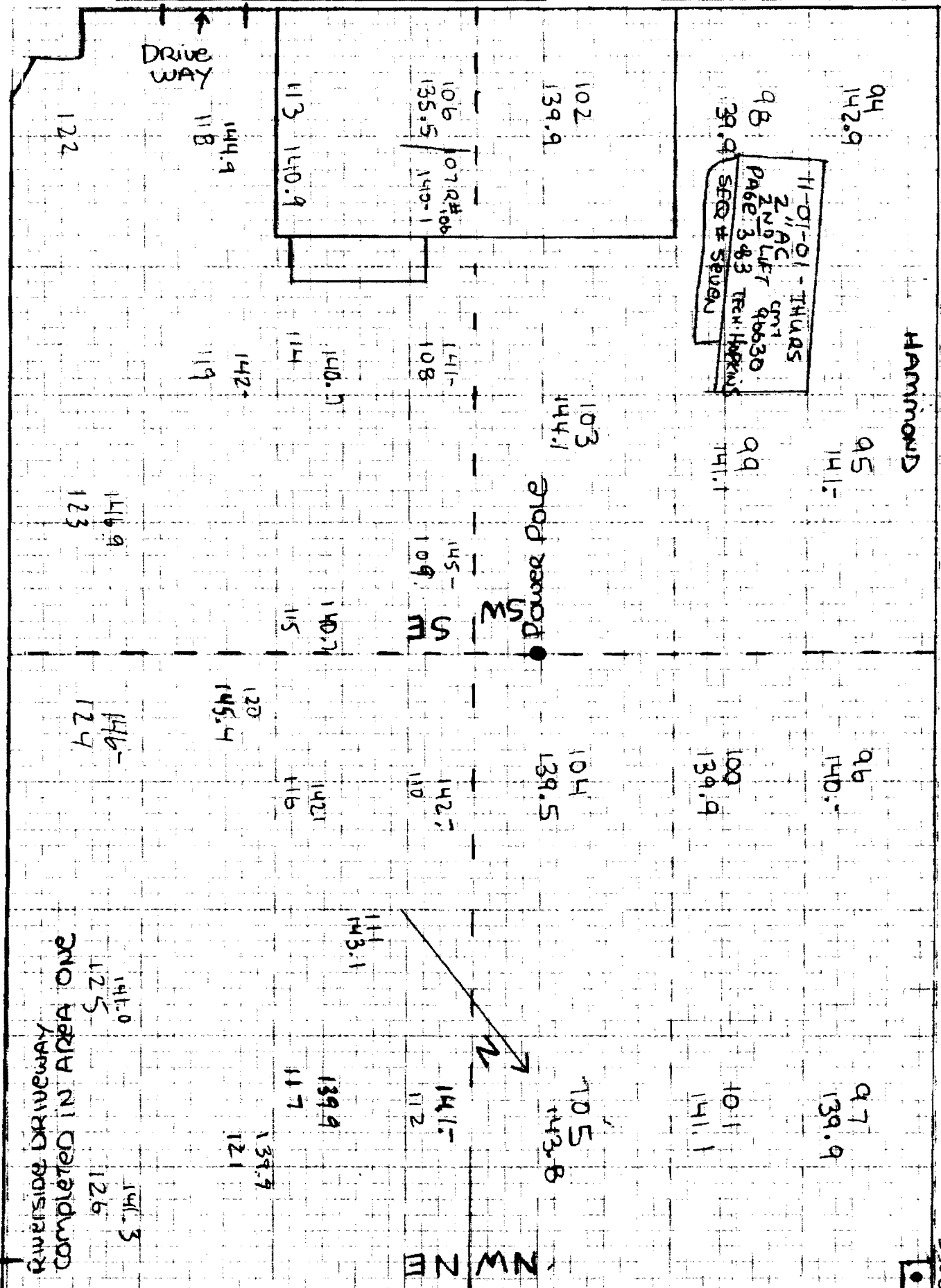
Hammond

11-01-01 - THURS  
2.1 AC  
2nd LIT 90630  
PAGE 343 TEN HOURS  
39.9 SEC # SEVEN

Drive  
WAY

RIVERSIDE ST.

AREA ONE  
DRIVEWAY







## CONSTRUCTION MATERIALS TESTING, INC.

Job Name: 125 walker, watsonvilleJob No: 96630Sample Description: 1/2" a.c.

Sample No: \_\_\_\_\_

Source: granite rock, watsonvilleDate: 10-17-01Client Name: goebel pavingSampled: bjm Tested: ipm**ASPHALT DENSITY CAL TEST 304/308**

Test #	Wt. in Air	Wt. W/Wax	Wt. of Wax	Wt. in Water	Gs of Wax	Gs Sample	Lbs. Per Cu. Ft.
1	1182	1193	11	680	0.9	2.36	147.3
2	1070	1079	9	616	0.9	2.36	147.3
3	1128	1138	10	650	0.9	2.37	147.9
4	1058	1067	9	607	0.9	2.35	146.6
5	718	725	7	413	0.9	2.36	147.3

**lbs per cubic foot****147.3**

Remarks: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Locust St.

Driveway

MEDINA

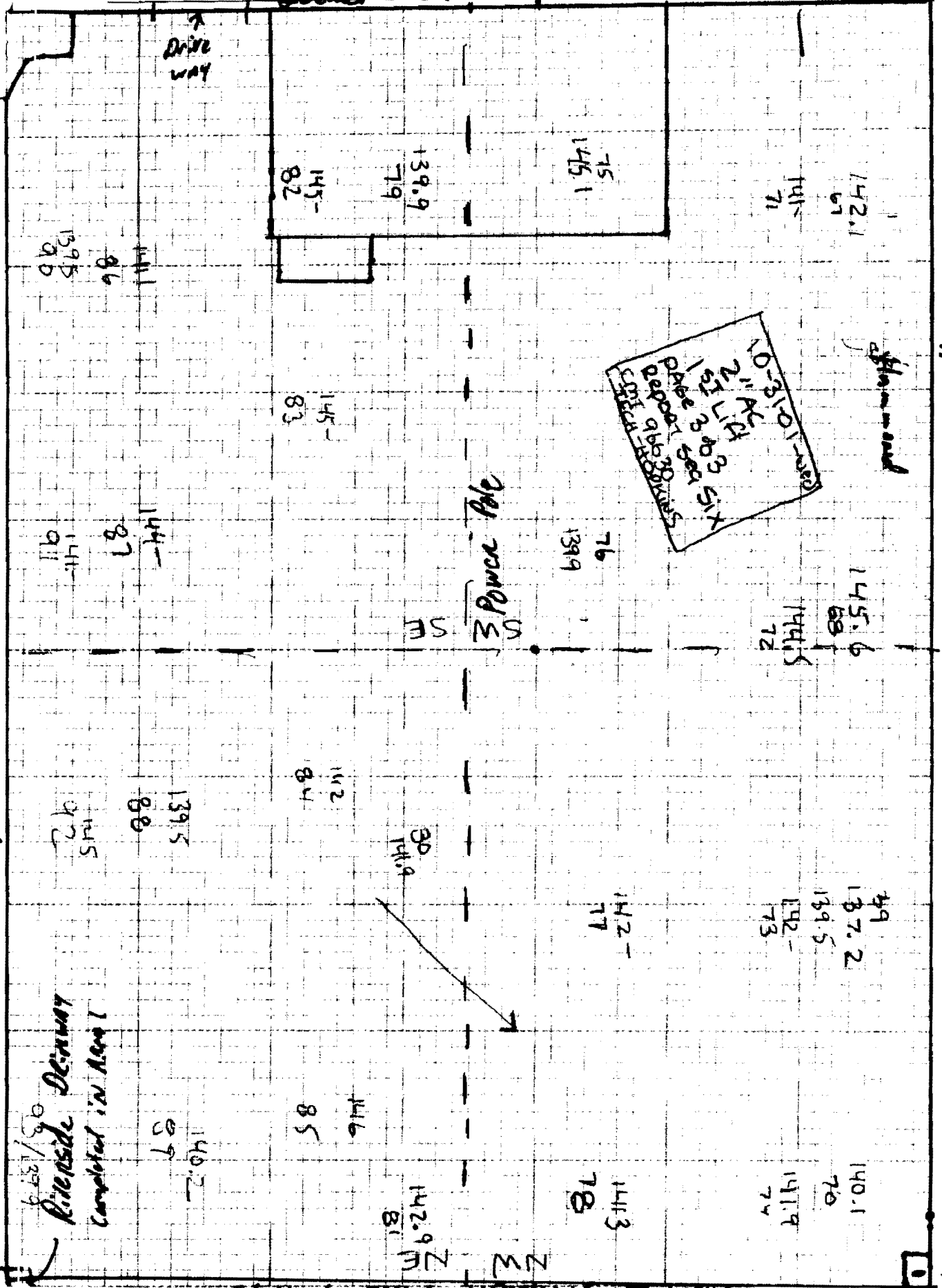
10-3101-002  
21" x 4  
61 3 03 SIX  
DATE 1-15-04  
DEPT 96030015  
CITY 1-15-04

3 Power Pole

Riverside St.

Riverside Driveway

Completed in May 1





# CMT, INC. DAILY FIELD REPORT

JOB NO. or P.O. NO.

96630

PAGE

ONE OF 3

PROJECT NAME <b>CHEURON 125 WALKER, CA 95741</b>	CLIENT OR OWNER <b>GOEBEL PAVING</b>	DAILY FIELD REPORT SEQUENCE NO. <b>SIX</b>	
GENERAL LOCATION OF WORK <b>WATSONVILLE CA</b>	OWNER OR CLIENT'S REPRESENTATIVE <b>COREY</b>	DATE <b>10-31-01</b>	DAY OF WEEK <b>WEDS</b>
GENERAL CONTRACTOR	GRADING CONTRACTOR <b>GOEBEL</b>	PROJECT ENGINEER	
TYPE OF WORK <b>T.O.</b>	CONTRACTOR'S SUPERINTENDENT OR FOREMAN	SUPERVISOR <b>Cecil Gore</b>	

SOURCE AND DESCRIPTION OF FILL MATERIAL (IMPORT OR SITE) <b>1/2" AC - GRANITE ROCK</b>	WEATHER <b>SUN-CLEAR</b>	TECHNICIAN <b>MARK HODKINS</b>
---	-----------------------------	-----------------------------------

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, AND COMPACTING

**CAT CB-534C COMPACTOR, PAVING MACHINES (2) EXCAVATOR, END DUMPS**

TEST NUMBER	TEST LOCATION	ELEV (feet)	FIELD TESTING			REFERENCE CURVE			COMMENTS
			DRY DENSITY lbs/cu. ft.	MOISTURE CONTENT %	% OF MAXIMUM DRY DENSITY	COMP CURVE NO.	MAXIMUM DRY DENSITY lbs/cu. ft.	OPTIMUM MOISTURE CONTENT %	
66	RETEST #34 S.E. QUAD	+1"	141.5		96.0	2	147.3		95% MINIMUM PASS
67	AREA THREE AC SW Q.	+2"	142.1		96				
68	" " SW. QUADRANT		145.6		99				
69	" " NW QUADRANT		139.5		95				
70	" " NW QUADRANT		140.1		95				
71	" " SW. QUADRANT		141-		96				
72	" " SW QUADRANT		144.5		98				
73	" " NW QUADRANT		142-		96				
74	" " NW QUADRANT		141.9		96				
75	" " SW. Q-UNDERSHED		145.1		99				
76	" " SW QUADRANT	↓	139.9		95				
77	" " NW QUADRANT	+2"	142-		96	✓	✓		PASS

NOTES Describe work completed during the day, any problems and their solutions

AS REQUESTED TO BE ON SITE BY GOEBEL PAVING  
TO PERFORM TESTING AND OBSERVATION SERVICES

I ARRIVED TO OBSERVE PAVING IN PROGRESS. I TOOK TEMP READINGS ON ARRIVING END DUMPS. AC TEMPS 265-300° AC, BEING PLACED IN AREA THREE. THE FIRST LIFT WILL BE 2", SECOND LIFT 2" TO BE MATTED AND FINAL LIFT OF 4" OF AC. OBSERVED TACK COAT BINDING AGENT APPLIED WHERE NEEDED. NUMEROUS TEST WERE TAKEN THROUGHOUT THE DAY. 2PM I INFORMED COREY OF AREA TESTED AND PASSED SO THEY COULD START SECOND 2" LIFT. TESTING COMPLETED ON 1ST 2" LIFT AC. AREA THREE AT 345 PM THIS DATE. STARTED 2ND 2" LIFT AT 230 PM AT LOCUST-MEDINA + HAMMOND CORNER.

TIME BILLED	HRS.	NO. OF VISITS	TYPED REPORT <input type="checkbox"/> YES <input type="checkbox"/> NO	CONTINUED <input type="checkbox"/>
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JOB NO. or P.O. NO.

96630

PAGE

PAGE TWO OF 3

WEDS

COPY GIVEN TO:



CHEVRON CH1 SPRAY

10-16-01

PULL TAGS

All ROLLS USED Verified

100124739



C040 150 400

Square Yds__	444	Gross__	152
Lin Feet____	400	Tare____	22
Width (In)__	120	Net____	130
Shift 1-ER	PP	BLK.50	

C040 120 400



100124982



C040 150 400

100124953



C040 150 400







**CH2MHILL** F A X

CC I / SFO  
Tel 510-251-2888 EXT 2180  
Fax 510-622-9180

To: Greg Goebel  
Company: Goebel Paving  
Fax No.: 707-763-7137  
Voice No.: 707-763-0088

From: Cecil Gore *CG*  
Date: October 29, 2001  
Total Pages: 4

**Message:**

**Greg, here is the compaction results for the base material placed Thursday and Friday at the Chevron Project in Watsonville.**

**Please contact me at the below numbers to keep me informed of your schedule to the project site.**

***Cecil Gore***  
***Construction Manager***



**CH2MHILL**

Ph: 510- 251-2888 Ext. 2180  
FAX: 510-622-9180  
SITE: 831-724-2368  
CELL: 707-529-9706  
PAGER: 510-678-2533  
cgore@ch2m.com







# CMT, INC.

## DAILY FIELD REPORT

JOB NO. or P.O. NO.  
**96630**  
PAGE  
**ONE of TWO**

PROJECT NAME <b>CHEVRON</b> <b>12.5 WALKER CALS PRAY</b>	CLIENT OR OWNER <b>GOEBEL PAVING</b>	DAILY FIELD REPORT SEQUENCE NO. <b>FIVE</b>	
GENERAL LOCATION OF WORK <b>WATSONVILLE CA</b>	OWNER OR CLIENT'S REPRESENTATIVE	DATE <b>10-26-01</b>	DAY OF WEEK <b>FRIDAY</b>
GENERAL CONTRACTOR	GRADING CONTRACTOR <b>Goebel</b>	PROJECT ENGINEER	
TYPE OF WORK <b>T&amp;O - AB</b>	CONTRACTOR'S SUPERINTENDENT OR FOREMAN <b>GREG</b>	SUPERVISOR <b>CECIL GORE</b>	

SOURCE AND DESCRIPTION OF FILL MATERIAL <b>Grey 3/4" class II AB.</b>	(TEST OR SITE)	WEATHER	TECHNICIAN <b>MARK HOPKINS</b>
--	----------------	---------	-----------------------------------

ON SCORPE EQUIPMENT USED FOR MIXING, SPREADING, WATERING, CONDITIONING, AND COMPACTING  
**1 roller, ship loader, water truck, import trucks, WALK BEHIND COMPACTOR**

TEST NUMBER	TEST LOCATION  <b>ON MAP</b>	ELEV (feet) <b>AB</b>	FIELD TESTING			REFERENCE CURVE			COMMENTS
			DRY DENSITY lb/cu. ft.	MOISTURE CONTENT %	% OF MAXIMUM DRY DENSITY	COMP. CURVE NO.	MAXIMUM DRY DENSITY lb/cu. ft.	OPTIMUM MOISTURE CONTENT %	
47	NW QUADRANT - 1	56	135.4	9.3	96	1	140.7	7.1	PASS
48	" "	2	136	8.1	97				PASS
49	NE QUADRANT	3	133.5	8.3	95				PASS
50	" "	4	136	8.9	98				PASS
51	" "	5	138	8.4	98				PASS
52	" "	6	132.7	7.2	94				FAIL
53	RETEST #52	7	134.1	7.5	95				PASS
54	SE QUADRANT	8	133.9	7.5	95				PASS
55	" "	9	136.5	8.2	97				PASS
56	" "	10	134	8.7	95				PASS
57	" "	11	133.9	7.8	95				PASS
58	" "	12	134.8	8.4	96	✓	✓	✓	PASS

NOTES (Describe work completed during the day, any problems and their solutions)

AS REQUESTED TO BE ON SITE BY GOEBEL PAVING TO PERFORM TESTING AND OBSERVATION SERVICES.

I ARRIVED AT 10 AM AS REQUESTED, MET CECIL GORE WHO DIRECTED ME TO GREG. I WAS SHOWN AREA OF AB SUBGRADE THAT HAD BEEN COMPACTED AND READY FOR TESTING. OBSERVED CONTINUED GRADING AND WATERING OF AB, ALONG WITH DELIVERY OF AB BY BOTTOM DUMP TRUCKS. CONTRACTOR USED WALK BEHIND COMPACTOR FOR EDGE AND CLOSE WORK. TWENTY TESTS WERE TAKEN ON AB THIS DATE INFORMING GOEBEL AND CH2MHILL OF RESULTS. QUALITY OF MATERIAL VERY GOOD AND SAME WITH PROCESSING AND COMPACTION AS EVIDENCED BY MOISTURE AND COMPACTION RESULTS.

TIME BILLED	HRS.	NO. OF VISITS	TYPED REPORT <input type="checkbox"/> YES <input type="checkbox"/> NO	CONTINUED <input type="checkbox"/>
RECEIVED BY		COPY GIVEN TO		



JOB NO. or P.O. NO.  
96630

PAGE  
Two of Two

PROJECT NAME CHEVRON CAL 125 WALKER SPRAY	CLIENT OR OWNER GOEBEL PAVING - CH2MHill	DAILY FIELD REPORT SEQUENCE NO. FIVE	
GENERAL LOCATION OF WORK TFO-AB	OWNER OR CLIENTS REPRESENTATIVE Greg - Cecil Gore	DATE 10-26-01	DAY OF WEEK FRIDAY

[illegible]

TIME BILLED	HRS.,	NO. OF VISITS	TYPED REPORT <input type="checkbox"/> YES <input type="checkbox"/> NO	CONTINUED <input type="checkbox"/>
RECEIVED BY:		COPY GIVEN TO:		



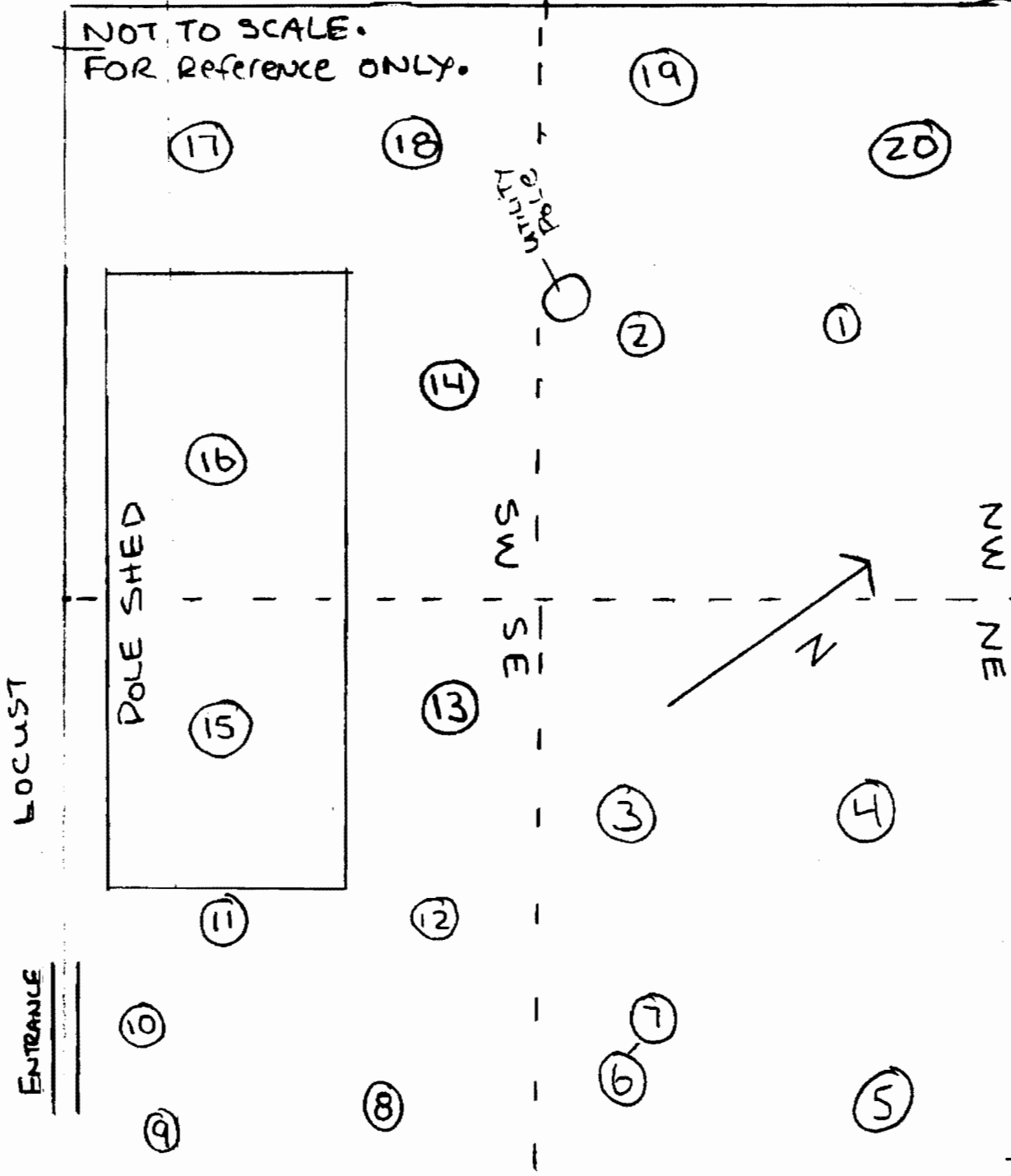
# Calculation Record

## UNOCAL

SUBJECT	PREPARED BY	CHECKED BY	DATE	PAGE OF
	W.D./A.F.E. NO.			

CMT # 96630 - GOEBEL PAVING  
125 WALKER ST. WATSONVILLE, CA

NOT TO SCALE.  
FOR REFERENCE ONLY.



RIVERSIDE DRIVE

ENTRANCE









DATE: 10-25-01

**SCHEDULE:**

PROJECT NO:

LINE:

**INSP:**

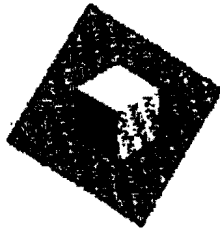
[illegible]

Remarks:









# Graniterock®

411 Walker Street, Watsonville, CA 95077-5001

Research-Technical Services

831-768-2330

Fax 831-768-2403

October 16, 2001

**FAX TRANSMISSION TO:**

Greg Goebel  
Goebel Paving  
Fax: 707-763-7137

**Re: Walker Street Project, 1/2" Maximum Medium Asphalt Mix Certification  
Graniterock Astec Drum and Astec Batch Plants at Aromas Quarry**

**Dear Mr. Goebel:**

This letter is to certify that asphalt mix produced at the above facilities for your project will comply with the asphalt cement type (AR8000) that was listed on the original submittal.

Our individual load tags do not normally list the type of liquid asphalt used, as it is detailed in the submittal. Unfortunately, at this time, our asphalt plant software does not contain an area for this information to be printed on the tags.

Should you have any questions or comments regarding this matter, you may reach me at the above numbers.

Sincerely,

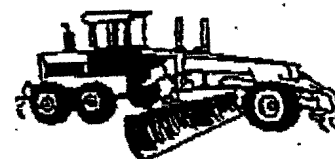
Graniterock Research-Technical Services

Paul Coffman  
HMA Manager



GOEBEL  
PAVING, GRADING & UNDERGROUND, INC.

P.O. Box 2745 • Petaluma, CA 94953

(707) 763-0088  
FAX: (707) 763-7137

## FACSIMILE COVER SHEET

COMPANY: CH2MHILL  
ATTN: CECIL GORE  
FAX NO.: 510-622-9180  
REF: 125 WALKER STREET  
DATE: 10/16/01 TIME: 5:00 P.M.

THIS TRANSMISSION IS 2 PAGES LONG (INCLUDING COVER SHEET).

## REMARKS:

CECIL,ENCLOSED IS THE CERTIFICATION FOR  
THE 1/2" ASPHALT.

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT GREG  
AT TELEPHONE (707) 763-0088, OR FACSIMILE (707) 763-7137.

SINCERELY,

A handwritten signature in cursive script, appearing to read 'Greg', written over a horizontal line.





DATE: 10-11-01

SCHEDULE: *Contract*

PROJECT NO: 164824

LINE: Goebel Paving

INSP: CCIA CMT

[illegible]

Remarks:



# CMT, INC. DAILY FIELD REPORT

JOB NO. or P.O. NO.

96630

PAGE

1 of 1

PROJECT NAME <b>CHURCH CAL SPRAY</b>		CLIENT OR OWNER <b>Goebel Paving</b>		DAILY FIELD REPORT SEQUENCE NO. <b>1</b>	
GENERAL LOCATION OF WORK <b>Watsonville, CA</b>		OWNER OR CLIENT'S REPRESENTATIVE <b>Cecil Gore - CH2M Hill</b>		DATE <b>10-11-01</b>	DAY OF WEEK <b>THUR</b>
GENERAL CONTRACTOR		GRADING CONTRACTOR <b>Goebel</b>		PROJECT ENGINEER	
TYPE OF WORK <b>AB TESTING</b>		CONTRACTOR'S SUPERINTENDENT OR FOREMAN <b>Dave</b>		SUPERVISOR <b>Cecil Gore</b>	
SOURCE AND DESCRIPTION OF FILL MATERIAL <b>Import</b>		(IMPORT OR SITE)		WEATHER <b>fair</b>	TECHNICIAN <b>Mossman</b>

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, AND COMPACTING

Loader, Water Wagon, Roller

TEST NUMBER	TEST LOCATION	ELEV (feet)	FIELD TESTING			REFERENCE CURVE			COMMENTS
			DRY DENSITY lbs/cu. ft.	MOISTURE CONTENT %	% OF MAXIMUM DRY DENSITY	COMP CURVE NO.	MAXIMUM DRY DENSITY lbs/cu. ft.	OPTIMUM MOISTURE CONTENT %	
	<b>Area #1</b>								<b>95 PER</b>
1	N.E. Quadrant	<b>AB</b>	137.1	8.1	95	DCI	145.0	8.8	<b>Joint</b>
2	N.W. "		131.7	6.5	(91)				<b>Fail</b>
3	North 1/2 Center - E		130.7	8.9	(95)				<b>Fail</b>
4	South 1/2 Center - East		131.9	6.9	(91)				<b>Fail</b>
5	South (Main Lot) CTR		137.5	8.9	96				
6	S.E. Quadrant		136.4	9.0	95				
7	South 1/2 Center/Center		136.0	10.1	(97)				
8	North 1/2 Center/Center		137.3	8.2	96				
9	N.E. Quadrant		141.0	7.0	97				<b>RTF #1</b>
10	North 1/2 Center/Center	<b>AB</b>	132.6	12.1	(91)				<b>RTF #3</b>
11									
12									

NOTES (Describe work completed during the day, any problems and their solutions)

Arrived at site 9:30 am. I met with Cecil Gore/CH2M Hill who represents the owner. / Project "Church Cal Spray" Contractor/client was still spreading a 4" lift of AB at the time of arrival. The AB is placed on a parking Area located west of Existing Bldgs. / N of River Street. The AB is a component of a cap over existing MC below. To be followed by a AC. surface.  
 Area 2 Backfilled is known as section Area #1  
 Contractor/owner supplied preliminary curves from DCI. CMT to take sample to Lab for curves.  
 Contractor was still spreading; recompact material til 5:30 pm. Earlier tests failed, Retests began to show adequate compaction except Center Section of Area A. Entrance had yet to be compacted  
 Testing scheduled by Goebel for 8 am Tomorrow.

TIME BILLED

5 HRS. 11 MIN. 3.5 TR. (1)

NO. OF VISITS

TYPED REPORT

☐ YES ☐ NO

 CONTINUED ☐

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# CMT, INC. DAILY FIELD REPORT

JOB NO. or P.O. NO.

96630

PAGE

1 OF

DAILY FIELD REPORT SEQUENCE NO.

2

PROJECT NAME <b>125 Walker</b>	CLIENT OR OWNER <b>Goebel</b>	DAILY FIELD REPORT SEQUENCE NO. <b>2</b>	
GENERAL LOCATION OF WORK <b>Watsonville, CA</b>	OWNER OR CLIENT'S REPRESENTATIVE <b>Cecil Gore - CH2M Hill</b>	DATE <b>10-17-01</b>	DAY OF WEEK <b>Fri</b>
GENERAL CONTRACTOR	GRADING CONTRACTOR <b>Goebel</b>	PROJECT ENGINEER	
TYPE OF WORK <b>AS-Testing</b>	CONTRACTOR'S SUPERINTENDENT OR FOREMAN <b>Dave</b>	SUPERVISOR <b>Cecil Gore</b>	
SOURCE AND DESCRIPTION OF FILL MATERIAL <b>Import 3/4" AB</b>	(IMPORT OR SITE)	WEATHER <b>fair</b>	TECHNICIAN <b>Mossman</b>
DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, AND COMPACTING			

TEST NUMBER	TEST LOCATION	ELEV (feet)	FIELD TESTING			REFERENCE CURVE			COMMENTS
			DRY DENSITY lbs/cu. ft.	MOISTURE CONTENT %	% OF MAXIMUM DRY DENSITY	COMP CURVE NO.	MAXIMUM DRY DENSITY lbs/cu. ft.	OPTIMUM MOISTURE CONTENT %	
11	South Center/CTR	AD	137.4	7.5	98	1	140.7	7.1	95% AC
12	North Center/CTR		139.0	8.3	99				ATP # 3
13	N.W. Quadrant		137.1	9.3	97				ATP # 2
14	South Center/Center		137.3	7.7	98				ATP # 4
15	S.E. Quadrant		140.8	8.3	99				ATP # 5
16	S.W. Quadrant		139.4	7.0	99				
17	Entrance N.C.		137.1	8.9	97				
18	Entrance E-South	AD	137.7	8.2	98				

NOTES (Describe work completed during the day, any problems and their solutions)

Arrived at site from as requested by contractor.  
 CMT contacted me with curve results #1 = 140.7 @ 7.1%  
 All tests also passed DCI-Supplied curve @ 145.0 @ 5.8%  
 Contractor rerolled entire site. Retests passed  
 Entrance area to South Riverside was also  
 compacted / passed 95% AC.

TIME BILLED

4

HRS.

3 TR.

(1)

NO. OF VISITS

[Signature]

TYPED REPORT

☐ YES

☐ NO

 CONTINUED ☐

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# CMT, INC. DAILY FIELD REPORT

JOB NO. or P.O. NO.

96630

PAGE

1 OF

PROJECT NAME <b>125 WALKER</b>	CLIENT OR OWNER <b>Goebel</b>	DAILY FIELD REPORT SEQUENCE NO. <b>3</b>	
GENERAL LOCATION OF WORK <b>Watsonville</b>	OWNER OR CLIENT'S REPRESENTATIVE <b>Cecil Gore</b>	DATE <b>10-15-01</b>	DAY OF WEEK <b>Mon</b>
GENERAL CONTRACTOR	GRADING CONTRACTOR <b>Goebel</b>	PROJECT ENGINEER	
TYPE OF WORK <b>AC TEST/DAS</b>	CONTRACTOR'S SUPERINTENDENT OR FOREMAN		SUPERVISOR <b>Cecil Gore</b>
SOURCE AND DESCRIPTION OF FILL MATERIAL (IMPORT OR SITE) <b>1/2" MEDIUM AC (Granite)</b>		WEATHER <b>fair</b>	
		TECHNICIAN <b>Mossmann</b>	

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, AND COMPACTING

(2) Rollers, Fergie, Import Truck, Vibro-plate

TEST NUMBER	TEST LOCATION	ELEV (feet)	FIELD TESTING			REFERENCE CURVE			COMMENTS
			DRY DENSITY lbs/cu. ft.	MOISTURE CONTENT %	% OF MAXIMUM DRY DENSITY	COMP CURVE NO.	MAXIMUM DRY DENSITY lbs/cu. ft.	OPTIMUM MOISTURE CONTENT %	
19	N.E. Quad	+2" AC	140.3		95	2	147.3		95% AC
20	S.E. Quad		142.4		97				
21	Center East side		141.4		96				
22	N.E. Quad		140.6		95				
23	Entrance S.E.		144.0		98				
24	Entrance Center		141.4		96				
25	Center & Main Area	+2" AC	139.8		95				
26	N.E. Quad	+4" AC	139.8		95				
27	N.E. side of Entrance		140.5		95				
28	South of Center		142.0		96				
29	North of Center		138.0		94				ACCEPTED by Cecil
30	Center & Entrance		138.0		94	2	147.3		ACCEPTED by Cecil

NOTES (Describe work completed during the day, any problems and their solutions)

Arrived at site 8:00 AM as scheduled. Contractor began 2" AC 1st lift at N.E. Quadrant working South to West. AC arriving at site 300°F±. Placement was at 240°-265°F±. Lift sizes were 2 1/2" uncompacted to 2" compacted. (2) lifts of 2" are to be placed today. Followed by a 3" lift tomorrow. Sample taken 10:17 am. Preliminary Proctor from Granite G.C. Ryan Clarke = 150.0 lbs. Sample taken to CMT for Density Tests. Final Results indicated compaction was acceptable. Cecil Gore accepted 94% & Tests #29.30. Test results were known 10/16/01 - 1 PM. Temperature was taken regularly. In Truck 300°F±, In place 265-270°F±. Lift sizes were in accordance to plan. Client/Cecil requested tests for 6 am tomorrow. Asphalt plant used 150.0 curve and some test appeared low, but later recalculated as passing.

TIME BILLED

HRS.

(1) NO. OF VISITS

 TYPED REPORT ☐ YES ☐ NO

 CONTINUED ☐

RECEIVED BY

COPY GIVEN TO

Cecil Gore



# CMT, INC. DAILY FIELD REPORT

JOB NO. or P.O. NO.  
**96630**  
PAGE **1** OF **1**

PROJECT NAME <b>CHEVON 125 Walker Cab Spray.</b>		CLIENT OR OWNER <b>Goebel</b>	DAILY FIELD REPORT SEQUENCE NO. <b>3</b>	
GENERAL LOCATION OF WORK <b>Watsonville</b>		OWNER OR CLIENT'S REPRESENTATIVE <b>Corey/Goebel</b>	DATE <b>6-18-81</b>	DAY OF WEEK <b>Tue</b>
GENERAL CONTRACTOR		GRADING CONTRACTOR <b>Goebel</b>	PROJECT ENGINEER	
TYPE OF WORK <b>Test AC</b>		CONTRACTOR'S SUPERINTENDENT OR FOREMAN <b>Corey</b>	SUPERVISOR <b>Cecil Gore</b>	
SOURCE AND DESCRIPTION OF FILL MATERIAL (IMPORT OR SITE) <b>1/2" AC - Granite - Rock</b>		WEATHER <b>fair</b>	TECHNICIAN <b>M. J. Mann</b>	

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, AND COMPACTING

**(2) Rollers, (1) Vib plate, (1) loader, Import Trucks (4)**

TEST NUMBER	TEST LOCATION	ELEV (feet)	FIELD TESTING			REFERENCE CURVE			COMMENTS
			DRY DENSITY lbs/cu. ft.	MOISTURE CONTENT %	% OF MAXIMUM DRY DENSITY	COMP CURVE NO.	MAXIMUM DRY DENSITY lbs/cu. ft.	OR TRIAL MAXIMUM MOISTURE CONTENT %	
31	South of Center / West	141.0			96	2	147.3		95% Pass
32	N.E. Entrance	140.4			95				
33	S. N. Entrance	142.0			96				
34	S.E. Quad / Main Area	138.2			94				accepted by Cecil Gore
35	N.E. Quad	140.5			98				
36	Outer East Side	143.5			97				
37	S.E. Quad	143.5			97				
38	Entrance / East	142.0			96				
39	North PERIMETER E	139.5			95				
40	South - Centerline	139.8			95				
41	Entrance - Center	144.0			98				
42	Center & Main lot	143.0			97	2	147.3		
NOTES: (Describe work completed during the day, any problems and their solutions)									
43	Entrance - S & 6th	139.4			95				
44	Entrance - West	141.4			96				
45	South of & West	140.2			97				
46	North of & West	148.1			96	2	147.3		

Arrived at Site 6am. Tests taken on 1/4" AC List at request of client. Retests with similar results. Cecil Gore gave 90 check for last AC List. Temperature & thickness checked throughout day. All acceptable. Tests results on Curve #2 = AC. 147.3 lb/cu ft. All tests passed 95%. Test #34 accepted by Cecil / C. J. Mann Hill Area Tested 85' west of Bldg. & North P.L. to Riverside. Second phase to start in approx 2 wks.

TIME BILLED <b>8:20 (4TR) (1)</b>		NO. OF VISITS	TYPED REPORT <input type="checkbox"/> YES <input type="checkbox"/> NO	CONTINUED <input type="checkbox"/>
RECEIVED BY		COPY GIVEN TO <b>Cecil Gore</b>		











**Appendix D**  
**Laboratory Reports for Air Monitoring**





ENVIRONMENTAL SCIENCES & TECHNOLOGIES, INC.

970 Los Vallecitos Blvd., Suite 100  
San Marcos, California 92069  
Office: (760) 744-9611  
Fax: (760) 744-8616

[www.tracer-est.com](http://www.tracer-est.com)  
[tracer@tracer-est.com](mailto:tracer@tracer-est.com)

December 19, 2001

Mr. Cecil Gore  
Construction Manager  
CH2M Hill  
155 Grand Ave., Suite 1000  
Oakland, CA 94612

Regarding: Laboratory Data

Dear Cecil,

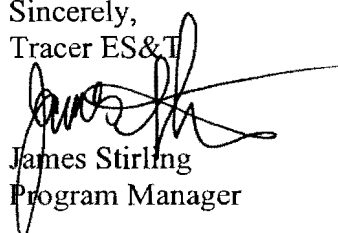
Please find enclosed laboratory analysis data from the Cal Spray project in Watsonville. The data consist of raw gravimetric data for TSP, lead and arsenic. We've separated the packages out by batch as sent out from the sampling site.

The TSP data are given in milligrams per sample while the metals data are provided in micrograms per sample. In order to convert these to concentrations, you will need to divide through by the total volume of air collected in a given sample. This volume is the product of the flow rate and the sampling time. Make sure the units line up!

If you're unsure about flow rates or calculations, let me know.

We appreciate the opportunity to assist CH2M Hill on this program and best wishes for an enjoyable holiday season.

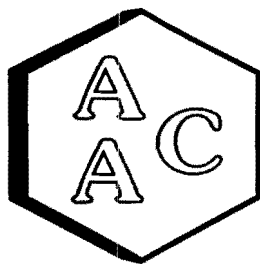
Sincerely,  
Tracer ES&T

A handwritten signature in black ink, appearing to read "James Stirling", is written over the typed name.

James Stirling  
Program Manager

JJS/





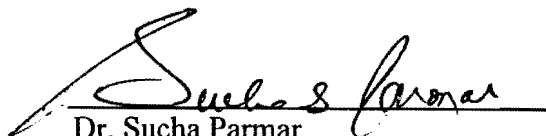
## Atmospheric Analysis & Consulting, Inc.

### *Laboratory Analysis Report*

CLIENT : Tracer  
PROJECT NO. : CH2 M Hill/300-01-1318  
SAMPLE MEDIA : Filter

SAMPLING DATE : 8/10/01  
RECEIVING DATE : 8/13/2001  
ANALYSIS DATE : 8/14/2001  
REPORT DATE : 8/27/2001

Analysis Method- Gravimetric		
Client Sample ID	AAC Lab No.	TSP mg/sample
2135	1318-1	51
2136	1318-2	47
2134	1318-3	66
2133	1318-4	75
2132	1318-5	128
2131	1318-6	85

  
Dr. Sucha Parmar  
President





# CHAIN OF CUSTODY RECORD


Client/Project Name <u>C42 M. Hill/Tracer</u>		Project Location	
Project No.		Field Logbook No.	
Sampler: (Signature) *		Chain of Custody Tape No.	

ANALYSES

Gravimetric  
Lead & Arsenic

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample							REMARKS
2135				8x10 P/H	X	X					
2136				" "	X	X					
2134				" "	X	X					
2133				" "	X	X					
2132				" "	X	X					
2131				" "	X	X					

Relinquished by: (Signature) *	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received for Laboratory: (Signature) <i>Chato</i>	Date 8-13-01	Time 9:40
Sample Disposal Method:	Disposed of by: (Signature)			Date	Time

SAMPLE COLLECTOR <i>Michael Sanchez</i> <i>C42 M. Hill</i> <i>2525 Airport Dr.</i> <i>Redding, CA 96001</i>	ANALYTICAL LABORATORY  <div style="text-align: right;">   <b>Sucha S. Parmar, Ph.D</b>                      President                 </div>
---	---

**ATMOSPHERIC ANALYSIS & CONSULTING, INC.**  
 Air Quality Analytical Laboratory

1974-3-84 phone 530-229-3310  
 fax 530-339-3310

1534 Eastman Avenue, Suite A  
 Ventura, California 93003

(805) 650-1642  
 FAX (805) 650-1644





## American Environmental Testing Laboratory Inc.

2834 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Ordered By

Atmospheric Analysis & Consulting  
1534 Eastman Avenue Suite A  
Ventura, CA 93003-

Number of Pages 3  
Date Received 08/20/2001  
Date Reported 08/29/2001

Telephone: (805)650-1642  
Attention: Sucha Parmar

Job Number	Order Date	Client
19624	08/20/2001	AA&C

Project ID: 300-01-1318  
Project Name: Tracer-SD  
Site: Tracer-SD

Enclosed please find results of analyses of 6 solid waste sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By:

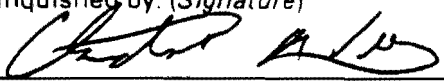
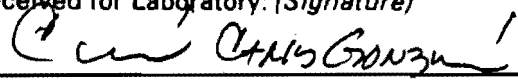

*Jay Muelh*

Approved By:

*C. Razmara*

Cyrus Razmara, Ph.D.  
Laboratory Director



Client Project Name <b>AAC</b>			Project Location <b>Tracer-SD</b>			<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Lead &amp; Arsenic</div> <div style="text-align: center;">ANALYSES</div> </div>					
Project No. <b>300-01-1318 (Tracer-SD)</b>			Field Logbook No.								
Sampler: (Signature)			Chain of Custody Tape No.								
Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	REMARKS						
1318-1	8-10-01		AE102343	8x10 filter	X						
-2	↓		AE102344	↓	↓						
-3			AE102345								
-4			AE102346								
-5			AE102347								
-6			AE102348								
Relinquished by: (Signature) 					Date 8-17-01	Time 5:00	Received by: (Signature)			Date	Time
Relinquished by: (Signature)					Date	Time	Received by: (Signature)			Date	Time
Relinquished by: (Signature)					Date	Time	Received for Laboratory: (Signature) 			Date 8/20/01	Time 10:02
Sample Disposal Method:					Disposed of by: (Signature)			Date	Time		
SAMPLE COLLECTOR					ANALYTICAL LABORATORY  <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">   <b>ATMOSPHERIC ANALYSIS &amp; CONSULTING, INC.</b>            Air Quality Analytical Laboratory         </div> <div style="text-align: right;"> <b>Sucha S. Parmar, Ph.D.</b>            President         </div> </div>						







## American Environmental Testing Laboratory Inc.

2834 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### ANALYTICAL RESULTS

**Ordered By**

Atmospheric Analysis & Consulting  
1534 Eastman Avenue  
Suite A  
Ventura, CA 93003-

Telephone: (805) 650-1642

Attn: Sucha Parmar

Page 2

Project ID: 300-01-1318

Project Name: Tracer-SD

**Site**

Tracer-SD

AETL Job Number	Submitted	Client
19624	08/20/2001	AA&C

Analytes			Arsenic	Lead		
Methods of Analyses			(6010BSCAN)	(6010BSCAN)		
Date Prepared			08/27/2001	08/27/2001		
Date Analyzed			08/29/2001	08/29/2001		
Matrix			Solid Waste	Solid Waste		
QC Batch Number			08272001 / 08272001	08272001 / 08272001		
Units			ug/Sample	ug/Sample		
Detection Limit			0.1	0.05		
Practical Quantitation Limit			0.1	0.05		
Dilution Factor			1	1		
Lab ID	Sample ID	Sampled	Results	Results		
AE102343	1318-1	08/10/2001	ND	7.60		
AE102344	1318-2	08/10/2001	ND	3.89		
AE102345	1318-3	08/10/2001	ND	6.25		
AE102346	1318-4	08/10/2001	ND	3.45		
AE102347	1318-5	08/10/2001	ND	4.13		
AE102348	1318-6	08/10/2001	ND	2.67		
N/A	Method Blank	08/10/2001	ND	ND		





# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Atmospheric Analysis & Consulting  
1534 Eastman Avenue  
Suite A  
Ventura, CA 93003

### Site

Tracer-SD

Telephone: (805)650-1642

Attn: Sucha Parmar

Page: 3

Project ID: 300-01-1318

Project Name: Tracer-SD

**AETL Job Number**

19624

**Submitted**

08/20/2001

**Client**

AA&C

Method: (6010BSCAN), Arsenic and Lead in Filter Sample by CP

## QUALITY CONTROL REPORT

QC Batch Number: 08272001 / 08272001

Analytes	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit	
Arsenic	1.00	1.01	101	1.00	1.01	101	<1	80-120	<15	
Lead	1.00	0.94	94	1.00	0.96	96	2.1	80-120	<15	

QC Batch Number: 08272001 / 08272001

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Arsenic	1.00	1.04	104	80-120						
Lead	1.00	0.98	98	80-120						





## American Environmental Testing Laboratory Inc.

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • [www.aetlab.com](http://www.aetlab.com)

### Data Qualifiers and Descriptors

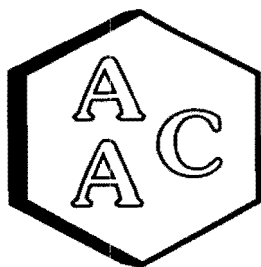
#### *Data Qualifier:*

- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).

#### *Definition:*

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.
- MS: Matrix Spike
- MS DU: Matrix Spike Duplicate
- ND: Analyte was not detected in the sample at or above MDL.
- PQL: Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
- Recov: Recovered concentration in the sample.
- RPD: Relative Percent Difference





## Atmospheric Analysis & Consulting, Inc.

### *Laboratory Analysis Report*

CLIENT : Tracer

PROJECT NO. : Cal Spray H&S/300-01-1325

SAMPLE MEDIA : Filter

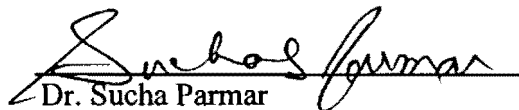
SAMPLING DATE : 8/13-17/01

RECEIVING DATE : 8/21/2001

ANALYSIS DATE : 8/27/2001

REPORT DATE : 8/27/2001

Analysis Method- Gravimetric		
Client Sample ID	AAC Lab No.	TSP mg/sample
2137	1325-1	101
2141	1325-2	77
2142	1325-3	54
2143	1325-4	47
2144	1325-5	50
2145	1325-6	84
2146	1325-7	30
2147	1325-8	79
2148	1325-9	114
2149	1325-10	35
2150	1325-11	41
2151	1325-12	82
2152	1325-13	26
2153	1325-14	50
2154	1325-15	73

  
Dr. Sucha Parmar  
President





## Chain of Custody Record



CH2MHILL

For Lab Use

COC Number AAC-002

Project Name Cal Spray H&amp;S

Project Location Watsonville

Project Number 164824.01.HS

Project Manager Keith Sheets

Sample Manager Michael Sanchez  
(530) 604-4901

Turnaround Time 21 days

QC Level 2

August 17, 2001

Lab 1 # AAC

Lab 2 #

Sample Date/Time	Field ID	Type	Matrix	# Containers	Analysis Requested	Field Filtered	Remarks	Lab1	Lab 2
13-Aug-01 1714	1325-1	2137	N	AIR					
				1	GenChem	<input type="checkbox"/>	Gravimetric		
				16	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers	21 MS				
13-Aug-01 1712	-2	2141	N	AIR					
				1	GenChem	<input type="checkbox"/>	Gravimetric		
				10	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers	21 MS				
13-Aug-01 1710	-3	2142	N	AIR					
				1	GenChem	<input type="checkbox"/>	Gravimetric		
				16	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers	21 MS				
14-Aug-01 1645	-4	2143	N	AIR					
				1	GenChem	<input type="checkbox"/>	Gravimetric		
				20	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers	21 MS				

Signatures

Date/Time

Sampled by [Signature] 8/17/01 1321  
 Relinquished by [Signature] 8/17/01 1321  
 Received by \_\_\_\_\_  
 Relinquished by \_\_\_\_\_  
 Received by [Signature] 8-21-01 900

Shipping Details

Method of Shipment Airborne Expre:  
 Airbill No. \_\_\_\_\_  
 Lab Name Atmospheric Analysis & Consulting  
 Lab Phone (805) 650-1644

ATTN:

Sample Custody  
 and  
 Sucha Pumar

Special Instructions

Report Copy to  
 Keith Sheets  
 (510) 251-2426



300-01-1325

## Chain of Custody Record

COC Number AAC-002

Project Name Cal Spray H&amp;S

Project Location Watsonville

Project Number 164824.01.HS

Project Manager Keith Sheets

Sample Manager Michael Sanchez  
(530) 604-4901

Turnaround Time 21 days

QC Level 2

August 17, 2001

Lab 1 # AAC

Lab 2 #

CH2MHILL

For Lab Use

Sample Date/Time	Field ID	Type	Matrix	# Containers	Analysis Requested	Field Filtered	Remarks	Lab1	Lab 2
14-Aug-01 1647	1325-5 2144	N	AIR	1	GenChem	<input type="checkbox"/>	Gravimetric		
				Y6	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers	21 MS				
14-Aug-01 1650	-6 2145	N	AIR	1	GenChem	<input type="checkbox"/>	Gravimetric		
				Y6	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers	21 MS				
15-Aug-01 1519	-7 2146	N	AIR	1	GenChem	<input type="checkbox"/>	Gravimetric		
				Y0	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers	21 MS				
15-Aug-01 1522	-8 2147	N	AIR	1	GenChem	<input type="checkbox"/>	Gravimetric		
				Y6	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers	21 MS				

Signatures

Date/Time

Sampled by  
 Relinquished by  
 Received by  
 Relinquished by  
 Received by

8/17/01 1321  
 8/17/01 1321  
 8-21-01 900

Shipping Details

Method of Shipment Airborne Expre:  
 Airbill No.  
 Lab Name Atmospheric Analysis & Consulting  
 Lab Phone (805) 650-1644

ATTN:

Sample Custody  
 and  
 Sucha Pumar

Special Instructions

Report Copy to  
 Keith Sheets  
 (510) 251-2426



3.22-01-1501



CH2MHILL

For Lab Use

# Chain of Custody Record

COC Number AAC-002  
Project Name Cal Spray H&S  
Project Location Watsonville

Project Number 164824.01.HS  
Project Manager Keith Sheets  
Sample Manager Michael Sanchez  
(530) 604-4901

August 17, 2001

Turnaround Time 21 days

QC Level 2

Lab 1 # AAC

Lab 2 #

Sample Date/Time	Field ID	Type	Matrix	# Containers	Analysis Requested	Field Filtered	Remarks	Lab1	Lab 2
15-Aug-01 1525 1325-9	2148	N	AIR	1	GenChem	<input type="checkbox"/> Gravimetric			
				16	SW6010	<input type="checkbox"/> Metals; As, Pb			
				Total Containers 81 MS					
16-Aug-01 -10	2149	N	AIR	1	GenChem	<input type="checkbox"/> Gravimetric			
				16	SW6010	<input type="checkbox"/> Metals; As, Pb			
				Total Containers 21 MS					
16-Aug-01 -11	2150	N	AIR	1	GenChem	<input type="checkbox"/> Gravimetric			
				16	SW6010	<input type="checkbox"/> Metals; As, Pb			
				Total Containers 21 MS					
16-Aug-01 -12	2151	N	AIR	1	GenChem	<input type="checkbox"/> Gravimetric			
				16	SW6010	<input type="checkbox"/> Metals; As, Pb			
				Total Containers 21 MS					

Signatures		Date/Time	Shipping Details		ATTN:	Special Instructions
Sampled by		8/17/01 1021	Method of Shipment	Airborne Expre:	Sample Custody and Sucha Pumar	Report Copy to Keith Sheets (510) 251-2426
Relinquished by		8/17/01 1324	Airbill No.			
Received by			Lab Name	Atmospheric Analysis & CoOnsulting		
Relinquished by			Lab Phone	(805) 650-1644		
Received by		8-22-01 980				



300-01-1323



# Chain of Custody Record

COC Number AAC-002

Project Name Cal Spray H&S

Project Location Watsonville

Project Number 164824.01.HS

Project Manager Keith Sheets

Sample Manager Michael Sanchez  
(530) 604-4901

Turnaround Time 21 days

QC Level 2

August 17, 2001

Lab 1 # AAC

Lab 2 #

GH2MHILL

For Lab Use

Sample Date/Time	Field ID	Type	Matrix	# Containers	Analysis Requested	Field Filtered	Remarks	Lab1	Lab 2
17/13-Aug-01 MS	1321	1325-13	2152	N	AIR				
				1	GenChem	<input type="checkbox"/>	Gravimetric		
				10	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers 11 MS					
17/13-Aug-01 MS	1319	-14	2153	N	AIR				
				1	GenChem	<input type="checkbox"/>	Gravimetric		
				10	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers 11 MS					
17/13-Aug-01 MS	1317	-15	2154	N	AIR				
				1	GenChem	<input type="checkbox"/>	Gravimetric		
				10	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers 11 MS					

Signatures		Date/Time	Shipping Details		ATTN:	Special Instructions
Sampled by		8/17/01 1321	Method of Shipment	Airborne Expre:		
Relinquished by		8/17/01 1321	Airbill No.			
Received by			Lab Name	Atmospheric Analysis & Consulting	Sample Custody	Report Copy to
Relinquished by			Lab Phone	(805) 650-1644	and	Keith Sheets
Received by		8-21-01 9:00			Sucha Pumar	(510) 251-2426





## American Environmental Testing Laboratory Inc.

2834 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Ordered By

Atmospheric Analysis & Consulting  
1534 Eastman Avenue Suite A  
Ventura, CA 93003-

Telephone: (805) 650-1642  
Attention: Sucha Parmar

Number of Pages 4  
Date Received 08/29/2001  
Date Reported 09/06/2001

Job Number	Order Date	Client
19692	08/29/2001	AA&C

Project ID: 300-01-1325  
Project Name: Tracer- SM

Enclosed please find results of analyses of 15 solid waste samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By:

*Gary Mirelli*

Approved By:

*C. Razmara*

Cyrus Razmara, Ph.D.  
Laboratory Director



Client/Project Name <b>AAC</b>			Project Location <b>Tracer-GM</b>			ANALYSES <div style="position: relative; height: 150px;"> <div style="position: absolute; top: 0; right: 0; transform: rotate(90deg); font-size: 2em; font-weight: bold;">19692</div> <div style="position: absolute; left: 0; top: 50%; transform: rotate(-90deg); font-size: 1.5em; font-weight: bold;">Linda Arsenio</div> </div>					
Project No. <b>300-01-1325</b>			Field Logbook No.								
Sampler: (Signature)			Chain of Custody Tape No.								

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	X						REMARKS
1325-1			AE 102699	P1/ter	X						
-2			AE 102700	↓							
-3			AE 102701								
-4			AE 102702								
-5			AE 102703								
-6			AE 102704								
-7			AE 102705								
-8			AE 102706								

Relinquished by: (Signature) <i>[Signature]</i>		Date 8-28-01	Time 5:00	Received by: (Signature) <i>[Signature]</i>		Date	Time
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time
Relinquished by: (Signature)		Date	Time	Received for Laboratory: (Signature) <i>[Signature]</i> California		Date 8/29/01	Time 9:00 AM
Sample Disposal Method:		Disposed of by: (Signature)		Overnight		Date	Time

SAMPLE COLLECTOR

ANALYTICAL LABORATORY



ATMOSPHERIC ANALYSIS &amp; CONSULTING, INC.

Air Quality Analytical Laboratory

Sucha S. Parmar, Ph.D  
President



## CHAIN OF CUSTODY RECORD

Client/Project Name <b>AAC</b>			Project Location <b>Tracer - SM</b>			ANALYSES <div style="position: relative; height: 150px;"> <div style="position: absolute; top: 0; right: 0; transform: rotate(90deg); font-size: 2em; font-weight: bold;">19692</div> <div style="position: absolute; left: 0; top: 50%; transform: rotate(-90deg); font-size: 1.5em;">Lead + Arsenic</div> </div>					
Project No. <b>300-01-1325</b>			Field Logbook No.								
Sampler: (Signature)			Chain of Custody Tape No.								
Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	REMARKS						
1325-9			AE 102707	Filter ↓ ✓	X ↓						
-10			AE 102708								
-11			AE 102709								
-12			AE 102710								
-13			AE 102711								
-14			AE 102712								
-15			AG 102713								
Relinquished by: (Signature) <i>Charles H. Lee</i>				Date <b>8-28-01</b>	Time <b>5:00</b>	Received by: (Signature)				Date	Time
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time
Relinquished by: (Signature)				Date	Time	Received for Laboratory: (Signature) <i>Bl. S. G. M.</i>				Date <b>8/29/01</b>	Time <b>9:00 AM</b>
Sample Disposal Method:				Disposed of by: (Signature)				Date	Time		

SAMPLE COLLECTOR

ANALYTICAL LABORATORY


 Sucha S. Parmar, Ph.D  
 President

ATMOSPHERIC ANALYSIS &amp; CONSULTING, INC.

Air Quality Analytical Laboratory







## American Environmental Testing Laboratory Inc.

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### ANALYTICAL RESULTS

#### Ordered By

Atmospheric Analysis & Consulting  
1534 Eastman Avenue  
Suite A  
Ventura, CA 93003-

Telephone: (805) 650-1642

Attn: Sucha Parmar

Page 2

Project ID: 300-01-1325

Project Name: Tracer- SM

AETL Job Number	Submitted	Client
19692	08/29/2001	AA&C

Analytes			Arsenic	Lead		
Methods of Analyses			(7060A)	(7421)		
Date Prepared			09/04/2001	09/04/2001		
Date Analyzed			09/06/2001	09/06/2001		
Matrix			Solid Waste	Solid Waste		
QC Batch Number			09042001 / 09042001	09042001 / 09042001		
Units			ug/Sample	ug/Sample		
Detection Limit			0.1	0.05		
Practical Quantitation Limit			0.1	0.05		
Dilution Factor			1	1		
Lab ID	Sample ID	Sampled	Results	Results		
AE102699	1325-1	//	0.92	7.77		
AE102700	1325-2	//	0.53	5.00		
AE102701	1325-3	//	0.86	4.95		
AE102702	1325-4	//	0.48	3.58		
AE102703	1325-5	//	2.47	4.81		
AE102704	1325-6	//	1.51	7.62		
AE102705	1325-7	//	0.51	2.79		
AE102706	1325-8	//	2.17	6.17		
AE102707	1325-9	//	2.06	9.49		
AE102708	1325-10	//	1.58	4.74		
AE102709	1325-11	//	2.43	6.41		
AE102710	1325-12	//	1.05	4.72		
AE102711	1325-13	//	0.60	3.53		
AE102712	1325-14	//	2.07	5.56		
AE102713	1325-15	//	1.73	11.5		
N/A	Method Blank	//	ND	ND		





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Attn: Sucha Parmar

Page: 3

Project ID: 300-01-1325

Project Name: Tracer- SM

AETL Job Number	Submitted	Client
19692	08/29/2001	AA&C

Method: (7060A), Arsenic, AA, Furnace Technique

### QUALITY CONTROL REPORT

QC Batch Number: 09042001 / 09042001

Analytes	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit	
Arsenic	20.00	20.00	100	20.00	21.40	107	6.7	80-120	<15	

QC Batch Number: 09042001 / 09042001

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Arsenic	20.00	20.00	100	80-120						





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Page: 4

Project ID: 300-01-1325

Project Name: Tracer- SM

AETL Job Number	Submitted	Client
19692	08/29/2001	AA&C

Method: (7421), Lead (Atomic Absorption, Furnace Technique)

### QUALITY CONTROL REPORT

QC Batch Number: 09042001 / 09042001

Analytes	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit	
Lead	10.00	10.40	104	10.00	10.40	104	<1	80-120	<15	

QC Batch Number: 09042001 / 09042001

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Lead	10.00	10.40	104	80-120						





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### Data Qualifiers and Descriptors

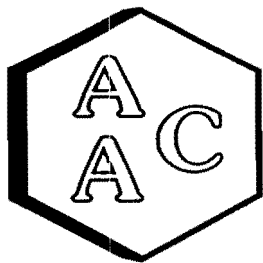
#### ***Data Qualifier:***

- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.
- MS: Matrix Spike
- MS DU: Matrix Spike Duplicate
- ND: Analyte was not detected in the sample at or above MDL.
- PQL: Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
- Recov: Recovered concentration in the sample.
- RPD: Relative Percent Difference





## Atmospheric Analysis & Consulting, Inc.

### *Laboratory Analysis Report*

CLIENT : Tracer

PROJECT NO. : Cal Spray H&S/300-01-1330

SAMPLE MEDIA : Filter

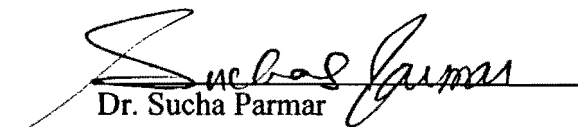
SAMPLING DATE : 8/20-23/01

RECEIVING DATE : 8/27/2001

ANALYSIS DATE : 8/31/2001

REPORT DATE : 9/04/2001

Analysis Method- Gravimetric		
Client Sample ID	AAC Lab No.	TSP mg/sample
2155	1330-1	20
2156	1330-2	81
2157	1330-3	59
2158	1330-4	37
2159	1330-5	43
2160	1330-6	95
2161	1330-7	132
2162	1330-8	41
2163	1330-9	92
2164	1330-10	38
2165	1330-11	188
2168	1330-12	70
2169	1330-13	17
2170	1330-14	31
2171	1330-15	55

  
Dr. Sucha Parmar  
President





## Chain of Custody Record



COC Number AAC-003

Project Name Cal Spray H&amp;S

Project Location Watsonville

Project Number 164824.01.HS

Project Manager Keith Sheets

Sample Manager Michael Sanchez  
(530) 604-4901

Turnaround Time 21 days

QC Level 2

August 24, 2001

Lab 1 # AAC

Lab 2 #

CH2MHILL

For Lab Use

Sample Date/Time	Field ID	Type	Matrix	# Containers	Analysis Requested	Field Filtered	Remarks	Lab1	Lab 2
24-Aug-01 1200 1330-13	2169	N	AIR	1	GenChem	<input type="checkbox"/>	Gravimetric		
				16	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers 17					
24-Aug-01 1203 -14	2170	N	AIR	1	GenChem	<input type="checkbox"/>	Gravimetric		
				16	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers 17					
24-Aug-01 1206 -15	2171	N	AIR	1	GenChem	<input type="checkbox"/>	Gravimetric		
				10	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers 11					

Signatures		Date/Time	Shipping Details		ATTN:	Special Instructions
Sampled by		8/24/01 1206	Method of Shipment	Airborne Expre:	Sample Custody and Sucha Pumar	Report Copy to Keith Sheets (510) 251-2426
Relinquished by		8/24/01 1208	Airbill No.			
Received by		8-27-01 1400	Lab Name	Atmospheric Analysis & CoConsulting		
Relinquished by			Lab Phone	(805) 650-1644		
Received by						





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### Ordered By

Atmospheric Analysis & Consulting  
1534 Eastman Avenue Suite A  
Ventura, CA 93003-

Telephone: (805) 650-1642  
Attention: Sucha Parmar

Number of Pages 3

Date Received 09/05/2001

Date Reported 09/13/2001

Job Number	Order Date	Client
19733	09/05/2001	AA&C

Project ID: 300-01-1330  
Site: Tracer-SM


Enclosed please find results of analyses of 15 solid waste samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By:

Approved By:

Cyrus Razmara, Ph.D.  
Laboratory Director



C /Prc, Name: <b>AAC</b>		Project Location: <b>Tracer-SM</b>		ANALYSES <b>19+33</b>			
Project No.: <b>300-01-1330</b>		Field Logbook No.:					
Sampler: (Signature)		Chain of Custody Tape No.					
Sample No. / Identification	Date	Time	Lab Sample Number	Type of Sample	REMARKS		
1330-1	8-20-01	1534	AE 102962	Filter	<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> <b>Arsenic &amp; Lead</b> </div>		
-2	8-20-01	1535	AE 102963				
-3	8-20-01	1540	AE 102964				
-4	8-21-01	1529	AE 102965				
-5	↓	1531	AE 102966				
-6	↓	1533	AE 102967				
-7	8-22-01	1535	AE 102968				
-8	↓	1538	AE 102969				
Relinquished by: (Signature) <i>[Signature]</i>			Date: <b>9-4-01</b>	Time: <b>1700</b>	Received by: (Signature)	Date	Time
Relinquished by: (Signature)			Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)			Date	Time	Received for Laboratory: (Signature) <i>[Signature]</i>	Date	Time
Sample Disposal Method:			Disposed of by: (Signature)		<i>J. Hunt California overnight 9/5/01 10A</i> Date: Time:		
SAMPLE COLLECTOR			ANALYTICAL LABORATORY  <div style="text-align: right;">   <b>Sucha S. Parmar, Ph.D</b>                      President                 </div>				
			ATMOSPHERIC ANALYSIS & CONSULTING, INC. Air Quality Analytical Laboratory				





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### ANALYTICAL RESULTS

#### Ordered By

Atmospheric Analysis & Consulting  
1534 Eastman Avenue  
Suite A  
Ventura, CA 93003-

Telephone: (805) 650-1642

Attn: Sucha Parmar

Page 2

Project ID: 300-01-1330

#### Site

Tracer-SM

AETL Job Number	Submitted	Client
19733	09/05/2001	AA&C

Analytes			Arsenic	Lead	
Methods of Analyses			(6010BSCAN)	(6010BSCAN)	
Date Prepared			09/07/2001	09/07/2001	
Date Analyzed			09/12/2001	09/12/2001	
Matrix			Solid Waste	Solid Waste	
QC Batch Number			09072001 / 09072001	09072001 / 09072001	
Units			ug/Sample	ug/Sample	
Detection Limit			0.10	0.05	
Practical Quantitation Limit			0.10	0.05	
Dilution Factor			1	1	
Lab ID	Sample ID	Sampled	Results	Results	
AE102962	1330-1	08/20/2001	ND	1.30	
AE102963	1330-2	08/20/2001	10.9	20.9	
AE102964	1330-3	08/20/2001	ND	6.96	
AE102965	1330-4	08/21/2001	ND	3.57	
AE102966	1330-5	08/21/2001	1.73	4.36	
AE102967	1330-6	08/21/2001	ND	5.84	
AE102968	1330-7	08/22/2001	20.9	21.3	
AE102969	1330-8	08/22/2001	ND	1.15	
AE102970	1330-9	08/22/2001	0.56	9.58	
AE102971	1330-10	08/23/2001	ND	3.01	
AE102972	1330-11	08/23/2001	31.8	37.2	
AE102973	1330-12	08/23/2001	5.65	ND	
AE102974	1330-13	08/24/2001	ND	ND	
AE102975	1330-14	08/24/2001	1.62	5.70	
AE102976	1330-15	08/24/2001	ND	2.89	
N/A	Method Blank	08/20/2001	ND	ND	





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## ANALYTICAL RESULTS

### Ordered By

Atmospheric Analysis & Consulting  
1534 Eastman Avenue  
Suite A  
Ventura, CA 93003-

Telephone: (805)650-1642

Attn: Sucha Parmar

Page: 3

Project ID: 300-01-1330

### Site

Tracer-SM

AETL Job Number	Submitted	Client
19733	09/05/2001	AA&C

Method: (6010BSCAN), Arsenic and Lead in Filter Sample by ICP

## QUALITY CONTROL REPORT

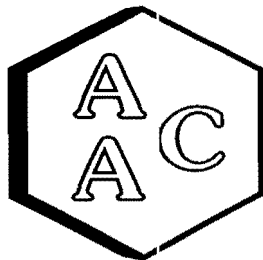
QC Batch Number: 09072001 / 09072001

Analytes	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit	
Arsenic	1.00	1.03	103	1.00	1.03	103	<1	80-120	<15	
Lead	1.00	0.90	90	1.00	0.90	90	<1	80-120	<15	

QC Batch Number: 09072001 / 09072001

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Arsenic	1.00	1.03	103	80-120						
Lead	1.00	0.90	90	80-120						





## Atmospheric Analysis & Consulting, Inc.

### Laboratory Analysis Report

CLIENT : Tracer

SAMPLING DATE : 8/27-29/01

PROJECT NO. : Cal Spray H&S/300-01-1337

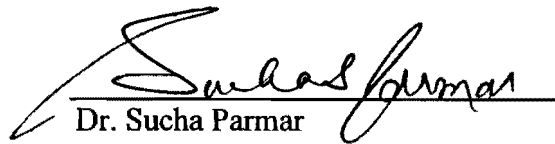
RECEIVING DATE : 8/31/2001

SAMPLE MEDIA : Filter

ANALYSIS DATE : 9/04/2001

REPORT DATE : 9/04/2001

Analysis Method- Gravimetric		
Client Sample ID	AAC Lab No.	TSP mg/sample
112418 A	1337-1	59
112419 B	1337-2	89
112420 B.	1337-3	27
112421 B	1337-4	238
112422	1337-5	5.7
2172	1337-6	51
2173 B	1337-7	260
2174 A	1337-8	160
2175 A	1337-9	118

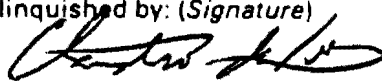
  
Dr. Sucha Parmar  
President





Client/Project Name <b>AAC</b>			Project Location <b>Tracer - SM</b>			ANALYSES <div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;">Lead &amp; Arsenic</div>					
Project No. <b>300-01-1337</b>			Field Logbook No.								
Sampler: (Signature)			Chain of Custody Tape No.								


Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	REMARKS
1337-1	8-29-01	1600		Filter	
-2	"	1330			
-3	"	1614			
-4	8-28-01	1533			
-5	"	1530			
-6	8-22-01	1625			
-7	"	1628			
-8	"	1630			

Relinquished by: (Signature) 		Date 9-4-01	Time 5:00	Received by: (Signature)		Date	Time
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time
Relinquished by: (Signature)		Date	Time	Received for Laboratory: (Signature)		Date	Time
Sample Disposal Method:		Disposed of by: (Signature)			Date	Time	

**SAMPLE COLLECTOR**

**ANALYTICAL LABORATORY**

**Sucha S. Parmar, Ph.D**  
President



**ATMOSPHERIC ANALYSIS & CONSULTING, INC.**  
Air Quality Analytical Laboratory



Client/Project Name			Project Location			ANALYSES										REMARKS	
Project No.			Field Logbook No.			Lead & Arsenic											
Sampler: (Signature)			Chain of Custody Tape No.														
Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample													
1337-9	8-28-01	1537		F. Filter	X												
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time						
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time						
Relinquished by: (Signature)				Date	Time	Received for Laboratory: (Signature)				Date	Time						
Sample Disposal Method:				Disposed of by: (Signature)						Date	Time						
SAMPLE COLLECTOR				ANALYTICAL LABORATORY						Sucha S. Parmar, Ph.D. President							
										ATMOSPHERIC ANALYSIS & CONSULTING, INC. Air Quality Analytical Laboratory							





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Ventura, CA 93003-

Telephone: (805) 650-1642  
Attention: Sucha Parmar

Number of Pages 3

Date Received 09/05/2001

Date Reported 09/13/2001

Job Number	Order Date	Client
19732	09/05/2001	AA&C

Project ID: 300-01-1337  
Site: Tracer-SM

Enclosed please find results of analyses of 9 solid waste samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





## American Environmental Testing Laboratory Inc.

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### ANALYTICAL RESULTS

#### Ordered By

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Suite A  
Ventura, CA 93003-

Telephone: (805) 650-1642

Attn: Sucha Parmar

Page 2

Project ID: 300-01-1337

#### Site

Tracer-SM

AETL Job Number	Submitted	Client
19732	09/05/2001	AA&C

Analytes			Arsenic	Lead		
Methods of Analyses			(6010BSCAN)	(6010BSCAN)		
Date Prepared			09/07/2001	09/07/2001		
Date Analyzed			09/12/2001	09/12/2001		
Matrix			Solid Waste	Solid Waste		
QC Batch Number			09072001 / 09072001	09072001 / 09072001		
Units			ug/Sample	ug/Sample		
Detection Limit			0.10	0.05		
Practical Quantitation Limit			0.10	0.05		
Dilution Factor			1	1		
Lab ID	Sample ID	Sampled	Results	Results		
AE102953	1337-1	08/29/2001	ND	4.11		
AE102954	1337-2	08/29/2001	11.3	12.1		
AE102955	1337-3	08/29/2001	ND	1.55		
AE102956	1337-4	08/28/2001	26.3	24.2		
AE102957	1337-5	08/28/2001	ND	ND		
AE102958	1337-6	08/27/2001	ND	1.78		
AE102959	1337-7	08/27/2001	32.4	31.2		
AE102960	1337-8	08/27/2001	2.10	8.38		
AE102961	1337-9	08/28/2001	ND	6.53		
N/A	Method Blank	08/27/2001	ND	ND		





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Telephone: (805)650-1642

Attn: Sucha Parmar

Page: 3

Project ID: 300-01-1337

### Site

Tracer-SM

AETL Job Number	Submitted	Client
19732	09/05/2001	AA&C

Method: (6010BSCAN), Arsenic and Lead in Filter Sample by ICP

## QUALITY CONTROL REPORT

QC Batch Number: 09072001 / 09072001

Analytes	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit	
Arsenic	1.00	0.99	99	1.00	1.04	104	4.9	80-120	<15	
Lead	1.00	0.91	91	1.00	0.92	92	1.0	80-120	<15	

QC Batch Number: 09072001 / 09072001

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Arsenic	1.00	0.99	99	80-120						
Lead	1.00	0.91	91	80-120						



Client/Project Name

Project Location

Project No.

Field Logbook No.

Sampler: (Signature)

Chain of Custody Tape No.

ANALYSES

Sample No. / Identification	Date	Time	Lab Sample Number	Type of Sample	REMARKS
1337-1	8-29-01	1600	AE 102953	Filter	X
-2	"	1330	AE 102954		
-3	"	1614	AE 102955		
-4	8-28-01	1533	AE 102956		
-5	"	1530	AE 102957		
-6	8-22-01	1625	AE 102958		
-7	"	1628	AE 102959		
-8	"	1630	AE 102960		

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

Relinquished by: (Signature)

Date

Time

Received for Laboratory: (Signature)

Date

Time

Sample Disposal Method:

Disposed of by: (Signature)

Date

Time

SAMPLE COLLECTOR

ANALYTICAL LABORATORY

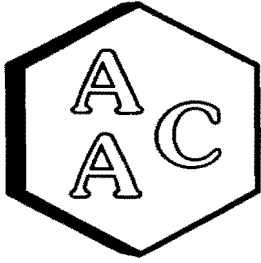
Sucha S. Parmar, Ph.D.  
President

ATMOSPHERIC ANALYSIS &amp; CONSULTING, INC.

Air Quality Analytical Laboratory







## Atmospheric Analysis & Consulting, Inc.

### *Laboratory Analysis Report*

CLIENT : Tracer

PROJECT NO. : Cal Spray H&S/300-01-1344

SAMPLE MEDIA : Filter

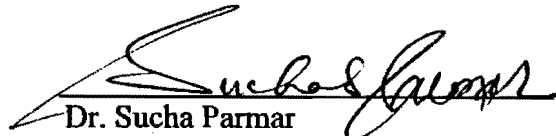
SAMPLING DATE : 9/05/2001

RECEIVING DATE : 9/10/2001

ANALYSIS DATE : 9/13/2001

REPORT DATE : 9/13/2001

Analysis Method- Gravimetric		
Client Sample ID	AAC Lab No.	TSP mg/sample
112415	1344-1	147
112416	1344-2	86
112417	1344-3	42

  
Dr. Sucha Parmar  
President





## Chain of Custody Record



COC Number AAC-005

Project Name Cal Spray H&amp;S

Project Location Watsonville

Project Number 164824.01.HS

Project Manager Keith Sheets

Sample Manager Michael Sanchez  
(530) 604-4901

Turnaround Time 21 days

QC Level 2

September 07, 2001

Lab 1 # AAC

Lab 2 #

CH2MHILL

For Lab Use

Sample Date/Time	Field ID	Type	Matrix	# Containers	Analysis Requested	Field Filtered	Remarks	Lab1	Lab 2
05-Sep-01 1459	112415	N	AIR	1	GenChem	<input type="checkbox"/>	Gravimetric		
				1	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers	2				
05-Sep-01 1456	112416	N	AIR	1	GenChem	<input type="checkbox"/>	Gravimetric		
				1	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers	2				
05-Sep-01 1453	112417	N	AIR	1	GenChem	<input type="checkbox"/>	Gravimetric		
				1	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers	2				

Signatures		Date/Time	Shipping Details		ATTN:	Special Instructions
Sampled by		9/5/01 1459	Method of Shipment	Airborne Expre:	Sample Custody and Sucha Pumar	Report Copy to Keith Sheets (510) 251-2426
Relinquished by		9/7/01 1231	Airbill No.			
Received by			Lab Name	Atmospheric Analysis & Consulting		
Relinquished by		9-10-01 1400	Lab Phone	(805) 650-1644		





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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Ordered By

Atmospheric Analysis & Consulting  
1534 Eastman Avenue Suite A  
Ventura, CA 93003

Telephone: (805) 650-1642  
Attention: Sucha Parmar

Number of Pages 2  
Date Received 09/14/2001  
Date Reported 09/24/2001

Job Number	Order Date	Client
19838	09/14/2001	AA&C

Project ID: 300-01-1344  
Site: Tracer-SM/CH2M Hill

Enclosed please find results of analyses of 3 solid waste samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By:

*Gary Kurek*

Approved By:

*C. Razmara*

Cyrus Razmara, Ph.D.  
Laboratory Director





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### ANALYTICAL RESULTS

**Ordered By**

Atmospheric Analysis & Consulting  
1534 Eastman Avenue  
Suite A  
Ventura, CA 93003

**Site**

Tracer-SM/CH2M Hill

Telephone: (805)650-1642

Attn: Sucha Parmar

Page: 2

Project ID: 300-01-1344

AETL Job Number	Submitted	Client
19838	09/14/2001	AA&C

Method: (6010BSCAN), Arsenic and Lead in filter sample by ICP

QC Batch Number: 09202001 / 09202001

Our Lab I.D.				AE103672	AE103673	AE103674	
Client Sample I.D.			Method Blank	1344-1	1344-2	1344-3	
Date Sampled			09/05/2001	09/05/2001	09/05/2001	09/05/2001	
Date Prepared			09/20/2001	09/20/2001	09/20/2001	09/20/2001	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			09/21/2001	09/21/2001	09/21/2001	09/21/2001	
Matrix			Solid Waste	Solid Waste	Solid Waste	Solid Waste	
Units			ug/Sample	ug/Sample	ug/Sample	ug/Sample	
Dilution Factor			1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	
Arsenic	0.10	0.10	ND	10.5	17.1	4.1	
Lead	0.05	0.05	ND	12.1	17.6	6.2	

### QUALITY CONTROL REPORT

QC Batch Number: 09202001 / 09202001

Analytes	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit	
Arsenic	1.00	1.01	101	1.00	1.03	103	1.9	80-120	<15	
Lead	1.00	0.94	94	1.00	0.92	92	2.1	80-120	<15	

QC Batch Number: 09202001 / 09202001

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Arsenic	1.00	1.01	101	80-120						
Lead	1.00	0.94	94	80-120						





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### Data Qualifiers and Descriptors

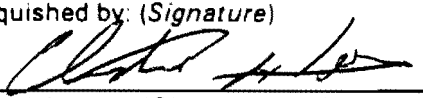
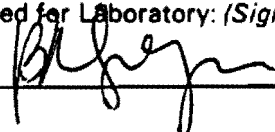

#### *Data Qualifier:*

- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).

#### *Definition:*

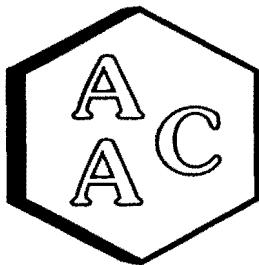
- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.
- MS: Matrix Spike
- MS DU: Matrix Spike Duplicate
- ND: Analyte was not detected in the sample at or above MDL.
- PQL: Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
- Recov: Recovered concentration in the sample.
- RPD: Relative Percent Difference



Client/Project Name <b>AAC</b>			Project Location <b>Tracer-SM / CH<sub>2</sub>M Hill</b>			ANALYSES  <div style="border: 1px solid black; padding: 10px; transform: rotate(-45deg); display: inline-block;">Lead &amp; Arsenic</div> <div style="position: absolute; top: 10%; right: 10%; font-size: 2em;">19838</div>					
Project No. <b>300-01-1344</b>			Field Logbook No.								
Sampler: (Signature)			Chain of Custody Tape No.								
Sample No. / Identification	Date	Time	Lab Sample Number	Type of Sample	REMARKS						
1344-1	9-5-01	1459	AE 103672	F, / 421	X						
-2	9-5-01	1456	AE 103673	"	X						
-3	9-5-01	1453	AE 103674	"	X						
Relinquished by: (Signature) 				Date <b>9-13-01</b>	Time <b>5:00</b>	Received by: (Signature)				Date	Time
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time
Relinquished by: (Signature)				Date	Time	Received for Laboratory: (Signature) 				Date <b>9/14/01</b>	Time <b>8A</b>
Sample Disposal Method:				Disposed of by: (Signature)				Date	Time		
SAMPLE COLLECTOR				ANALYTICAL LABORATORY				 <b>Sucha S. Parmar, Ph.D.</b> President			
								<b>ATMOSPHERIC ANALYSIS &amp; CONSULTING, INC.</b> Air Quality Analytical Laboratory			







## Atmospheric Analysis & Consulting, Inc.

### *Laboratory Analysis Report*

CLIENT : Tracer

PROJECT NO. : Cal Spray H&S/300-01-1345

SAMPLE MEDIA : Filter


SAMPLING DATE : 9/11/2001

RECEIVING DATE : 9/13/2001

ANALYSIS DATE : 9/13/2001

REPORT DATE : 9/13/2001

Analysis Method- Gravimetric		
Client Sample ID	AAC Lab No.	TSP mg/sample
112412	1345-1	100
112413	1345-2	355
112414	1345-3	50

  
Dr. Sucha Parmar  
President





## Chain of Custody Record

COC Number AAC-006

Project Name Cal Spray H&amp;S

Project Location Watsonville

Project Number 164824.01.HS

Project Manager Keith Sheets

Sample Manager Michael Sanchez  
(530) 604-4901

Turnaround Time 21 days

QC Level 2

September 12, 2001


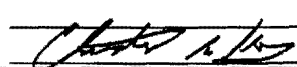
Lab 1 # AAC

Lab 2 #

CH2MHILL

For Lab Use

Sample Date/Time	Field ID	Type	Matrix	# Containers	Analysis Requested	Field Filtered	Remarks	Lab1	Lab 2
11-Sep-01 1432	1345-1 112412	N	AIR	1	GenChem	<input type="checkbox"/>	Gravimetric		
				10	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers	11 MS				
11-Sep-01 1434	-2 112413	N	AIR	1	GenChem	<input type="checkbox"/>	Gravimetric		
				10	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers	11 MS				
11-Sep-01 1438	-3 112414	N	AIR	1	GenChem	<input type="checkbox"/>	Gravimetric		
				10	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers	11 MS				

Signatures	Date/Time	Shipping Details	ATTN:	Special Instructions
Sampled by 	9/11/01 1438	Method of Shipment Airborne Express		
Relinquished by _____	_____	Airbill No. _____	Sample Custody	Report Copy to
Received by _____	_____	Lab Name Atmospheric Analysis & Consulting	and	Keith Sheets
Relinquished by _____	_____	Lab Phone (805) 650-1644	Sucha Pumar	(510) 251-2426
Received by 	9-13-01 1030			





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### Ordered By

Atmospheric Analysis & Consulting  
1534 Eastman Avenue Suite A  
Ventura, CA 93003

Telephone: (805) 650-1642  
Attention: Sucha Parmar

Number of Pages 3

Date Received 09/14/2001

Date Reported 09/25/2001

Job Number	Order Date	Client
19837	09/14/2001	AA&C

Project ID: 300-01-1345  
Site: Tracer-SM Cal Spray H+S

Enclosed please find results of analyses of 3 solid waste samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



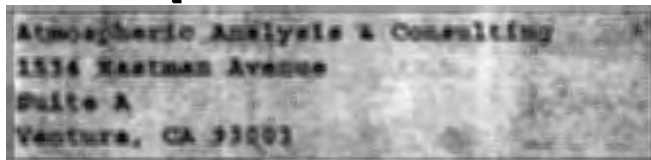


## American Environmental Testing Laboratory Inc.

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### ANALYTICAL RESULTS

#### Ordered By



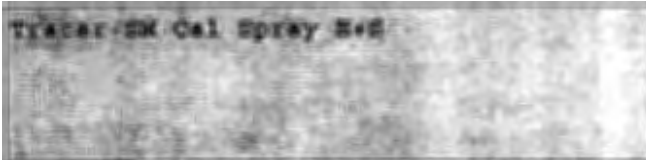
Telephone: (805) 650-1642

Attn: Sucha Parmar

Page 2

Project ID: 300-01-1345

#### Site



AETL Job Number	Submitted	Client
19837	09/14/2001	AA&C

Analytes			Asenic	Lead		
Methods of Analyses			(6010BSCAN)	(6010BSCAN)		
Date Prepared			09/20/2001	09/20/2001		
Date Analyzed			09/21/2001	09/21/2001		
Matrix			Solid Waste	Solid Waste		
QC Batch Number			09202001 / 09202001	09202001 / 09202001		
Units			ug/Sample	ug/Sample		
Detection Limit			0.10	0.05		
Practical Quantitation Limit			0.10	0.05		
Dilution Factor			1	1		
Lab ID	Sample ID	Sampled	Results	Results		
AE103669	1345-1	09/11/2001	6.32	13.3		
AE103670	1345-2	09/11/2001	69.8	75.0		
AE103671	1345-3	09/11/2001	2.38	6.28		
N/A	Method Blank	09/11/2001	ND	ND		





# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Atmospheric Analysis & Consulting  
1534 Eastman Avenue  
Suite A  
Ventura, CA 93003

### Site

Tracer-SM Cal Spray H+S

Telephone: (805)650-1642

Attn: Sucha Parmar

Page: 3

Project ID: 300-01-1345

AETL Job Number	Submitted	Client
19837	09/14/2001	AA&C

Method: (6010BSCAN), Arsenic and Lead in filter sample by ICP

## QUALITY CONTROL REPORT

QC Batch Number: 09202001 / 09202001

Analytes	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit	
Arsenic	1.00	1.01	101	1.00	1.03	103	1.9	80-120	<15	
Lead	1.00	0.94	94	1.00	0.92	92	2.1	80-120	<15	

QC Batch Number: 09202001 / 09202001

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Arsenic	1.00	1.01	101	80-120						
Lead	1.00	0.94	94	80-120						





## American Environmental Testing Laboratory Inc.

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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).


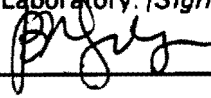
#### ***Definition:***


- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.
- MS: Matrix Spike
- MS DU: Matrix Spike Duplicate
- ND: Analyte was not detected in the sample at or above MDL.
- PQL: Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
- Recov: Recovered concentration in the sample.
- RPD: Relative Percent Difference



Client/Project Name <b>AAC</b>			Project Location <b>Tracer-SM (Cal Spray H2S)</b>			ANALYSES  <div style="transform: rotate(-45deg); display: inline-block;">Lead &amp; Arsenic</div> <div style="font-size: 2em; margin-top: 20px;">119837</div>					
Project No. <b>30U-01-1345</b>			Field Logbook No.								
Sampler: (Signature)			Chain of Custody Tape No.								

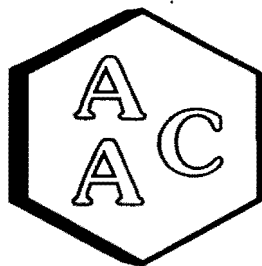
Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample								REMARKS
1345-1	9-11-01	1432	AE 103669	Filter	X							
1345-2	9-11-01	1434	AE 103670	↓	X							
1345-3	9-11-01	1438	AE 103671	↓	X							

Relinquished by: (Signature) 			Date 9-13-01	Time 530D	Received by: (Signature)			Date	Time
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time
Relinquished by: (Signature)			Date	Time	Received for Laboratory: (Signature) 			Date 9/19/01	Time 8AM
Sample Disposal Method:			Disposed of by: (Signature)			Date			Time

SAMPLE COLLECTOR	ANALYTICAL LABORATORY	  <b>Sucha S. Parmar, Ph.D</b> President
		<b>ATMOSPHERIC ANALYSIS &amp; CONSULTING, INC.</b> Air Quality Analytical Laboratory







## Atmospheric Analysis & Consulting, Inc.

---

### *Laboratory Analysis Report*

CLIENT : Tracer

PROJECT NO. : Cal Spray H&S/300-01-1360

SAMPLE MEDIA : Filter

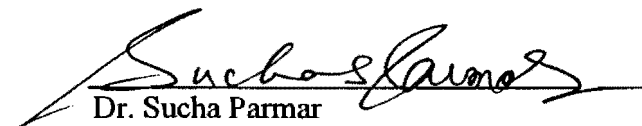
SAMPLING DATE : 10/10/2001

RECEIVING DATE : 10/11/2001

ANALYSIS DATE : 10/15/2001

REPORT DATE : 10/15/2001

Analysis Method- Gravimetric		
Client Sample ID	AAC Lab No.	TSP mg/sample
112410	1360-1	12
112411	1360-2	50

  
Dr. Sucha Parmar  
President





3 11-01-100



# Chain of Custody Record

COC Number AAC-007  
Project Name Cal Spray H&S  
Project Location Watsonville

Project Number 164824.01.HS  
Project Manager Keith Sheets  
Sample Manager Michael Sanchez  
(530) 604-4901

October 10, 2001

Turnaround Time 21 days  
QC Level 2

Lab 1 # AAC

Lab 2 #

CH2MHILL

For Lab Use

Sample Date/Time	Field ID	Type	Matrix	# Containers	Analysis Requested	Field Filtered	Remarks	Lab1	Lab 2
10-Oct-01 1048	1360-1 112410	N	AIR	1	GenChem	<input type="checkbox"/>	Gravimetric		
				26	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers 27 MS					
10-Oct-01 1044	1360-2 112411	N	AIR	1	GenChem	<input type="checkbox"/>	Gravimetric		
				26	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers 27 MS					

Signatures		Date/Time	Shipping Details		ATTN:	Special Instructions
Sampled by		10/10/01 1048	Method of Shipment	Airborne Expre:	Sample Custody and Sucha Pumar	Report Copy to Keith Sheets (510) 251-2426
Relinquished by		10/10/01 0940	Airbill No.			
Received by		10/11/01 1000	Lab Name	Atmospheric Analysis & CoOnsulting		
Relinquished by			Lab Phone	(805) 650-1644		
Received by						



Client Project Name <b>AAC</b>			Project Location <b>Traccon-SM (C) Spray Hds</b>			ANALYSES <div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;">Lead &amp; Arsenic</div>						
Project No. <b>300-01-1360</b>			Field Logbook No.									
Sampler: (Signature)			Chain of Custody Tape No.									
Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample							REMARKS	
1360-1	10/12/01	1048		P, 1/fer	X							
1360-2	10/10/01	1044		✓	X							
Relinquished by: (Signature) <i>[Signature]</i>				Date 10-11-01	Time 5:00	Received by: (Signature)				Date	Time	
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time	
Relinquished by: (Signature)				Date	Time	Received for Laboratory: (Signature)				Date	Time	
Sample Disposal Method:				Disposed of by: (Signature)				Date	Time			
SAMPLE COLLECTOR				ANALYTICAL LABORATORY				Sucha S. Parmar, Ph.D President				



**ATMOSPHERIC ANALYSIS & CONSULTING, INC.**  
Air Quality Analytical Laboratory

1534 Eastman Avenue, Suite A  
Ventura, California 93003



(805) 650-1642  
FAX (805) 650-1644





## American Environmental Testing Laboratory Inc.

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### Ordered By

Atmospheric Analysis & Consulting  
1534 Eastman Avenue Suite A  
Ventura, CA 93003

Number of Pages 2

Date Received 10/12/2001

Date Reported 10/19/2001

Telephone: (805) 650-1642

Attention: Sucha Parmar

Job Number	Order Date	Client
20048	10/12/2001	AA&C

Project ID: 300-01-1360

Project Name: Tracer-SM (Cal Spray H&S)

Enclosed please find results of analyses of 2 solid waste samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By:                     a                    

Approved By:                     C. Razmara                    

Cyrus Razmara, Ph.D.  
Laboratory Director



Client Project Name <b>AAC</b>		Project Location <b>Tracer-SM (Ca) Spray Hds</b>		ANALYSES	
Project No. <b>300-01-1360</b>		Field Logbook No.		<div style="display: flex; justify-content: space-between;"> <div style="transform: rotate(-45deg); white-space: nowrap;">Lead + Arsenic</div> <div style="font-size: 2em;">20048</div> </div>	
Sampler: (Signature)		Chain of Custody Tape No.			


  

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	X	X	X	X	X	X	REMARKS
1360-1	10/12/01	1048	AE104764	P, 1/2ea	X						
1360-2	10/10/01	1044	AE104765	✓	X						

Relinquished by: (Signature) <i>[Signature]</i>		Date 10-11-01	Time 5:00	Received by: (Signature)		Date	Time
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time
Relinquished by: (Signature)		Date	Time	Received for Laboratory: (Signature) <i>[Signature]</i>		Date 10/12/01	Time 10 AM
Sample Disposal Method:		Disposed of by: (Signature)				Date	Time

SAMPLE COLLECTOR	ANALYTICAL LABORATORY	 <b>Sucha S. Parmar, Ph.D</b> President
		<b>ATMOSPHERIC ANALYSIS &amp; CONSULTING, INC.</b> Air Quality Analytical Laboratory





## American Environmental Testing Laboratory Inc.

2834 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### ANALYTICAL RESULTS

#### Ordered By

Atmospheric Analysis & Consulting  
1534 Eastman Avenue  
Suite A  
Ventura, CA 93003

Telephone: (805)650-1642

Attn: Sucha Parmar

Page: 2

Project ID: 300-01-1360

Project Name: Tracer-SM (Cal Spray H&S)

AETL Job Number	Submitted	Client
20048	10/12/2001	AA&C

Method: (6010BSCAN), Arsenic and Lead in Filter Sample by ICP

QC Batch Number: 10172001 / 10172001

Our Lab I.D.			AE104764	AE104765		
Client Sample I.D.		Method Blank	1360-1	1360-2		
Date Sampled		10/10/2001	10/10/2001	10/10/2001		
Date Prepared		10/17/2001	10/17/2001	10/17/2001		
Preparation Method		3050B	3050B	3050B		
Date Analyzed		10/17/2001	10/17/2001	10/17/2001		
Matrix		Solid Waste	Solid Waste	Solid Waste		
Units		ug/Sample	ug/Sample	ug/Sample		
Dilution Factor		1	1	1		
Analytes	MDL	PQL	Results	Results	Results	
Arsenic	0.10	0.10	ND	3.4	2.2	
Lead	0.05	0.05	ND	5.5	6.0	

### QUALITY CONTROL REPORT

QC Batch Number: 10172001 / 10172001

Analytes	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit	
Arsenic	1.00	1.01	101	1.00	1.01	101	<1	80-120	<15	
Lead	1.00	0.94	94	1.00	0.93	93	1.0	80-120	<15	

QC Batch Number: 10172001 / 10172001

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Arsenic	1.00	1.01	101	80-120						
Lead	1.00	0.94	94	80-120						





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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.
- MS: Matrix Spike
- MS DU: Matrix Spike Duplicate
- ND: Analyte was not detected in the sample at or above MDL.
- PQL: Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
- Recov: Recovered concentration in the sample.
- RPD: Relative Percent Difference



**Appendix E**  
**Soil Boring Logs and Monitoring Well Completion Diagrams**





PROJECT NUMBER  
**166867.01.MW**

BORING NUMBER  
**MW-1**

SHEET 1 OF 2

## SOIL BORING LOG

PROJECT : Chevron Cal Spray

LOCATION : Off of Walker Street, near NW corner of Dixon Tire Building, Watsonville, CA

ELEVATION : Approx. 26 feet (NGVD 29 datum)

DRILLING CONTRACTOR : Spectrum Exploration, Stockton, CA

LOGGER : D. Ritzman

DRILLING METHOD AND EQUIPMENT USED : Truck-mounted CME 55 Rig with 8" diam. Hollow-Stem Auger, Automatic Trip Hammer System

WATER LEVELS : Approx. 22 ft. bgs (2/19/02, 1030)

START : 02/19/02, 0940

END : 02/19/02, 1130

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)			STANDARD	SOIL DESCRIPTION	COMMENTS	
		RECOVERY (FT)	#/TYPE	PENETRATION			
				TEST			
				RESULTS			
				6"-6"-6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION.	
5	5.0					SANDY LEAN CLAY (CL), mottled yellowish brown with some brownish orange, moist, stiff	Approx. 4 inches asphalt-concrete pavement at surface
	6.5	1.5	S-1	3 - 6 - 11 (17)			
10	10.0					POORLY GRADED SAND WITH SILT (SP-SM), dark yellowish brown 10YR 4/6, moist, medium dense, with minor amount of gravel	
	11.5	1.5	S-2	7 - 9 - 10 (19)			
15	15.0					POORLY GRADED SAND (SP), similar to above, light olive to yellowish brown, moist, medium dense, generally coarse sand with approx. 1-inch thick lens of silt near top of sample	
	16.5	1.5	S-3	4 - 7 - 8 (15)			
20	20.0					POORLY GRADED SAND WITH SILT (SP-SM), similar to above, coarse sand, approx. 3-inch thick lens of silt near middle of sample	* 2.5-inch ID split-spoon sampler
	21.5	1.5	MC-4	6 - 7 - 12 (19*)			
	23.0	1.5	M-5	9 - 15 - 15 (30**)	POORLY GRADED SAND (SP), light brown, moist to wet, medium dense, medium sand	** 2.0-inch ID split-spoon sampler Loose, saturated, fine, gray sand (slough) at top of sample	
	24.5	1.5	S-6	6 - 6 - 10 (16)	POORLY GRADED SAND (SP), similar to above, wet, coarser sand particles		
	25.0						
25	26.5	1.5	MC-7	*	POORLY GRADED SAND WITH SILT (SP-SM), similar to above, with bands of more silty material and some gravel-sized particles	* 2.5-inch ID split-spoon sampler blows not recorded	
	28.0	1.5	M-8	**	POORLY GRADED SAND WITH SILT (SP-SM), similar to above, medium sand, without gravel		
30	29.5	1.5	S-9	2 - 9 - 12 (21)	POORLY GRADED SAND WITH SILT (SP-SM), similar to above, grading from coarse sand near top to fine sand near bottom of sample	** 2.0-inch ID split-spoon sampler blows not recorded	





PROJECT NUMBER  
**166867.01.MW**

BORING NUMBER  
**MW-1**

SHEET 2 OF 2

## SOIL BORING LOG

PROJECT : Chevron Cal Spray

LOCATION : Off of Walker Street, near NW corner of Dixon Tire Building, Watsonville, CA

ELEVATION : Approx. 26 feet (NGVD 29 datum)

DRILLING CONTRACTOR : Spectrum Exploration, Stockton, CA

LOGGER : D. Ritzman

DRILLING METHOD AND EQUIPMENT USED : Truck-mounted CME 55 Rig with 8" diam. Hollow-Stem Auger, Automatic Trip Hammer System

WATER LEVELS : Approx. 22 ft. bgs (2/19/02, 1030)

START : 02/19/02, 0940

END : 02/19/02, 1130

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)			STANDARD	SOIL DESCRIPTION	COMMENTS
		RECOVERY (FT)	#/TYPE	PENETRATION	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION.
		TEST RESULTS				
		6"-6"-6" (N)				
	33.0					
	34.5	1.5	S-10	2 - 4 - 8 (12)	POORLY GRADED SAND (SP), brown, wet, medium dense, similar to above, without visible silt layers or gravel, medium sand	Driller notes approx. 8 to 12 inches of sloughed material in bottom of hole
35					End of Boring at 34.5 feet bgs 2/19/02, 1130	Prior to setting the well casing, approx. 5 feet of sandy, loose material sloughed into the bottom of the hole. Driller flushed sloughed material from the hole with water from the drill rig.  Bottom of PVC casing set at 33 feet bgs  Boring completed with a 2-inch diameter PVC well, screened from 22 to 32 feet bgs.
40						
45						
50						
55						
60						





PROJECT NUMBER  
**166867.01.MW**

BORING NUMBER  
**MW-2**

SHEET 1 OF 2

## SOIL BORING LOG

PROJECT : Chevron Cal Spray

LOCATION : Approximately 100 feet west from the east corner of the Dixon Tire lot, Watsonville, CA

ELEVATION : Approx. 25.5 feet (NGVD 29 datum)

DRILLING CONTRACTOR : Spectrum Exploration, Stockton, CA

LOGGER : D. Ritzman

DRILLING METHOD AND EQUIPMENT USED : Truck-mounted CME 55 Rig with 8" diam. Hollow-Stem Auger, Automatic Trip Hammer System

WATER LEVELS : Approx. 13 ft. bgs (2/20/02, 1015)

START : 02/20/02, 0915

END : 02/20/02, 1015

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)			STANDARD	SOIL DESCRIPTION	COMMENTS
		RECOVERY (FT)	#/TYPE	PENETRATION		
				TEST		
				RESULTS		
				6"-8"-6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION.
5	5.0					Approx. 3 inches asphalt-concrete pavement at surface
	6.5	0.8	S-1	1 - 2 - 3 (5)	LEAN CLAY (CL), dark gray with some reddish-orange mottling, moist, firm	
10						GWT measured at 13.0 ft. bgs, 1015
	11.5	1.5	S-2	1 - 2 - 1 (3)	ORGANIC SILT (OL), dark gray to black, moist, very soft to soft, with specks of white-yellow crystalline sulfur, strong sulfur odor, fine grained, low plasticity	
15	15.0					PP = 1.5, 2.0, 2.25 tsf
	16.5	1.5	S-3	2 - 5 - 6 (11)	FAT CLAY (CH), gray with orange mottling, moist, stiff	
20						* 2.5-inch ID split-spoon sampler
	20.0					
	21.5	0.2	MC-4	3 - 5 - 5 (10*)	LEAN CLAY WITH SAND (CL), similar to above, more sandy, lower plasticity	
25	23.0	1.5	M-5	2 - 3 - 5 (8**)	LEAN CLAY WITH SAND (CL), similar to above, becoming CLAYEY SAND (SC) near bottom of sample, gray with orange mottling, moist to wet	** 2.0-inch ID split-spoon sampler PP (top) = 1.0, 1.5 tsf
	24.5	1.0	S-6	2 - 3 - 3 (6)	CLAYEY SAND (SC), similar to above, grading to SANDY LEAN CLAY (CL), gray, moist, firm, with plant fibers and other organic material	
	25.0					
30	26.5	1.5	MC-7	3 - 6 - 8 (14*)	SILTY SAND (SM), gray, wet, medium dense, becoming more sandy with depth, fine sand	* 2.5-inch ID split-spoon sampler blows not recorded
	28.0	1.5	M-8	4 - 8 - 11 (19**)	POORLY GRADED SAND WITH SILT (SP-SM), gray, wet, medium dense, fine sand	
	29.5	1.5	S-9	2 - 6 - 8 (14)	POORLY GRADED SAND WITH SILT (SP-SM), similar to above	

PP = 1.5, 2.0, 2.25 tsf

\* 2.5-inch ID split-spoon sampler

\*\* 2.0-inch ID split-spoon sampler  
PP (top) = 1.0, 1.5 tsf

\* 2.5-inch ID split-spoon sampler  
blows not recorded

\*\* 2.0-inch ID split-spoon sampler  
blows not recorded





<b>PROJECT NUMBER</b> <b>166867.01.MW</b>	<b>BORING NUMBER</b> <b>MW-2</b>
<b>SHEET 2 OF 2</b>	
<b>SOIL BORING LOG</b>	

**PROJECT :** Chevron Cal Spray      **LOCATION :** Approximately 100 feet west from the east corner of the Dixon Tire lot, Watsonville, CA  
**ELEVATION :** Approx. 25.5 feet (NGVD 29 datum)      **DRILLING CONTRACTOR :** Spectrum Exploration, Stockton, CA      **LOGGER :** D. Ritzman  
**DRILLING METHOD AND EQUIPMENT USED :** Truck-mounted CME 55 Rig with 8" diam. Hollow-Stem Auger, Automatic Trip Hammer System  
**WATER LEVELS :** Approx. 13 ft. bgs (2/20/02, 1015)      **START :** 02/20/02, 0915      **END :** 02/20/02, 1015

DEPTH BELOW SURFACE (FT)				STANDARD	SOIL DESCRIPTION	COMMENTS
	INTERVAL (FT)		#/TYPE	PENETRATION	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION.
	RECOVERY (FT)			TEST RESULTS		
				6"-6"-6" (N)		
					End of Boring at 30.0 feet bgs 2/20/02, 1015	Bottom of PVC casing set at 30 feet bgs  Boring completed with a 2-inch diameter PVC well, screened from 19 to 29 feet bgs.
35						
40						
45						
50						
55						
60						





<b>PROJECT NUMBER</b> <b>166867.01.MW</b>	<b>BORING NUMBER</b> <b>MW-3</b>
<b>SHEET 1 OF 2</b>	
<b>SOIL BORING LOG</b>	

PROJECT : Chevron EMC Cal Spray, Watsonville	LOCATION : Locust/Riverside	
ELEVATION :	DRILLING CONTRACTOR : Gregg Drilling	LOGGER : K. Sheets
DRILLING METHOD AND EQUIPMENT USED : Rhino D-14 Limited Access Rig - 8" HSA		
WATER LEVELS :	START : 03/19/02,	END : 03/19/02,

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)			STANDARD	SOIL DESCRIPTION	COMMENTS
		RECOVERY (FT)	#/TYPE	PENETRATION		
				TEST		
				RESULTS		
				6"-6"-6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION.
5	5.0				SILTY CLAY (CL), dark olive 5Y, 3/2 mottled with reddish-brown FeO <sub>2</sub> , moist, soft, medium plasticity	Hand augered to 5' Samples hammer-driven (no blowcounts)
	6.5	1/1.5				
10	10.0				SANDY CLAY (CL), grading to clayey sand (SC), dark greenish gray 2.5, 10y firm to soft, medium plasticity, moist	
	11.5	0.8/1.5				
15	15.0				ORGANIC CLAY (OH), black, 95% fines, firm, low plasticity, strong, H <sub>2</sub> S odor	
	16.5	1.5/1.5				
20	20.0				SILT (ML), mottled gray and reddish-brown, firm, moist, low plasticity, trace organic fragments.	
	21.5	2/2				
25	23.0	1.5			Similar to above	No recovery 23.5-25.0'
	24.5	1.0				
	25.0					
	26.5	1.5	MC-7			
30	28.0	1.5	M-8	4 - 8 - 11 (19**)	CLAY (CL), dark greenish gray 3/1, 10G, moist, soft to firm, high plasticity.	Likely sand driller notes sand on rods, abundant water in boring
	29.5	1.5	S-9	2 - 6 - 8 (14)		





PROJECT NUMBER  
166867.01.MW

BORING NUMBER  
MW-3

SHEET 2 OF 2

## SOIL BORING LOG

PROJECT: Chevron EMC Cal Spray, Watsonville LOCATION: Locust/Riverside

ELEVATION: DRILLING CONTRACTOR: Gregg Drilling

LOGGER: K. Sheets

DRILLING METHOD AND EQUIPMENT USED: Rhino D-14 Limited Access Rig - 8" HSA

WATER LEVELS: START: 03/19/02,

END: 03/19/02,

DEPTH BELOW SURFACE (FT)	STANDARD			SOIL DESCRIPTION	COMMENTS
	PENETRATION				
	TEST RESULTS				
	6"-6"-6" (N)				
INTERVAL (FT)	RECOVERY (FT)	#/TYPE			
				End of Boring at 30.0 feet bgs 03/19/02,	
35					
40					
45					
50					
55					
60					



**CH2MHILL**PROJECT NUMBER:  
**166867.01.MW**BORING NUMBER:  
**MW-1**SHEET **1** OF **1****WELL COMPLETION DIAGRAM**PROJECT NAME: **Chevron Cal-Spray**LOCATION: **Watsonville, California**GROUND SURFACE ELEVATION: **26 feet MSL**DRILLING CONTRACTOR: **Spectrum Exploration**DRILLING METHOD AND EQUIPMENT: **CME 55 truck-mounted drill rig with 8-inch diameter hollow-stem augers**

WATER LEVELS, DATE, AND TIME:

**Approx. 22 feet BGS on 2/19/02, 1030**

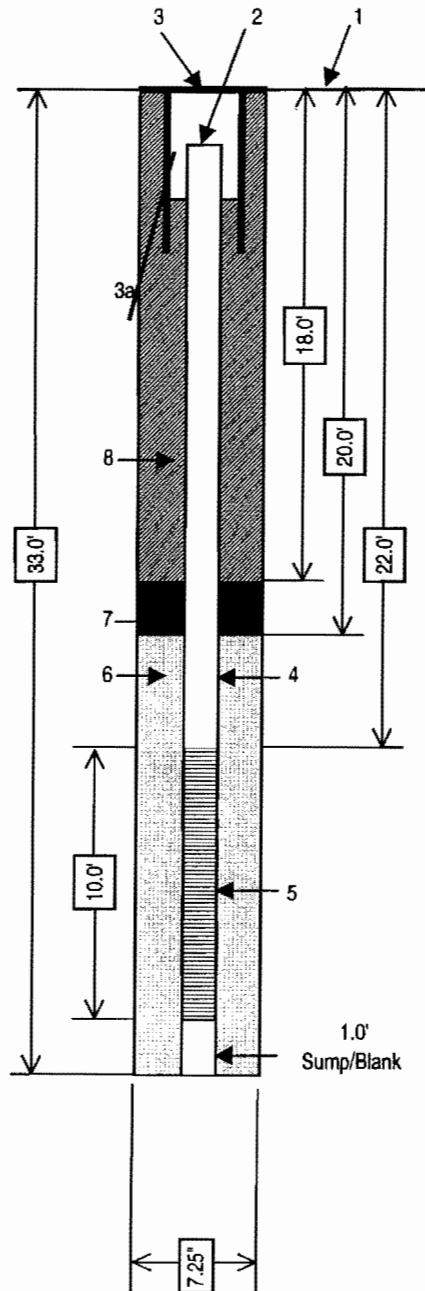
DRILLING START DATE &amp; TIME:

**2/19/02, 0940**

DRILLING FINISH DATE &amp; TIME:

**2/19/02, 1130**

LOGGER:

**D. Ritzman****SURVEY DATA**

1. Ground surface elevation at well:

2. Top of casing elevation:

**WELL CONSTRUCTION**3. Wellhead protection cover type: **Flush-Mounted Well Box with Metal Lid**a) Drain tube installed (Yes/No)? **No**b) Metal cover dimensions: **8-inch diameter**4. Diameter and type of well casing: **2-inch diameter, Schedule 40 PVC**5. Type and slot size of screen: **0.020-inch slotted screen**

6. Filter Pack:

a) Type of material: **#2/12 Monterey Sand (RMC Pacific)**b) Quantity used: **Approx. 325 lbs**7. Type of seal: **Bentonite**a) Type of material: **3/8 inch diameter, hydrated Bentonite pellets**b) Quantity used: **Approx. 50 lbs**

8. Grout:

a) Grout mix used: **Neat Cement (approx. 1 sack cement per 6 gallons water)**b) Method of placement: **Tremie**c) Quantity of well casing grout: **Approx. 35 gallons****DEVELOPMENT**

Development method:

Development time:

Estimated purge volume:

**COMMENTS**



**CH2MHILL**PROJECT NUMBER:  
**166867.01.MW**BORING NUMBER:  
**MW-2**SHEET **1** OF **1****WELL COMPLETION DIAGRAM**PROJECT NAME: **Chevron Cal-Spray**LOCATION: **Watsonville, California**GROUND SURFACE ELEVATION: **25.5 feet MSL**DRILLING CONTRACTOR: **Spectrum Exploration**DRILLING METHOD AND EQUIPMENT: **CME 55 truck-mounted drill rig with 8-inch diameter hollow-stem augers**

WATER LEVELS, DATE, AND TIME:

**13.0 feet BGS on 2/20/02, 1015**

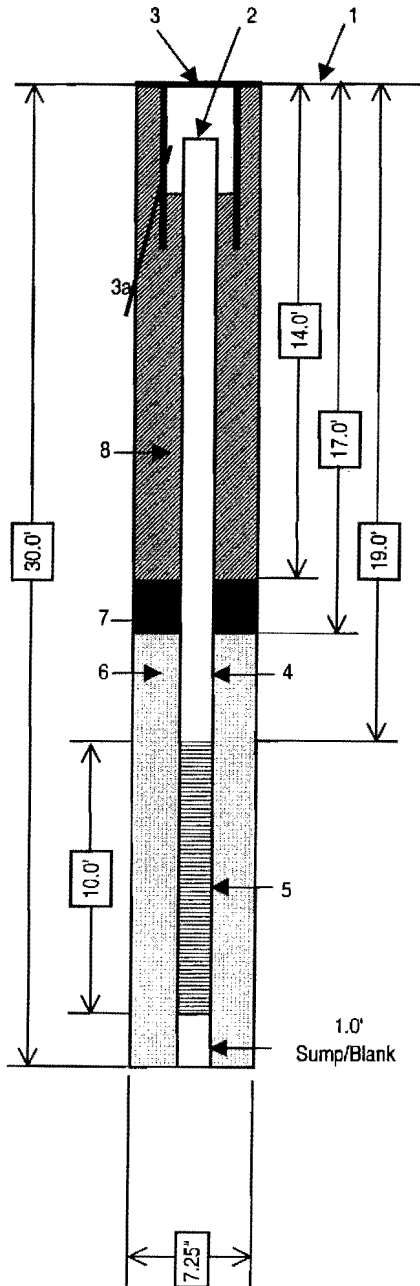
DRILLING START DATE &amp; TIME:

**2/20/02, 0915**

DRILLING FINISH DATE &amp; TIME:

**2/20/02, 1015**

LOGGER:

**D. Ritzman****SURVEY DATA**

1. Ground surface elevation at well:

2. Top of casing elevation:

**WELL CONSTRUCTION**3. Wellhead protection cover type: **Flush-Mounted Well Box with Metal Lid**a) Drain tube installed (Yes/No)?: **No**b) Metal cover dimensions: **8-inch diameter**4. Diameter and type of well casing: **2-inch diameter, Schedule 40 PVC**5. Type and slot size of screen: **0.020-inch slotted screen**

6. Filter Pack:

a) Type of material: **#2/12 Monterey Sand (RMC Pacific)**b) Quantity used: **Approx. 350 lbs**7. Type of seal: **Bentonite**a) Type of material: **3/8" diameter, hydrated Bentonite pellets**b) Quantity used: **Approx. 50 lbs**

8. Grout:

a) Grout mix used: **Neat Cement (approx. 1 sack cement per 6 gallons water)**b) Method of placement: **Tremie**c) Quantity of well casing grout: **Approx. 25 gallons****DEVELOPMENT**

Development method:

Development time:

Estimated purge volume:

**COMMENTS**



**CH2MHILL**

PROJECT NUMBER:

**166867.01.MW**

BORING NUMBER:

**MW-3**SHEET **1** OF **1****WELL COMPLETION DIAGRAM**PROJECT NAME: **Chevron EMC Cal Spray, Watsonville**LOCATION: **Watsonville, CA**GROUND SURFACE ELEVATION: **23.7 feet MSL**DRILLING CONTRACTOR: **Gregg Drilling**DRILLING METHOD AND EQUIPMENT: **Rhino D-14 Limited Access Rig - 8" HAS**

WATER LEVELS, DATE, AND TIME:

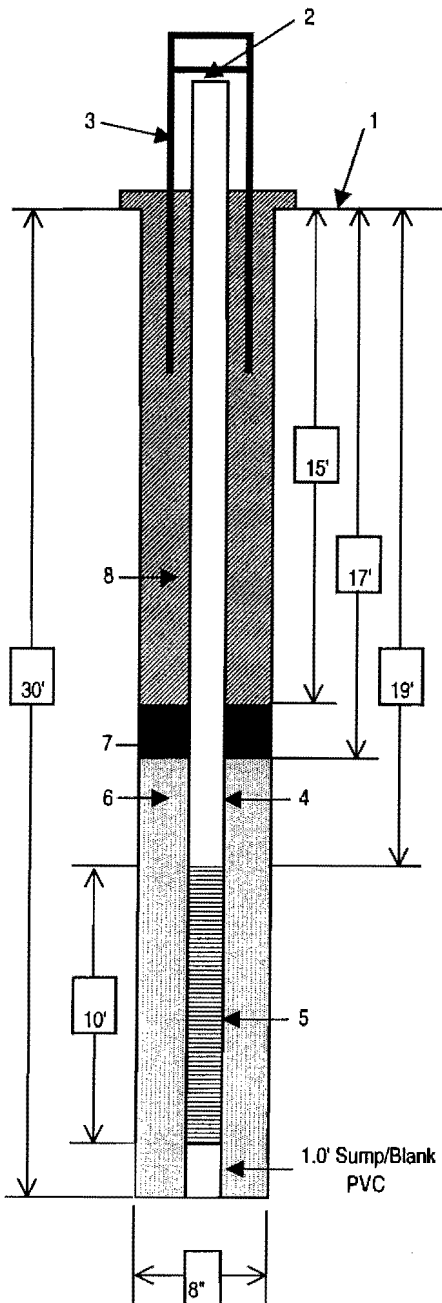
DRILLING START DATE &amp; TIME:

**03/19/2002**

DRILLING FINISH DATE &amp; TIME:

**03/19/2002**

LOGGER:

**K. Sheets****SURVEY DATA**

1. Ground surface elevation at well:
2. Top of casing elevation:

**WELL CONSTRUCTION**

3. Wellhead protection cover type: **Flush-Mounted Well Box with Metal Lid**
  - a) Drain hole drilled (Yes/No)?: **No**
  - b) Concrete cover dimensions: **8-inch diameter**
4. Diameter and type of well casing: **2-inch diameter, Schedule 40 PVC**
5. Type and slot size of screen: **0.0020-inch slotted screen**
6. Filter Pack:
  - a) Type of material: **#2/12 Monterey Sand (RMC Pacific)**
  - b) Quantity used: **Approx. 325 lbs.**
7. Type of seal: **Bentonite**
  - a) Type of material: **3/8" diameter, hydrated Bentonite pellets**
  - b) Quantity used: **Approx. 50 lbs**
8. Grout:
  - a) Grout mix used: **Neat Cement (approx. 1 sack cement per 6 gallons water)**
  - b) Method of placement: **Tremie**
  - c) Quantity of well casing grout: **Approx. 35 gallons**

**DEVELOPMENT**Development method: **Swabbing, bailing, pumping**

Development time:

Estimated purge volume:

**COMMENTS**



**Appendix F**  
**DTSC Approval Letter for Asphalt Pavement Re-Design**





# Department of Toxic Substances Control



Winston H. Hickox  
Agency Secretary  
California Environmental  
Protection Agency

Edwin F. Lowry, Director  
700 Heinz Avenue, Suite 200  
Berkeley, California 94710-2721

Gray Davis  
Governor

September 6, 2001

**FILE COPY**

Chevron EMC  
Attn. Mr. Curt Peck  
Environmental Projects Manager  
6001 Bollinger Canyon Road  
K2088  
P.O. Box 6047  
San Ramon, California 94583-0947

Dear Mr. Peck:

**ASPHALT PAVEMENT SPECIFICATION IMPROVEMENTS, CALSPRAY SITE,  
WATSONVILLE CALIFORNIA.**

The Department of Toxic Substances Control (DTSC) has reviewed the modified pavement design specifications for the engineered cap at the California Spray and Chemical Company site (135 Walker Street) in Santa Cruz County, Watsonville, California. The modified pavement design is adequate for the specified future site use and activities.

If you have any questions or comments, please call Ryan Miya at (510) 540-3775.

Sincerely,

Barbara J. Cook, P.E., Chief  
Northern California - Coastal Cleanup Operations Branch

cc: CH2M Hill  
Attn. Mr. Keith Sheets  
155 Grand Avenue, Suite 1000  
Oakland, California 94612

*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption.  
For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at [www.dtsc.ca.gov](http://www.dtsc.ca.gov).*

♻️ Printed on Recycled Paper



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*Remedial Action Implementation Report*

**234 Locust Street  
(Former Cal Spray Site Area 4)**

Watsonville, California

Prepared for  
**Chevron Environmental Management Company**

May 2002





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Barbara Cook  
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700 Heinz Avenue  
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Attention: Ryan Miya

Subject: Submittal of Area 4 Final Remedial Action Completion Report, Cal Spray Site,  
Watsonville, CA

Dear Ms. Cook:

Enclosed are two copies of the Area 4 Final Remedial Action Completion Report for the Cal Spray site. CH2M HILL is submitting this report on behalf of Chevron Environmental Management Company, LLC. The draft Area 4 Remedial Action Completion Report was submitted to your office on March 15, 2002. Comments to the report were received from your office in a letter dated April 2, 2002. Comments contained in the April 2, 2002 letter have been addressed in this final report.

This report has been prepared for Chevron by CH2M HILL, under the direction of Ana Demorest, PE and Keith Sheets, RG.

If you have any questions please call Curt Peck/ChevronTexaco at 925-842-3561 or myself at 510-251-2888 ext. 2101.

Sincerely,

CH2M HILL

Keith Sheets  
Project Manager







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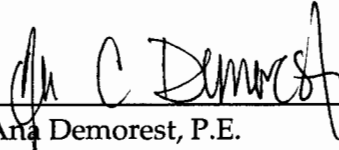
May 2002

**CH2MHILL**

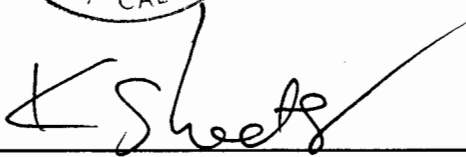
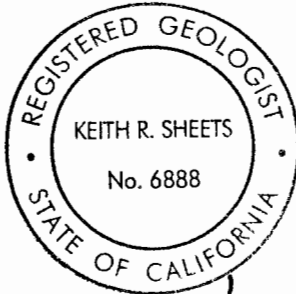
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This report has been prepared for Chevron Environmental Management Company by  
CH2M HILL under the supervision of:



Ana Demorest, P.E.  
Project Engineer



Keith R. Sheets, R.G.  
Project Manager



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# 1.0 Introduction

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This closure report presents a summary of final site conditions and a description of remedial activities performed at 234 Locust Street, also known as the former Area 4 of the Chevron Chemical Cal Spray site, located in Watsonville, California (Figure 1). Remedial activities were performed in accordance with the Remedial Action Work (RAW) Plan prepared by CH2M HILL and submitted to the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) in March 2001. The RAW was formally approved by DTSC in a letter dated July 26, 2001. Field activities were performed during the period of July 2001 through November 2001 by CH2M HILL Constructors, Inc. (CCI).

## 1.1 Background

The California Spray and Chemical Company, a predecessor of Chevron Chemical Company, was formed in 1907 to produce lead arsenate insecticide spray to control codling moths which were damaging apple orchards in the Pajaro Valley. The manufacturing plant was constructed in 1908 at the Cal Spray site, and produced lead arsenate, lime-sulfur solutions, and strychnine. The manufacturing process was discontinued from the site in 1929. Warehouse operations continued at the site until the early 1950's.

The Cal Spray site is comprised of four areas. The property located at 135 Walker Street is referred to as Area 1, and is the location of the former Cal Spray operations. Area 1 is bounded on the north by Walker Street, on the east by Riverside Drive, and on the south by Locust Street. Two parcels bound the property to the west. The southernmost property, located at 228 Locust Street, is referred to as Area 2. The northernmost property, located at 131 Walker Street, is referred to as Area 3. Area 4 is west of Area 2 and south of Area 3, and is located at 234 Locust Street.

Investigations were initiated at Area 1 in 1996 after discolored material was discovered during the construction of a new building. Nine sampling events have been conducted on or around the Cal Spray site between 1996 and 1999. The results of investigations conducted at the site indicate that lead and arsenic in soil are the only chemicals of potential concern (CPOC) at the Cal Spray site. Furthermore, an evaluation of analytical data collected during the field investigations (combined with a calculated ambient, or background arsenic concentration of 18 mg/kg) indicates that the horizontal extent of arsenic- and lead-impacted soil at the Cal Spray site is limited to Area 1, the northern portion of Area 2, the southeastern corner of Area 3, and the northern and southern portion of Area 4. Groundwater beneath the Cal Spray site does not appear to be impacted by arsenic or lead.

The following DTSC-approved residential soil cleanup criteria were established for the site:

- For arsenic: a sitewide average of 18 mg/kg based on the 95<sup>th</sup> quantile (the average shall be determined for each Area separately).



- For lead: a sitewide average of 210 mg/kg based on the 95<sup>th</sup> percent upper confidence limit of the mean (the average shall be determined for each Area separately).

Area 4 is zoned residential, therefore, the remedial action for Area 4 was designed to allow the property to have unlimited site use. The approved remedial action for Area 4 was excavation and offsite disposal of all material exceeding the cleanup criteria, followed by restoration to original conditions.

The major components of the selected remedy for Area 4 were as follows:

- Site preparation/demolition
- Soil excavation
- Site restoration

The regions of impacted soil requiring excavation for Area 4, as identified in the RAW, are shown on Figure 2.

## 1.2 Report Organization

This report includes the following sections:

- Summary of Construction Activities
- Health and safety
- Excavation
- Air Monitoring
- Site Restoration
- Deviations from RAW



## 2.0 Field Activities

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Section 2 describes the construction activities including health and safety, excavation activities, air monitoring, and site restoration of Area 4.

### 2.1 Summary of Construction Activities

The general chronology of activities is shown on Table 1. Mobilization activities began on July 23, 2001. Site preparation activities included the setup of staging areas, decontamination areas, and dedicated air monitoring stations. Air monitoring for arsenic and lead dusts, which was performed throughout the project during remedial excavation activities, is described in Section 2.4.

### 2.2 Health and Safety

All work at the site was performed in accordance with all applicable sections of the Occupational Safety and Health Act (OSHA), 29 Code of Federal Regulations (CFR) 1910 and 1926; specifically Title 8 California Code of Regulations 5192. All work performed at the site followed the DTSC-Approved site-specific Health and Safety Plan (CH2M HILL, July 2001). The following health and safety measures were taken during the remediation:

- All excavation work was completed in Level D personal protective equipment (PPE) as per the Health and Safety Plan.
- An equipment and personnel decontamination area was setup in the western portion of Area 2. Decontamination of equipment was performed with pressured water and by scraping of loose material. Decontamination procedures for personnel included a boot and glove wash and rinse, removal and proper disposal of outer clothing such as Tyvek, hand and face wash and rinse.
- Dust control measures were implemented during all excavation activities. Dust control was achieved by spreading water with a water "buffalo" (trailer) and direct spraying from a fire hose. Approximately 2000 gallons of water were used for dust suppression each day excavation activities occurred.
- Air monitoring and real-time dust monitoring was performed during periods of excavation activities as per the RAW and Health and Safety Plan. Details regarding air monitoring are provided below in Section 2.4.
- Noise monitoring was conducted using a Quest Model 2700 decibel meter during activities such as heavy vehicle and equipment operation, saw-cutting, generator operation, and excavation equipment operation. Readings were collected approximately every 30 minutes within the Exclusion Zone and at the perimeters of the Exclusion Zone, Decontamination Zone, Support Zone, and Site and compared to action level of 85 decibels. Noise action levels were not exceeded at any time during the project.



## 2.3 Excavation

### 2.3.1 Area Preparation/Demolition

The area was prepared by the demolition and removal of the 234 Locust St. residential structure. The residential structure was surveyed for asbestos and lead-based paint as required for the Monterey Bay Unified Air Pollution Control District Notification of Demolition and Renovation permit. Asbestos was found in the residence and was abated prior to any demolition operations. Other wooden structures on the property were also demolished. One structure was a former residence that required abatement of lead-based paint and the remaining intact paint to be encapsulated. RGA Environmental Inc, of Emeryville, California (RGA) performed the required Third-Party monitoring and clearance testing regarding the asbestos removal and lead-based paint encapsulation. RGA's asbestos and lead sampling reports and the asbestos and lead-based paint abatement monitoring report are included in Appendix E. With the necessary abatements completed, all PG&E utilities were disconnected and the final City of Watsonville demolition permit was obtained. The wooden structures were taken down in a controlled manner to avoid any nuisance dust and water spray was also used. After the wood and concrete footings were removed, the area was inspected by City of Watsonville Inspectors and signed off. All underground utilities were capped or plugged off and marked.

### 2.3.2 Soil Excavation

Excavation of impacted soil began November 5, 2001 and was completed on November 8, 2001.

Material removal in Area 4 was performed with an excavator. The soil excavation operations complied with the RAW in that the excavated impacted soil was direct-loaded into hauling trucks (or roll-off bins, as required) and transported to an approved disposal facility. Per the RAW, each truck was weighed, tarped, and manifested prior to departing the site along the approved truck route.

Soil removed from the excavation was handled as per the soil management plan provided in the RAW and disposed of as either non-hazardous waste or non-RCRA California hazardous waste. Non-hazardous waste was transported to Waste Management Inc. Altamont Class II landfill. Non-RCRA California hazardous waste was transported to Waste Management Inc. Kettleman Hills Class I facility.

#### Verification Soil Sampling

Following completion of the Area 4 excavation to the initial limits defined by the RAW, verification soil samples were collected on a 25 foot by 25 foot grid system for the Area 4 excavation area (See Figure 3). In addition, sidewall samples were taken from locations at the edges of the excavation adjacent to verification sample locations 1 through 10. Verification samples were not collected from sidewalls bordering those portions of Areas 2 and 3 that were being remediated concurrently. Verification samples were analyzed for arsenic by ICP 6010B and lead by ICP 6010B.

Samples from the excavation bottom at location 4 and the sidewall at location 7 were found to have concentrations in excess of the clean up concentrations. These locations were then



over-excavated at least one additional foot and re-sampled. This process was repeated until clean up concentration criteria were met. At location 4, one additional foot of soil was removed. All verification sample concentrations were in compliance with the cleanup criteria, except Sidewall Sample No. 2A, adjacent to verification sample location 7 (see Table 2). Additional excavation in this area was performed to the extent possible, however, due to the fence foundation and retaining wall between Area 3 and Area 4, removal of additional soil was not possible. Additional excavation to remove this one exceedance would have required sloping the excavation onto Area 3 property and extensive additional construction activities, such as the demolition and subsequent reconstruction of a significant portion of the Area 3 fence foundation and retaining wall. These activities were not included in the approved RAW, Remediation Fact Sheets or Work Notices, and they would have required detailed design drawings and approval from the City of Watsonville and the Area 3 property owner. Further, due to the imminent rain season (excavation began on November 5) all construction activities needed to be quickly completed.

As discussed in detail below, the Area 4 sitewide averages for arsenic and lead are below the cleanup criteria, and the soil remaining onsite is not significantly different than background. The results of the final Area 4 verification soil samples and final excavation depths are summarized in Table 2. Copies of the certified analytical reports are provided in Appendix A.

### Soil Cleanup Goal Verification

The stated cleanup goals, as approved by DTSC were listed as follows:

- For arsenic: a sitewide average of 18 mg/kg based on the 95<sup>th</sup> quantile;
- For lead: a sitewide average of 210 mg/kg based on the 95<sup>th</sup> percent upper confidence limit of the mean.

The sitewide average for Area 4 was calculated using the data comprised of confirmation soil samples (Table 2). For non-detect samples, one-half of the detection limit was used in the statistical analyses. Three different statistical methods were used to calculate the sitewide average based on the 95% upper confidence limits of the mean (UCL). These methods include: 1) a normal UCL, 2) a lognormal UCL, and 3) a bootstrap-t UCL. In addition, the Wilcoxon Rank Sum Test was performed for arsenic to evaluate whether the remediation was completed. Table 3 summarizes the UCLs for arsenic and lead as calculated by each method, as well as the results of the Wilcoxon Rank Sum Test. The results of the calculations, as well as a brief discussion of each statistical method, are described in detail below.

The sitewide averages were calculated using both the normal and the lognormal UCL statistical methods. The applicability of calculating a normal or lognormal UCL can be assessed by the tests for normality or lognormality as performed using the Shapiro Wilk test. If the probabilities for normality or lognormality based on this test are lower than 0.05, the assumption that the data set is normal or lognormal is rejected. Viewing these probabilities, only the data for arsenic appeared to agree with either assumption (for lognormality), as shown on Table 3 (Probability of lognormality for the arsenic data set = 0.686). The lognormal 95% UCL for arsenic is 13.1 mg/kg. However, Environmental Protection Agency (EPA) guidance, *The Lognormal Distribution in Environmental Applications*,



*Office of Solid Waste and Emergency Response, 1997*, cautions against the use of lognormal UCLs when the number of samples is less than 30 (the Area 4 data set consisted of 27 samples).

The bootstrap-t was also used for calculating the UCLs. This method does not rely on a single distributional shape (normality, lognormality, etc.) to model the data, but instead develops a distributional shape based upon resampling of the available data. Based on the data set for Area 4, the bootstrap-t method appears to be the most appropriate for calculating the upper confidence limits of the mean. The bootstrap-t 95% UCLs for arsenic and lead are 14.5 mg/kg and 67.3 mg/kg, respectively.

Because the arsenic cleanup concentration was based on the local background concentration, a more appropriate method to assess if the remediation of a site is complete is to compare the site data with the background data set. The DTSC guidance, *Selecting Inorganic Constituents as Chemicals of Potential Concern at Risk Assessments at Hazardous Waste Sites and Permitted Facilities* (DTSC, 1997) supports the use of the nonparametric Wilcoxon Rank Sum test to be used as an adjunct to comparisons of individual results to a background concentration and to evaluate if background concentrations are exceeded. The results of the Wilcoxon Rank Sum for arsenic are presented in Table 3. The typical significance level selected to be associated with the background comparison is 0.20, which corresponds to the probability that site data will incorrectly be determined to exceed background only one out of five times. If the p-value for a site is less than 0.20, the hypothesis that the site concentrations are not greater than the background is rejected. The p-value of 0.512 for Area 4 is greater than the 0.20 background comparison level and therefore indicates that the site data from this area is not significantly greater than background.

Based on the verification soil sampling results as well as results of each statistical method for assessing the sitewide averages of arsenic and lead, impacted soil has been removed from the Area 4 property to below the sitewide average cleanup goals.

### 2.3.3 Soil Disposal

All soil was pre-characterized for disposal following the Waste Characterization Sampling Plan (CH2M HILL, July 2001a). Soil removed from Area 4 was characterized as either non-hazardous waste, or Non-RCRA California Hazardous waste. Material was transported to Waste Management Incorporated's Altamont landfill or Kettleman Hills facility by Lutrel Trucking, Inc.

### 2.3.4 Backfill Placement

Import and placement of fill was performed during the period November 14, 2001 through November 27, 2001. Fill material was provided by Granite Rock and the fill source was Wilson Quarry of Aromas. Import material was Class II aggregate base, and was analyzed for CAM17 metals and Total Extractable Petroleum Hydrocarbons prior to delivery of the material to the site. A copy of the laboratory analysis for chemical screening of the import fill is provided in Appendix B. Fill was generally placed greater than 90 percent relative compaction as per ASTM D1557. Material placed within two feet of final grade was placed at a minimum of 95 percent relative compaction as per ASTM D1557. Class II aggregate base rock was placed to complete the excavation area to finish grade and to fill any depressions that were outside of the excavation area and to achieve the minimum slope to control storm



water run off. Compaction testing of placed material was performed by Tharpe and Associates. Results of compaction testing are provided Appendix C.

## 2.4 Air Monitoring

The purpose of the air monitoring program was to provide onsite, upwind, and downwind ambient air monitoring to determine whether contaminated soils were released off site during remedial work, to ensure nearby residents, offsite workers, and onsite workers were not exposed to impacted dust, and to ensure the project complied with the state and federal air quality regulations. Air monitoring was performed using the following three methods:

1. Ambient air monitoring was performed using Total Suspended Particulate (TSP) sampling using a standard Hi-Volume TSP air sampling system.
2. Industrial hygiene air samples were collected using Dupont Alpha-1 Air Sampling pumps.
3. Real-time measurement of airborne particulates was performed using a Miniram PDM-3 dust monitor.

The details and a summary of the frequency, methodology, and results of each of these methods are discussed below.

### 2.4.1 Total Suspended Particulate Sampling

Ambient air sampling was performed using the standard Total Suspended Particulate (TSP) sampling system. This type of sampling was performed to evaluate if elevated concentrations of lead and/or arsenic were being carried offsite during soil remediation activities. The TSP filters collected during this monitoring activity were analyzed for arsenic and lead using United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP).

Air samples were collected at three locations along the perimeter of the site using high volume air samplers (See Figure 4). The air monitoring samplers were set up and periodically calibrated by Tracer ES&T, Inc. as per the RAW air monitoring plan. CCI performed the collection of air samples over an approximate 8-hour period during remedial excavation activities. Background air monitoring, prior to the start of remedial soil excavation activities, was performed during the period of August 6 through August 8, 2001 to determine the background concentrations of lead and arsenic in the ambient air. A summary of the TSP air monitoring results, which documents air quality prior to and during remedial construction activities is provided in Table 4. The Filter B air samples were collected from the upwind monitoring station, and air samples from Filters A and C were collected from downwind monitoring stations. Copies of the certified analytical reports are provided in Appendix D.

Based upon these results, an evaluation was performed using state and federal exposure guidelines.

The following presents the results of that evaluation.



## Arsenic

Several arsenic exposure guidelines are published. The American Conference of Government Industrial Hygienists (ACGIH) threshold limit value (a time-weighted average in workroom air for an 8-hour day) is  $10 \mu\text{g}/\text{m}^3$  (ACGIH, 2000). The California Occupational Safety and Health Administration (Cal/OSHA) permissible exposure limit for construction workers is  $200 \mu\text{g}/\text{m}^3$  (8-hour time weighted average) for organic arsenic and  $10 \mu\text{g}/\text{m}^3$  for inorganic arsenic (OSHA, 1996). National Institute for Occupational Safety and Health (NIOSH) (NIOSH, 1997) has recommended  $2 \mu\text{g}/\text{m}^3$  as the limit. The State of California has published an acute Reference Exposure Level (REL) of  $0.19 \mu\text{g}/\text{m}^3$  (OEHHA, 2002). The acute REL is intended to protect an individual from adverse health effects due to short-term exposure (i.e., 4-hour exposure). The results of the arsenic monitoring indicate that the maximum concentration of arsenic detected at the downwind monitoring station was  $0.021 \mu\text{g}/\text{m}^3$  (detected on November 5, 2001). This maximum concentration is less than the acute REL established by OEHHA and far less than either the OSHA or ACGIH values.

It is apparent from the above results that inhalation of arsenic and lead in dust as a result of excavation activities are well below ambient air quality standards for individuals or industrial workers. It is therefore concluded that adverse health impacts would not be expected to occur to the onsite workers or offsite residents or workers.

## Lead

Lead-bearing dust and fumes serve as the major sources of exposure for workers through the inhalation and ingestion pathways (ATSDR, 2000). The California OSHA permissible exposure limit (PEL) for lead in the workplace is  $50 \mu\text{g}/\text{m}^3$  averaged over an 8-hour workday for workers in general industry. The NIOSH recommended the exposure limit of  $50 \mu\text{g}/\text{m}^3$  to be maintained so that worker blood lead remains less than  $60 \mu\text{g}/\text{dL}$  of whole blood. The ACGIH has set a threshold limit value for a time-weighted average (TLV/TWA) of  $50 \mu\text{g}/\text{m}^3$  for lead in workspace air. The TLV/TWA guideline represents the average concentrations to which most workers may be exposed without adverse effects. Finally, EPA has set a National Ambient Air Quality Standard for lead of  $1.5 \mu\text{g}/\text{m}^3$  averaged over a calendar quarter. This standard is intended to protect the most susceptible persons (e.g., children) in the general population. The results of the lead monitoring indicate that the maximum concentration of lead detected at the downwind monitoring station was  $1.758 \mu\text{g}/\text{m}^3$  (detected on November 8, 2001). This maximum concentration is less than the PEL ( $50 \mu\text{g}/\text{m}^3$ ) established by OSHA and NIOSH for workplace safety.

It is apparent from the above results that inhalation of lead in dust as a result of excavation activities are well below ambient air quality standards for individuals or industrial workers. It is therefore concluded that adverse health impacts would not be expected to occur to the onsite workers or offsite residents or workers.

### 2.4.2 Industrial Hygiene Air Samples

Industrial hygiene samples were collected following NIOSH Analytical Method 7300 to evaluate airborne exposures for construction workers to arsenic and lead during the first two days of soil excavation activities at the Chevron Cal Spray site, and to evaluation concentrations of lead and arsenic in the ambient air at the fenceline. Industrial hygiene air samples were collected using Dupont Alpha-1 Air Sampling pumps fitted with 37 mm



sampling cartridges that contained a 0.8 µm cellulose ester membrane filter. Sampling pumps were calibrated prior to and after sampling activities using a Mini-Buck wet cell calibrator.

Air samples were collected during the first two days of excavation activities in Area 2. Samples were collected to evaluate personal exposure to arsenic and lead during the excavation of contaminated soil to evaluate if the level of personal protective equipment worn by onsite personnel was appropriate. Additionally, air samples were collected along the fence line located between Area 2 and Area 4 to evaluate if arsenic or lead were being carried offsite and towards the residence located in Area 4. Sampling pumps were typically started at the beginning of both shifts and were allowed to run for a total of around 8 hours.

The sampling locations and the results of the industrial hygiene samples are shown on Table 5. None of the samples contained arsenic or lead above the analytical detection limit of 0.001 mg/m<sup>3</sup>.

### 2.4.3 Real-time Dust Monitoring

Real-time measurement of airborne particulates was performed during all excavation activities using a Miniram PDM-3 dust monitor. Readings were initially collected at 15 minute intervals, and later adjusted to 30 minutes, as per the health and safety plan. The dust monitors was used to measure dust at various locations around the site. Table 6 summarizes the times, locations, and results of the real-time dust monitoring. As per the Health and Safety Plan (CH2M HILL, 2001), based on worst case dust exposure calculations, the permissible limit for a total dust mixture was 0.11 mg/m<sup>3</sup> (with a safety factor of 4 built into the equation). All dust measurements were well below this concentration for the duration of the excavation activities.

## 2.5 Site Restoration

New chain link fencing (non-commercial) was installed along the Locust Street perimeter. None of the structures previously existing on the site were replaced.

## 2.6 Deviations from RAW or Construction Plans

This section summarizes activities and conditions encountered during the performance of the remedial work that were found to differ from the RAW. The noted differences are as follows:

- The total volume of soil removed from the site was larger than that estimated in the RAW, as shown in Table 7. Confirmation soil samples exceeded the specified cleanup criteria at two locations. Soil was removed until the verification samples at each location met the specified cleanup criteria, with the exception of sidewall sample 2A, adjacent to location 7, as described in Section 2.3.2.
- Additional air monitoring using industrial hygiene personnel samplers was implemented along the fenceline between Areas 2 and 4, as described in detail in Section 2.4.



- The methodology of comparing the results of the confirmation samples to the cleanup goals was revised, as described in Section 2.3.2.
- Additional dust control measures were implemented during excavation of Area 4 by placing plastic sheeting over the windows of the adjacent property located at 236 Locust Street.
- The truck transportation route for transporting soil offsite and from bringing backfill material onsite was modified from the route proposed in the RAW. Due to the delay in Area 4 construction activities, Area 4 remediation occurred after the remediation of Area 2 was complete and after the retaining wall between Area 1 and Area 2 was built, preventing trucks from entering the site from Riverside Drive via Area 1 and Area 2. Therefore, it was necessary for trucks to drive west down Locust Street and either back into Area 2 for loading of soil or back into Area 4 for unloading of backfill material. All trucks left the site by continuing west down Locust Street to Riverside Drive and then turning left or right onto Riverside.
- The Area 4 property remains zoned as residential, however the future site use and the nature of property development has not been determined. Therefore, Area 4 structures and top soil and grass lawn were not replaced.



## 3.0 References

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**Table 1**  
**Chronology of Activities**

<b>Construction Activity</b>	<b>Start</b>	<b>Finish</b>
Mobilization	July 23, 2001	
Lead and Asbestos Abatement	October 4, 2001	October 4, 2001
Structure Demolition	October 30, 2001	November 2, 2001
Soil Excavation	November 5, 2001	November 8, 2001
Material Transport and Disposal	November 5, 2001	November 8, 2001
Excavation Restoration	November 14	November 27, 2001
Site Restoration	November 27	December 4, 2001



**Table 2**  
**Confirmation Soil Samples for Area 4 (n=27)**  
**Cal Spray Site, Watsonville, California**

<b>Sample Node</b>	<b>Planned Depth (Feet bgs)</b>	<b>Final Depth (Feet bgs)</b>	<b>Arsenic (mg/kg)</b>	<b>Lead (mk/kg)</b>
1	2	2.0	5.5	8.6
1 Sidewall No. 1	2	2.0	12	39
1 Sidewall No. 2	2	2.0	18	110
2	2	2.0	4.6	42
2 Sidewall No. 1	2	2.0	11	20
3	2	2.0	6.5	57
3 Sidewall No. 1	2	2.0	17	52
4	2	3.0	6.4	8.2
4 Sidewall No. 1	2	2.0	15	69
5	2	2.0	4.9	140
5 Sidewall	2	2.0	18	37
6	4	4.0	2	<5.0
6 Sidewall	4	4.0	6.5	8.4
7	4	4.0	5.4	6.4
7 Sidewall No. 1	4	4.0	9.3	7.5
7 Sidewall No. 2A	4	4.0	41	5.6
8	2	2.0	7.5	130
8 Sidewall No. 1	2	2.0	11	13
8 Sidewall No. 2	2	2.0	12	13
9	2	2.0	8.4	150
9 Sidewall No. 1	2	2.0	4.5	6.7
10	2	2.0	6.4	56
10 Sidewall No. 1	2	2.0	9.6	16
11	2	2.0	8.4	130
12	2	2.0	4.4	140
13	4	4.0	7.9	5.2
14	4	4.0	15	7.4



**Table 3**  
**Statistics for Area 4**

Parameter	Number of Samples	Normal 95% UCL	Lognormal 95% UCL	Bootstrap-t 95% UCL <sup>1</sup>	Probability of Normality <sup>2</sup>	Probability of Lognormality <sup>2</sup>	Wilcoxon Rank Sum Test p-value <sup>3</sup>
Arsenic	27	12.8	13.1	14.5	0.000	0.686	0.512
Lead	27	64.1	107	67.3	0.000	0.033	-

<sup>1</sup> based upon 1000 resamples of the available data

<sup>2</sup> distributional assumption rejected when probability is below 0.05; lognormal approach is cautioned against when sample size is below 30 samples (regardless of probability)

<sup>3</sup> hypothesis that the site concentrations are not greater than the background concentrations rejected when p-value is below 0.20



**Table 4: Area 4**  
**Total Suspended Particulate Air Monitoring Results**  
**Cal Spray Site, Watsonville, California**

Activity Monitored	Date	tsp concentrations (mg/m <sup>3</sup> )			arsenic concentrations (ug/m <sup>3</sup> )			lead concentrations (ug/m <sup>3</sup> )		
		Filter A	Filter B	Filter C	Filter A	Filter B	Filter C	Filter A	Filter B	Filter C
baseline	08/06/2001	NA	0.244	0.158	NA	<0.0002	<0.0002	NA	0.008	0.005
baseline	08/07/2001	NA	0.136	0.150	NA	<0.0002	<0.0002	NA	0.013	0.007
baseline	08/08/2001	NA	0.090	0.096	NA	<0.0002	<0.0002	NA	0.007	0.014
excavation	11/05/2001	<0.0002	0.116	0.091	0.021	0.019	0.013	0.008	0.011	0.014
excavation	11/06/2001	NA	0.064	0.187	NA	0.010	0.014	NA	0.011	0.019
excavation	11/07/2001	0.074	0.396	see note	0.01	0.014	see note	0.012	0.017	see note
excavation	11/08/2001	0.019	0.216	see note	0.01	0.032	see note	0.011	1.758	see note

Note: Equipment failure occurred on 11-6-01 for upstream filter. The filter at downstream location C was moved to take the place of the upstream filter.  
Samples with "<" indicate non-detect samples  
NA = Not Analyzed



**Table 5**  
**Industrial Hygiene Sample Results**  
**Cal Spray Site, Watsonville, California**

<b>Sample No.</b>	<b>Date Collected</b>	<b>Sample Location</b>	<b>Pump #</b>	<b>Results (for Lead and Arsenic) mg/m<sup>3</sup></b>
CCS-0813-01	08/13/2001	Victor Leopoldo	7253	<0.001
CCS-0813-02	08/13/2001	Aaron Wolf	10932	<0.001
CCS-0813-03	08/13/2001	Jeff Deakin	10901	<0.001
CCS-0813-04	08/13/2001	On Fence between Areas 2 and 4 (near front of house)	6069	<0.001
CCS-0813-05	08/13/2001	On Fence between Areas 2 and 4 (near rear of house)	3415	<0.001
CCS-0814-02	08/14/2001	Louis Rios	7253	<0.001
CCS-0814-03	08/14/2001	On Fence between Areas 2 and 4 (near front of house)	10901	<0.001
CCS-0814-04	08/14/2001	On Fence between Areas 2 and 4 (near rear of house)	10932	<0.001



**Table 6**  
**Real-Time Dust Monitoring Results**  
**Cal Spray Site, Watsonville, California**

Time	Concentration (mg/m <sup>3</sup> )	Prevailing Direction	Location
8/13/01 8:50 AM	0	downwind	immediately adjacent to excavation at sample node 19
8/13/01 9:05 AM	0	upwind	corner of Area 2 and Area 4 properties at Locust St.
8/13/01 9:20 AM	0	downwind	back bay door of Dixon Tire shop
8/13/01 9:37 AM	0	downwind	corner of Area 1 and Area 2 properties at Locust St.
8/13/01 9:50 AM	0.003	downwind	entrance at Riverside
8/13/01 10:05 AM	0	downwind	immediately adjacent to excavation at sample node 19
8/13/01 10:20 AM	0.006	upwind	back corner of Scotts valley building
8/13/01 10:35 AM	0.006	downwind	middle of pallet shed
8/13/01 10:50 AM	0.015	downwind	corner of Area 1 and Area 2 properties at Locust St.
8/13/01 11:05 AM	0.026	downwind	at power pole on Area 1 property
8/13/01 11:20 AM	0.033	upwind	outside corner of Area 2 and Area 4 at Locust St.
8/13/01 11:35 AM	0.016	downwind	middle of Area 1 property at power pole
8/13/01 11:50 AM	0.022	downwind	at CCI office trailer
8/13/01 12:05 AM	0.017	downwind	at power pole on Area 1 property
8/13/01 12:23 AM	0.028	upwind	corner of Riverside and Locust
8/13/01 12:40 AM	0.028	upwind	back corner of Scotts valley building
8/13/01 12:55 AM	0.023	upwind	corner of Area 1 and Area 2 properties at Locust St.
8/13/01 1:45 PM	0.03	downwind	at power pole on Area 1 property
8/13/01 2:15 PM	0.021	downwind	back bay door of Dixon Tire shop
8/13/01 2:33 PM	0.013	upwind	outside corner of Area 2 and Area 4 at Locust St.
8/13/01 2:45 PM	0.015	downwind	immediately adjacent to excavation at sample node 19
8/13/01 3:00 PM	0.019	upwind	back corner of Area 4 and Area 3 property
8/14/01 8:00 AM	0	upwind	outside corner of Area 2 and Area 4 at Locust St.
8/14/01 8:15 AM	0	downwind	at power pole on Area 1 property
8/14/01 8:30 AM	0.003	downwind	at CCI office trailer
8/14/01 8:45 AM	0	upwind	corner of Area 1 and Area 2 properties at Locust St.
8/14/01 9:00 AM	0.036	downwind	entrance at Riverside
8/14/01 9:15 AM	0.05	upwind	corner of Riverside and Locust
8/14/01 9:30 AM	0.03	downwind	Area 1 property ~100 yd. Behind Locust immediately behind loading truck
8/14/01 9:45 AM	0.045	upwind	outside corner of Area 2 and Area 4 at Locust St. immediately behind excavator
8/14/01 10:03 AM	0.053	downwind	back bay door of Dixon Tire shop
8/14/01 10:15 AM	0.041	downwind	Area 1 driveway at Locust
8/14/01 11:15 AM	0.05	downwind	immediately adjacent to excavation on Area 2 property next to sample node 15
8/14/01 12:00 PM	0.061	upwind	back corner of Scotts valley building
8/15/01 8:00 AM	0	upwind	outside corner of Area 2 and Area 4 at Locust St. immediately behind excavator
8/15/01 8:30 AM	0	downwind	at power pole on Area 1 property immediately adjacent to excavator
8/15/01 9:00 AM	0	downwind	entrance at Riverside
8/15/01 10:00 AM	0.016	downwind	corner of Area 1 and Area 2 properties at Locust St.
8/15/01 10:30 AM	0.036	upwind	outside corner of Area 2 and Area 4 at Locust St.
8/15/01 11:00 AM	0.047	downwind	back bay door of Dixon Tire shop
8/15/01 11:30 AM	0.038	downwind	middle of Area 1 property adjacent to excavation & excavator



**Table 6**  
**Real-Time Dust Monitoring Results**  
**Cal Spray Site, Watsonville, California**

<b>Time</b>	<b>Concentration (mg/m<sup>3</sup>)</b>	<b>Prevailing Direction</b>	<b>Location</b>
8/15/01 12:30 AM	0.037	upwind	outside corner of Area 2 and Area 4 at Locust St.
8/16/01 8:00 AM	0	downwind	at power pole on Area 1 property
8/16/01 8:30 AM	0	upwind	Area 1 entrance at Locust
8/16/01 10:00 AM	0.008	downwind	back bay door of Dixon Tire shop
8/20/01 8:40 AM	0	upwind	Area 1 entrance at Locust
8/20/01 9:00 AM	0	downwind	back bay door of Dixon Tire shop
8/20/01 9:30 AM	0	downwind	at power pole on Area 1 property immediately adjacent to excavator & auger
8/20/01 10:00 AM	0	downwind	entrance at Riverside
8/20/01 10:40 AM	0	downwind	corner of Area 1 and Area 2 properties at Locust St.
8/20/01 11:00 AM	0	upwind	corner of Area 2 and Area 4 at Locust St.
8/20/01 12:15 AM	0	downwind	at power pole on Area 1 property immediately adjacent to excavator & auger
8/20/01 1:00 PM	0	upwind	corner of Riverside and Locust
8/20/01 1:30 PM	0	downwind	at power pole on Area 1 property immediately adjacent to auger
8/20/01 2:00 PM	0	upwind	corner of Area 2 and Area 4 at Locust St.
8/20/01 2:30 PM	0.02	downwind	entrance at Riverside
8/20/01 3:00 PM	0.015	downwind	back bay door of Dixon Tire shop
8/20/01 3:30 PM	0.023	downwind	entrance at Riverside
8/22/01 7:55 AM	0	downwind	Area 1 driveway at Locust
8/22/01 8:30 AM	0	downwind	at power pole on Area 1 property immediately adjacent to excavator
8/22/01 9:01 AM	0	downwind	back bay door of Dixon Tire shop
8/22/01 9:25 AM	0	downwind	at power pole on Area 1 property immediately adjacent to excavator
8/22/01 10:00 AM	0.03	downwind	entrance at Riverside
8/22/01 10:30 AM	0.002	downwind	Area 2 & Area 4 property line at back corner of Area 4 house from Area 2 property
8/22/01 10:58 AM	0.013	downwind	corner of Area 1 and Area 2 properties at Locust St.
8/22/01 11:32 AM	0.032	upwind	corner of Area 2 and Area 4 at Locust St.
8/22/01 12:00 PM	0.06	downwind	entrance at Riverside
8/22/01 12:30 PM	0.023	downwind	Area 2 & Area 4 property line at back corner of Area 4 house from Area 2 property
8/22/01 1:00 PM	0.005	downwind	Area 1 driveway at Locust
8/22/01 1:30 PM	0.014	upwind	corner of Area 2 and Area 4 at Locust St.
8/22/01 2:30 PM	0.02	downwind	back bay door of Dixon Tire shop
8/22/01 8:06 AM	0	downwind	corner of Area 1 and Area 2 properties at Locust St.
8/22/01 8:30 AM	0.022	upwind	corner of Area 2 and Area 4 at Locust St.
8/22/01 8:55 AM	0.017	downwind	entrance at Riverside
8/22/01 9:30 AM	0.02	upwind	back corner of Scotts valley building
8/22/01 9:56 AM	0.025	downwind	at CCI office trailer
8/22/01 11:20 AM	0.03	downwind	Area 2 & Area 4 property line at back corner of Area 4 house from Area 2 property
8/22/01 11:55 AM	0.028	downwind	at power pole on Area 1 property
8/22/01 12:25 PM	0.02	upwind	corner of Riverside and Locust
8/23/01 8:06 AM	0	downwind	corner of Area 1 and Area 2 properties at Locust St.
8/23/01 8:30 AM	0.022	upwind	corner of Area 2 and Area 4 at Locust St.



**Table 6**  
**Real-Time Dust Monitoring Results**  
**Cal Spray Site, Watsonville, California**

<b>Time</b>	<b>Concentration (mg/m<sup>3</sup>)</b>	<b>Prevailing Direction</b>	<b>Location</b>
8/23/01 8:55 AM	0.017	downwind	entrance at Riverside
8/23/01 9:30 AM	0.02	upwind	back corner of Scotts valley building
8/23/01 9:56 AM	0.025	downwind	at CCI office trailer
8/23/01 11:20 AM	0.038	upwind	Area 2 & Area 4 property line at back corner of Area 4 house from Area 2 property
8/23/01 11:55 AM	0.028	downwind	at power pole on Area 1 property
8/23/01 12:25 PM	0.02	downwind	corner of Riverside and Locust
9/5/01 8:32 AM	0	downwind	entrance at Riverside
9/5/01 9:00 AM	0	downwind	Area 2 & Area 4 property line at back corner of Area 4 house from Area 2 property
9/5/01 9:36 AM	0.001	downwind	at power pole on Area 1 property
9/5/01 10:00 AM	0	downwind	Area 1 driveway at Locust
9/5/01 11:11 AM	0	downwind	at CCI office trailer
9/11/01 7:55 AM	0	downwind	entrance at Riverside
9/11/01 8:31 AM	0	downwind	Area 2 & Area 4 property line at back corner of Area 4 house from Area 2 property
9/11/01 9:45 AM	0	downwind	at power pole on Area 1 property
9/11/01 10:30 AM	0	downwind	Area 1 driveway at Locust
9/11/01 11:53 AM	0	downwind	at CCI office trailer



**Table 7**  
**Assumed and Actual Soil Quantities**

<b>Soil Category</b>	<b>Assumed RAW Quantity</b>	<b>Actual Quantity</b>
Non-hazardous	0 cu. yd.	178 cu. yd.
non-RCRA California Hazardous	555 cu. yd.	426 cu. yd



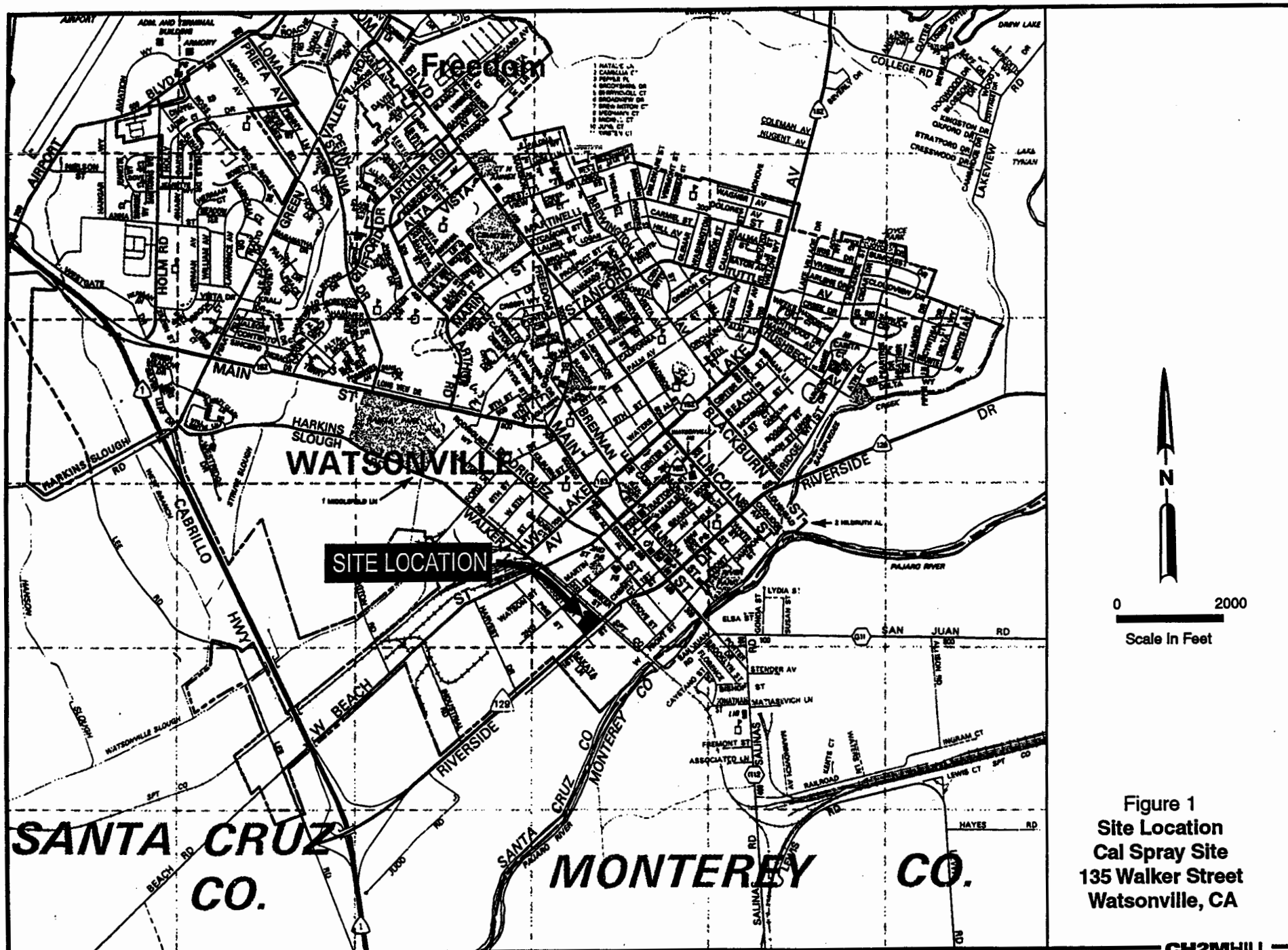
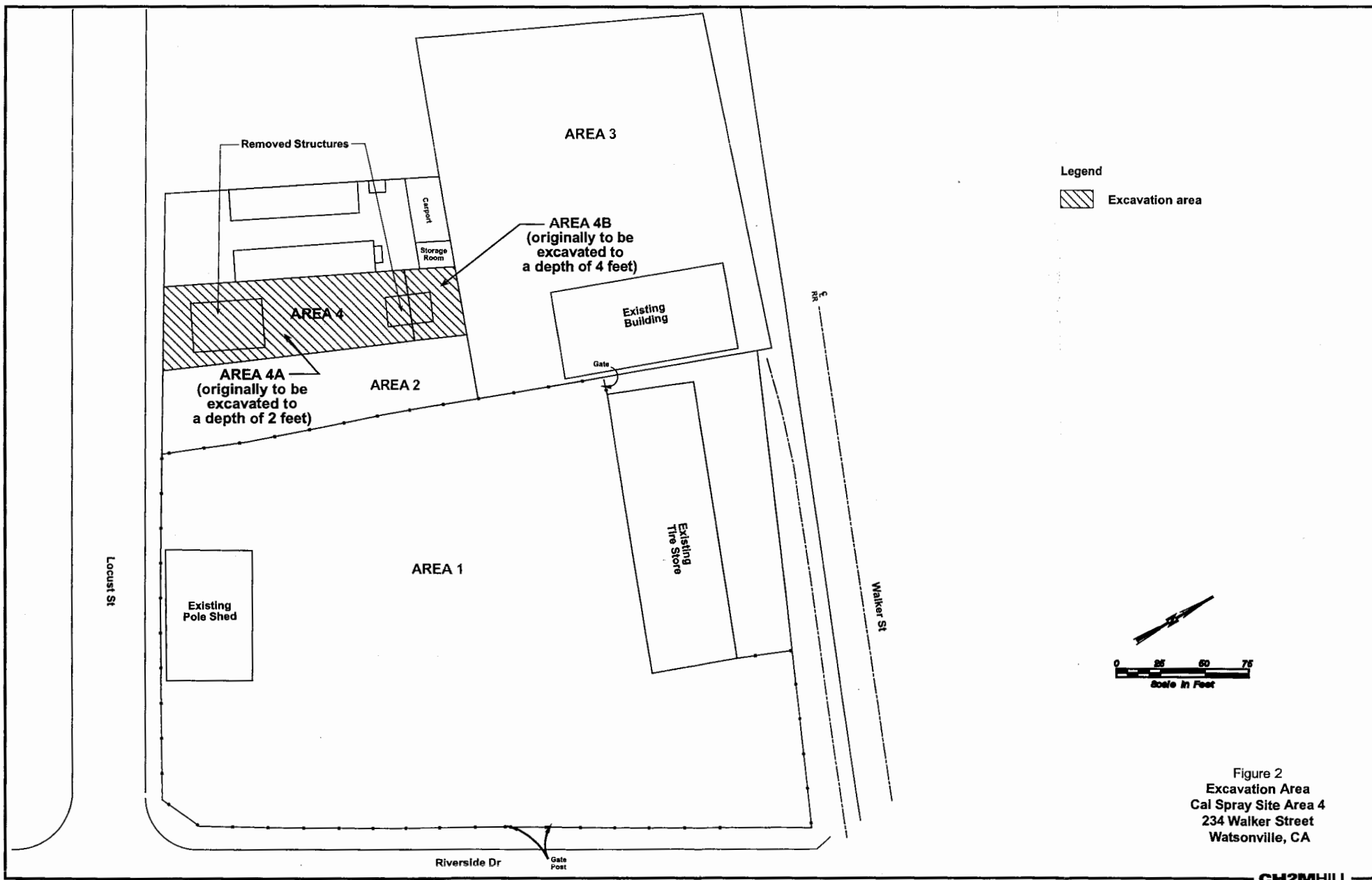


Figure 1  
Site Location  
Cal Spray Site  
135 Walker Street  
Watsonville, CA







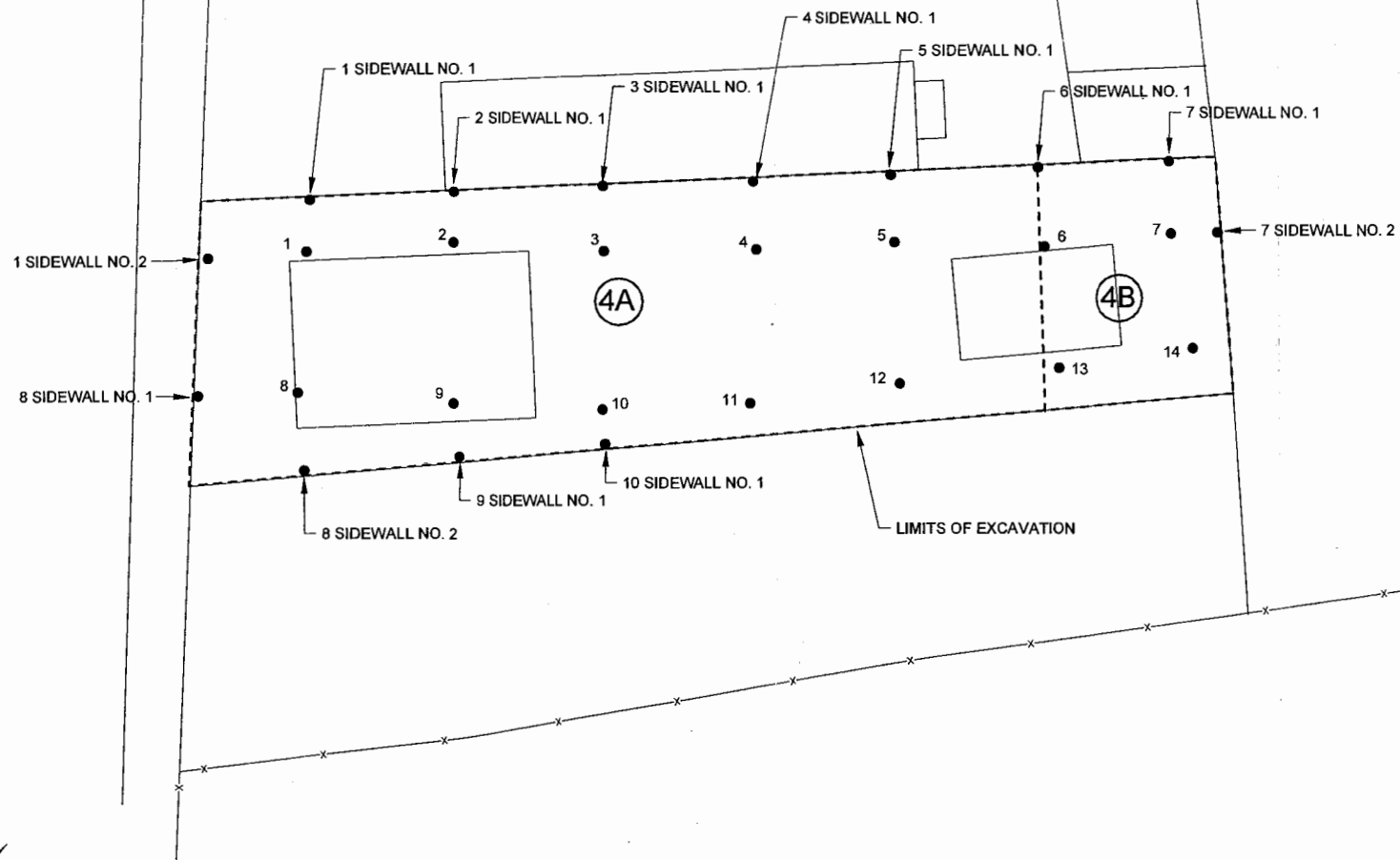


FIGURE 3  
LIMITS OF EXCAVATION  
VERIFICATION SAMPLE LOCATIONS  
AREA 4  
CHEVRON CAL SPRAY PROJECT  
WATSONVILLE, CA

**CH2MHILL**

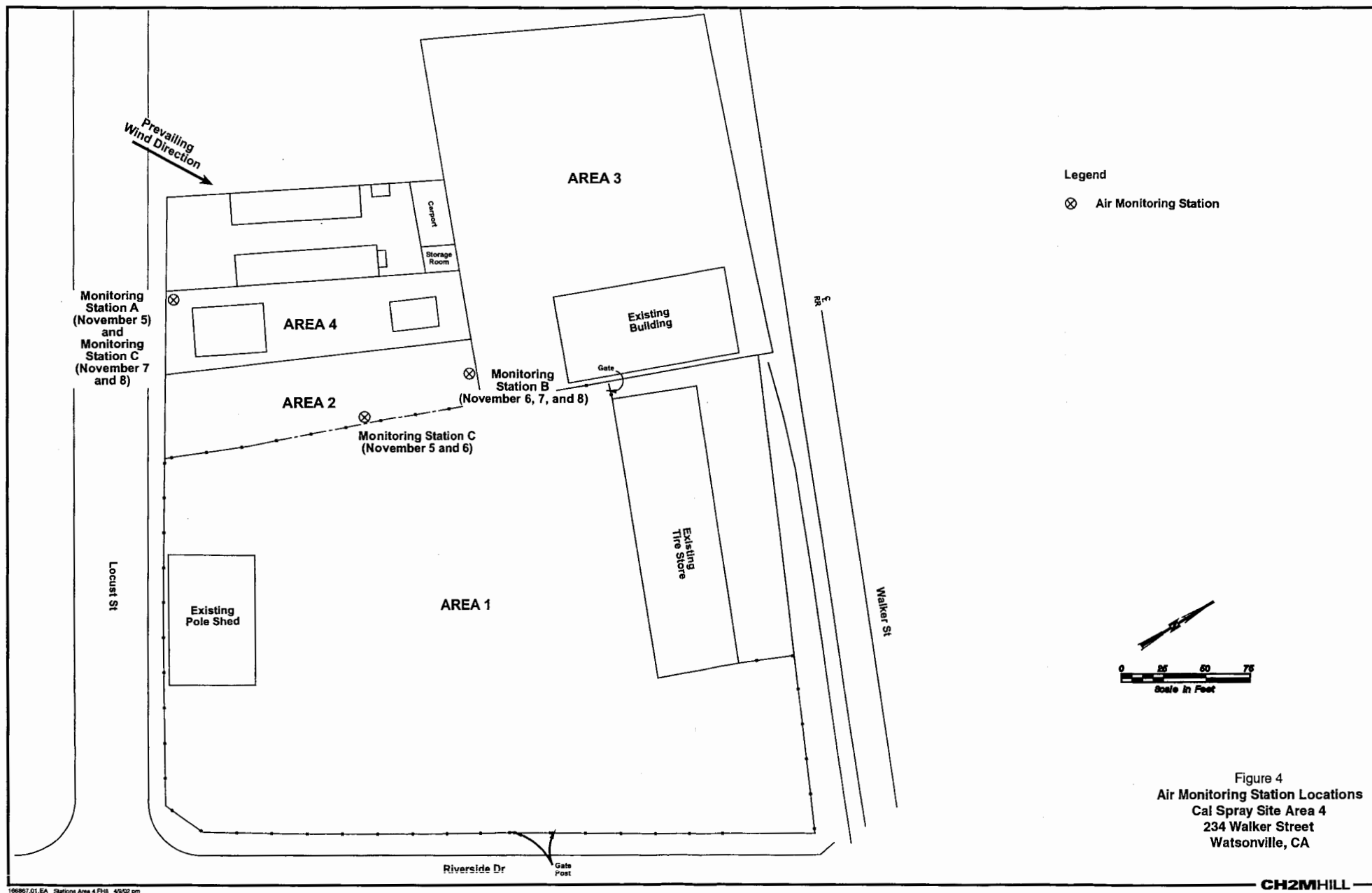




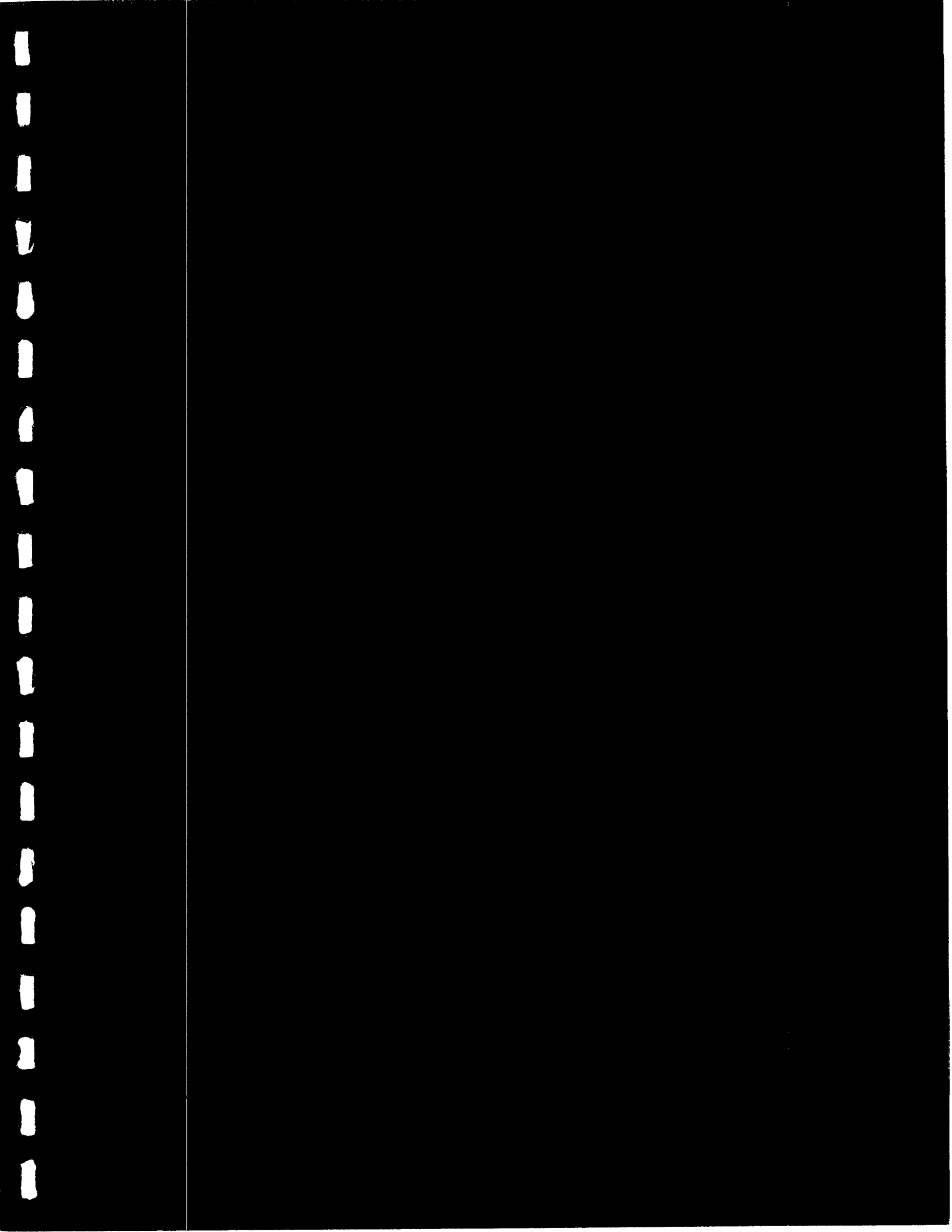
















# Sequoia Analytical

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FAX (408) 783-6308  
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CH2M HILL (Oakland)  
Attn: SWR A/P - P.O. Box 7728  
Bole ID: 83707-2748

Project: Cal-Spray Watsonville  
Project Number: Cal-Spray Watsonville  
Project Manager: Keith Shocks

Reported:  
11/07/01 09:37

## Total Metals by EPA 6000/7000 Series Methods Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>A4 EB 12.02 P (MKK0099-01) Soil</b> Sampled: 11/06/01 14:16 Received: 11/06/01 16:55									
Arsenic	4.4	4.0	mg/kg	1	1K06027	11/06/01	11/06/01	EPA 6010A	
Lead	140	5.0	"	"	"	"	"	"	
<b>A4 EB 12.04 P (MKK0099-03) Soil</b> Sampled: 11/06/01 11:29 Received: 11/06/01 16:55									
Arsenic	7.9	4.0	mg/kg	1	1K06027	11/06/01	11/06/01	EPA 6010A	
Lead	5.2	5.0	"	"	"	"	"	"	
<b>A4 EB 4.02 P (MKK0099-05) Soil</b> Sampled: 11/06/01 13:58 Received: 11/06/01 16:55									
Arsenic	4.5	4.0	mg/kg	1	1K06027	11/06/01	11/06/01	EPA 6010A	
Lead	330	5.0	"	"	"	"	"	"	
<b>A4 EB 5.02 P (MKK0099-07) Soil</b> Sampled: 11/06/01 12:35 Received: 11/06/01 16:55									
Arsenic	4.9	4.0	mg/kg	1	1K06027	11/06/01	11/06/01	EPA 6010A	
Lead	140	5.0	"	"	"	"	"	"	
<b>A4 EB 6.04 P (MKK0099-09) Soil</b> Sampled: 11/06/01 12:05 Received: 11/06/01 16:55									
Arsenic	ND	4.0	mg/kg	1	1K06027	11/06/01	11/06/01	EPA 6010A	
Lead	ND	5.0	"	"	"	"	"	"	
<b>A4 BW 4.02 P (MKK0099-11) Soil</b> Sampled: 11/06/01 14:11 Received: 11/06/01 16:55									
Arsenic	15	4.0	mg/kg	1	1K06027	11/06/01	11/06/01	EPA 6010A	
Lead	69	5.0	"	"	"	"	"	"	
<b>A4 BW 5.02 P (MKK0099-12) Soil</b> Sampled: 11/06/01 12:51 Received: 11/06/01 16:55									
Arsenic	18	4.0	mg/kg	1	1K06027	11/06/01	11/06/01	EPA 6010A	
Lead	37	5.0	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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.





CH2M HILL (Oakland)  
Attn. SWR A/P - P.O. Box 7728  
Boise ID, 83707-2748

Project: Cal-Spray Watsonville  
Project Number: Cal-Spray Watsonville  
Project Manager: Keith Sheets

Reported:  
11/06/01 10:02

**Total Metals by EPA 6000/7000 Series Methods  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>A4-EB-14-04-P (MKK0072-01) Soil Sampled: 11/05/01 14:40 Received: 11/05/01 16:27</b>									
Arsenic	15	4.0	mg/kg	1	1K02016	11/02/01	11/05/01	EPA 6010A	
Lead	7.4	5.0	"	"	"	"	"	"	
<b>A4-EB-7-04-P (MKK0072-03) Soil Sampled: 11/05/01 14:55 Received: 11/05/01 16:27</b>									
Arsenic	5.4	4.0	mg/kg	1	1K02016	11/02/01	11/05/01	EPA 6010A	
Lead	6.4	5.0	"	"	"	"	"	"	
<b>A4-SW1-7-04-P (MKK0072-05) Soil Sampled: 11/05/01 15:30 Received: 11/05/01 16:27</b>									
Arsenic	9.3	4.0	mg/kg	1	1K02016	11/02/01	11/05/01	EPA 6010A	
Lead	7.5	5.0	"	"	"	"	"	"	
<b>A4-SW2-7-04-P (MKK0072-06) Soil Sampled: 11/05/01 15:20 Received: 11/05/01 16:27</b>									
Arsenic	130	4.0	mg/kg	1	1K02016	11/02/01	11/05/01	EPA 6010A	
Lead	12	5.0	"	"	"	"	"	"	

7 PAGES

Sample still on  
Zuni side to  
Edge of line.





CH2M HILL (Oakland)  
Attn: SWR A/P - P.O. Box 7028  
Boise ID, 83707-2748

Project: Cal-Spray Watsonville  
Project Number: Cal-Spray Watsonville  
Project Manager: Keith Sheets

Reported:  
11/08/01 06:56

**Total Metals by EPA 6000/7000 Series Methods  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>A4 EB 1 02 P (MKK0135-01) Soil Sampled: 11/07/01 12:50 Received: 11/07/01 18:50</b>									
Arsenic	5.5	4.0	mg/kg	1	1K07039	11/07/01	11/07/01	EPA 6010A	
Lead	8.6	5.0	"	"	"	"	"	"	
<b>A4 EB 11 02 P (MKK0135-03) Soil Sampled: 11/07/01 14:05 Received: 11/07/01 18:50</b>									
Arsenic	8.4	4.0	mg/kg	1	1K07039	11/07/01	11/07/01	EPA 6010A	
Lead	130	5.0	"	"	"	"	"	"	
<b>A4 EB 4 03 Confirmation (MKK0135-05) Soil Sampled: 11/07/01 14:02 Received: 11/07/01 18:50</b>									
Arsenic	6.4	4.0	mg/kg	1	1K07039	11/07/01	11/07/01	EPA 6010A	
Lead	8.2	5.0	"	"	"	"	"	"	
<b>A4 EB 8 02 P (MKK0135-06) Soil Sampled: 11/07/01 13:18 Received: 11/07/01 18:50</b>									
Arsenic	7.5	4.0	mg/kg	1	1K07039	11/07/01	11/07/01	EPA 6010A	
Lead	130	5.0	"	"	"	"	"	"	
<b>A4 SW1 1 02 P (MKK0135-08) Soil Sampled: 11/07/01 12:03 Received: 11/07/01 18:50</b>									
Arsenic	12	4.0	mg/kg	1	1K07039	11/07/01	11/07/01	EPA 6010A	
Lead	39	5.0	"	"	"	"	"	"	
<b>A4 SW1 5 02 P (MKK0135-09) Soil Sampled: 11/07/01 13:34 Received: 11/07/01 18:50</b>									
Arsenic	11	4.0	mg/kg	1	1K07039	11/07/01	11/07/01	EPA 6010A	
Lead	13	5.0	"	"	"	"	"	"	
<b>A4 SW2 1 02 P (MKK0135-10) Soil Sampled: 11/07/01 13:04 Received: 11/07/01 18:50</b>									
Arsenic	18	4.0	mg/kg	1	1K07039	11/07/01	11/07/01	EPA 6010A	
Lead	110	5.0	"	"	"	"	"	"	





**Sequoia  
Analytical**

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CH2M HILL (Oakland)  
Attn: SWR A/P - P.O. Box 1728  
Bole ID: 83707-2748

Project: Cal-Spray Watsonville  
Project Number: Cal-Spray Watsonville  
Project Manager: Keith Sheets

Reported:  
11/07/01 09:57

**Total Metals by EPA 6000/7000 Series Methods  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>A4 SW 6.04 P (MKK0009-13) Soil Sampled: 11/06/01 11:58 Received: 11/06/01 16:55</b>									
Arsenic	6.5	4.0	mg/kg	1	1K06027	11/06/01	11/06/01	EPA 6010A	
Lead	6.4	5.0	"	"	"	"	"	"	
<b>A4 SW 2.7.04 P2 (MKK0009-14) Soil Sampled: 11/06/01 11:21 Received: 11/06/01 16:55</b>									
Arsenic	41	4.0	mg/kg	1	1K06027	11/06/01	11/06/01	EPA 6010A	
Lead	8.6	5.0	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

*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.*





CH2M HILL (Oakland)  
Attn: SWR A/P - P.O. Box 1728  
Boise ID, 83707-2748

Project: Cal-Spray Watsonville  
Project Number: 164824.01.PM  
Project Manager: Keith Sheets

Reported:  
11/09/01 06:32

**Total Metals by EPA 6000/7000 Series Methods  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>A4-EB-10-02-P (MKK0140-01) Soil Sampled: 11/08/01 11:07 Received: 11/08/01 13:26</b>									
Arsenic	6.4	4.0	mg/kg	1	1K08020	11/08/01	11/08/01	EPA 6010A	
Lead	56	5.0	"	"	"	"	"	"	
<b>A4-EB-2-02-P (MKK0140-03) Soil Sampled: 11/08/01 10:06 Received: 11/08/01 13:26</b>									
Arsenic	4.6	4.0	mg/kg	1	1K08020	11/08/01	11/08/01	EPA 6010A	
Lead	42	5.0	"	"	"	"	"	"	
<b>A4-EB-3-02-P (MKK0140-05) Soil Sampled: 11/08/01 10:35 Received: 11/08/01 13:26</b>									
Arsenic	8.5	4.0	mg/kg	1	1K08020	11/08/01	11/08/01	EPA 6010A	
Lead	57	5.0	"	"	"	"	"	"	
<b>A4-EB-0-02-P (MKK0140-07) Soil Sampled: 11/08/01 11:24 Received: 11/08/01 13:26</b>									
Arsenic	8.4	4.0	mg/kg	1	1K08020	11/08/01	11/08/01	EPA 6010A	
Lead	150	5.0	"	"	"	"	"	"	
<b>A4-SW-10-02-P (MKK0140-09) Soil Sampled: 11/08/01 11:20 Received: 11/08/01 13:26</b>									
Arsenic	9.6	4.0	mg/kg	1	1K08020	11/08/01	11/08/01	EPA 6010A	
Lead	16	5.0	"	"	"	"	"	"	
<b>A4-SW-2-02-P (MKK0140-10) Soil Sampled: 11/08/01 10:09 Received: 11/08/01 13:26</b>									
Arsenic	11	4.0	mg/kg	1	1K08020	11/08/01	11/08/01	EPA 6010A	
Lead	20	5.0	"	"	"	"	"	"	
<b>A4-SW-3-02-P (MKK0140-11) Soil Sampled: 11/08/01 10:50 Received: 11/08/01 13:26</b>									
Arsenic	17	4.0	mg/kg	1	1K08020	11/08/01	11/08/01	EPA 6010A	
Lead	52	5.0	"	"	"	"	"	"	

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CH2M HILL (Oakland)  
Attn: SWR A/P - P.O. Box 7028  
Boise ID, 83707-2748

Project: Cal-Spray Watsonville  
Project Number: Cal-Spray Watsonville  
Project Manager: Keith Sheets

Reported:  
11/08/01 06:56

## Total Metals by EPA 6000/7000 Series Methods Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A4 SW2 8 02 P (MKK0135-11) Soln Sampled: 11/07/01 13:36 Received: 11/07/01 18:50									
Arsenic	12	4.0	mg/kg	1	1K07039	11/07/01	11/07/01	EPA 6010A	
Lead	13	5.0	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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CH2M HILL (Oakland)  
Attn: SWR A/P - P.O. Box 7728  
Boise ID, 83707-2748

Project: Cal-Spray Watsonville  
Project Number: Cal-Spray Watsonville  
Project Manager: Keith Sheets

Reported:  
11/08/01 06:56

**Total Metals by EPA 6000/7000 Series Methods  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>A4 EB 1 02 P (MKK0135-01) Soil Sampled: 11/07/01 12:50 Received: 11/07/01 18:50</b>									
Arsenic	5.5	4.0	mg/kg	1	1K07039	11/07/01	11/07/01	EPA 6010A	
Lead	8.6	5.0	"	"	"	"	"	"	
<b>A4 EB 11 02 P (MKK0135-03) Soil Sampled: 11/07/01 14:05 Received: 11/07/01 18:50</b>									
Arsenic	8.4	4.0	mg/kg	1	1K07039	11/07/01	11/07/01	EPA 6010A	
Lead	130	5.0	"	"	"	"	"	"	
<b>A4 EB 4 03 Confirmation (MKK0135-05) Soil Sampled: 11/07/01 14:02 Received: 11/07/01 18:50</b>									
Arsenic	6.4	4.0	mg/kg	1	1K07039	11/07/01	11/07/01	EPA 6010A	
Lead	8.2	5.0	"	"	"	"	"	"	
<b>A4 EB 8 02 P (MKK0135-06) Soil Sampled: 11/07/01 13:18 Received: 11/07/01 18:50</b>									
Arsenic	7.5	4.0	mg/kg	1	1K07039	11/07/01	11/07/01	EPA 6010A	
Lead	130	5.0	"	"	"	"	"	"	
<b>A4 SW1 1 02 P (MKK0135-08) Soil Sampled: 11/07/01 13:02 Received: 11/07/01 18:50</b>									
Arsenic	12	4.0	mg/kg	1	1K07039	11/07/01	11/07/01	EPA 6010A	
Lead	39	5.0	"	"	"	"	"	"	
<b>A4 SW1 8 02 P (MKK0135-09) Soil Sampled: 11/07/01 13:34 Received: 11/07/01 18:50</b>									
Arsenic	11	4.0	mg/kg	1	1K07039	11/07/01	11/07/01	EPA 6010A	
Lead	13	5.0	"	"	"	"	"	"	
<b>A4 SW2 1 02 P (MKK0135-10) Soil Sampled: 11/07/01 13:04 Received: 11/07/01 18:50</b>									
Arsenic	18	4.0	mg/kg	1	1K07039	11/07/01	11/07/01	EPA 6010A	
Lead	110	5.0	"	"	"	"	"	"	





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Attn: SWR A/P - P.O. Box 7728  
Boise ID, 83707-2748

Project: Cal-Spray Watsonville  
Project Number: 164214.01.PM  
Project Manager: Keith Sheets

Reported:  
11/09/01 06:52

**Total Metals by EPA 6000/7000 Series Methods  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A4-SW-9-02-P (MKK0148-12) Soil Sampled: 11/08/01 11:36 Received: 11/08/01 13:26									
Arsenic	4.5	4.0	mg/kg	1	1K08030	11/08/01	11/08/01	EPA 6010A	
Lead	6.7	5.0	"	"	"	"	"	"	

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9 August, 2001

Keith Sheets  
CH2M HILL (Oakland)  
PO Box 12881  
Oakland, CA 94604

RE: Cal-Spray Watsonville  
Sequoia Report: MKH0142

Enclosed are the results of analyses for samples received by the laboratory on 08/08/01 12:57. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Hartley For Wayne Stevenson  
Client Services Manager

CA ELAP Certificate #1210





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CH2M HILL (Oakland)  
PO Box 12681  
Oakland CA. 94604

Project: Cal-Spray Watsonville  
Project Number: Cal-Spray Watsonville  
Project Manager: Keith Sheets

Reported:  
08/09/01 17:13

**Diesel Hydrocarbons (C9-C24) by DHS LUFT**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>3/4-Base (1-2) (MKH0142-01) Soil</b> Sampled: 08/08/01 11:10 Received: 08/08/01 12:57									
<b>Diesel Range Organics (C9-C24)</b>	3.0	1.0	mg/kg	1	IH09012	08/09/01	08/09/01	DHS LUFT	D-15
Surrogate: n-Pentacosane		71.9 %	50-150		"	"	"	"	
<b>Overburden (1-2) (MKH0142-02) Soil</b> Sampled: 08/08/01 11:46 Received: 08/08/01 12:57									
<b>Diesel Range Organics (C9-C24)</b>	ND	1.0	mg/kg	1	IH09012	08/09/01	08/09/01	DHS LUFT	
Surrogate: n-Pentacosane		77.8 %	50-150		"	"	"	"	

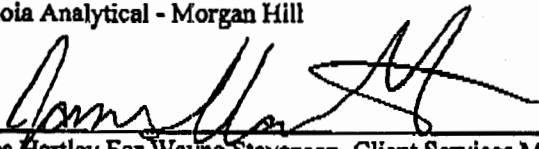


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PO Box 12681  
Oakland CA, 94604Project: Cal-Spray Watsonville  
Project Number: Cal-Spray Watsonville  
Project Manager: Keith SheetsReported:  
08/09/01 17:13

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
3/4-Base (1-2)	MKH0142-01	Soil	08/08/01 11:10	08/08/01 12:57
Overburden (1-2)	MKH0142-02	Soil	08/08/01 11:46	08/08/01 12:57

Sequoia Analytical - Morgan Hill

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James Hartley For Wayne Stevenson, Client Services Manager





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Project: Cal-Spray Watsonville  
Project Number: Cal-Spray Watsonville  
Project Manager: Keith Sheets

Reported:  
08/09/01 17:13

**Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1H09012 - EPA 3550A</b>										
<b>Blank (1H09012-BLK1)</b>				Prepared & Analyzed: 08/09/01						
Diesel Range Organics (C9-C24)	ND	1.0	mg/kg							
Surrogate: n-Pentacosane	1.40		"	1.67		83.8	50-150			
<b>LCS (1H09012-B51)</b>				Prepared & Analyzed: 08/09/01						
Diesel Range Organics (C9-C24)	12.4	1.0	mg/kg	16.7		74.3	60-140			
Surrogate: n-Pentacosane	1.30		"	1.67		77.8	50-150			
<b>LCS Dup (1H09012-BSD1)</b>				Prepared & Analyzed: 08/09/01						
Diesel Range Organics (C9-C24)	13.0	1.0	mg/kg	16.7		77.8	60-140	4.72	40	
Surrogate: n-Pentacosane	1.40		"	1.67		83.8	50-150			





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Project: Cal-Spray Watsonville  
Project Number: Cal-Spray Watsonville  
Project Manager: Keith Sheets

Reported:  
08/09/01 17:13

## Total Metals by EPA 6000/7000 Series Methods Sequoia Analytical - Morgan Hill

Analytic	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>3/4-Base (1-2) (MKH0142-01) Soil</b> Sampled: 08/08/01 11:10 Received: 08/08/01 12:57									
Mercury	0.043	0.0037	mg/kg	1	1H08034	08/08/01	08/09/01	EPA 7471A	
Antimony	ND	1.9	"	"	1H08018	08/08/01	08/09/01	EPA 6010A	
Arsenic	ND	3.8	"	"	"	"	"	"	
Barium	66	4.8	"	"	"	"	"	"	
Beryllium	ND	0.48	"	"	"	"	"	"	
Cadmium	ND	0.58	"	"	"	"	"	"	
Chromium	ND	5.8	"	"	"	"	"	"	
Cobalt	6.1	0.96	"	"	"	"	"	"	
Copper	52	1.9	"	"	"	"	"	"	
Lead	ND	4.8	"	"	"	"	"	"	
Molybdenum	ND	0.96	"	"	"	"	"	"	
Nickel	1.8	0.96	"	"	"	"	"	"	
Selenium	ND	4.8	"	"	"	"	"	"	
Silver	ND	1.4	"	"	"	"	"	"	
Thallium	ND	1.7	"	"	"	"	"	"	
Vanadium	50	1.4	"	"	"	"	"	"	
Zinc	27	6.7	"	"	"	"	"	"	

### Overburden (1-2) (MKH0142-02) Soil Sampled: 08/08/01 11:46 Received: 08/08/01 12:57

Mercury	0.015	0.0039	mg/kg	1	1H08034	08/08/01	08/09/01	EPA 7471A	
Antimony	ND	2.0	"	"	1H08018	08/08/01	08/09/01	EPA 6010A	
Arsenic	ND	3.9	"	"	"	"	"	"	
Barium	64	4.9	"	"	"	"	"	"	
Beryllium	ND	0.49	"	"	"	"	"	"	
Cadmium	ND	0.59	"	"	"	"	"	"	
Chromium	14	5.9	"	"	"	"	"	"	
Cobalt	11	0.98	"	"	"	"	"	"	
Copper	51	2.0	"	"	"	"	"	"	
Lead	ND	4.9	"	"	"	"	"	"	
Molybdenum	ND	0.98	"	"	"	"	"	"	
Nickel	11	0.98	"	"	"	"	"	"	
Selenium	ND	4.9	"	"	"	"	"	"	
Silver	ND	1.5	"	"	"	"	"	"	
Thallium	ND	1.8	"	"	"	"	"	"	
Vanadium	62	1.5	"	"	"	"	"	"	
Zinc	36	6.9	"	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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PO Box 12681  
Oakland CA, 94604

Project: Cal-Spray Watsonville  
Project Number: Cal-Spray Watsonville  
Project Manager: Keith Sheets

Reported:  
08/09/01 17:13

**Total Metals by EPA 6000/7000 Series Methods - Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1H08018 - EPA 3050B</b>										
<b>Matrix Spike (1H08018-MS1)</b>	<b>Source: MKH0094-01</b>			<b>Prepared: 08/08/01</b>		<b>Analyzed: 08/09/01</b>				
Antimony	14.6	1.9	mg/kg	48.1	ND	30.4	80-120			Q-02
Arsenic	47.5	3.8	"	48.1	ND	98.8	80-120			
Barium	86.2	4.8	"	48.1	39	98.1	80-120			
Beryllium	47.0	0.48	"	48.1	ND	97.7	80-120			
Cadmium	46.6	0.58	"	48.1	ND	96.9	80-120			
Chromium	77.1	5.8	"	48.1	30	97.9	80-120			
Cobalt	54.3	0.96	"	48.1	8.0	96.3	80-120			
Copper	62.3	1.9	"	48.1	15	98.3	80-120			
Lead	55.0	4.8	"	48.1	10	93.6	80-120			
Molybdenum	44.2	0.96	"	48.1	ND	91.9	80-120			
Nickel	76.7	0.96	"	48.1	33	90.9	80-120			
Selenium	45.6	4.8	"	48.1	ND	94.8	80-120			
Silver	43.9	1.4	"	48.1	ND	91.3	80-120			
Thallium	37.4	1.7	"	48.1	ND	77.8	80-120			Q-02
Vanadium	81.3	1.4	"	48.1	35	96.3	80-120			
Zinc	92.7	6.7	"	48.1	56	76.3	80-120			Q-02
<b>Matrix Spike Dup (1H08018-MSD1)</b>	<b>Source: MKH0094-01</b>			<b>Prepared: 08/08/01</b>		<b>Analyzed: 08/09/01</b>				
Antimony	13.1	2.0	mg/kg	50.5	ND	25.9	80-120	10.8	20	Q-02
Arsenic	51.1	4.0	"	50.5	ND	101	80-120	7.30	20	
Barium	80.9	5.1	"	50.5	39	83.0	80-120	6.34	20	
Beryllium	49.8	0.51	"	50.5	ND	98.6	80-120	5.79	20	
Cadmium	50.0	0.61	"	50.5	ND	99.0	80-120	7.04	20	
Chromium	82.5	6.1	"	50.5	30	104	80-120	6.77	20	
Cobalt	57.2	1.0	"	50.5	8.0	97.4	80-120	5.20	20	
Copper	62.9	2.0	"	50.5	15	94.9	80-120	0.958	20	
Lead	55.2	5.1	"	50.5	10	89.5	80-120	0.363	20	
Molybdenum	46.7	1.0	"	50.5	ND	92.5	80-120	5.50	20	
Nickel	79.9	1.0	"	50.5	33	92.9	80-120	4.09	20	
Selenium	47.5	5.1	"	50.5	ND	94.1	80-120	4.08	20	
Silver	47.5	1.5	"	50.5	ND	94.1	80-120	7.88	20	
Thallium	42.3	1.8	"	50.5	ND	83.8	80-120	12.3	20	
Vanadium	83.4	1.5	"	50.5	35	95.8	80-120	2.55	20	
Zinc	93.8	7.1	"	50.5	56	74.9	80-120	1.18	20	Q-02

Sequoia Analytical - Morgan Hill

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CH2M HILL (Oakland)  
PO Box 12681  
Oakland CA, 94604

Project: Cal-Spray Watsonville  
Project Number: Cal-Spray Watsonville  
Project Manager: Keith Sheets

Reported:  
08/09/01 17:13

## Total Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 1H08018 - EPA 3050B

#### Blank (1H08018-BLK1)

Prepared: 08/08/01 Analyzed: 08/09/01

Antimony	ND	2.0	mg/kg
Arsenic	ND	4.0	"
Barium	ND	5.0	"
Beryllium	ND	0.50	"
Cadmium	ND	0.60	"
Chromium	ND	6.0	"
Cobalt	ND	1.0	"
Copper	ND	2.0	"
Lead	ND	5.0	"
Molybdenum	ND	1.0	"
Nickel	ND	1.0	"
Selenium	ND	5.0	"
Silver	ND	1.5	"
Thallium	ND	1.8	"
Vanadium	ND	1.5	"
Zinc	ND	7.0	"

#### LCS (1H08018-BS1)

Prepared: 08/08/01 Analyzed: 08/09/01

Antimony	49.6	2.0	mg/kg	50.0	99.2	80-120
Arsenic	51.2	4.0	"	50.0	102	80-120
Barium	51.8	5.0	"	50.0	104	80-120
Beryllium	52.0	0.50	"	50.0	104	80-120
Cadmium	51.2	0.60	"	50.0	102	80-120
Chromium	52.2	6.0	"	50.0	104	80-120
Cobalt	52.2	1.0	"	50.0	104	80-120
Copper	51.6	2.0	"	50.0	103	80-120
Lead	52.4	5.0	"	50.0	105	80-120
Molybdenum	51.8	1.0	"	50.0	104	80-120
Nickel	53.1	1.0	"	50.0	106	80-120
Selenium	50.5	5.0	"	50.0	101	80-120
Silver	49.1	1.5	"	50.0	98.2	80-120
Thallium	50.4	1.8	"	50.0	101	80-120
Vanadium	52.1	1.5	"	50.0	104	80-120
Zinc	60.4	7.0	"	50.0	121	80-120

Q-01

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PO Box 12681  
Oakland CA, 94604Project: Cal-Spray Watsonville  
Project Number: Cal-Spray Watsonville  
Project Manager: Keith SheetsReported:  
08/09/01 17:13**Notes and Definitions**

- D-15 Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- Q-02 The spike recovery for this quality control sample is outside of the established control limits due to interference from the sample matrix. However, the accuracy of the data was validated by a laboratory control sample which was within acceptance limits.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

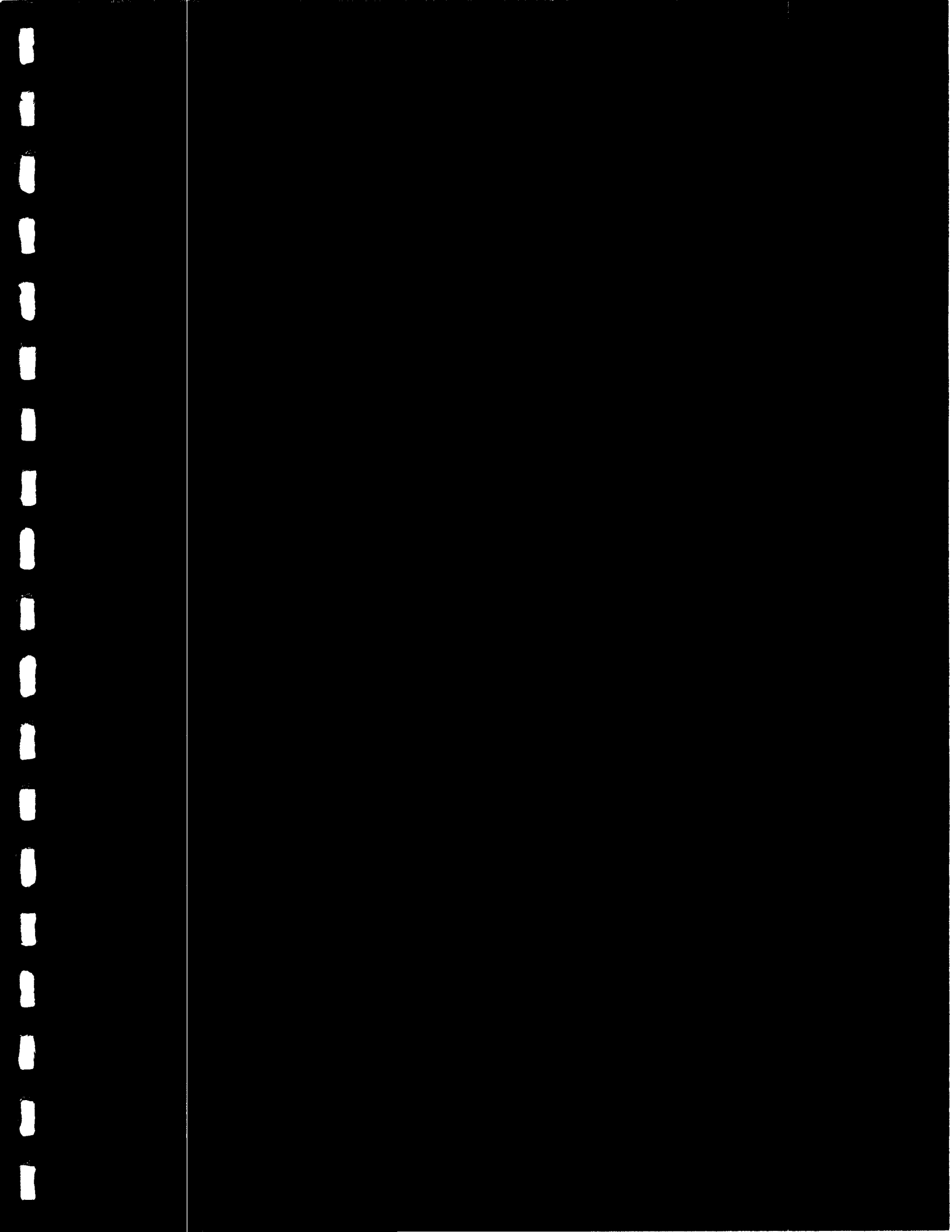


Page 1 of 1		Chain of Custody Record				MKH0142		
<b>COC Number</b> SQA-001 <b>Project Name</b> Cal Spray <b>Project Location</b> Watsonville		<b>Project Number</b> 164824.01.PM <b>Project Manager</b> Keith Sheets <b>Sample Manager</b> Michael Sanchez				<b>Turnaround Time</b> 1 days <b>QC Level</b> 2		
						<b>August 08, 2001</b> <b>Lab 1 #</b> SQA <b>Lab 2 #</b> <span style="border: 1px solid black; padding: 0 10px;"> </span>		
						CH2MHill For Lab Use		
Sample Date/Time	Field ID	Type	Matrix	# Containers	Analysis Requested	Field Filtered	Remarks	
08-Aug-01 1110	3/4_Base1	N	SOIL	2	SW8015E	<input checked="" type="checkbox"/>	Title 22 Metals	
2				SW8015E	<input checked="" type="checkbox"/>	Total Extractable Petroleum Hydrocarbons		
Total Containers				2	MS			
08-Aug-01 1111	3/4_Base2	N	SOIL	2	SW8015E	<input checked="" type="checkbox"/>	Title 22 Metals	
2				SW8015E	<input checked="" type="checkbox"/>	Total Extractable Petroleum Hydrocarbons		
Total Containers				2	MS			
08-Aug-01 1145	Overburden1	N	SOIL	2	SW8015E	<input checked="" type="checkbox"/>	Title 22 Metals	
2				SW8015E	<input checked="" type="checkbox"/>	Total Extractable Petroleum Hydrocarbons		
Total Containers				2	MS			
08-Aug-01 1146	Overburden2	N	SOIL	2	SW8015E	<input checked="" type="checkbox"/>	Title 22 Metals	
2				SW8015E	<input checked="" type="checkbox"/>	Total Extractable Petroleum Hydrocarbons		
Total Containers				2	MS			
<b>Signatures</b> Sampled by <u>[Signature]</u> Relinquished by <u>[Signature]</u> Received by <u>[Signature]</u> Shipped by <u>                    </u>		<b>Date/Time</b> 8/8/01 1110 8/8/01 1257 8-8-01 1257		<b>Shipping Details</b> Method of Shipment Sequoia Analytic Airbill No. Lab Name Sequoia Analytical Lab Phone (408) 776-9600		<b>ATTN:</b> Sample Custody and Paul Hagey		
						<b>Special Instructions</b> Report Copy to Keith Sheets (510) 251-2426 Michael Sanchez		















Backfilling operations for Areas 2 and 3 took place simultaneously. The attached density test report includes compaction testing results for Areas 2, 3, and 4.

Areas 2 and 3 test numbers, as referenced in the attached report include Test No. 1 through Test number 82. The test locations corresponding to Area 2 referred in the attached report include the following: locations 1A through 6A and 1B through 6B, with partial overlap with Area 2 at locations 7A and 7B. The test locations corresponding to Area 3 referred in the attached report include the following: locations 8A, 8B, 9A, and 9B, with partial overlap with Area 2 at locations 7A and 7B.

Area 4 density test results for compaction of imported backfill are referenced in the attached report as Test Numbers 83 through 92.







**T H A R P & A S S O C I A T E S, I N C.**  
SITE ASSESSMENTS - FOUNDATION ENGINEERING - CONSTRUCTION MONITORING

347 Spreckels Drive • Aptos • CA • 95003 • Phone: (831) 662-8590 • Fax: (831) 662-8592

December 3, 2001

Job No. 01-71

Mr. Jeff Deacon  
DCM Construction & Services, Inc.  
7172 Regional St. #139  
Dublin, CA 94568

SUBJECT: **DENSITY TESTS RESULTS**  
Cal-Spray-Chevron  
Riverside/Locust St.  
Watsonville, California

Dear Mr. Deacon:

As requested, our representative was present on an intermittent basis from September 6 through November 28, 2001 to perform density testing services on the import backfill for the excavations within the native soil removal areas designated in Table II under "Location". The results of our testing are presented on the attached Summary of Field Density Test Results.

Field density testing was performed utilizing a nuclear test gauge in accordance with test procedures ASTM #D2922-96 (density) and ASTM #D3017-96 (moisture content). Field moisture and density tests were compared as a percentage of relative compaction to the laboratory tests performed upon the potential fill and native soil in accordance with test procedure ASTM #D1557-91. The results of the laboratory compaction curve and field in-place moisture content and dry density tests are shown on the enclosed Tables I and II. In addition, the relative compaction is shown as a percentage of each of the field tests.

These results are valid as of the test dates noted. However, excess rain, ponded water, grading without observation, or site disturbance may result in changes to the in-place densities and the relative dry densities.

The scope of our services for this project is limited to density testing only. The design and engineering oversight was provided by others. Our firm makes no warranty, expressed or implied, as to the adequacy of the design or the suitability of the fill.



Density Test Results  
Cal-Spray-Chevron  
Watsonville, California

Job No. 01-71  
December 3, 2001  
Page No. 2

If you have any questions, or if we may be of further assistance, please do not hesitate to contact our office.

Sincerely,

Tharp & Associates, Inc.



Don M. Tharp, P.E.  
Principal Engineer  
R.C.E. 46432  
Expires 03/31/03

Distribution: (3) Addressee  
(1) Cecil Gore, CH2MHILL

Deb C:\Deb's Reports\Chevron Project DT 01-71.wpd



01-71  
December 3, 2001

CURVE NUMBER	SOURCE AND SOIL DESCRIPTION	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE CONTENT (%)
1	Import: Aromas Class II BASEROCK	143.5	6
1A	Import: Aromas Class II BASEROCK	145	5.8



01-71  
December 3, 2001

Test No.	Date of Test	Location	Elevation	Moisture Content (%)	Dry Density (pcf)	Relative Compaction (%)	Curve No.	Remarks
1	09/06/01	Pista/Walker, area 3-B, N. end	FAB	3.6	136.5	94.1*	1	Re-ck #3
2	09/06/01	Pista/Walker, area 3-B, S. end	FAB	4.2	137.0	94.5*	1	Re-ck #5
3	09/07/01	Re-test #1	FAB	8.1	134.5	92.8*	1	Re-ck #4
4	09/07/01	Re-test #3	FAB	7.4	141.0	97.2	1	
5	09/07/01	Re-test #2	FAB	6.9	138.3	95.4	1	
6	09/19/01	1A	21.81	8.4	130.4	90.9	1	
7	09/19/01	2A	21.81	6.9	141.1	98.3	1	
8	09/19/01	4A	11.76	8.2	136.8	95.3	1	
9	09/19/01	5A	11.76	8.1	130.6	91.0	1	
10	09/19/01	6A	19.13	5.9	134.2	93.5	1	
11	09/19/01	7A	19.13	6.8	136.0	94.8	1	
12	09/19/01	8A	20.47	6.5	137.2	95.6	1	
13	09/19/01	9A	20.47	5.6	132.3	92.2	1	
14	09/19/01	1A	22.48	6.7	138.8	96.7	1	
15	09/19/01	2A	22.48	7.4	135.2	94.2	1	
16	09/19/01	4A	12.43	7.2	132.2	92.1	1	
17	09/19/01	5A	12.43	7.3	141.8	98.8	1	
18	09/19/01	6A	19.80	7.7	136.3	95.0	1	
19	09/19/01	7A	19.80	7.8	139.4	97.2	1	
20	09/19/01	8A	21.14	7.3	139.3	97.1	1	
21	09/19/01	7A	21.14	7.8	139.4	97.2	1	
22	09/20/01	4A	13.10	6.7	139.3	97.1	1	
23	09/20/01	3A	23.15	7.4	137.1	95.5	1	
24	09/20/01	1A	23.15	5.6	128.3	89.4	1	Reworked
25	09/20/01	2A	23.15	8.5	139.2	97.0	1	

Note: Numbers under Curve No. and Remarks refer to Table I

\* Denotes Failing Tests

DCM CONST

EC-07-2001 04:45 AM  
5208R01557



01-71  
December 3, 2001

Test No.	Date of Test	Location	Elevation	Moisture Content (%)	Dry Density (pcf)	Relative Compaction (%)	Curve No.	Remarks
26	09/20/01	4A	15.78	7.1	140.4	97.9	1	
27	09/20/01	5A	17.79	7.5	141.4	98.5	1	
28	09/20/01	6A	17.79	5.7	138.1	96.2	1	
29	09/21/01	4A	17.79	7.4	137.1	95.6	1	
30	09/21/01	7A	21.81	8.4	139.8	97.4	1	
31	09/24/01	8A	21.14	5.0	136.3	95.0	1	
32	09/24/01	9A	21.14	6.7	133.7	93.2	1	
33	09/24/01	3A	18.46	6.7	138.5	96.5	1	
34	09/24/01	5A	18.46	8.2	140.2	97.7	1	
35	09/24/01	9A	23.15	7.1	135.3	94.3	1	
36	09/24/01	8A	23.15	7.5	138.4	96.4	1	
37	09/24/01	6A	20.47	6	132.6	92.4	1	
38	09/24/01	5A	20.47	6.5	137.7	96.0	1	
39	09/24/01	4A	20.47	5.1	137.2	95.6	1	
40	09/25/01	9A	25.16	5.5	136.0	94.8	1	
41	09/25/01	8A	25.16	7.5	130.0	90.6	1	
42	09/25/01	9A	26.26	4.6	141.2	98.4	1	
43	09/25/01	8A	25.18	8.6	135.4	94.4	1	
44	09/26/01	9A	26.67	5.6	137.9	95.1	1A	
45	09/26/01	8B	26.67	5.3	136.5	94.1*	1A	Failed
46	09/26/01	7A	26.67	6.7	137.4	94.8*	1A	Failed
47	09/26/01	8b, Re-test #45	26.67	6.7	142.0	97.9	1A	
48	09/27/01	7A, Re-test #46	26.67	6.7	137.7	95.0	1A	
49	09/27/01	4A	21.14	6.2	141.6	98.7	1	
50	09/27/01	5A	21.14	6.8	140.9	98.2	1	

Note: Numbers under Curve No. and Remarks refer to Table 1

\* Denotes Failing Tests



01-71  
December 3, 2001

Test No.	Date of Test	Location	Elevation	Moisture Content (%)	Dry Density (pcf)	Relative Compaction (%)	Curve No.	Remarks
51	09/27/01	6A	21.14	7.3	136.5	95.1	1	
52	09/27/01	6B	21.14	6.2	140.2	97.7	1	
53	09/27/01	5B	21.14	6.6	134.0	93.4	1	
54	10/02/01	4A	23.15	7.7	138.5	95.5	1A	
55	10/02/01	5A	23.15	7.2	140.9	97.1	1A	
56	10/02/01	6A	23.15	6.8	140.0	96.6	1A	
57	10/02/01	6B	23.15	8.6	138.9	95.8	1A	
58	10/02/01	5B	23.15	7.0	136.5	94.1*	1A	
59	10/02/01	4B	23.15	6.3	136.3	94.0*	1A	
60	10/02/01	5B, Re-test #58	23.15	5.8	138.2	95.3	1A	
61	10/03/01	4B, Re-test #59	23.15	7.2	142.2	98.1	1A	
62	10/03/01	7A	23.15	8.5	137.5	94.8	1A	
63	10/03/01	7B	23.15	6.8	140.2	96.7	1A	
64	10/03/01	7A, Re-test #62	23.15	7.9	140.0	96.6	1A	
65	10/04/01	7A	25.16	7.8	139.6	96.3	1A	
66	10/04/01	6A	25.16	8.0	142.4	98.2	1A	
67	10/04/01	5A	25.16	7.1	142.5	98.3	1A	
68	10/05/01	7B	25.16	6.2	132.9	91.7*	1A	Failed
69	10/08/01	7B, Re-test #68	25.16	7.9	137.9	95.1	1A	
70	10/08/01	6B	25.16	9.2	140.6	97.0	1A	
71	10/08/01	5B	25.16	9.2	137.2	94.6*	1A	Failed
72	10/08/01	5B, Re-test #71	25.16	8.6	139.1	95.9	1A	
73	10/12/01	8B	23.15	8.8	144.2	99.4	1A	
74	10/12/01	8B	24.34	7.2	133.8	92.3	1A	
75	10/18/01	T25	24.54	6.9	134.6	92.8*	1A	Failed

Note: Numbers under Curve No. and Remarks refer to Table 1

\* Denotes Failing Tests

DOM CONST

01/2001 22:26 9258031557  
07-2001 04:14 AM



01-11  
December 3, 2001

Test No.	Date of Test	Location	Elevation	Moisture Content (%)	Dry Density (pcf)	Relative Compaction (%)	Curve No.	Remarks
76	10/18/01	T25, Re-test #75	24.86	5.4	143.1	98.7	1A	
77	10/19/01	1D	24.54	8.0	143.3	98.8	1A	
78	10/19/01	2D	24.86	8.6	142.3	98.1	1A	
79	10/19/01	3D	25.00	7.9	138.8	95.7	1A	
80	10/19/01	3C	25.00	8.8	139.1	95.9	1A	
81	10/19/01	2C	24.86	5.1	142.4	98.2	1A	
82	10/19/01	1C	24.54	6.9	145.6	100.0	1A	
83	11/20/01	3D	23.91	5.6	142.6	98.3	1A	
84	11/20/01	3C	23.62	6.3	142.7	98.4	1A	
85	11/20/01	2Cb	23.85	6.3	142.8	98.4	1A	
86	11/20/01	2Ca	23.40	6.6	140.5	96.9	1A	
87	11/28/01	1C	24.32	6.5	142.4	98.2	1A	
88	11/28/01	1D	24.43	8.2	141.4	97.5	1A	
89	11/28/01	3C	24.87	8.1	142.9	98.6	1A	
90	11/28/01	2C	24.48	6.8	142.2	98.1	1A	
91	11/28/01	2D	24.90	8.5	143.0	98.6	1A	
92	11/28/01	3D	25.54	8.1	141.1	97.3	1A	

Note: Numbers under Curve No. and Remarks refer to Table I

\* Denotes Failing Tests

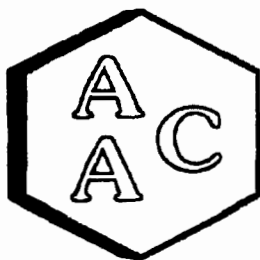












## Atmospheric Analysis & Consulting, Inc.

### *Laboratory Analysis Report*

CLIENT : Tracer

PROJECT NO. : Cal Spray H&S/300-01-1392

SAMPLE MEDIA : Filter

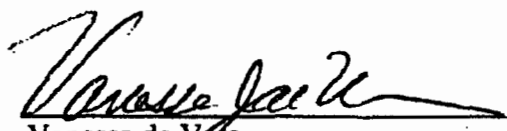
SAMPLING DATE : 11/05-08/01

RECEIVING DATE : 12/04/2001

ANALYSIS DATE : 12/05/2001

REPORT DATE : 12/17/2001

Analysis Method- Gravimetric		
Client Sample ID	AAC Lab No.	TSP mg/sample
112405	1392-1	29
112406	1392-2	86
112407	1392-3	44
112408	1392-4	55
112409	1392-5	<0.1
2121	1392-6	157
2122	1392-7	30
2123	1392-8	29
2126	1392-9	5

  
Vanessa de Vera  
Lab Manager







# American Environmental Testing Laboratory Inc.

2834 North Nacini Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

## Ordered By

Atmospheric Analysis & Consulting  
1521 Eastman Avenue, Suite A  
Ventura, CA 93003

Telephone: (805) 650-1642  
Attention: Sucha Parmar

Number of Pages: 11  
Date Received: 12/06/2001  
Date Reported: 12/18/2001

Job Number	Order Date	Client
20536	12/06/2001	AA&C

Project ID: 300-01-1392

Enclosed please find results of analyses of 9 solid waste samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By:

*Gary Mullen*

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



## CHAIN OF CUSTODY RECORD

Client/Project Name <b>AAC</b>			Project Location <b>GIS spray H&amp;S / Thru-SM</b>			ANALYSES		
Project No. <b>300-01-1392</b>			Field Logbook No.			<div style="text-align: center;"> </div>		
Sampler: (Signature)			Chain of Custody Tape No.					
Sample No. Identification	Date	Time	Lab Sample Number	Type of Sample				REMARKS
1392-1	11/6/01	1453		P.1/ten	X			AE 106657
1392-2	11/6/01	1457		"	X			AE 106658
1392-3	11/5/01	1551		"	X			AE 106659
1392-4	11/5/01	1553		"	X			AE 106660
1392-5	11/5/01	1549		"	X			AE 106661
1392-6	11/7/01	1426		"	X			AE 106662
1392-7	11/7/01	1429		"	X			AE 106663
1392-8	11/8/01	1144		"	X			AE 106664
Relinquished by: (Signature) <i>[Signature]</i>				Date //	Time	Received by: (Signature) <i>[Signature]</i>		Date // Time AE 106665
Relinquished by: (Signature) <i>[Signature]</i>				Date	Time	Received by: (Signature)		Date // Time
Relinquished by: (Signature)				Date	Time	Received for Laboratory: (Signature) <i>[Signature]</i> CALIFORNIA - OROVILLE		Date // Time 12/6 8:40 AM
Sample Disposal Method:				Disposed of by: (Signature) <i>[Signature]</i>				Date // Time
SAMPLE COLLECTOR				ANALYTICAL LABORATORY				 Sucha S. Parmar, Ph.D. President
197-3-84				ATMOSPHERIC ANALYSIS & CONSULTING, INC. Air Quality Analytical Laboratory 1534 Eastman Avenue, Suite A Ventura, California 93003 (805) 650-1642 FAX (805) 650-1644				

#1892 P.003/005

AETU

DEC.18.2001 15:21 818 845 8840

Received Fax: DEC.18.2001 3:52PM Fax Station: HP LASERJET 1200





# American Environmental Testing Laboratory Inc.

2834 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

## ANALYTICAL RESULTS

### Ordered By

Atmospheric Analysis & Consulting  
1634 Eastman Avenue  
Suite A  
Ventura, CA 93003

Telephone: (805) 650-1642

Attn: Sucha Parmar

Page 2

Project ID: 300-01-1392

AETL Job Number	Submitted	Client
20536	12/06/2001	AA&C

Analytes	Arsenic	Lead		
Methods of Analyses	(60108SCAN)	(60108SCAN)		
Date Prepared	12/10/2001	12/10/2001		
Date Analyzed	12/13/2001	12/13/2001		
Matrix	Solid Waste	Solid Waste		
QC Batch Number	12102001 / 12102001	12102001 / 12102001		
Units	ug/Sample	ug/Sample		
Method Detection Limit	0.10	0.05		
Practical Quantitation Limit	0.10	0.05		
Dilution Factor	1	1		
Lab ID	Sample ID	Sampled	Results	Results
AE106657	1392-1	11/06/2001	4.59	4.88
AE106658	1392-2	11/06/2001	6.38	6.52
AE106659	1392-3	11/05/2001	6.45	6.71
AE106660	1392-4	11/05/2001	8.05	5.01
AE106661	1392-5	11/05/2001	10.0	1.94
AE106662	1392-6	11/07/2001	5.40	6.61
AE106663	1392-7	11/07/2001	6.38	4.69
AE106664	1392-8	11/08/2001	4.31	2.36
AE106665	1392-9	11/08/2001	3.74	2.80
N/A	Method Blank	11/08/2001	ND	ND





# American Environmental Testing Laboratory Inc.

2834 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL -- (818) 845-8200 - Fax: (818) 845-8840 - www.aetlab.com

## ANALYTICAL RESULTS

### Ordered By

Atmospheric Analysis & Consulting  
1534 Bascom Avenue  
Suite A  
Ventura, CA 93003

Telephone: (805) 650-1642

Attn: Sucha Parmar

Page: 3

Project ID: 300-01-1392

AETL Job Number	Submitted	Client
20536	12/06/2001	AA&C

Method: (6010BSCAN), Arsenic and Lead in Filter Sample by ICP

## QUALITY CONTROL REPORT

QC Batch Number: 12102001 / 12102001

Analyses	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	1.00	1.00	100	1.00	0.99	99	1.0	80-120	<15
Lead	1.00	0.92	92	1.00	0.92	92	<1	80-120	<15

QC Batch Number: 12102001 / 12102001

Analyses	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit
Arsenic	1.00	1.00	100	80-120
Lead	1.00	0.92	92	80-120

#1892 P.005/005

AETL

DEC 18 '2001 15:22 818 845 8840



## Chain of Custody Record



COC Number AAC-008

Project Name Cal Spray H&amp;S

Project Location Watsonville

Project Number 164824.01.HS

Project Manager Keith Sheets

Sample Manager Michael Sanchez  
(530) 604-4901

Turnaround Time 21 days

QC Level 2

December 03, 2001

GH2MHILL

Lab 1 # AAC

Lab 2 # 

For Lab Use

Sample Date/Time	Field ID	Type	Matrix	# Containers	Analysis Requested	Field Filtered	Remarks	Lab1	Lab 2
06-Nov-01 1453	112405	N	AIR	1	GenChem	<input type="checkbox"/>	Gravimetric	<input type="text"/>	<input type="text"/>
				1	SW6010	<input type="checkbox"/>	Metals; As, Pb	<input type="text"/>	<input type="text"/>
Total Containers				2					
06-Nov-01 1456	112406	N	AIR	1	GenChem	<input type="checkbox"/>	Gravimetric	<input type="text"/>	<input type="text"/>
				1	SW6010	<input type="checkbox"/>	Metals; As, Pb	<input type="text"/>	<input type="text"/>
Total Containers				2					
05-Nov-01 1551	112407	N	AIR	1	GenChem	<input type="checkbox"/>	Gravimetric	<input type="text"/>	<input type="text"/>
				1	SW6010	<input type="checkbox"/>	Metals; As, Pb	<input type="text"/>	<input type="text"/>
Total Containers				2					
05-Nov-01 1553	112408	N	AIR	1	GenChem	<input type="checkbox"/>	Gravimetric	<input type="text"/>	<input type="text"/>
				1	SW6010	<input type="checkbox"/>	Metals; As, Pb	<input type="text"/>	<input type="text"/>
Total Containers				2					

Signatures		Date/Time	Shipping Details		ATTN:	Special Instructions
Sampled by	<input type="text"/>	<input type="text"/>	Method of Shipment	Airborne Express	Sample Custody and Sucha Pumar	Report Copy to Keith Sheets (510) 251-2426
Relinquished by	<input type="text"/>	<input type="text"/>	Airbill No.			
Received by	<input type="text"/>	<input type="text"/>	Lab Name	Atmospheric Analysis & Consulting		
Relinquished by	<input type="text"/>	<input type="text"/>	Lab Phone	(805) 650-1644		
Received by	<input type="text"/>	<input type="text"/>				



## Chain of Custody Record

COC Number AAC-008

Project Name Cal Spray H&amp;S

Project Location Watsonville

Project Number 164824.01.HS

Project Manager Keith Sheets

Sample Manager Michael Sanchez  
(530) 604-4901

Turnaround Time 21 days

QC Level 2

December 03, 2001

Lab 1 # AAC

Lab 2 # 

CH2MHILL

For Lab Use

Sample Date/Time	Field ID	Type	Matrix	# Containers	Analysis Requested	Field Filtered	Remarks	Lab1	Lab 2
05-Nov-01 1549	112409	N	AIR						
				1	GenChem	<input type="checkbox"/>	Gravimetric		
				1	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers	2				
07-Nov-01 1426	2121	N	AIR						
				1	GenChem	<input type="checkbox"/>	Gravimetric		
				1	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers	2				
07-Nov-01 1429	2122	N	AIR						
				1	GenChem	<input type="checkbox"/>	Gravimetric		
				1	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers	2				
08-Nov-01 1146	2123	N	AIR						
				1	GenChem	<input type="checkbox"/>	Gravimetric		
				1	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers	2				

Signatures	Date/Time	Shipping Details	ATTN:	Special Instructions
Sampled by _____	_____	Method of Shipment Airborne Express		
Relinquished by _____	_____	Airbill No. _____	Sample Custody	Report Copy to
Received by _____	_____	Lab Name Atmospheric Analysis & Consulting	and	Keith Sheets
Relinquished by _____	_____	Lab Phone (805) 650-1644	Sucha Pumar	(510) 251-2426
Received by _____	_____			



## Chain of Custody Record

COC Number AAC-008  
 Project Name Cal Spray H&S  
 Project Location Watsonville

Project Number 164824.01.HS

Project Manager Keith Sheets

Sample Manager Michael Sanchez  
 (530) 604-4901

Turnaround Time 21 days

QC Level 2

December 03, 2001

CH2MHILL

Lab 1 # AAC

Lab 2 #

For Lab Use

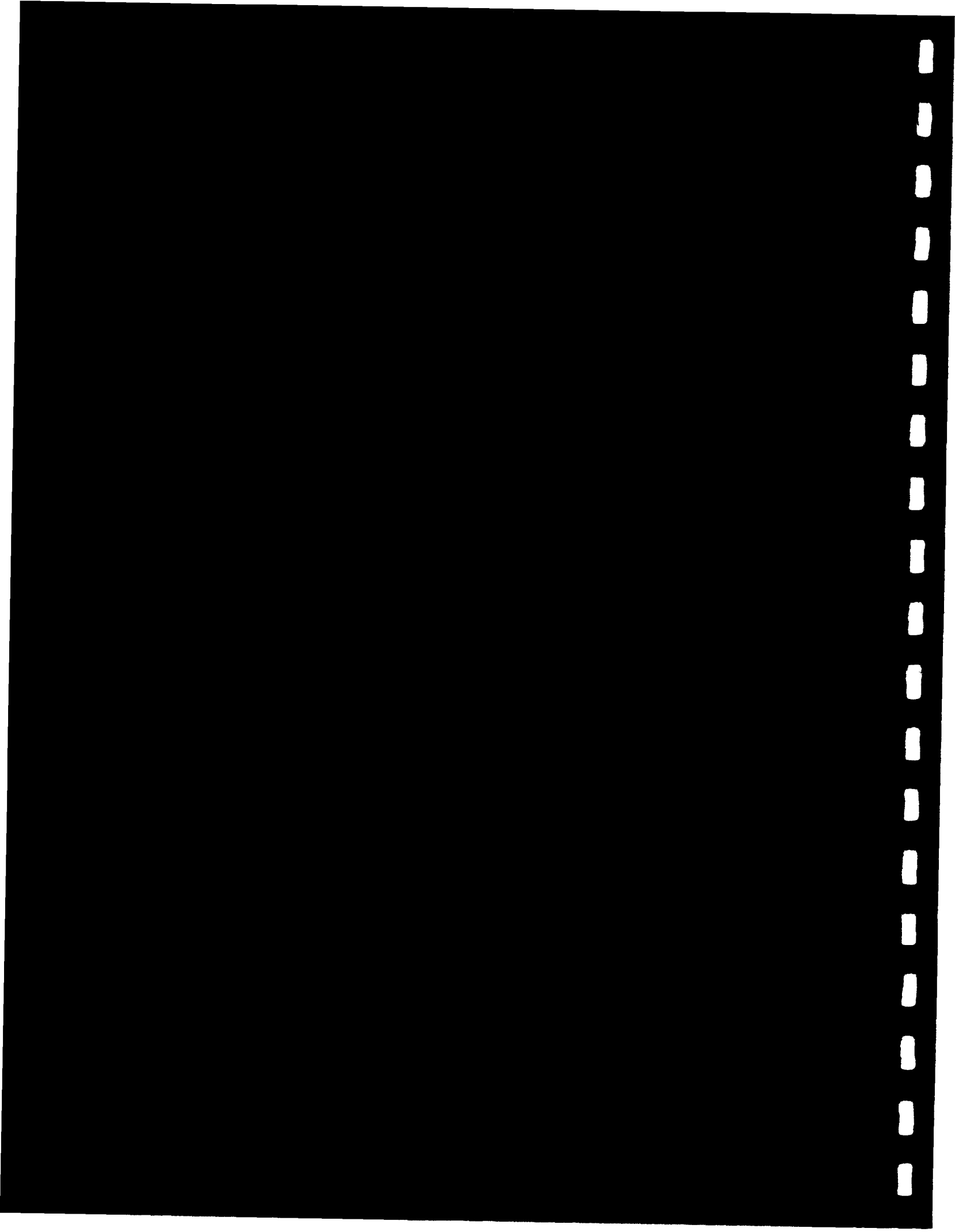
Sample Date/Time	Field ID	Type	Matrix	# Containers	Analysis Requested	Field Filtered	Remarks	Lab1	Lab 2
08-Nov-01 1141	2126	N	AIR						
				1	GenChem	<input type="checkbox"/>	Gravimetric		
				1	SW6010	<input type="checkbox"/>	Metals; As, Pb		
				Total Containers	2				

Signatures		Date/Time	Shipping Details		ATTN:	Special Instructions
Sampled by			Method of Shipment	Airborne Express		
Relinquished by			Airbill No.		Sample Custody	Report Copy to
Received by			Lab Name	Atmospheric Analysis & Consulting	and	Keith Sheets
Relinquished by			Lab Phone	(805) 650-1644	Sucha Pumar	(510) 251-2426
Received by						











September 4, 2001

Mr. Cecil Gore  
CH2M Hill  
P.O. Box 12681  
Oakland, CA 94604-2681

**RE: Asbestos and Lead Sampling  
234 Locust Street  
Watsonville, CA**

Dear Mr. Gore:

RGA Environmental, Inc. (RGA) conducted a survey for asbestos and lead containing materials at the referenced property on August 31, 2001. A single-story residential structure (main residence) is currently located at the south end of the property near Locust Street. A wood framed shed and deteriorating, wood-framed residential structure is located to the north and behind the main residence. Kenneth Pilgrim, a Certified Asbestos Consultant (CAC) with RGA, collected twenty-six (26) bulk samples of seventeen (17) suspect materials for asbestos analysis. Six (6) paint samples were collected and analyzed for lead content.

The bulk and paint samples were submitted to RJ Lee Group, Inc. (RJ Lee) in San Leandro, California. RJ Lee analyzed the bulk samples using polarized light microscopy (PLM) in accordance with EPA's July 1993 method for the determination of asbestos in bulk building materials - EPA 600/R-93/116. The paint samples were analyzed by flame atomic absorption in accordance with EPA SW846-7420.

Asbestos was detected in two (2) of the seventeen (17) suspect materials identified and sampled in the structures at the captioned address. Lead was detected in all six (6) of the paint samples collected. Minor paint damage was noted in the main residence. All painted surfaces of the old residence were damaged and peeling from the substrate. Tables I, II and III below summarize the results and sample locations.



4701 Doyle Street  
Suite 14  
Emeryville, CA 94608

510 547 7771  
FAX 547 1983



**Table I – Bulk Sample Results  
Main Residence and East Shed**

<b>Material Number</b>	<b>Material Description / Location</b>	<b>Asbestos Type and Percentage</b>
001	Blown Insulation/ Attic	ND
002	Plaster on wood lathe/ attic – old ceiling	ND
003	Off-white sheet vinyl with brown flower pattern/ kitchen, bathroom, hallway, and mudroom	ND
004	Sink undercoating/ kitchen	ND
005	Drywall with joint compound, no texture/ kitchen and bathroom	ND
006	Drywall with joint compound and texture/ bedrooms, hallway and living room	ND
007	Brown pebble pattern sheet vinyl with vapor barrier/ living room under carpet and underlayment	Sheet vinyl: 15% CH, Vapor barrier: ND
008	Window putty/ wood windows	ND
009	Mastic on back of outdoor carpet/ porch	ND
010	Asphalt composite roofing shingles and felt/ east shed roof	ND
011	Asphalt composite roofing shingles and felt/ main residence roof	ND

ND = None Detected, CH = Chrysotile asbestos

**Table II – Bulk Sample Results  
Old Residence**

<b>Material Number</b>	<b>Material Description / Location</b>	<b>Asbestos Type and Percentage</b>
001	Window putty/ exterior wood windows	>1% CH
002	Vapor barrier/ under particleboard floor	ND
003	Drywall with joint compound/ walls and ceilings	ND
004	Sheet vinyl/ east room	ND
005	Asphalt composite shingle roofing/ roof	ND

ND = None Detected, CH = Chrysotile asbestos



**Table III – Paint Sample Results**

<b>Sample Number</b>	<b>Paint Description / Location</b>	<b>Lead Concentration (PPM)</b>
133142	Dark green paint on wood window frame/ Main residence, exterior windows	61,400
133114	Light green paint on exterior wood siding/ Main residence, exterior siding	50,600
117020	White paint on wood door/ Main residence, mud room door	553
117152	Green paint on door trim/ Old residence, trim	83,900
117147	White paint on wood siding/ Old residence, siding	86,500
117138	Yellow paint on wood and gypsum walls/ Old residence, east room	98,500

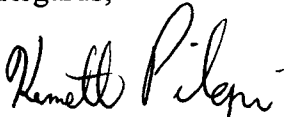
PPM = Parts per million

### **Recommendations**

- Retain the services of a certified asbestos and lead-paint removal contractor and abate all asbestos-containing materials and any peeling or damaged paint prior to demolition.
- Develop an asbestos and lead paint abatement work plan. The purpose of an abatement work plan is to clearly define the scope of work for more competitive and accurate bidding as well as to reduce the number of costly delays and change order requests during the project.
- Retain the services of certified asbestos and lead professionals to monitor the asbestos and lead abatement contractor for adherence to the work plan as well as for adherence with local, state and federal regulations. Contractor monitoring generates documentation of contractor work practices and training, asbestos and lead air sampling results, and a final report outlining all activities that transpired throughout the course of the abatement project. Included in the final report are hard copies of laboratory and field air sampling results, hazardous waste manifests, training certificates and daily monitoring logs.

If you have any questions regarding the sample results or this report, please contact me or the project manager, Steffen Steiner at (510) 547-7771.

Regards,



Kenneth Pilgrim  
Senior Industrial Hygienist, CAC 97-2267

Attachments: Laboratory Reports and chain-of-custody forms



# Test Report - RGA Environmental , Inc.

## Polarized Light Microscopy Analysis Results

### Project AOC108673

		-----Asbestos-----							-----Nonasbestos-----						Run Date
Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Analyst	
1747849CPL Brown insulation	126398	-	-	-	-	-	-	95 %	-	-	-	-	5 %	8/31/01 SSY Homogeneous	
								NFM: Qtz, Carb, Binder, Opaq, Misc. Part.							
1747850CPL Offwhite plaster	126399	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	8/31/01 SSY Homogeneous	
								NFM: Qtz, Carb, Binder, Opaq, Misc. Part.							
1747851CPL Offwhite plaster	126392	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	8/31/01 SSY Homogeneous	
								NFM: Qtz, Carb, Binder, Opaq, Misc. Part.							
1747852CPL Offwhite plaster	126391	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	8/31/01 SSY Homogeneous	
								NFM: Qtz, Carb, Binder, Opaq, Misc. Part.							
1747853CPL Offwhite VSF ; tan mastic	133147	-	-	-	-	-	-	10 %	-	-	-	-	90 %	8/31/01 SSY Non Homogeneous	
								NFM: Qtz, Carb, Binder, Opaq, Misc. Part.							
1747854CPL Offwhite VSF ; tan mastic	133140	-	-	-	-	-	-	10 %	-	-	-	-	90 %	8/31/01 SSY Non Homogeneous	
								NFM: Qtz, Carb, Binder, Opaq, Misc. Part.							

Samples received on: Friday, August 31, 2001

**RJ Lee Group, Inc.**  
Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577

Page: 1 of 4

Authorized Signature

Date

Stephen S. Yata, Geologist  
Tuesday, September 4, 2001

Phone (510) 567-0480  
Fax (510) 567-0488



# Test Report - RGA Environmental , Inc.

## Polarized Light Microscopy Analysis Results

### Project AOC108673

		-----Asbestos-----								-----Nonasbestos-----					Run Date	
Sample Number /	Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Analyst	
1747855CPL	133148	-	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	8/31/01	
Black sink under coating									NFM: Qtz, Tar, Carb, Binder, Opaq, Misc. Part.						SSY	
															Homogeneous	
1747856CPL	126397	-	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	8/31/01	
Brown drywall ; wht. comp									NFM: Qtz, Carb, Binder, Opaq, Gyp, Mica, Misc. Part.						SSY	
															Non Homogeneous	
1747857CPL	133150	-	-	-	-	-	-	-	<1 %	-	-	-	-	99+ %	8/31/01	
Brown drywall ; wht. comp									NFM: Qtz, Carb, Binder, Opaq, Gyp, Mica, Misc. Part.						SSY	
															Non Homogeneous	
1747858CPL	126394	-	-	-	-	-	-	-	2 %	-	-	-	-	98 %	8/31/01	
White drywall ; wht. comp									NFM: Qtz, Carb, Binder, Opaq, Gyp, Mica, Misc. Part.						SSY	
															Non Homogeneous	
1747859CPL	133149	-	-	-	-	-	-	-	2 %	-	-	-	-	98 %	8/31/01	
White drywall ; wht. comp									NFM: Qtz, Carb, Binder, Opaq, Gyp, Mica, Misc. Part.						SSY	
															Non Homogeneous	
1747860CPL	126393	-	-	-	-	-	-	-	2 %	-	-	-	-	98 %	8/31/01	
White drywall ; wht. comp									NFM: Qtz, Carb, Binder, Opaq, Misc. Part.						SSY	
															Non Homogeneous	

Samples received on: Friday, August 31, 2001

**RJ Lee Group, Inc.**  
Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577

Page: 2 of 4

Authorized Signature

Date

Stephen S. Yata, Geologist  
Tuesday, September 4, 2001

Phone (510) 567-0480  
Fax (510) 567-0488

SEP. 4. 2001 1:42PM

R J LEE GROUP INC

NO. 4122 P. 3



# Test Report - RGA Environmental , Inc.

## Polarized Light Microscopy Analysis Results

### Project AOC108673

-----Asbestos-----Nonasbestos-----												Mineral	Fibrous	Synthetic	Other	NonFibrous	Run Date
Sample Number /	Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Wool	Glass	Fibers	Fibers	Material	Analyst		
1747861CPL	133146		-	-	-	-	-	-	-	-	-	-	-	-	-	100 %	8/31/01
White drywall ; wht. comp												NFM: Qtz, Carb, Binder, Opaq, Misc. Part.					SSY
																	Non Homogeneous
1747862CPL	126395		8 %	-	-	-	-	-	5 %	-	-	-	-	-	-	87 %	8/31/01
Brown VSF ; blk. felt												NFM: Qtz, Tar, Carb, Binder, Opaq, Misc. Part.					SSY
Layer Content: VSF 15% Chrysotile ; Other Layer : None Detected																	Non Homogeneous
1747863CPL	126396																
Sample Location Sample Not Analyzed																	
1747864CPL	133137		-	-	-	-	-	-	-	-	-	-	-	-	-	100 %	8/31/01
White window putty												NFM: Qtz, Carb, Binder, Opaq, Misc. Part.					SSY
																	Homogeneous
1747865CPL	117169		-	-	-	-	-	-	-	-	-	-	-	-	-	100 %	8/31/01
White window putty												NFM: Qtz, Carb, Binder, Opaq, Misc. Part.					SSY
																	Homogeneous
1747866CPL	133143		-	-	-	-	-	-	-	-	-	-	-	70 %	-	30 %	8/31/01
Black mastic ; dk. grey carpet												NFM: Qtz, Carb, Binder, Opaq, Misc. Part.					SSY
																	Non Homogeneous

Samples received on: Friday, August 31, 2001

**RJ Lee Group, Inc.**  
Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577

Page: 3 of 4

Authorized Signature

Date

Stephen S. Yata, Geologist  
Tuesday, September 4, 2001

Phone (510) 567-0480  
Fax (510) 567-0488

SEP. 4. 2001 1:42PM

RJ LEE GROUP INC

NOV 4 12 1. 4



# Test Report - RGA Environmental , Inc.

## Polarized Light Microscopy Analysis Results

### Project AOC108673

-----Asbestos-----										-----Nonasbestos-----					Run Date	Analyst
Sample Number /	Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material		
1747867CPL	Black roof	125279	-	-	-	-	-	-	2 %	-	-	-	-	98 %	8/31/01	SSY
NFM: Qtz, Carb, Binder, Opaq, Misc. Part.															Homogeneous	
1747868CPL	Black roof	117146	-	-	-	-	-	-	2 %	-	1 %	-	-	97 %	8/31/01	SSY
NFM: Qtz, Carb, Binder, Opaq, Misc. Part.															Homogeneous	

Samples received on: Friday, August 31, 2001

**RJ Lee Group, Inc.**  
Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577

Page: 4 of 4

Authorized Signature

Date

Stephen S. Yata, Geologist  
Tuesday, September 4, 2001

Phone (510) 567-0480  
Fax (510) 567-0488

SEP. 4. 2001 1:43PM R J LEE GROUP INC

NO. 4122 P. 5



**RG A ENVIRONMENTAL INC.**

☒ 4701 DOYLE ST., STE. 14 Emeryville, CA 94608  
Tel: (510) 547-7771 Fax: (510) 547-1983

☐ 870 MARKET ST., STE 1249 San Francisco, CA 94102  
Tel: (415) 834-9660 Fax: (415) 834-9670

☐ 948 11<sup>TH</sup> ST., STE 11-1 Modesto, CA 94354  
Tel: (209) 525-8108 Fax: (209) 525-8109

**ACM BULK SAMPLE DATA SHEET**

\* PLM Analysis  
\* Stop Analysis at First Positive

PAGE 1 OF 2

Project Name/Address: 234 Locust Street - Main Residence P.M. Initial: SS  
RGA Project #: CHMH 6833 Sampled By: KP Sampling Date: 8/31/2001  
Sample(s) Sent To: ☒ R.J. Lee ☐ Micro ☐ Other: Turnaround Time: Rush ☒ 24Hrs ☐ 3-5 Days  
Fax Report To: ☒ 510-547-1983 ☐ 415-834-9670 ☐ 209-525-8109 ☐ (Fax #)

HM#	Material Description:	Sample ID	Sample Location & Material Location	Quantity:
001	Blown Insulation	126398	Attic	
002	Plaster on Wood Lath	126399	Old ceiling above drywall ceiling - attic	
		126392	"	
		126391	"	
003	off-white sheet vinyl w/ brown flower pattern	133147	Kitchen	
		133140	Bathroom	
004	Sink undercoating	133148	Kitchen	
005	Drywall w/ J.C. - Smooth Finish	126397	Bathroom	
		133150	Laundry area	
		126394	Kitchen	
006	Drywall w/ J.C. + Texture	133149	Front bedroom - E	
		126393	Front bedroom - W	
		133146	Living room @ ceiling	

Relinquished By: Kenneth Pilgrim Signature: Kenneth Pilgrim Date/Time: 8/31/2001 9:35  
Received By: Elise Johnson Signature: Elise Johnson Date/Time: 8/31/01 10:40

ACMH 6833





# ACM BULK SAMPLE DATA SHEET

- **PLM Analysis**
- **Stop Analysis at First Positive**

PAGE 2 OF 2

**Fax Report To:** ☐ 510-547-1983 ☐ 415-834-9670 ☐ 209-525-8109 ☐ (Fax #) \_\_\_\_\_

4021081073

**Received By:** \_\_\_\_\_ **Signature:** \_\_\_\_\_ **Date/Time:** \_\_\_\_\_



# Test Report - RGA Environmental, Inc.

## Polarized Light Microscopy Analysis Results

### Project AOC108672

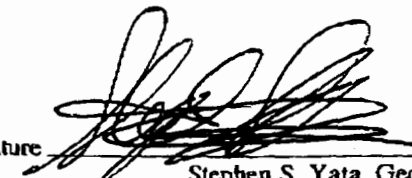
		-----Asbestos-----							-----Nonasbestos-----					Run Date	
Sample Number / Sample Appearance	Client Sample Number	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	Analyst	
1747869CPL Grey window putty	117150	>1 %	-	-	-	-	-	-	-	-	-	-	99 %	8/31/01 SSY Homogeneous	
NFM: Qtz, Carb, Binder, Opaq, Misc. Part.															
1747870CPL Black vapor barrier	117107	-	-	-	-	-	-	8 %	-	-	-	-	92 %	8/31/01 SSY Homogeneous	
NFM: Qtz, Tar, Carb, Binder, Opaq, Misc. Part.															
1747871CPL Brown drywall ; offwht. comp	125274	-	-	-	-	-	-	2 %	-	-	-	-	98 %	8/31/01 SSY Non Homogeneous	
NFM: Qtz, Carb, Binder, Opaq, Gyp, Mica, Misc. Part.															
1747872CPL Offwhite drywall	117129	-	-	-	-	-	-	2 %	-	-	-	-	98 %	8/31/01 SSY Homogeneous	
NFM: Qtz, Carb, Binder, Opaq, Gyp, Mica, Misc. Part.															
1747873CPL Brown sheet vinyl	117130	-	-	-	-	-	-	20 %	-	-	-	-	80 %	8/31/01 SSY Homogeneous	
NFM: Qtz, Carb, Tar, Binder, Opaq, Misc. Part.															
1747874CPL Black roofing	125278	-	-	-	-	-	-	18 %	-	-	-	-	82 %	8/31/01 SSY Homogeneous	
NFM: Qtz, Tar, Carb, Binder, Opaq, Misc. Part.															

Samples received on: Friday, August 31, 2001

**RJ Lee Group, Inc.**  
Bay Area Lab

530 McCormick Street  
San Leandro, CA 94577

Page: 1 of 1

Authorized Signature   
Date  
Stephen S. Yata, Geologist  
Tuesday, September 4, 2001  
Phone (510) 567-0480  
Fax (510) 567-0488

SEP. 4. 2001 3:42PM

R J LEE GROUP INC

NO. 4151 P. 2/3



**RGa ENVIRONMENTAL INC.**

☒ 4701 DOYLE ST., STE. 14 Emeryville, CA 94608  
 Tel: (510) 547-7771 Fax: (510) 547-1983

☐ 870 MARKET ST., STE 1249 San Francisco, CA 94102  
 Tel: (415) 834-9660 Fax: (415) 834-9670

☐ 948 11<sup>TH</sup> ST., STE 111 Modesto, CA 94354  
 Tel: (209) 525-8108 Fax: (209) 525-8109

**ACM BULK SAMPLE DATA SHEET**

\* PLM Analysis

\* Stop Analysis at First Positive

PAGE 1 OF 1

Project Name/Address: 234 Locust Street - Old north residenceP.M. Initial: SSRGA Project #: CHMH 6833Sampled By: KPSampling Date: 8/31/2001Sample(s) Sent To: ☒ R.J. Lee ☐ Micro ☐ Other: \_\_\_\_\_Turnaround Time: Rush ☒ 24Hrs 3-5 DaysFax Report To: ☒ 510-547-1983 ☐ 415-834-9670 ☐ 209-525-8109 ☐ (Fax #) \_\_\_\_\_

HM# 001	Material Description: <u>Window putty</u>	Quantity:
Sample ID	Sample Location & Material Location	
✓ 117150	West side	
HM# 002	Material Description: <u>Vapor barrier</u>	Quantity:
Sample ID	Sample Location & Material Location	
✓ 117109	Under particle board floor	
HM# 003	Material Description: <u>Drywall w/ J.C.</u>	Quantity:
Sample ID	Sample Location & Material Location	
125274	S room	
117129	E room	
HM# 004	Material Description: <u>Sheet vinyl</u>	Quantity:
Sample ID	Sample Location & Material Location	
✓ 117130	E room	
HM# 005	Material Description: <u>Roofing</u>	Quantity:
Sample ID	Sample Location & Material Location	
✓ 125278	Roof	
HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	

Relinquished By: Kenneth P. LiginSignature: Kenneth P. LiginDate/Time: 8/31/2001Received By: Elise JohnsonSignature: Elise JohnsonDate/Time: 8/31/01 10:40AM



350 Hochberg Road, Monroeville, PA 15146  
Phone (724) 325-1776 Fax (724) 733-1799

## LABORATORY REPORT

RGA Environmental  
4701 Doyle Street, Suite 14  
Emeryville, CA 94608  
Attention: Kenneth Pilgrim  
(510) 547-7771 FAX: (510) 547-1983

RJ Lee Group Job No.: ACC108657  
Samples Received: 4-Sep-01  
Report Date: 4-Sep-01  
Client Project: CHMH 6833  
Project Name: 234 Locust Street  
Sampling Date: 30-Aug-01

Analysis: Lead in Paint  
Method: EPA SW846-7420 --- FLAA

Sample Identification		Lead	
Client	RJ Lee Group	Weight Percent	Parts per Million
133142	0336251	6.14	61,400
133114	0336252	5.06	50,600
117020	0336253	0.0553	553
117152	0336254	8.39	83,900
117147	0336255	8.65	86,500
117138	0336256	9.85	98,500

*These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any samples.*

S. Paul Cohen, Laboratory Manager  
Brandon J. Miller, Assistant Scientist  
Ryan B. Walters, Assistant Scientist

☐  
☐  
☐

Kimberly S. DiNatale, Scientist  
Philip Grindle, Supervisor  
Melissa Varner, Assistant Scientist

☒  
☐  
☐

Alan M. Levine, Manager

☐  
☐

Please direct inquiries to Brandon J. Miller in Client Services.

AJRA ELLAP #8204  
CA ELAP #1970  
PA DEP #02-396

Monroeville, PA - San Leandro, CA - Washington, DC

Authorized Signature

Date


9/14/01

FAX NO.

P. 01/02

SEP-04-2001 TUE 04:51 PM



 <b>RGA ENVIRONMENTAL INC.</b>		<b>LEAD PAINT SAMPLE DATA SHEET</b>	
<input checked="" type="checkbox"/> 1701 DOYLE ST., STE. 11 Emeryville, CA 94608 Tel: (510) 547-7771 Fax: (510) 547-1983 24 PLM, 6 Lead		<input type="checkbox"/> 870 MARKET ST., STE 1249 San Francisco, CA 94102 Tel: (415) 834-9660 Fax: (415) 834-9670	
<input type="checkbox"/> 948 11 <sup>TH</sup> ST., STE 11-1 Modesto, CA 94354 Tel: (209) 525-8108 Fax: (209) 525-8109		* Lead Analysis - Total Threshold Limit Concentration ACC108057 9/9 PAGE 1 OF 1	

Project Name/Address: 234 Locust Street P.M. Initial: SS  
 RGA Project #: CHMH 6833 Sampled By: Kenneth Pilgrim Sampling Date: 8/30/2001  
 Sample(s) Sent To: ☒ R.J. Lee ☐ Micro ☐ Other: \_\_\_\_\_ Turnaround Time: \_\_\_\_\_ Rush ☒ 24Hrs \_\_\_\_\_ 3-5 Days  
 Fax Report To: ☒ 510-547-1983 ☐ 415-834-9670 ☐ 209-525-8109 ☐ (Fax #) \_\_\_\_\_

Sample ID	Paint Description and Sample Location	Peeling Quantity
133142	Paint Color: <u>Dark green</u> Substrate: <u>Wood</u> Composite Sample: Y / N Sample Location: <u>Window frame - W bedroom Front</u>	
133114	Paint Color: <u>light green</u> Substrate: <u>Wood</u> Composite Sample: Y / N Sample Location: <u>Front porch - Siding</u>	
117020	Paint Color: <u>White</u> Substrate: <u>Wood</u> Composite Sample: Y / N Sample Location: <u>Laundry Room door</u>	10%
117152	Paint Color: <u>Green</u> Substrate: <u>Wood</u> Composite Sample: Y / N Sample Location: <u>Front door trim - Old N residence</u>	
117147	Paint Color: <u>White</u> Substrate: <u>Wood</u> Composite Sample: Y / N Sample Location: <u>Siding - S side of old N residence</u>	
117138	Paint Color: <u>Yellow</u> Substrate: <u>Wood / Gypsum</u> Composite Sample: Y / N Sample Location: <u>E room - Old N residence</u>	
	Color: _____ Substrate: _____ Composite Sample: Y / N Sample Location: _____ 0336251	
	Color: _____ Substrate: _____ Composite Sample: Y / N Sample Location: _____ 0336256	

Relinquished By: Kenneth Pilgrim Signature: Kenneth M. Pilgrim Date/Time: 8/31/2001  
 Received By: Elise Johnson Signature: Elise Johnson Date/Time: 8/31/01 10:40  
 9/1/01 9:30



September 7, 2001

Mr. Cecil Gore  
CH2M Hill  
P.O. Box 12681  
Oakland, CA 94604-2681

**RE: Additional Paint Sample for Lead  
234 Locust Street  
Watsonville, CA**

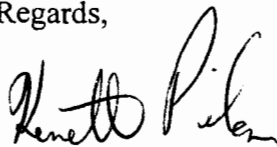
Dear Mr. Gore:

Per CH2M Hill's request, RGA Environmental, Inc. (RGA) analyzed the paint film on the surface of the six (6) drywall samples collected from the interior walls and ceilings in the main residence located at 234 Locust Street in Watsonville, California. RJ Lee Group, Inc. (RJ Lee) lifted the paint film from the surface of the remaining drywall samples submitted previously for asbestos analysis. A composite of the paint samples was submitted for analysis. The paint sample was analyzed by flame atomic absorption in accordance with EPA SW846-7420.

Lead was not detected in the composite paint sample above the laboratory limit of detection for the sample submitted. All of the paint was in good condition and intact with gypsum drywall substrate. The laboratory report and chain of custody form are attached.

If you have any questions regarding the sample results or this report, please contact me or the project manager, Steffen Steiner at (510) 547-7771.

Regards,



Kenneth Pilgrim  
Senior Industrial Hygienist, CAC 97-2267

Attachments: Laboratory Report and chain-of-custody form



4701 Doyle Street  
Suite 14  
Emeryville, CA 94608

510 547 7771  
FAX 547 1983



350 Hochberg Road Monroeville, PA 15146  
Phone (724) 325-1776 Fax (724) 733-1799

## LABORATORY REPORT

RGA Environmental  
4701 Doyle Street, Suite 14  
Emeryville, CA 94608  
Attention: Kenneth Pilgrim  
(510) 547-7771 FAX: (510) 547-1983

RJ Lee Group Job No.: ACC109519  
Samples Received: 6-Sep-01  
Report Date: 6-Sep-01  
Client Project: CHEMH 6833  
Project Name: 234 Locust Street-Main Residence  
Sampling Date: 31-Aug-01

Analysis: Composite Lead in Paint  
Method: EPA SW846-7420 -- FLAA

Sample Identification		Lead	
		Weight: Percent	Parts per Million
Client	RJ Lee Group		
Composite	0336649	< 0.0092	< 92

*These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any samples.*

S. Paul Cohen, Laboratory Manager ☐  
Brandon J. Miller, Assistant Scientist ☐  
Ryza B. Walters, Assistant Scientist ☐

Kimberly S. DiNatale, Scientist ☒  
Philip Grindle, Supervisor ☐  
Melisa Varner, Assistant Scientist ☐

Alan M. Levine, Manager ☐

Please direct inquiries to Brandon J. Miller in Client Services.

Authorized Signature 

Date

9/6/01



**REGA ENVIRONMENTAL INC.**

<input type="checkbox"/> 4701 DOYLE ST., STE. 14 Emeryville, CA 94608 Tel: (510) 547-7771 Fax: (510) 547-1983	<input type="checkbox"/> 870 MARKET ST., STE 1249 San Francisco, CA 94102 Tel: (415) 314-9660 Fax: (415) 814-9670	<input type="checkbox"/> 943 11 <sup>th</sup> ST., STE 11-1 Modesto, CA 94354 Tel: (209) 525-8108 Fax: (209) 525-8109
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ACM ACC109519 BULK SAMPLE DATA SHEET

- PLM Analysis
  - Stop Analysis at First Positive

PAGE 2 OF 2

Project Name/Address: \_\_\_\_\_ P.M. Initial: \_\_\_\_\_

RGA Project #: \_\_\_\_\_ Sampled By: \_\_\_\_\_ Sampling Date: \_\_\_\_\_

Sample(s) Sent To: ☐ R.J. Lee ☐ Micro ☐ Other: \_\_\_\_\_ Turnaround Time:        Rush        24Hrs        3-5 Days

Fax Report To: ☐ 510-547-1983 ☐ 415-834-9670 ☐ 209-525-8109 ☐ (Fax #)

HM#	Material Description:	Sample Location & Material Location	Quantity:
007	Brown Pebble pattern sheet vinyl w/vapor barrier		
126395	Living room under carpet		
126396	"		
008	Window putty		
133137	Front bedroom - W		
117169	East side		
009	Mastic on back of outdoor carpet		
133143	Front porch		
010	Roofing		
125279	East shed		
011	Roofing		
117146	Main Residence		
133144	Rec'd		
HM#	Material Description:	Sample Location & Material Location	Quantity:
Sample ID			

Relinquished By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: [Signature] Signature: KSD.NH Date/Time: 9/6/1 4:30





October 8, 2001

Mr. Cecil Gore  
CH2M Hill  
P.O. Box 12681  
Oakland, CA 94604-2681

**RE: Asbestos and Lead-based Paint Abatement Monitoring Report  
234 Locust Street  
Watsonville, CA**

Dear Mr. Gore:

RGA Environmental, Inc. (RGA) conducted contractor performance monitoring during abatement of asbestos containing flooring materials and removal of peeling lead-based paint at the captioned site in Watsonville, California on October 4, 2001. Pencon / Pacific Environmental (Pencon) abated approximately two-hundred (200) square feet of asbestos containing sheet vinyl and one-hundred twenty (120) square feet of suspect asbestos containing floor tile from the main residence. Damaged and peeling lead-based paint and asbestos-containing window putty were removed from the exterior of the old residence which is located north of the main residence.

Pencon constructed a negative-pressure enclosure (NPE) inside the main residence containing the living room, kitchen and adjacent bedroom. Critical barriers were installed over all openings in the NPE including windows, doorways and hallway openings. A single high efficiency particulate air (HEPA) filtration unit was centered in the work area to reduce airborne fiber concentration during removal activities and provide negative air-pressure to the NPE. A single-stage decontamination unit was established at the entrance to the NPE. The barriers of the NPE established the required regulated area for removal. RGA inspected the work area prior to abatement and approved the construction of the NPE for abatement work.

Pencon manually scraped the suspect asbestos-containing floor tile from the wood subfloor in the adjacent bedroom. A circular saw was utilized to cut the sheet vinyl and subfloor in the living room into approximately two square-foot sections and the flooring was pried from the floor joists intact. The work area and the asbestos-containing materials (ACMs) were misted with water during removal to reduce airborne fiber concentrations. All waste was initially packaged into six (6) mil polyethylene (poly) bags and sealed with duct tape. RGA inspected the work area at the conclusion of the removal work to confirm complete removal and adequate cleaning of the work area. Upon approval, Pencon applied an encapsulant to the work area barriers and remaining building materials to reduce residual airborne fibers.



4701 Doyle Street  
Suite 14  
Emeryville, CA 94608

510 547 7771  
FAX 547 1983



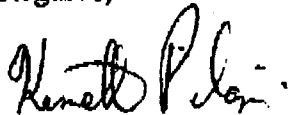
Pencon created a regulated area approximately fifteen (15) feet away from the perimeter of the old residence for abatement of damaged lead-based paint. Poly sheeting was secured to the base of the building and extended ten (10) feet away from the structure. Pencon manually scraped loose and damaged paint from two of the exterior walls and associated wood trim. The ACM window putty was scraped from the wood window frames intact. Minor peeling of painted surfaces on the interior of the building was not removed due to the poor structural integrity of the building. Encapsulant was applied to the exterior painted surfaces following loose paint removal to aid paint stabilization. All paint debris was packaged in six (6) mil poly bags and sealed. Paint waste was transferred to an onsite disposal bin for client disposal. The ACM widow putty was packaged with ACM flooring from the main residence. Pencon temporarily stored the ACM waste in the main residence. ACM waste was repackaged on October 5, 2001 in regulated asbestos containing material (RACM) bags, sealed and transferred to a onsite disposal bin for client disposal.

Two (2) clearance air samples were collected inside the work area of the main residence following encapsulation. The clearance air samples were transported to Micro Analytical Laboratories, Inc. (Micro) in Emeryville. Micro analyzed the air samples by phase contrast microscopy (PCM) according to the National Institute of Occupational Safety and Health (NIOSH) Method 7400. The air samples were reported less than 0.002 fiber per cubic centimeter or less than the limit of detection. The air sample results were less than the Department of Occupational Safety and Health's (DOSH's) permissible exposure limit (PEL) for airborne fibers.

Based upon visual observations and the clearance air sample results, the main residence and old residence at 234 Locust Street have been abated and air quality verified less than DOSH's PEL for airborne fibers.

If you have any questions regarding the sample results or this report, please call Steffen Steiner or me at (510) 547-7771.

Regards,



Kenneth Pilgrim  
Senior Industrial Hygienist, CAC 97-2267

Attachments: Laboratory report, chain-of-custody form, field notes, and worker documentation



## HUMAN HEALTH RISK ASSESSMENT (HHRA) NOTE NUMBER 3, DTSC-modified Screening Levels (DTSC-SLs)



### CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL (DTSC), HUMAN AND ECOLOGICAL RISK OFFICE (HERO)

**RELEASE DATE: June 2020**

#### ISSUE

DTSC has developed modified screening levels based on the U.S. Environmental Protection Agency (USEPA) Regional Screening Levels (RSLs) for use in the human health risk assessment process at hazardous waste sites and permitted facilities. HHRA Note 3 is periodically updated and users should always check the DTSC website for the most recent versions, including other HHRA Notes.<sup>a</sup>

#### SUMMARY

In 2008, the USEPA released RSLs to replace the Preliminary Remediation Goals (PRGs) formerly available from several USEPA Regional Headquarters. HERO reviewed the differences in methodology and RSL concentrations to develop a methodology to incorporate the RSLs into HERO human health risk assessment consultation and review. In addition to updated toxicity criteria, several differences in methodology resulted in a subset of RSLs substantially higher (less protective) than the original PRGs and resulted in HERO issuing recommendations for use of specific screening concentrations. HERO's review of the RSLs had been conducted in two phases: Phase I (soil and tap water screening levels) and Phase II (air screening levels). Initial versions of HHRA Note 3 (November 2009; May 2011) addressed a Phase I review only. A Phase II review was incorporated into the 21 May 2013 iteration of HHRA Note 3, and an additional update released 14 July 2014. Since July 2014, DTSC is now providing regular updates to the DTSC-SLs, tracking the updates to the USEPA RSL tables after their release. HHRA Note 3 was last updated in April 2019.

The present revision of HHRA Note 3 incorporates HERO recommendations based on adoption of the *Toxicity Criteria for Human Health Risk Assessments, Screening Levels*,

<sup>a</sup> <https://dtsc.ca.gov/human-health-risk-hero/>



*and Remediation Goals rule (hereafter “Toxicity Criteria Rule”)<sup>b</sup> and review of the May and November 2019 releases of the RSL tables. Exposure factors used in this HHRA Note 3 are consistent with the April 2019 update to HERO HHRA Note 1<sup>c</sup>, which incorporates much of the 6 February 2014 USEPA memorandum “*Human Health Evaluation Manual, Supplemental Guidance: Update of Standard Default Exposure Factors*. OSWER Directive 9200.1-120.”*

HERO has prepared reference Tables 1, 2, and 3 that provide recommended screening levels for compounds in soil, tap water, and air, respectively. **In accordance with the Toxicity Criteria Rule, the DTSC-SLs provided in Note 3 should be used in preference to USEPA RSLs to evaluate chemical concentrations in environmental media at California sites and facilities. USEPA RSLs should continue to be used for contaminants for which a DTSC-SL value in Note 3 is not available. Note that the DTSC-SLs are derived at a target risk level of  $1 \times 10^{-6}$  (one in one million) and a target hazard quotient value of 1.** In addition, specific recommendations for several contaminants are discussed. Alternatively, in consultation with HERO, the USEPA on-line screening calculator can be used to calculate site-specific values using the more protective of Cal/EPA and USEPA toxicity criteria and applying assumptions consistent with HERO recommendations (e.g., route-to-route extrapolation between the oral and inhalation exposure pathways for inhalation toxicity criteria; and California-specific exposure factors).

HERO's development of DTSC-SLs for air (Table 3) included route extrapolation for chemicals lacking an inhalation toxicity value but which are identified as volatile by the USEPA RSL methodology<sup>d</sup>, or by DTSC's vapor intrusion guidance. The Toxicity Criteria Rule and the USEPA Superfund hierarchy of toxicity-criteria sources provides oral toxicity criteria for more chemicals than California agency sources. Consequently, for volatile compounds without inhalation toxicity criteria, most extrapolations to derive DTSC-SLs for air are based on the USEPA oral toxicity criteria. Details on toxicity criteria references are provided in HHRA Note 10.<sup>e</sup>

## WHAT'S NEW (June 2020)

- As a continuation of previous iterations of HHRA Note 3, HERO has reviewed the May and November 2019 RSL table updates (see USEPA's “What's New”

<sup>b</sup> See HHRA Note 10, available at: <https://dtsc.ca.gov/human-health-risk-hero/>

<sup>c</sup> <https://dtsc.ca.gov/human-health-risk-hero/>

<sup>d</sup> In the June 2015 releases of the RSL tables, USEPA included a vapor pressure greater than 1 millimeter of mercury as a defining characteristic of volatile compounds in addition to the long-standing criterion of a Henry's law constant greater than  $1 \times 10^{-5}$  **(one in one hundred thousand)** (atmosphere-cubic meter) per mole.

<sup>e</sup> <https://dtsc.ca.gov/human-health-risk-hero/>



webpage), as well as other relevant information, including the Toxicity Criteria Rule and other updated Cal/EPA criteria. This revised HHRA Note 3 incorporates our updated recommendations for screening levels, current as of February 2020.

- Changes from the April 2019 HHRA Note 3 include:
  - There are new analytes in the USEPA RSL tables resulting in new DTSC-SLs for endosulfan sulfate, styrene-acrylonitrile (SAN) Trimer (THNP isomer), and weathered toxaphene. Additional new analytes include 2-ethyl-1-hexanol, tert-butyl acetate, and several lanthanum compounds, but the USEPA RSL tables should be used for these analytes.
  - DTSC-SL analytes in soil: new values for p,a,a,a-tetrachlorotoluene and thiophanate-methyl result from changes in toxicity criteria, and slightly changed values for Aroclor 1016 and Aroclor 5460 result from changes in USEPA's chemical-parameter values. Soil DTSC-SL values are dropped for arsine, cyanogen, cyanogen bromide, cyanogen chloride, tetryl, thallium acetate, thallium carbonate, and thiocyanic acid because of a change in the number of significant digits in computational comparisons.
  - DTSC-SL analytes in tap water: new values for p,a,a,a-tetrachlorotoluene and thiophanate-methyl result from changes in toxicity criteria.
  - DTSC-SL analytes in ambient air: new values for p,a,a,a-tetrachlorotoluene result from changes in toxicity criteria.
- As a reminder, chemicals are listed in alpha-numeric order to eliminate complexities in tabular formatting. HERO recommends the use of CAS numbers to avoid problems with nomenclature and synonyms.

## HERO ISSUE CONTACT PERSON:

Edward A. Fendick, Ph.D.  
Staff Toxicologist  
VOICE (direct): 916.255.6555  
EMAIL: [Edward.Fendick@dtsc.ca.gov](mailto:Edward.Fendick@dtsc.ca.gov)



## BACKGROUND

HERO has a long history of working with the USEPA Region 9 office to integrate California-specific risk assessment concerns into the Preliminary Remediation Goal (PRG) listing and the PRG-screening risk assessment process. One example of the collaboration was the inclusion of ‘Cal-modified’ values into the USEPA Region 9 PRG list from 2004. In 2008, USEPA released a single set of RSL tables for national use and which replaced the USEPA Region 9 PRGs (and eliminated Cal-modified values). Since then, new USEPA RSLs have been released on a semiannual basis (Spring and Fall) and have included substantial modifications to the RSL methodology and toxicity value updates. Specific details of changes in the USEPA RSL methodology are documented in the “What’s New” webpage section of the USEPA website.<sup>g</sup>

HERO continues the ongoing process of reviewing new values and methodologies, and their application in screening risk assessment. HERO generally has incorporated the USEPA RSL methodological changes, except as noted later in this text. For example, the dermal exposure pathway has been incorporated into the tap water RSL calculation. There now are 829 elements, compounds and mixtures listed in the RSL tables. A DTSC-SL value is derived for at least one combination of medium, receptor, and endpoint for 568 unique elements, compounds, and mixtures in this iteration of HHRA Note 3.

## USES OF RSLs and DTSC-SLs

Section 3.0 of the USEPA RSL Users Guide<sup>h</sup> lists the following uses for the RSLs:

“These concentrations can be used for:

- Prioritizing multiple sites or operable units or areas of concern within a facility or exposure units
- Setting risk-based detection limits for contaminants of potential concern (COPCs)
- Focusing future site investigation and risk assessment efforts (e.g., selecting COPCs for the baseline risk assessment)
- Identifying contamination which may warrant cleanup
- Identifying sites, or portions of sites, which warrant no further action or investigation
- Initial cleanup goals when site-specific data are lacking”

<sup>g</sup> <https://www.epa.gov/risk/regional-screening-levels-rsls-whats-new>

<sup>h</sup> <https://www.epa.gov/risk/regional-screening-levels-rsls-users-guide>



RSLs are NOT to be used to perform a human health Baseline Risk Assessment (BRA), but to assist in the tasks preceding a human health BRA.

In the past, the USEPA Region 9 PRGs had been used by HERO primarily at open, closing, and formerly-used Department of Defense (DoD) sites. Screening risk assessments at some non-military sites have in the past used different processes. However, the DTSC-SLs included in this report are being used, and are intended for use, at any DTSC site.

HHRA Note Number 4<sup>i</sup> and the Preliminary Endangerment Assessment (PEA) Guidance Manual<sup>j</sup> provide the most recent guidance for use of screening levels in risk assessments. In general, HERO recommends compliance with the basic approach and principles outlined in Note 4. This includes the provision that DTSC-SLs and USEPA RSLs are used for screening sites as a whole, not for “screening out” individual chemicals. Ratios of the concentration of a particular chemical in a medium (e.g., soil, water, or air) to its risk-based concentration are calculated and the ratio is summed across all chemicals and media to estimate a total risk and hazard for the site. Prior to making risk management decisions based on the results of such an evaluation, it is critical that limitations associated with the use of DTSC-SLs and USEPA RSLs be carefully noted and understood. For example, the derivation of the DTSC-SLs and USEPA RSLs did not include an evaluation of the intrusion of vapors from the subsurface to indoor air (see below for a more detailed discussion of exposure pathways). The intrusion of volatile compounds from soil or groundwater to indoor air is a potentially major exposure pathway and should be evaluated. Ecological receptors were not considered in the derivation of DTSC-SLs and USEPA RSLs. The DTSC-SLs and USEPA RSLs apply only to human receptor exposure scenarios and are NOT necessarily protective of ecological receptors. The need for an ecological risk assessment should be evaluated separately.

## **CONCEPTUAL SITE MODEL AND INCLUDED EXPOSURE PATHWAYS**

Before conducting a screening level human health risk assessment, development of a site-specific conceptual site model (CSM) or site exposure model is critical to ensure all appropriate receptors and exposure pathways are addressed by the chosen screening levels.

The risk-based residential and industrial soil screening levels consider several exposure pathways (ingestion, inhalation of particles and volatile chemicals, and dermal absorption) from each of three environmental media (soil, tap water, and air).

<sup>i</sup> <https://dtsc.ca.gov/human-health-risk-hero/>

<sup>j</sup> [https://dtsc.ca.gov/wp-content/uploads/sites/31/2018/01/PEA\\_Guidance\\_Manual.pdf](https://dtsc.ca.gov/wp-content/uploads/sites/31/2018/01/PEA_Guidance_Manual.pdf)



The tap water screening levels are based on assumed domestic use of water via ingestion from drinking, inhalation of volatile chemicals generated during household use (e.g., showering, dish washing), and dermal exposure.

Although the soil and tap water screening levels account for many typical exposure pathways, they do not account for the following potential exposure pathways (for example, as discussed in the RSL User's Guide<sup>k</sup>):

- The residential and industrial soil RSLs do not account for exposure to indoor air vapors due to intrusion of subsurface soil gas emissions; ingestion via uptake of plants (home-grown fruits and vegetables), meat, or dairy products; or inhalation of particles (fugitive dust) generated by activities which elevate particulate emissions such as truck traffic and use of heavy equipment.
- Pathways not considered in the calculation of the tap water RSLs include subsurface vapor intrusion to indoor air from volatile compounds present in groundwater and transfer of contaminants in surface water or groundwater to aquatic organisms or terrestrial plants with subsequent ingestion by humans. The RSL on-line calculator and User's Guide do however include equations which can be used to calculate screening-level concentrations in fish assuming human consumption of fish. These equations do not address impacts to fish; but rather, human consumption of fish which may be contaminated. The RSL on-line calculator and User's Guide also provide equations which can be used to evaluate recreational receptor exposures to soil/sediment and surface water.

If pathways excluded from the derivation of the soil and tap water screening levels are anticipated at the site (e.g., home-grown produce consumption or excessive dust generation), an RSL- or DTSC-SL-based screening level risk evaluation may significantly underestimate risk. In addition, if there are exposure scenarios other than residential and industrial land use, a screening level risk evaluation using RSLs or DTSC-SLs may not be appropriate (e.g., sites in which trench workers may be exposed to shallow groundwater). In such cases, the evaluation of risk to human receptors at the site could proceed directly to the baseline human health risk assessment process. In other instances, the screening risk assessment may overestimate risk but, in these cases, a baseline human health risk assessment will likely be necessary for site-specific risk-management decisions. For reference, HERO has compiled a summary of recommended exposure factors which may be used as default values in baseline human health risk assessments for California hazardous waste sites and permitted facilities, DTSC HHRA Note 1, which is mostly consistent with the recent changes to the USEPA RSL methodology.

<sup>k</sup> <https://www.epa.gov/risk/regional-screening-levels-rsls-users-guide>



### **Additional Considerations Regarding Exposure for the Industrial Scenario**

Evaluations of the industrial scenario using only the soil screening levels do not account for the following pathways: all exposures to groundwater (e.g., consumption as drinking water, vapor intrusion from ground water, or dermal contact); exposure via vapor intrusion to indoor air; exposure to contaminated surface water, and inhalation of particulates generated by activities which increase particulate levels such as truck traffic and use of heavy equipment. If these exposure pathways are significant at a site, screening risk assessment using soil screening levels is generally insufficient. In some cases, it may be possible, with the cooperation of the DTSC toxicologist, to incorporate the risk from the vapor intrusion pathway into the screening risk assessment by adding the risk from this pathway into the risk estimated from the use of the soil screening levels.

The tap water RSLs and DTSC-SLs are calculated using residential land use assumptions. As such, these screening levels are not reflective of potential industrial exposures and may over- or underestimate exposures via the water pathways (e.g., ingestion and dermal exposures to contaminated water, and inhalation exposure to volatile contaminants emitted into workplace air from contaminated water).

### **METHODOLOGY FOR THE DTSC-SLs**

The process for derivation of DTSC-SLs is based on the identical computational algorithms used to derive USEPA's RSLs. To validate the process, a series of spreadsheet worksheets were populated with the RSL algorithms, USEPA exposure-parameter values, USEPA toxicity criteria, and the RSL analyte roster. Values derived in these workbooks were compared to the USEPA values downloaded from the USEPA website. Computed values matched the USEPA values for soil, tap water, and air after allowing for slight differences attributable to treatment of significant digits and rounding.

DTSC-SLs were derived by populating copies of the aforementioned spreadsheet workbooks with toxicity criteria consistent with the Toxicity Criteria Rule, and with California exposure factors and DTSC-specific methods. California exposure factors are those listed in HHRA Note 1 or the PEA Guidance Manual, and many values match those used by USEPA. Toxicity criteria were obtained based on the Toxicity Criteria Rule, as described next.

#### **Toxicity Criteria Rule**

On 4 September 2018, the *Toxicity Criteria for Human Health Risk Assessments, Screening Levels, and Remediation Goals* rule ("Toxicity Criteria Rule") was approved by the State of California Office of Administrative Law and became effective immediately.<sup>1</sup> The Rule requires human health risk assessments, risk-based screening

<sup>1</sup> <https://dtsc.ca.gov/regs/toxicity-criteria-for-human-health-risk-assessment/>



levels, and remediation goals prepared pursuant to the Hazardous Substances Account Act (Health and Safety Code [HSC] §25300 et seq., “Chapter 6.8”) to be based on toxicity criteria from a specified hierarchy of sources. The Toxicity Criteria Rule’s Section (§) 69021 provides the hierarchy:

- 1) §69021(a) - toxicity criteria for a given contaminant listed in Appendix I Tables A and B of the Rule (“promulgated criteria”);
- 2) §69021(b) - toxicity criteria for contaminants that are not listed in the Rule’s Appendix I but are listed in the current USEPA *Integrated Risk Information System* (IRIS) database (“promulgated criteria”); and
- 3) §69021(c) - toxicity values for a given contaminant from “other sources” including but not limited to: the Office of Environmental Health Hazard Assessment (OEHHA) toxicity values that are not listed in the Rule’s Appendix I, USEPA Provisional Peer Reviewed Toxicity Values (PPRTVs), Agency for Toxic Substances and Disease Registry (ATSDR) Minimal Risk Levels (MRLs), USEPA PPRTV Appendix Screening Toxicity Values, USEPA Superfund Health Effects Assessment Summary Table (HEAST) values, and other additional sources (“recommended criteria”). The use of the toxicity criteria under §69021(c) requires approval from the HERO Supervising Toxicologist prior to use.

HHRA Note 10 provides additional detail on the application of the Toxicity Criteria Rule in human-health risk assessments, and in derivation of screening levels and remedial goals. Notably regarding HHRA Note 3, Table 1 of HHRA Note 10 provides the recommended, approved, toxicity criteria for the roster of analytes evaluated in the USEPA RSLs. The HHRA Note 10 Table 1 values are incorporated into HHRA Note 3’s derivation of the DTSC-SLs.

In consideration of evolving methods for mutagenic carcinogens and interagency consistency, calculations for compounds identified as having a mutagenic mode of action (MMOA) utilized age-dependent adjustment factors (ADAFs) in accordance with the methods employed by the USEPA in their RSL tables. Trichloroethene (TCE) was evaluated using the combined MMOA and non-mutagen approaches as developed in the USEPA RSL methodology. Vinyl chloride was evaluated using the same vinyl-chloride-specific methodology used in the USEPA RSL tables, although the vinyl chloride methodology may be under review. Lastly and as discussed previously, for purposes of screening air contaminants, HERO recommends the use of route extrapolation—converting an oral reference dose or slope factor to an inhalation reference concentration or unit-risk factor—when an inhalation-specific toxicity value is not available.

DTSC-SLs were calculated for the entire roster of RSL analytes and several additional analytes. The final roster of soil and tap water DTSC-SLs are provided in Tables 1 and 2, respectively; air screening levels are listed in Table 3.



## SITE SCREENING – SOIL, TAP WATER, and AIR CONTAMINANTS

As discussed previously, HERO reviewed the soil, tap water, and air RSLs in a phased approach. The results presented in this version provide recommendations on the use of screening levels for soil, tap water, and air, under residential and industrial/commercial land uses.

Since May 2013, USEPA has provided two sets of tables with RSLs based on target hazard quotients (THQ) of 1.0 and 0.1. The rationale for using a THQ of 0.1 for screening is that if 10 chemicals were at a site and all narrowly passed a screening at  $THQ=1.0$ , the resulting total HI could be 10. In general, HERO does not recommend use of screening levels based on a THQ of 0.1. Instead, screening levels based on a target HQ of 1 should be used, and cumulative noncancer hazard should be summed across all site-related contaminants, media, and exposure pathways. As of November 2017, the RSL calculator website now includes user-selectable options for the target risk and the target hazard quotient. **The DTSC-SLs are derived at a target risk level of  $1 \times 10^{-6}$  (one in one million) and a target hazard quotient value of 1.** All discussion below relies on a target risk of  $1 \times 10^{-6}$  (one in one million) or a target hazard quotient of 1.

### Soil and Tap Water

While it is possible to use the USEPA website's on-line RSL calculator<sup>m</sup> and employ the California-recommended toxicity criteria and exposure factors for each exposure pathway to derive screening levels, this would be a laborious process for DTSC managers and staff, Responsible Parties, and contractors. To address this difficulty, HERO has combined the USEPA RSL methodology and values with a DTSC-specific methodology and values for all compounds in the USEPA RSL roster. HERO then identified elements, compounds, and mixtures in which the soil, tap water, or ambient air DTSC-SL value was less (more stringent) than the corresponding USEPA RSL value.

Users of the screening levels should be aware that the values are strictly risk-based computed concentrations. The DTSC-SLs and the tabular versions of the USEPA RSL tables do not consider external practical criteria such as analytical detection limits, naturally occurring concentrations, or physical limitations such as soil saturation (although relevant notations are provided in the USEPA RSL tables). For example, screening levels for some chemicals can exceed liquid saturation conditions (i.e., pure analyte in the soil pore space) or can exceed reasonable physical conditions in soil such as concentrations greater than 100,000 ppm (10% by weight or more). Multiple DTSC-SLs exceeded soil-saturation concentrations (particularly volatile organic compounds) or a 10% by weight threshold, so screening-level results should be

<sup>m</sup> [http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl\\_search](http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search)



carefully reviewed. Note that the online USEPA RSL calculator has a user-selectable site-specific option to substitute saturation or threshold concentrations when the calculated RSL exceeds those physical limitations. For tap water, risk-based concentrations occasionally exceed maximum contaminant level (MCL) regulatory criteria; see item #5 in the subsequent “Discussion and Recommendations for Specific Contaminants” section.

Lastly, if volatile contaminants are present at a site, soil gas data are required to evaluate the vapor intrusion to indoor air pathway. This allows a more comprehensive evaluation because the soil and tap water screening levels do not include the vapor intrusion pathway, which is often the risk driver.

## Air

Subsurface vapor intrusion to indoor air from volatile compounds in soil or groundwater is a potentially major exposure pathway. The air screening levels address residential and commercial/industrial exposure scenarios and may be used for screening contaminants in indoor air. The air screening levels for volatile chemicals also have potential applications for screening soil gas data when used in concert with an appropriate attenuation factor as described in DTSC’s 2011 *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air* (2011 VIG). DTSC-recommended default attenuation factors for preliminary screening evaluations can be found in Table 2 of DTSC’s 2011 VIG. DTSC also recommends that screening assessments evaluate the default attenuation factors of 0.03 for sub-slab soil gas and “near-source” exterior soil gas, released in 2015 by USEPA.<sup>n</sup> For detailed recommendations on the vapor intrusion to indoor air pathway and evaluation of soil gas and indoor air data, please consult DTSC’s 2011 VIG, or contact the DTSC site toxicologist to ensure appropriate use of air screening levels on a site-specific basis.

- To facilitate site screening, HERO herein provides recommendations on use of air screening levels for chemicals identified as volatile in the USEPA RSL tables or DTSC’s VIG, and non-volatile compounds with inhalation-based toxicity criteria (no route extrapolation). HERO’s derivation is based on a comparison of the inhalation toxicity criteria used to derive the USEPA’s air RSLs relative to California toxicity criteria and HERO recommendations (e.g., route-to-route extrapolation for volatile chemicals). As noted previously, screening levels for air contaminants are the more stringent of USEPA or DTSC screening values.

<sup>n</sup> <https://www.epa.gov/sites/production/files/2015-09/documents/oswer-vapor-intrusion-technical-guide-final.pdf>



- For the 111 volatile chemicals that lacked inhalation toxicity criteria, HERO extrapolated oral-exposure toxicity criteria to derive inhalation toxicity criteria for use in calculating air screening levels (see HHRA Note 10).

## DISCUSSION AND RECOMMENDATIONS FOR SPECIFIC CONTAMINANTS

### Lead (Soil)

In 2007, Cal/EPA OEHHA developed a new toxicity evaluation of lead, replacing the 10 micrograms per deciliter ( $\mu\text{g/dL}$ ) threshold blood lead concentration with a source-specific “benchmark change” of 1  $\mu\text{g/dL}$ . One  $\mu\text{g/dL}$  is the estimated incremental increase in children’s blood lead that would reduce Intelligence Quotient (IQ) by up to 1 point. Considering the updated Cal/EPA lead toxicity criterion, as well as the need for revision to ensure that the model is adequately protective of women of child-bearing age, HERO developed a new version of the DTSC LEAD RISK ASSESSMENT SPREADSHEET (LeadSpread 8; 2011).<sup>p</sup>

Worksheets 1 and 2 of the LeadSpread 8 file include PRG90 calculations for residential and industrial land use scenarios, respectively. The PRG90 values represent lead concentrations in soil that will result in a 90<sup>th</sup> percentile estimate of a 1  $\mu\text{g/dL}$  increase in blood lead in a child or the fetus of a pregnant adult worker. While DTSC has historically used the 99<sup>th</sup> percentile estimate of blood lead concentration in the population, HERO considers the 90<sup>th</sup> percentile of the distribution appropriate for use in evaluating lead exposures with the new health-protective criterion of a 1  $\mu\text{g/dL}$  *incremental increase* in blood lead. The previous benchmark targeted the total blood lead concentration, which also included contributions of lead from background sources.

HERO applies the risk-based soil lead concentrations in a residential use (i.e., unrestricted use) scenario as an Exposure Point Concentration (EPC). A 95-percent upper confidence limit on the arithmetic mean (95% UCL) calculated to be 80 mg/kg or less for residential soil lead, or a 95% UCL of 320 mg/kg or less for industrial soil lead, would be protective of children and women of child-bearing ages, respectively. With regard to assessment of lead risk and evaluating cleanup options, if sufficient data are available, HERO recommends calculating the 95% UCL lead concentration for each exposure area. If individual samples exceed the PRG90 soil lead concentration, the exposure area as a whole might not exceed the PRG90 as long as the 95% UCL itself is below ~80 mg/kg for residential and ~320 mg/kg for industrial/commercial, and assuming hot spots are not present. If “hot spots” (i.e., geographically collocated areas

[o http://oehha.ca.gov/media/downloads/cnr/pbhgv041307.pdf](http://oehha.ca.gov/media/downloads/cnr/pbhgv041307.pdf)

[p https://dtsc.ca.gov/leadspread-8/](https://dtsc.ca.gov/leadspread-8/)



of elevated concentration), or “outliers” (i.e., individual samples with elevated concentrations) are present, they must be addressed separately.

For initial site screening where data are insufficient to calculate a 95% UCL, comparison of the maximum detected concentration to the PRG90s would be appropriate. If individual sample results exceed the PRG90s, depending on site-specific conditions and sampling results, additional investigation, evaluation, and potentially remediation may be warranted to address concerns about lead exposure.

It is important to note that background exposures to lead, and media other than soil which may be impacted by lead are not considered in LeadSpread8. If lead is present at levels above background in media other than soil (e.g., water, air), or if the home grown produce pathway is anticipated at the site, please contact the HERO toxicologist. DTSC’s LeadSpread model is periodically updated; users should check the DTSC website for the latest version.<sup>q</sup>

### **Cadmium (Soil)**

The cadmium soil and tap water RSLs based on noncancer effects were calculated using the USEPA Integrated Risk Information System (IRIS) oral reference dose (RfDo) for food (1 µg/kg-day) and water (0.5 µg/kg-day), respectively. Previous versions of HHRA Note 3 utilized alternative toxicity criteria to derive DTSC-SLs; noncancer screening levels for soil, compliant with the Toxicity Criteria Rule, are now derived to be the USEPA RSL (71 mg/kg) for residential soil and a DTSC-SL of 780 mg/kg for commercial/industrial soil.

Please note that the DTSC-modified soil screening levels presented herein are undergoing re-evaluation. Based on newer data and potential updates to cadmium toxicity criteria, HERO’s review of relevant information for this contaminant is ongoing and we plan to derive updated DTSC-modified screening levels for soil in the future. At this time, we have not derived tap water screening levels for cadmium, however, we may do so as part of a future revision. Please consult with the DTSC toxicologist for sites where cadmium is a site-related contaminant in soil or water to ensure an up-to-date analysis for site conditions.

### **Beryllium and Beryllium Compounds (Soil).**

Cal/EPA toxicity criteria for beryllium differ from current USEPA values. For cancer, there are no oral slope factors from either USEPA or Cal/EPA sources, while the USEPA and Cal/EPA’s inhalation unit risks (IURs) for beryllium and beryllium oxide are the same. Cal/EPA also has a separate IUR for beryllium sulfate (8.6E-1 per µg/m<sup>3</sup>), but the Toxicity Criteria Rule requires use of the IRIS IUR for beryllium and

<sup>q</sup> <http://www.dtsc.ca.gov/assessingrisk/humanrisk2.cfm>



compounds ( $2.4\text{E-}3$  per  $\mu\text{g}/\text{m}^3$ ). For noncancer, the USEPA RfDo ( $2\text{E-}3$  mg/kg-day) is 10-fold higher than the noncancer toxicity criterion used by Cal/EPA OEHHA to derive the PHG for beryllium and beryllium compounds ( $2\text{E-}4$  mg/kg-day). The difference is based on agency differences in dose metrics and uncertainty adjustments applied to the same underlying primary research. In addition, the USEPA inhalation reference concentration (RfC) for beryllium and compounds ( $2\text{E-}2$   $\mu\text{g}/\text{m}^3$ ) is higher than the OEHHA chronic inhalation reference level (REL) for beryllium and compounds ( $7\text{E-}3$   $\mu\text{g}/\text{m}^3$ ) because OEHHA weighted the key study's critical effect as more severe than USEPA did for the same study. Based on the Toxicity Criteria Rule, the OEHHA PHG, OEHHA REL, and IRIS IUR must be used in derivation of the screening levels (although the OEHHA IUR is identical in value to the IRIS IUR, the OEHHA IUR is not specified in the Toxicity Criteria Rule which then defaults to IRIS).

For beryllium and compounds, HERO applied the IRIS IUR ( $2.4\text{E-}3$  per  $\mu\text{g}/\text{m}^3$ ), the RfDo-equivalent from the PHG document ( $2\text{E-}4$  mg/kg-day), the chronic REL ( $7\text{E-}3$   $\mu\text{g}/\text{m}^3$ ), and DTSC default dermal exposure parameters (including GIABS=1) to derive DTSC-modified screening levels for soil. The DTSC-modified screening levels based on noncancer effects were calculated to be 16 mg/kg and 230 mg/kg for residential and industrial land use, respectively. For cancer, the DTSC-modified screening levels for beryllium and compounds in soil were calculated to be 1600 mg/kg and 6900 mg/kg under the residential and industrial land use scenarios, respectively, concentrations identical to the USEPA RSL derivation.

For beryllium sulfate, HERO previously applied the Cal/EPA inhalation unit risk ( $8.6\text{E-}1$  per  $\mu\text{g}/\text{m}^3$ ) for cancer to derive DTSC-modified screening levels for soil of 4.4 mg/kg and 19 mg/kg for residential and industrial land uses, respectively. However, with adoption of the Toxicity Criteria Rule, the computations now use the IRIS inhalation unit risk ( $2.4\text{E-}3$  per  $\mu\text{g}/\text{m}^3$ ) for cancer to derive screening levels for soil of 1600 mg/kg and 6,900 mg/kg, which is equivalent to the USEPA RSL values. For noncancer endpoints, the DTSC-SL and USEPA RSL for beryllium sulfate and beryllium and compounds in soil are identical. Like cadmium above, at this time we have not derived tap water screening levels for beryllium sulfate. Please consult with the DTSC toxicologist for sites where beryllium is a site-related contaminant in water.

### **Arsenic (Soil)**

USEPA incorporates a relative bioavailability factor (RBA) into the RSL calculations for screening level concentrations for ingestion of soil-borne arsenic (a dimensionless value of 0.6, in contrast to a default value of 1.0 for all other compounds). HERO supports the use of this default RBA value for the adjustment of the ingestion of arsenic bound to soils and the DTSC-SL reflects this modification to the risk calculation. HERO has prepared HHRA Note 6 that provides recommendations for completing site-specific



evaluations of the arsenic RBA in site soils.<sup>r</sup> Please consult with the DTSC toxicologist for sites where soil-borne arsenic is a site-related contaminant for the current recommendations for arsenic bioavailability. Note that risk-based screening-level concentrations of arsenic in soil are often below naturally occurring (background) concentrations. Consequently, HERO strongly recommends consideration of site-specific background concentrations of inorganic constituents.

### **Screening Levels and MCLs.**

As noted previously, the DTSC-SL and USEPA RSL values are derived strictly as risk-based concentrations—mathematical constructs of the exposure calculation algorithms—that may be independent of certain practical constraints (e.g., solubility, detection limits, or background concentrations). Additionally, there may be risk management considerations (such as regulatory thresholds) that affect decision-making for contaminated sites outside of the risk assessment process. Maximum Contaminant Levels (MCLs) are enforceable regulatory criteria for protection of the drinking water resource and in several examples, are at concentrations lower than risk-based screening levels. Table 4 presents the roster of analytes for which a DTSC-SL or USEPA RSL screening value exceeds an MCL regulatory criterion. These MCL criteria may need additional consideration during scoping for remedial or environmental investigations.

### **TABULAR RESULTS**

HERO has calculated soil and tap water DTSC-SLs for all chemicals on the USEPA RSL roster and several additional analytes. The tabular results list the DTSC-SLs when the DTSC-SL is more stringent than the corresponding USEPA RSL; USEPA RSL values are also provided for completeness for the other combinations of receptor and endpoint when the USEPA RSL was more stringent. Screening concentrations for air were derived for all of the volatile chemicals and several other airborne contaminants, and a DTSC-SL is listed when the value is more stringent than the corresponding USEPA RSL value.

Alternatively, the USEPA on-line screening calculator available at the USEPA RSL website<sup>s</sup> can be used to calculate site-specific values using the more protective of Cal/EPA or USEPA toxicity criteria, applying assumptions consistent with HERO recommendations (e.g., route-to-route extrapolation between the oral and inhalation exposure pathways where no toxicity value is available for the inhalation route of exposure but an oral toxicity value is available), and site-specific values as agreed upon in consultation with HERO.

<sup>r</sup> <https://www.dtsc.ca.gov/AssessingRisk/humanrisk2.cfm>

<sup>s</sup> [https://epa-prgs.ornl.gov/cgi-bin/chemicals/csl\\_search](https://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search)



### **Screening Levels for Soil (Table 1)**

Table 1 presents DTSC-modified screening values for soil that are more stringent than the corresponding USEPA value. For this roster of analytes (i.e., with at least one DTSC-SL), available USEPA RSL values are also provided for receptors or endpoints that lack a designated DTSC-SL, for table completeness. A Microsoft Excel® version of Table 1 is available for download from the DTSC website.

### **Screening Levels for Tap Water (Table 2)**

Table 2 presents DTSC-modified screening values for tap water that are more stringent than the corresponding USEPA value. For this roster of analytes (i.e., with at least one DTSC-SL), available USEPA RSL values are also provided for receptors or endpoints that lack a designated DTSC-SL, for table completeness. A Microsoft Excel® version of Table 2 is available for download from the DTSC website.

### **Screening Levels for Air (Table 3)**

Table 3 presents DTSC-modified screening values for air contaminants that are more stringent than the corresponding USEPA RSL value. For this roster of analytes (i.e., with at least one DTSC-SL), available USEPA RSL values are also provided for receptors or endpoints that lack a designated DTSC-SL, for table completeness. A Microsoft Excel® version of Table 3 is available for download from the DTSC website.

### **Maximum Contaminant Levels (MCLs) (Table 4)**

Table 4 presents the roster of analytes for which a DTSC-SL or USEPA RSL exceeds an MCL regulatory criterion. A Microsoft Excel® version of Table 4 is available for download from the DTSC website.

### **Supporting Documentation**

Supporting documentation of the computations for the DTSC-SLs can be provided upon request (see the HERO Issue Contact information earlier in this Note). These documentation files provide the exposure factors, exposure algorithms, toxicity criteria, and computed screening-level concentrations for soil, tap water, and air, for exposures via ingestion, dermal contact, and inhalation.



Table 1: HHRA Note 3, June 2020, DTSC-recommended Screening Levels for Soil Analytes

Analyte	Chemical Abstracts Service Registry Number	Screening Level for Residential Soil (mg/kg), Cancer Endpoint	Reference for Screening Level for Residential Soil, Cancer Endpoint,	Screening Level for Residential Soil (mg/kg), Noncancer Endpoint	Reference for Screening Level for Residential Soil, Noncancer Endpoint	Screening Level for Commercial/Industrial Soil (mg/kg), Cancer Endpoint	Reference for Screening Level for Commercial/Industrial Soil, Cancer Endpoint,	Screening Level for Commercial/Industrial Soil (mg/kg), Noncancer Endpoint	Reference for Screening Level for Commercial/Industrial Soil, Noncancer Endpoint
1,1,1,2-Tetrachloroethane	630-20-6	2	USEPA RSL	550	DTSC-SL	8.8	USEPA RSL	2700	DTSC-SL
1,1,1-Trichloroethane	71-55-6	--	--	1700	DTSC-SL	--	--	7200	DTSC-SL
1,1,2,2-Tetrachloroethane	79-34-5	0.6	USEPA RSL	700	DTSC-SL	2.7	USEPA RSL	4300	DTSC-SL
1,1,2-Trichloropropane	598-77-6	--	--	170	DTSC-SL	--	--	1100	DTSC-SL
1,1-Dichloroethane	75-34-3	3.6	USEPA RSL	1600	DTSC-SL	16	USEPA RSL	7100	DTSC-SL
1,1-Dichloroethene	75-35-4	--	--	83	DTSC-SL	--	--	350	DTSC-SL
1,2,3-Trichlorobenzene	87-61-6	--	--	40	DTSC-SL	--	--	300	DTSC-SL
1,2,3-Trichloropropane	96-18-4	0.0015	DTSC-SL	4.8	USEPA RSL	0.021	DTSC-SL	21	USEPA RSL
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	17	DTSC-SL	--	--	150	DTSC-SL
1,2,4-Tribromobenzene	615-54-3	--	--	280	DTSC-SL	--	--	2500	DTSC-SL
1,2,4-Trichlorobenzene	120-82-1	7.8	DTSC-SL	58	USEPA RSL	35	DTSC-SL	260	USEPA RSL
1,2-Dibromo-3-chloropropane	96-12-8	0.0043	DTSC-SL	4.7	USEPA RSL	0.057	DTSC-SL	25	USEPA RSL
1,2-Dinitrobenzene	528-29-0	--	--	6.3	USEPA RSL	--	--	53	DTSC-SL
1,2-Diphenylhydrazine	122-66-7	0.68	USEPA RSL	--	--	1.9	DTSC-SL	--	--
1,2-Phenylenediamine	95-54-5	4.5	USEPA RSL	250	USEPA RSL	12	DTSC-SL	2100	DTSC-SL
1,3,5-Trinitrobenzene	99-35-4	--	--	2200	USEPA RSL	--	--	29000	DTSC-SL
1,3-Butadiene	106-99-0	0.014	DTSC-SL	1.8	USEPA RSL	0.062	DTSC-SL	7.6	USEPA RSL
1,3-Dibromobenzene	108-36-1	--	--	16	DTSC-SL	--	--	100	DTSC-SL
1,3-Dichloropropane	142-28-9	--	--	410	DTSC-SL	--	--	2200	DTSC-SL
1,3-Dinitrobenzene	99-65-0	--	--	6.3	USEPA RSL	--	--	53	DTSC-SL
1,3-Phenylenediamine	108-45-2	--	--	380	USEPA RSL	--	--	3200	DTSC-SL
1,4-Benzenediamine-2-methyl sulfate	6369-59-1	5.4	USEPA RSL	19	USEPA RSL	15	DTSC-SL	160	DTSC-SL
1,4-Dibromobenzene	106-37-6	--	--	420	DTSC-SL	--	--	2900	DTSC-SL
1,4-Dinitrobenzene	100-25-4	--	--	6.3	USEPA RSL	--	--	53	DTSC-SL
1,4-Dithiane	505-29-3	--	--	550	DTSC-SL	--	--	4700	DTSC-SL
1,4-Phenylenediamine	106-50-3	--	--	63	USEPA RSL	--	--	530	DTSC-SL
1-Bromo-3-fluorobenzene	1073-06-9	--	--	8.8	DTSC-SL	--	--	50	DTSC-SL
1-Bromo-4-fluorobenzene	460-00-4	--	--	8.9	DTSC-SL	--	--	51	DTSC-SL
1-Chlorobutane	109-69-3	--	--	270	DTSC-SL	--	--	1200	DTSC-SL
1-Methylnaphthalene	90-12-0	9.9	DTSC-SL	3400	DTSC-SL	30	DTSC-SL	22000	DTSC-SL



Analyte	Chemical Abstracts Service Registry Number	Screening Level for Residential Soil (mg/kg), Cancer Endpoint	Reference for Screening Level for Residential Soil, Cancer Endpoint,	Screening Level for Residential Soil (mg/kg), Noncancer Endpoint	Reference for Screening Level for Residential Soil, Noncancer Endpoint	Screening Level for Commercial/ Industrial Soil (mg/kg), Cancer Endpoint	Reference for Screening Level for Commercial/ Industrial Soil, Cancer Endpoint,	Screening Level for Commercial/ Industrial Soil (mg/kg), Noncancer Endpoint	Reference for Screening Level for Commercial/ Industrial Soil, Noncancer Endpoint
2-(2-methoxyethoxy)-Ethanol	111-77-3	--	--	2500	USEPA RSL	--	--	21000	DTSC-SL
2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether	1163-19-5	780	USEPA RSL	440	USEPA RSL	2100	DTSC-SL	3700	DTSC-SL
2,2',4,4',5,5'-Hexabromodiphenyl ether	68631-49-2	--	--	13	USEPA RSL	--	--	110	DTSC-SL
2,2',4,4',5-Pentabromodiphenyl ether	60348-60-9	--	--	6.3	USEPA RSL	--	--	53	DTSC-SL
2,2',4,4'-Tetrabromodiphenyl ether	5436-43-1	--	--	6.3	USEPA RSL	--	--	53	DTSC-SL
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	1900	USEPA RSL	--	--	16000	DTSC-SL
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	0.0000048	USEPA RSL	0.000051	USEPA RSL	0.000018	DTSC-SL	0.0006	DTSC-SL
2,3-Dichloropropanol	616-23-9	--	--	190	USEPA RSL	--	--	1600	DTSC-SL
2,4,4-Trimethylpentene	25167-70-8	--	--	40	DTSC-SL	--	--	170	DTSC-SL
2,4,5-Trichlorophenol	95-95-4	--	--	6300	USEPA RSL	--	--	53000	DTSC-SL
2,4,5-Trichlorophenoxyacetic acid	93-76-5	--	--	630	USEPA RSL	--	--	5300	DTSC-SL
2,4,6-Tribromophenol	118-79-6	--	--	570	USEPA RSL	--	--	4800	DTSC-SL
2,4,6-Trichloroaniline	634-93-5	78	USEPA RSL	1.9	USEPA RSL	210	DTSC-SL	16	DTSC-SL
2,4,6-Trichloroaniline hydrochloride	33663-50-2	19	USEPA RSL	--	--	51	DTSC-SL	--	--
2,4,6-Trichlorophenol	88-06-2	7.8	DTSC-SL	63	USEPA RSL	21	DTSC-SL	530	DTSC-SL
2,4,6-Trinitrotoluene	118-96-7	21	USEPA RSL	36	USEPA RSL	79	DTSC-SL	420	DTSC-SL
2,4/2,6-Dinitrotoluenes	E1615210	0.8	USEPA RSL	57	DTSC-SL	2.2	DTSC-SL	480	DTSC-SL
2,4-Dichlorophenol	120-83-2	--	--	190	USEPA RSL	--	--	1600	DTSC-SL
2,4-Dichlorophenoxyacetic acid	94-75-7	--	--	700	USEPA RSL	--	--	7300	DTSC-SL
2,4-Dichlorophenoxybutyric acid	94-82-6	--	--	1900	USEPA RSL	--	--	16000	DTSC-SL
2,4-Dimethylaniline	95-68-1	2.7	USEPA RSL	130	USEPA RSL	7.4	DTSC-SL	1100	DTSC-SL
2,4-Dimethylaniline hydrochloride	21436-96-4	0.94	USEPA RSL	--	--	2.6	DTSC-SL	--	--
2,4-Dimethylphenol	105-67-9	--	--	1300	USEPA RSL	--	--	11000	DTSC-SL
2,4-Dinitrophenol	51-28-5	--	--	130	USEPA RSL	--	--	1100	DTSC-SL
2,4-Dinitrotoluene	121-14-2	1.7	USEPA RSL	130	USEPA RSL	4.7	DTSC-SL	1000	DTSC-SL
2,6-Dimethylphenol	576-26-1	--	--	38	USEPA RSL	--	--	320	DTSC-SL
2,6-Dinitrotoluene	606-20-2	0.36	USEPA RSL	19	USEPA RSL	0.99	DTSC-SL	160	DTSC-SL
2-Acetylaminofluorene	53-96-3	0.14	USEPA RSL	--	--	0.39	DTSC-SL	--	--
2-Amino-4,6-dinitrotoluene	35572-78-2	--	--	150	USEPA RSL	--	--	2200	DTSC-SL
2-Butoxyethanol	111-76-2	--	--	6300	USEPA RSL	--	--	53000	DTSC-SL
2-Chloroethanol	107-07-3	--	--	1300	DTSC-SL	--	--	13000	DTSC-SL



Analyte	Chemical Abstracts Service Registry Number	Screening Level for Residential Soil (mg/kg), Cancer Endpoint	Reference for Screening Level for Residential Soil, Cancer Endpoint,	Screening Level for Residential Soil (mg/kg), Noncancer Endpoint	Reference for Screening Level for Residential Soil, Noncancer Endpoint	Screening Level for Commercial/ Industrial Soil (mg/kg), Cancer Endpoint	Reference for Screening Level for Commercial/ Industrial Soil, Cancer Endpoint,	Screening Level for Commercial/ Industrial Soil (mg/kg), Noncancer Endpoint	Reference for Screening Level for Commercial/ Industrial Soil, Noncancer Endpoint
2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester Sulfite	140-57-8	22	USEPA RSL	3200	USEPA RSL	59	DTSC-SL	26000	DTSC-SL
2-Chloronaphthalene	91-58-7	--	--	4100	DTSC-SL	--	--	27000	DTSC-SL
2-Chloronitrobenzene	88-73-3	1.8	USEPA RSL	190	USEPA RSL	4.9	DTSC-SL	1500	DTSC-SL
2-Chlorophenol	95-57-8	--	--	340	DTSC-SL	--	--	3900	DTSC-SL
2-Chlorotoluene	95-49-8	--	--	470	DTSC-SL	--	--	2500	DTSC-SL
2-Mercaptobenzothiazole	149-30-4	49	USEPA RSL	250	USEPA RSL	130	DTSC-SL	2100	DTSC-SL
2-Methoxy-5-nitroaniline	99-59-2	11	USEPA RSL	--	--	30	DTSC-SL	--	--
2-Methyl-1,4-benzenediamine dihydrochloride	615-45-2	--	--	19	USEPA RSL	--	--	160	DTSC-SL
2-Methyl-5-nitroaniline	99-55-8	60	USEPA RSL	1300	USEPA RSL	160	DTSC-SL	11000	DTSC-SL
2-Methylaniline hydrochloride	636-21-5	4.2	USEPA RSL	--	--	11	DTSC-SL	--	--
2-Methylbenzene,1-4-diamine monohydrochloride	74612-12-7	--	--	13	USEPA RSL	--	--	110	DTSC-SL
2-Methylbenzene-1,4-diamine sulfate	615-50-9	5.4	USEPA RSL	19	USEPA RSL	15	DTSC-SL	160	DTSC-SL
2-Methylnaphthalene	91-57-6	--	--	190	DTSC-SL	--	--	1300	DTSC-SL
2-Methylphenol	95-48-7	--	--	3200	USEPA RSL	--	--	26000	DTSC-SL
2-Naphthylamine	91-59-8	0.3	USEPA RSL	--	--	0.82	DTSC-SL	--	--
2-Nitroaniline	88-74-4	--	--	630	USEPA RSL	--	--	5200	DTSC-SL
2-Nitrotoluene	88-72-2	2.2	DTSC-SL	62	DTSC-SL	10	DTSC-SL	710	DTSC-SL
2-Phenylphenol	90-43-7	280	USEPA RSL	--	--	760	DTSC-SL	--	--
3,3'-Dichlorobenzidine	91-94-1	0.45	DTSC-SL	--	--	1.2	DTSC-SL	--	--
3,3'-Dimethoxybenzidine	119-90-4	0.34	USEPA RSL	--	--	0.93	DTSC-SL	--	--
3,3'-Dimethylbenzidine	119-93-7	0.049	USEPA RSL	--	--	0.13	DTSC-SL	--	--
3,4-Dimethylphenol	95-65-8	--	--	63	USEPA RSL	--	--	530	DTSC-SL
3-Methylcholanthrene	56-49-5	0.0055	USEPA RSL	--	--	0.067	DTSC-SL	--	--
3-Methylphenol	108-39-4	--	--	3200	USEPA RSL	--	--	26000	DTSC-SL
3-Nitrotoluene	99-08-1	--	--	6.3	USEPA RSL	--	--	53	DTSC-SL
4-(2-Methyl-4-chlorophenoxy)butyric acid	94-81-5	--	--	280	USEPA RSL	--	--	2300	DTSC-SL
4,4'-DDD	72-54-8	2.3	USEPA RSL	1.9	USEPA RSL	6.2	DTSC-SL	16	DTSC-SL
4,4'-DDE	72-55-9	2	USEPA RSL	23	USEPA RSL	9.3	USEPA RSL	340	DTSC-SL
4,4'-DDT	50-29-3	1.9	USEPA RSL	37	USEPA RSL	7.1	DTSC-SL	430	DTSC-SL



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4,4'-Dichlorobenzophenone	90-98-2	--	--	570	USEPA RSL	--	--	4800	DTSC-SL
4,4'-Dichlorodiphenyl sulfone	80-07-9	--	--	51	USEPA RSL	--	--	420	DTSC-SL
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1	12	USEPA RSL	--	--	32	DTSC-SL	--	--
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.081	DTSC-SL	130	USEPA RSL	0.99	DTSC-SL	1100	DTSC-SL
4,4'-Methylenebisbenzeneamine	101-77-9	0.34	USEPA RSL	28000000	USEPA RSL	0.93	DTSC-SL	12000000	USEPA RSL
4,6-Dinitro-2-methylphenol	534-52-1	--	--	5.1	USEPA RSL	--	--	42	DTSC-SL
4,6-Dinitro-o-cyclohexyl phenol	131-89-5	--	--	130	USEPA RSL	--	--	1100	DTSC-SL
4-Amino-2,6-dinitrotoluene	19406-51-0	--	--	150	USEPA RSL	--	--	2100	DTSC-SL
4-Aminobiphenyl	92-67-1	0.026	USEPA RSL	--	--	0.071	DTSC-SL	--	--
4-Chloro-2-methylaniline hydrochloride	3165-93-3	1.2	USEPA RSL	--	--	3.2	DTSC-SL	--	--
4-Chloro-3-methylphenol	59-50-7	--	--	6300	USEPA RSL	--	--	53000	DTSC-SL
4-Chloroaniline	106-47-8	2.7	USEPA RSL	250	USEPA RSL	7.4	DTSC-SL	2100	DTSC-SL
4-Chloronitrobenzene	100-00-5	9	USEPA RSL	44	USEPA RSL	25	DTSC-SL	370	DTSC-SL
4-Chlorotoluene	106-43-4	--	--	440	DTSC-SL	--	--	2300	DTSC-SL
4-Dimethylaminoazobenzene	60-11-7	0.12	USEPA RSL	--	--	0.32	DTSC-SL	--	--
4-Methylphenol	106-44-5	--	--	6300	USEPA RSL	--	--	53000	DTSC-SL
4-Nitroaniline	100-01-6	27	USEPA RSL	250	USEPA RSL	74	DTSC-SL	2100	DTSC-SL
4-Nitropyrene	57835-92-4	0.42	USEPA RSL	--	--	1.1	DTSC-SL	--	--
4-Nitrotoluene	99-99-0	34	USEPA RSL	250	USEPA RSL	93	DTSC-SL	2100	DTSC-SL
7,12-Dimethylbenz[a]anthracene	57-97-6	0.00046	USEPA RSL	--	--	0.0051	DTSC-SL	--	--
9,10-Anthraquinone	84-65-1	14	USEPA RSL	130	USEPA RSL	37	DTSC-SL	1100	DTSC-SL
Acenaphthene	83-32-9	--	--	3300	DTSC-SL	--	--	23000	DTSC-SL
Acephate	30560-19-1	--	--	76	USEPA RSL	--	--	640	DTSC-SL
Acetaldehyde	75-07-0	9.1	DTSC-SL	82	USEPA RSL	40	DTSC-SL	340	USEPA RSL
Acetochlor	34256-82-1	--	--	1300	USEPA RSL	--	--	11000	DTSC-SL
Acetophenone	98-86-2	--	--	6000	DTSC-SL	--	--	55000	DTSC-SL
Acifluorfen sodium	62476-59-9	--	--	820	USEPA RSL	--	--	6900	DTSC-SL
Acrylamide	79-06-1	0.24	USEPA RSL	130	USEPA RSL	3	DTSC-SL	1100	DTSC-SL
Alachlor	15972-60-8	9.7	USEPA RSL	630	USEPA RSL	26	DTSC-SL	5300	DTSC-SL
Aldicarb	116-06-3	--	--	63	USEPA RSL	--	--	530	DTSC-SL
Aldicarb sulfone	1646-88-4	--	--	63	USEPA RSL	--	--	530	DTSC-SL
Aldrin	309-00-2	0.039	USEPA RSL	2.3	USEPA RSL	0.18	USEPA RSL	34	DTSC-SL



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alpha-HCH	319-84-6	0.086	USEPA RSL	510	USEPA RSL	0.24	DTSC-SL	4200	DTSC-SL
Ametryn	834-12-8	--	--	570	USEPA RSL	--	--	4800	DTSC-SL
Amitraz	33089-61-1	--	--	160	USEPA RSL	--	--	1300	DTSC-SL
Aniline	62-53-3	95	USEPA RSL	440	USEPA RSL	260	DTSC-SL	3700	DTSC-SL
Anthracene	120-12-7	--	--	17000	DTSC-SL	--	--	130000	DTSC-SL
Aroclor 1016	12674-11-2	6.6	USEPA RSL	4	DTSC-SL	17	DTSC-SL	29	DTSC-SL
Aroclor 1221	11104-28-2	0.2	USEPA RSL	--	--	0.53	DTSC-SL	--	--
Aroclor 1232	11141-16-5	0.17	USEPA RSL	--	--	0.49	DTSC-SL	--	--
Aroclor 1242	53469-21-9	0.23	USEPA RSL	--	--	0.58	DTSC-SL	--	--
Aroclor 1248	12672-29-6	0.23	USEPA RSL	--	--	0.58	DTSC-SL	--	--
Aroclor 1254	11097-69-1	0.24	USEPA RSL	1.2	USEPA RSL	0.59	DTSC-SL	8.4	DTSC-SL
Aroclor 1260	11096-82-5	0.24	USEPA RSL	--	--	0.6	DTSC-SL	--	--
Aroclor 5460	11126-42-4	--	--	35	USEPA RSL	--	--	260	DTSC-SL
Arsenic	7440-38-2	0.11	DTSC-SL	0.41	DTSC-SL	0.36	DTSC-SL	4.2	DTSC-SL
Asulam	3337-71-1	--	--	2300	USEPA RSL	--	--	19000	DTSC-SL
Atrazine	1912-24-9	2.4	USEPA RSL	2200	USEPA RSL	6.4	DTSC-SL	19000	DTSC-SL
Auramine	492-80-8	0.62	USEPA RSL	--	--	1.7	DTSC-SL	--	--
Avermectin B1a	65195-55-3	--	--	25	USEPA RSL	--	--	210	DTSC-SL
Azinphos-methyl	86-50-0	--	--	190	USEPA RSL	--	--	1600	DTSC-SL
Azodicarbonamide	123-77-3	--	--	8600	USEPA RSL	--	--	39000	DTSC-SL
Benfluralin	1861-40-1	--	--	370	DTSC-SL	--	--	4800	DTSC-SL
Benomyl	17804-35-2	--	--	3200	USEPA RSL	--	--	26000	DTSC-SL
Bensulfuron methyl	83055-99-6	--	--	13000	USEPA RSL	--	--	110000	DTSC-SL
Bentazon	25057-89-0	--	--	1900	USEPA RSL	--	--	16000	DTSC-SL
Benzaldehyde	100-52-7	46	DTSC-SL	4300	DTSC-SL	210	DTSC-SL	29000	DTSC-SL
Benzene	71-43-2	0.33	DTSC-SL	11	DTSC-SL	1.4	DTSC-SL	46	DTSC-SL
Benzidine	92-87-5	0.00024	DTSC-SL	190	USEPA RSL	0.003	DTSC-SL	1600	DTSC-SL
Benzo[a]anthracene	56-55-3	1.1	USEPA RSL	--	--	12	DTSC-SL	--	--
Benzo[a]pyrene	50-32-8	0.11	USEPA RSL	18	USEPA RSL	1.3	DTSC-SL	130	DTSC-SL
Benzo[b]fluoranthene	205-99-2	1.1	USEPA RSL	--	--	13	DTSC-SL	--	--
Benzo[j]fluoranthene	205-82-3	0.42	USEPA RSL	--	--	1.1	DTSC-SL	--	--
Benzo[k]fluoranthene	207-08-9	11	USEPA RSL	--	--	130	DTSC-SL	--	--
Benzoic acid	65-85-0	--	--	250000	USEPA RSL	--	--	2100000	DTSC-SL



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Benzotrichloride	98-07-7	0.028	DTSC-SL	--	--	0.13	DTSC-SL	--	--
Benzyl alcohol	100-51-6	--	--	6300	USEPA RSL	--	--	53000	DTSC-SL
Beryllium	7440-41-7	1600	USEPA RSL	16	DTSC-SL	6900	USEPA RSL	230	DTSC-SL
Beryllium Sulfate	13510-49-1	1600	DTSC-SL	16	DTSC-SL	6900	DTSC-SL	230	DTSC-SL
beta-HCH	319-85-7	0.3	USEPA RSL	--	--	0.82	DTSC-SL	--	--
Bifenox	42576-02-3	--	--	570	USEPA RSL	--	--	4800	DTSC-SL
Biphenthrin	82657-04-3	--	--	950	USEPA RSL	--	--	7900	DTSC-SL
Biphenyl	92-52-4	56	DTSC-SL	47	USEPA RSL	260	DTSC-SL	200	USEPA RSL
bis(2-Chloroethoxy) methane	111-91-1	--	--	190	USEPA RSL	--	--	1600	DTSC-SL
bis(2-Chloroethyl) Ether	111-44-4	0.1	DTSC-SL	--	--	0.47	DTSC-SL	--	--
bis(2-Ethylhexyl) phthalate	117-81-7	39	USEPA RSL	1300	USEPA RSL	110	DTSC-SL	11000	DTSC-SL
bis-Chloroisopropyl Ether	108-60-1	--	--	2000	DTSC-SL	--	--	16000	DTSC-SL
Bisphenol A	80-05-7	--	--	3200	USEPA RSL	--	--	26000	DTSC-SL
Bromodichloromethane	75-27-4	0.29	USEPA RSL	270	DTSC-SL	1.3	USEPA RSL	1300	DTSC-SL
Bromoform	75-25-2	19	USEPA RSL	530	DTSC-SL	86	USEPA RSL	3000	DTSC-SL
Bromophos	2104-96-3	--	--	340	DTSC-SL	--	--	3800	DTSC-SL
Bromoxynil	1689-84-5	5.3	USEPA RSL	950	USEPA RSL	14	DTSC-SL	7900	DTSC-SL
Bromoxynil octanoate	1689-99-2	6.7	USEPA RSL	1100	DTSC-SL	32	USEPA RSL	15000	DTSC-SL
Butyl benzyl phthalate	85-68-7	290	USEPA RSL	13000	USEPA RSL	780	DTSC-SL	110000	DTSC-SL
Butylate	2008-41-5	--	--	3200	DTSC-SL	--	--	33000	DTSC-SL
Butylated hydroxyanisole	25013-16-5	2700	USEPA RSL	--	--	7400	DTSC-SL	--	--
Butylated Hydroxytoluene	128-37-0	150	USEPA RSL	19000	USEPA RSL	410	DTSC-SL	160000	DTSC-SL
Butylphthalyl butylglycolate	85-70-1	--	--	63000	USEPA RSL	--	--	530000	DTSC-SL
Cacodylic acid	75-60-5	--	--	1300	USEPA RSL	--	--	11000	DTSC-SL
Cadmium (diet)	7440-43-9 (diet)	910	DTSC-SL	71	USEPA RSL	4000	DTSC-SL	780	DTSC-SL
Caprolactam	105-60-2	--	--	31000	USEPA RSL	--	--	260000	DTSC-SL
Captafol	2425-06-1	3.6	USEPA RSL	130	USEPA RSL	9.9	DTSC-SL	1100	DTSC-SL
Captan	133-06-2	240	USEPA RSL	8200	USEPA RSL	640	DTSC-SL	69000	DTSC-SL
Carbaryl	63-25-2	--	--	6300	USEPA RSL	--	--	53000	DTSC-SL
Carbofuran	1563-66-2	--	--	320	USEPA RSL	--	--	2600	DTSC-SL
Carbon tetrachloride	56-23-5	0.65	USEPA RSL	52	DTSC-SL	2.9	USEPA RSL	250	DTSC-SL
Carbonyl sulfide	463-58-1	--	--	6.7	DTSC-SL	--	--	28	DTSC-SL
Carbosulfan	55285-14-8	--	--	630	USEPA RSL	--	--	5300	DTSC-SL



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Carboxin	5234-68-4	--	--	6300	USEPA RSL	--	--	53000	DTSC-SL
Chloral hydrate	302-17-0	--	--	6900	DTSC-SL	--	--	80000	DTSC-SL
Chloramben	133-90-4	--	--	950	USEPA RSL	--	--	7900	DTSC-SL
Chloranil	118-75-2	1.3	USEPA RSL	--	--	3.7	DTSC-SL	--	--
Chlordane (technical)	12789-03-6	1.7	USEPA RSL	35	USEPA RSL	6.1	DTSC-SL	360	DTSC-SL
Chlorfenvinphos	470-90-6	--	--	44	USEPA RSL	--	--	370	DTSC-SL
Chlorimuron-ethyl	90982-32-4	--	--	5700	USEPA RSL	--	--	48000	DTSC-SL
Chloroacetaldehyde	107-20-0	0.53	DTSC-SL	--	--	2.4	DTSC-SL	--	--
Chlorobenzilate	510-15-6	4.9	USEPA RSL	1300	USEPA RSL	13	DTSC-SL	11000	DTSC-SL
Chlorodibromomethane	124-48-1	0.94	DTSC-SL	470	DTSC-SL	4.1	DTSC-SL	2500	DTSC-SL
Chlorothalonil	1897-45-6	32	DTSC-SL	950	USEPA RSL	87	DTSC-SL	7900	DTSC-SL
Chlorozotocin	54749-90-5	0.0023	USEPA RSL	--	--	0.0062	DTSC-SL	--	--
Chlorpropham	101-21-3	--	--	3200	USEPA RSL	--	--	26000	DTSC-SL
Chlorpyrifos	2921-88-2	--	--	63	USEPA RSL	--	--	530	DTSC-SL
Chlorpyrifos-methyl	5598-13-0	--	--	630	USEPA RSL	--	--	5300	DTSC-SL
Chlorsulfuron	64902-72-3	--	--	3200	USEPA RSL	--	--	26000	DTSC-SL
Chlorthal-dimethyl	1861-32-1	--	--	630	USEPA RSL	--	--	5300	DTSC-SL
Chlorthiophos	60238-56-4	--	--	51	USEPA RSL	--	--	420	DTSC-SL
Chromium (VI)	18540-29-9	0.3	USEPA RSL	230	USEPA RSL	6.2	DTSC-SL	3500	USEPA RSL
Chrysene	218-01-9	110	USEPA RSL	--	--	1300	DTSC-SL	--	--
cis-1,2-Dichloroethene	156-59-2	--	--	18	DTSC-SL	--	--	84	DTSC-SL
Clofentezine	74115-24-5	--	--	820	USEPA RSL	--	--	6900	DTSC-SL
Cupferron	135-20-6	2.5	USEPA RSL	--	--	6.7	DTSC-SL	--	--
Cyanazine	21725-46-2	0.65	USEPA RSL	130	USEPA RSL	1.8	DTSC-SL	1100	DTSC-SL
Cyclohexylamine	108-91-8	--	--	13000	DTSC-SL	--	--	120000	DTSC-SL
Cyfluthrin	68359-37-5	--	--	1600	USEPA RSL	--	--	13000	DTSC-SL
Cyhalothrin	68085-85-8	--	--	63	USEPA RSL	--	--	530	DTSC-SL
Cyromazine	66215-27-8	--	--	32000	USEPA RSL	--	--	260000	DTSC-SL
Dalapon	75-99-0	--	--	1900	USEPA RSL	--	--	16000	DTSC-SL
Daminozide	1596-84-5	30	USEPA RSL	9500	USEPA RSL	82	DTSC-SL	79000	DTSC-SL
Danitol	39515-41-8	--	--	1600	USEPA RSL	--	--	13000	DTSC-SL
Demeton	8065-48-3	--	--	2.5	USEPA RSL	--	--	21	DTSC-SL
Di(2-ethylhexyl)adipate	103-23-1	450	USEPA RSL	38000	USEPA RSL	1200	DTSC-SL	320000	DTSC-SL



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Diallate	2303-16-4	8.9	USEPA RSL	--	--	24	DTSC-SL	--	--
Diazinon	333-41-5	--	--	44	USEPA RSL	--	--	370	DTSC-SL
Dibenz[a,h]anthracene	53-70-3	0.028	DTSC-SL	--	--	0.31	DTSC-SL	--	--
Dibenzo[a,e]pyrene	192-65-4	0.042	USEPA RSL	--	--	0.11	DTSC-SL	--	--
Dibenzofuran	132-64-9	--	--	66	DTSC-SL	--	--	650	DTSC-SL
Dibenzothiophene	132-65-0	--	--	760	DTSC-SL	--	--	10000	DTSC-SL
Dibutyltin Compounds	E1790660	--	--	19	USEPA RSL	--	--	160	DTSC-SL
Dicamba	1918-00-9	--	--	1900	USEPA RSL	--	--	16000	DTSC-SL
Dichloroacetic acid	79-43-6	11	USEPA RSL	250	USEPA RSL	30	DTSC-SL	2100	DTSC-SL
Dichlorvos	62-73-7	1.9	USEPA RSL	32	USEPA RSL	5.1	DTSC-SL	260	DTSC-SL
Dicrotophos	141-66-2	--	--	1.9	USEPA RSL	--	--	16	DTSC-SL
Dieldrin	60-57-1	0.034	USEPA RSL	3.2	USEPA RSL	0.093	DTSC-SL	26	DTSC-SL
Diethanolamine	111-42-2	--	--	130	USEPA RSL	--	--	1100	DTSC-SL
Diethyl phthalate	84-66-2	--	--	51000	USEPA RSL	--	--	420000	DTSC-SL
Diethylene glycol monobutyl Ether	112-34-5	--	--	1900	USEPA RSL	--	--	15000	DTSC-SL
Diethylene glycol monoethyl Ether	111-90-0	--	--	3800	USEPA RSL	--	--	31000	DTSC-SL
Diethylformamide	617-84-5	--	--	69	DTSC-SL	--	--	790	DTSC-SL
Diethylstilbestrol	56-53-1	0.0016	USEPA RSL	--	--	0.0042	DTSC-SL	--	--
Difenzoquat	43222-48-6	--	--	5200	USEPA RSL	--	--	44000	DTSC-SL
Diflubenzuron	35367-38-5	--	--	1300	USEPA RSL	--	--	11000	DTSC-SL
diisopropyl Methylphosphonate	1445-75-6	--	--	4200	DTSC-SL	--	--	34000	DTSC-SL
Dimethipin	55290-64-7	--	--	1400	USEPA RSL	--	--	12000	DTSC-SL
Dimethoate	60-51-5	--	--	140	USEPA RSL	--	--	1200	DTSC-SL
Dimethyl methylphosphonate	756-79-6	320	USEPA RSL	3800	USEPA RSL	870	DTSC-SL	32000	DTSC-SL
Dimethyl terephthalate	120-61-6	--	--	4200	DTSC-SL	--	--	28000	DTSC-SL
di-n-Butyl Phthalate	84-74-2	--	--	6300	USEPA RSL	--	--	53000	DTSC-SL
Dinitrotoluenes	25321-14-6	1.2	USEPA RSL	57	USEPA RSL	3.3	DTSC-SL	480	DTSC-SL
di-n-Octyl Phthalate	117-84-0	--	--	630	USEPA RSL	--	--	5300	DTSC-SL
Dinoseb	88-85-7	--	--	63	USEPA RSL	--	--	530	DTSC-SL
Diphenamid	957-51-7	--	--	1900	USEPA RSL	--	--	16000	DTSC-SL
Diphenyl Sulfone	127-63-9	--	--	51	USEPA RSL	--	--	420	DTSC-SL
Diphenylamine	122-39-4	--	--	6300	USEPA RSL	--	--	53000	DTSC-SL
Diphenyl-p-phenylenediamine	74-31-7	--	--	19	USEPA RSL	--	--	160	DTSC-SL



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Diquat	85-00-7	--	--	140	USEPA RSL	--	--	1200	DTSC-SL
Direct Black 38	1937-37-7	0.073	DTSC-SL	--	--	0.2	DTSC-SL	--	--
Direct Blue 6	2602-46-2	0.073	USEPA RSL	--	--	0.2	DTSC-SL	--	--
Direct Brown 95	16071-86-6	0.081	USEPA RSL	--	--	0.22	DTSC-SL	--	--
Disulfoton	298-04-4	--	--	2.5	USEPA RSL	--	--	21	DTSC-SL
Diuron	330-54-1	--	--	130	USEPA RSL	--	--	1100	DTSC-SL
Dodine	2439-10-3	--	--	1300	USEPA RSL	--	--	11000	DTSC-SL
Endosulfan	115-29-7	--	--	450	DTSC-SL	--	--	6000	DTSC-SL
Endosulfan Sulfate	1031-07-8	--	--	380	USEPA RSL	--	--	3200	DTSC-SL
Endothall	145-73-3	--	--	1300	USEPA RSL	--	--	11000	DTSC-SL
Endrin	72-20-8	--	--	19	USEPA RSL	--	--	160	DTSC-SL
Epichlorohydrin	106-89-8	1.8	DTSC-SL	19	USEPA RSL	8.1	DTSC-SL	82	USEPA RSL
Ethephon	16672-87-0	--	--	320	USEPA RSL	--	--	2600	DTSC-SL
Ethion	563-12-2	--	--	32	USEPA RSL	--	--	260	DTSC-SL
Ethyl Ether	60-29-7	--	--	2200	DTSC-SL	--	--	10000	DTSC-SL
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5	--	--	0.63	USEPA RSL	--	--	5.3	DTSC-SL
Ethylene cyanohydrin	109-78-4	--	--	4400	USEPA RSL	--	--	37000	DTSC-SL
Ethylene diamine	107-15-3	--	--	6400	DTSC-SL	--	--	77000	DTSC-SL
Ethylene dibromide	106-93-4	0.036	USEPA RSL	7.1	DTSC-SL	0.16	USEPA RSL	30	DTSC-SL
Ethylene glycol	107-21-1	--	--	130000	USEPA RSL	--	--	1100000	DTSC-SL
Ethylene thiourea	96-45-7	4.9	DTSC-SL	5.1	USEPA RSL	13	DTSC-SL	42	DTSC-SL
Ethylphthalyl ethylglycolate	84-72-0	--	--	190000	USEPA RSL	--	--	1600000	DTSC-SL
Fenamiphos	22224-92-6	--	--	16	USEPA RSL	--	--	130	DTSC-SL
Fenvalerate	51630-58-1	--	--	1600	USEPA RSL	--	--	13000	DTSC-SL
Fluometuron	2164-17-2	--	--	820	USEPA RSL	--	--	6900	DTSC-SL
Fluoranthene	206-44-0	--	--	2400	USEPA RSL	--	--	18000	DTSC-SL
Fluorene	86-73-7	--	--	2300	DTSC-SL	--	--	17000	DTSC-SL
Fluoridone	59756-60-4	--	--	5100	USEPA RSL	--	--	42000	DTSC-SL
Flurprimidol	56425-91-3	--	--	2500	USEPA RSL	--	--	21000	DTSC-SL
Flusilazole	85509-19-9	--	--	130	USEPA RSL	--	--	1100	DTSC-SL
Flutolanil	66332-96-5	--	--	32000	USEPA RSL	--	--	260000	DTSC-SL
Fluvalinate	69409-94-5	--	--	630	USEPA RSL	--	--	5300	DTSC-SL



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Folpet	133-07-3	--	--	5700	USEPA RSL	--	--	48000	DTSC-SL
Fomesafen	72178-02-0	--	--	160	USEPA RSL	--	--	1300	DTSC-SL
Fonofos	944-22-9	--	--	130	USEPA RSL	--	--	1100	DTSC-SL
Formaldehyde	50-00-0	11	USEPA RSL	700	DTSC-SL	50	USEPA RSL	3000	DTSC-SL
Fosetyl-al	39148-24-8	--	--	160000	USEPA RSL	--	--	1300000	DTSC-SL
Furan	110-00-9	--	--	9.5	DTSC-SL	--	--	44	DTSC-SL
Furazolidone	67-45-8	0.14	USEPA RSL	--	--	0.39	DTSC-SL	--	--
Furium	531-82-8	0.36	USEPA RSL	--	--	0.99	DTSC-SL	--	--
Furmecyclox	60568-05-0	18	USEPA RSL	--	--	49	DTSC-SL	--	--
gamma-HCH	58-89-9	0.57	USEPA RSL	21	USEPA RSL	2	DTSC-SL	240	DTSC-SL
Glufosinate-ammonium	77182-82-2	--	--	380	USEPA RSL	--	--	3200	DTSC-SL
Glutaraldehyde	111-30-8	--	--	6000	USEPA RSL	--	--	48000	DTSC-SL
Glyphosate	1071-83-6	--	--	6300	USEPA RSL	--	--	53000	DTSC-SL
Guanidine	113-00-8	--	--	690	DTSC-SL	--	--	8000	DTSC-SL
Guanidine Chloride	50-01-1	--	--	1300	USEPA RSL	--	--	11000	DTSC-SL
Guanidine Nitrate	506-93-4	--	--	1900	USEPA RSL	--	--	16000	DTSC-SL
Haloxyfop-methyl	69806-40-2	--	--	3.2	USEPA RSL	--	--	26	DTSC-SL
HCH (mixed isomers)	608-73-1	0.14	DTSC-SL	--	--	0.37	DTSC-SL	--	--
Heptachlor	76-44-8	0.13	USEPA RSL	38	DTSC-SL	0.63	USEPA RSL	510	DTSC-SL
Heptachlor Epoxide	1024-57-3	0.07	USEPA RSL	0.99	DTSC-SL	0.33	USEPA RSL	14	DTSC-SL
Hexabromobenzene	87-82-1	--	--	150	DTSC-SL	--	--	2000	DTSC-SL
Hexachlorobenzene	118-74-1	0.19	DTSC-SL	49	DTSC-SL	0.86	DTSC-SL	470	DTSC-SL
Hexachlorobutadiene	87-68-3	1.2	USEPA RSL	29	DTSC-SL	5.3	USEPA RSL	160	DTSC-SL
Hexachlorodibenzo-p-dioxin Mixture	34465-46-8	0.0001	USEPA RSL	--	--	0.00039	DTSC-SL	--	--
Hexachlorophene	70-30-4	--	--	19	USEPA RSL	--	--	160	DTSC-SL
Hexamethylphosphoramide	680-31-9	--	--	25	USEPA RSL	--	--	210	DTSC-SL
Hexanedioic Acid	124-04-9	--	--	130000	USEPA RSL	--	--	1100000	DTSC-SL
Hexazinone	51235-04-2	--	--	2100	USEPA RSL	--	--	17000	DTSC-SL
Hexythiazox	78587-05-0	--	--	1600	USEPA RSL	--	--	13000	DTSC-SL
HMX	2691-41-0	--	--	3900	USEPA RSL	--	--	54000	DTSC-SL
Hydramethylnon	67485-29-4	--	--	1100	USEPA RSL	--	--	9000	DTSC-SL
Hydrogen Chloride	7647-01-0	--	--	13000000	DTSC-SL	--	--	54000000	DTSC-SL
Hydroquinone	123-31-9	9	USEPA RSL	2500	USEPA RSL	25	DTSC-SL	21000	DTSC-SL



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Imazalil	35554-44-0	8.9	USEPA RSL	160	USEPA RSL	24	DTSC-SL	1300	DTSC-SL
Imazaquin	81335-37-7	--	--	16000	USEPA RSL	--	--	130000	DTSC-SL
Imazethapyr	81335-77-5	--	--	160000	USEPA RSL	--	--	1300000	DTSC-SL
Indeno[1,2,3-cd]pyrene	193-39-5	1.1	USEPA RSL	--	--	13	DTSC-SL	--	--
Iprodione	36734-19-7	--	--	2500	USEPA RSL	--	--	21000	DTSC-SL
Isobutanol	78-83-1	--	--	14000	DTSC-SL	--	--	100000	DTSC-SL
Isophorone	78-59-1	570	USEPA RSL	13000	USEPA RSL	1600	DTSC-SL	110000	DTSC-SL
Isopropalin	33820-53-0	--	--	1100	DTSC-SL	--	--	15000	DTSC-SL
Isopropyl methyl phosphonic acid	1832-54-8	--	--	6300	USEPA RSL	--	--	53000	DTSC-SL
Isoxaben	82558-50-7	--	--	3200	USEPA RSL	--	--	26000	DTSC-SL
Kepone	143-50-0	0.054	USEPA RSL	19	USEPA RSL	0.15	DTSC-SL	160	DTSC-SL
Lactofen	77501-63-4	--	--	510	USEPA RSL	--	--	4200	DTSC-SL
Lactonitrile	78-97-7	--	--	13	USEPA RSL	--	--	110	DTSC-SL
Lead and compounds	7439-92-1	--	--	80	DTSC-SL-SL	--	--	320	DTSC-SL-SL
Lead acetate	301-04-2	1.9	DTSC-SL	--	--	5.3	DTSC-SL	--	--
Lead subacetate	1335-32-6	14	DTSC-SL	--	--	39	DTSC-SL	--	--
Lewisite	541-25-3	--	--	0.23	DTSC-SL	--	--	1.6	DTSC-SL
Linuron	330-55-2	--	--	490	USEPA RSL	--	--	4100	DTSC-SL
Malathion	121-75-5	--	--	1300	USEPA RSL	--	--	11000	DTSC-SL
Maleic anhydride	108-31-6	--	--	6300	USEPA RSL	--	--	52000	DTSC-SL
Maleic hydrazide	123-33-1	--	--	32000	USEPA RSL	--	--	260000	DTSC-SL
Malononitrile	109-77-3	--	--	6.3	USEPA RSL	--	--	53	DTSC-SL
m-Aminophenol	591-27-5	--	--	5100	USEPA RSL	--	--	42000	DTSC-SL
Mancozeb	8018-01-7	--	--	1900	USEPA RSL	--	--	16000	DTSC-SL
Maneb	12427-38-2	--	--	320	USEPA RSL	--	--	2600	DTSC-SL
MCPA	94-74-6	--	--	32	USEPA RSL	--	--	260	DTSC-SL
Mecoprop	93-65-2	--	--	63	USEPA RSL	--	--	530	DTSC-SL
Mephosfolan	950-10-7	--	--	5.7	USEPA RSL	--	--	48	DTSC-SL
Mepiquat	24307-26-4	--	--	1900	USEPA RSL	--	--	16000	DTSC-SL
Mercuric Chloride	7487-94-7	--	--	13	DTSC-SL	--	--	190	DTSC-SL
Mercury	7439-97-6	--	--	1	DTSC-SL	--	--	4.4	DTSC-SL
Merphos	150-50-5	--	--	2.3	USEPA RSL	--	--	34	DTSC-SL
Merphos oxide	78-48-8	--	--	6.3	USEPA RSL	--	--	53	DTSC-SL



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Metalaxyl	57837-19-1	--	--	3800	USEPA RSL	--	--	32000	DTSC-SL
Methamidophos	10265-92-6	--	--	3.2	USEPA RSL	--	--	26	DTSC-SL
Methidathion	950-37-8	--	--	95	USEPA RSL	--	--	790	DTSC-SL
Methomyl	16752-77-5	--	--	1600	USEPA RSL	--	--	13000	DTSC-SL
Methoxychlor	72-43-5	--	--	320	USEPA RSL	--	--	2600	DTSC-SL
Methyl acetate	79-20-9	--	--	24000	DTSC-SL	--	--	130000	DTSC-SL
Methyl Parathion	298-00-0	--	--	16	USEPA RSL	--	--	130	DTSC-SL
Methyl styrene (alpha)	98-83-9	--	--	2200	DTSC-SL	--	--	13000	DTSC-SL
Methylarsonic acid	124-58-3	--	--	630	USEPA RSL	--	--	5300	DTSC-SL
Methylcyclohexane	108-87-2	--	--	5500	DTSC-SL	--	--	23000	DTSC-SL
Methylene Chloride	75-09-2	2.2	DTSC-SL	310	DTSC-SL	26	DTSC-SL	2500	DTSC-SL
Methylene diphenyl diisocyanate	101-68-8	--	--	110000	DTSC-SL	--	--	480000	DTSC-SL
Methylmethanesulfonate	66-27-3	5.5	USEPA RSL	--	--	15	DTSC-SL	--	--
Methylphenols	1319-77-3	--	--	6300	USEPA RSL	--	--	53000	DTSC-SL
Methylphosphonic acid	993-13-5	--	--	3800	USEPA RSL	--	--	32000	DTSC-SL
Metolachlor	51218-45-2	--	--	9500	USEPA RSL	--	--	79000	DTSC-SL
Metribuzin	21087-64-9	--	--	1600	USEPA RSL	--	--	13000	DTSC-SL
Metsulfuron-methyl	74223-64-6	--	--	16000	USEPA RSL	--	--	130000	DTSC-SL
Mineral oils (I)	8012-95-1	--	--	16000	DTSC-SL	--	--	71000	DTSC-SL
Mirex	2385-85-5	0.036	USEPA RSL	15	DTSC-SL	0.17	USEPA RSL	220	DTSC-SL
Molinate	2212-67-1	--	--	130	USEPA RSL	--	--	1100	DTSC-SL
Monomethylaniline	100-61-8	--	--	130	USEPA RSL	--	--	1100	DTSC-SL
Myclobutanil	88671-89-0	--	--	1600	USEPA RSL	--	--	13000	DTSC-SL
N,N-Dimethylaniline	121-69-7	8.6	DTSC-SL	98	DTSC-SL	39	DTSC-SL	750	DTSC-SL
Naled	300-76-5	--	--	120	DTSC-SL	--	--	1100	DTSC-SL
Naphthalene	91-20-3	2	DTSC-SL	130	USEPA RSL	6.5	DTSC-SL	570	DTSC-SL
Napropamide	15299-99-7	--	--	7600	USEPA RSL	--	--	64000	DTSC-SL
n-Butyl alcohol	71-36-3	--	--	4800	DTSC-SL	--	--	36000	DTSC-SL
n-Butylbenzene	104-51-8	--	--	2400	DTSC-SL	--	--	18000	DTSC-SL
Nickel	7440-02-0	15000	USEPA RSL	820	DTSC-SL	64000	USEPA RSL	11000	DTSC-SL
Nickel Acetate	373-02-4	15000	USEPA RSL	670	USEPA RSL	64000	USEPA RSL	5400	DTSC-SL
Nickel Carbonate	3333-67-3	15000	USEPA RSL	670	USEPA RSL	64000	USEPA RSL	5400	DTSC-SL
Nickel refinery dust	E715532	15000	DTSC-SL	820	USEPA RSL	64000	DTSC-SL	11000	USEPA RSL



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Nickelocene	1271-28-9	0.6	DTSC-SL	670	USEPA RSL	1.6	DTSC-SL	5400	DTSC-SL
Nitrocellulose	9004-70-0	--	--	190000000	USEPA RSL	--	--	1600000000	DTSC-SL
Nitrofurantoin	67-20-9	--	--	4400	USEPA RSL	--	--	37000	DTSC-SL
Nitrofurazone	59-87-0	0.42	USEPA RSL	--	--	1.1	DTSC-SL	--	--
Nitroglycerin	55-63-0	32	USEPA RSL	6.3	USEPA RSL	87	DTSC-SL	53	DTSC-SL
Nitroguanidine	556-88-7	--	--	6300	USEPA RSL	--	--	53000	DTSC-SL
N-Methyl-N'-nitro-N-nitrosoguanidine	70-25-7	0.065	USEPA RSL	--	--	0.18	DTSC-SL	--	--
N-Nitrosodiethanolamine	1116-54-7	0.19	USEPA RSL	--	--	0.53	DTSC-SL	--	--
N-Nitrosodiethylamine	55-18-5	0.00081	USEPA RSL	--	--	0.0099	DTSC-SL	--	--
N-Nitroso-di-n-butylamine	924-16-3	0.049	DTSC-SL	--	--	0.23	DTSC-SL	--	--
N-Nitrosodiphenylamine	86-30-6	110	USEPA RSL	--	--	300	DTSC-SL	--	--
N-Nitrosodipropylamine	621-64-7	0.078	USEPA RSL	--	--	0.21	DTSC-SL	--	--
N-Nitrosomorpholine	59-89-2	0.081	USEPA RSL	--	--	0.22	DTSC-SL	--	--
N-Nitroso-N-ethylurea	759-73-9	0.0045	USEPA RSL	--	--	0.055	DTSC-SL	--	--
N-Nitroso-N-methylurea	684-93-5	0.001	USEPA RSL	--	--	0.012	DTSC-SL	--	--
N-Nitrosopiperidine	100-75-4	0.058	USEPA RSL	--	--	0.16	DTSC-SL	--	--
N-Nitrosopyrrolidine	930-55-2	0.26	USEPA RSL	--	--	0.71	DTSC-SL	--	--
Norflurazon	27314-13-2	--	--	950	USEPA RSL	--	--	7900	DTSC-SL
o-Aminophenol	95-55-6	--	--	250	USEPA RSL	--	--	2100	DTSC-SL
Octabromodiphenyl Ethers	32536-52-0	--	--	190	USEPA RSL	--	--	1600	DTSC-SL
Octamethylpyrophosphoramide	152-16-9	--	--	130	USEPA RSL	--	--	1100	DTSC-SL
Oryzalin	19044-88-3	70	USEPA RSL	8800	USEPA RSL	190	DTSC-SL	74000	DTSC-SL
o-Toluidine	95-53-4	3	DTSC-SL	--	--	8.2	DTSC-SL	--	--
Oxadiazon	19666-30-9	--	--	320	USEPA RSL	--	--	2600	DTSC-SL
Oxamyl	23135-22-0	--	--	1600	USEPA RSL	--	--	13000	DTSC-SL
Oxyfluorfen	42874-03-3	7.4	USEPA RSL	1900	USEPA RSL	20	DTSC-SL	16000	DTSC-SL
p,a,a,a-Tetrachlorotoluene	5216-25-1	0.027	DTSC-SL	4	DTSC-SL	0.13	DTSC-SL	43	DTSC-SL
Paclobutrazol	76738-62-0	--	--	820	USEPA RSL	--	--	6900	DTSC-SL
p-Aminophenol	123-30-8	--	--	1300	USEPA RSL	--	--	11000	DTSC-SL
Paraquat dichloride	1910-42-5	--	--	280	USEPA RSL	--	--	2400	DTSC-SL
Parathion	56-38-2	--	--	380	USEPA RSL	--	--	3200	DTSC-SL
PCB-077	32598-13-3	0.038	USEPA RSL	0.41	USEPA RSL	0.094	DTSC-SL	3	DTSC-SL
PCB-081	70362-50-4	0.012	USEPA RSL	0.13	USEPA RSL	0.03	DTSC-SL	1	DTSC-SL



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PCB-105	32598-14-4	0.12	USEPA RSL	1.3	USEPA RSL	0.3	DTSC-SL	10	DTSC-SL
PCB-114	74472-37-0	0.12	USEPA RSL	1.3	USEPA RSL	0.3	DTSC-SL	10	DTSC-SL
PCB-118	31508-00-6	0.12	USEPA RSL	1.3	USEPA RSL	0.3	DTSC-SL	10	DTSC-SL
PCB-123	65510-44-3	0.12	USEPA RSL	1.3	USEPA RSL	0.3	DTSC-SL	10	DTSC-SL
PCB-126	57465-28-8	0.000036	USEPA RSL	0.00041	USEPA RSL	0.00009	DTSC-SL	0.003	DTSC-SL
PCB-156	38380-08-4	0.12	USEPA RSL	1.3	USEPA RSL	0.3	DTSC-SL	10	DTSC-SL
PCB-157	69782-90-7	0.12	USEPA RSL	1.3	USEPA RSL	0.3	DTSC-SL	10	DTSC-SL
PCB-167	52663-72-6	0.12	USEPA RSL	1.3	USEPA RSL	0.31	DTSC-SL	10	DTSC-SL
PCB-169	32774-16-6	0.00012	USEPA RSL	0.0013	USEPA RSL	0.00031	DTSC-SL	0.01	DTSC-SL
PCB-189	39635-31-9	0.13	USEPA RSL	1.3	USEPA RSL	0.31	DTSC-SL	10	DTSC-SL
PCBs (Total)	1336-36-3	0.23	USEPA RSL	--	--	0.58	DTSC-SL	--	--
p-Chlorobenzene sulfonic acid	98-66-8	--	--	6300	USEPA RSL	--	--	53000	DTSC-SL
p-Chlorobenzoic acid	74-11-3	--	--	1900	USEPA RSL	--	--	16000	DTSC-SL
p-Chloro-o-toluidine	95-69-2	2	DTSC-SL	190	USEPA RSL	5.5	DTSC-SL	1600	DTSC-SL
Pebulate	1114-71-2	--	--	2800	DTSC-SL	--	--	24000	DTSC-SL
Pendimethalin	40487-42-1	--	--	19000	USEPA RSL	--	--	160000	DTSC-SL
Pentabromo-6-chloro cyclohexane	87-84-3	27	USEPA RSL	1300	USEPA RSL	74	DTSC-SL	11000	DTSC-SL
Pentabromodiphenyl Ethers	32534-81-9	--	--	150	DTSC-SL	--	--	2100	DTSC-SL
Pentachlorobenzene	608-93-5	--	--	51	DTSC-SL	--	--	510	DTSC-SL
Pentachloroethane	76-01-7	1	DTSC-SL	--	--	4.6	DTSC-SL	--	--
Pentachloronitrobenzene	82-68-8	2.3	DTSC-SL	220	DTSC-SL	11	DTSC-SL	3000	DTSC-SL
Pentachlorophenol	87-86-5	1	USEPA RSL	250	USEPA RSL	2	DTSC-SL	1500	DTSC-SL
Pentaerythritol tetranitrate (PETN)	78-11-5	140	USEPA RSL	130	USEPA RSL	370	DTSC-SL	1100	DTSC-SL
Perfluorobutane sulfonic acid	375-73-5	--	--	1300	USEPA RSL	--	--	11000	DTSC-SL
Perfluorobutanesulfonate	45187-15-3	--	--	1300	USEPA RSL	--	--	11000	DTSC-SL
Permethrin	52645-53-1	--	--	3200	USEPA RSL	--	--	26000	DTSC-SL
Phenacetin	62-44-2	250	USEPA RSL	--	--	670	DTSC-SL	--	--
Phenmedipham	13684-63-4	--	--	15000	USEPA RSL	--	--	130000	DTSC-SL
Phenol	108-95-2	--	--	19000	USEPA RSL	--	--	160000	DTSC-SL
Phenol, 2-(1-methylethoxy)-, methylcarbamate	114-26-1	--	--	250	USEPA RSL	--	--	2100	DTSC-SL
Phenothiazine	92-84-2	--	--	32	USEPA RSL	--	--	260	DTSC-SL
Phenyl Isothiocyanate	103-72-0	--	--	4.3	DTSC-SL	--	--	22	DTSC-SL



Analyte	Chemical Abstracts Service Registry Number	Screening Level for Residential Soil (mg/kg), Cancer Endpoint	Reference for Screening Level for Residential Soil, Cancer Endpoint,	Screening Level for Residential Soil (mg/kg), Noncancer Endpoint	Reference for Screening Level for Residential Soil, Noncancer Endpoint	Screening Level for Commercial/ Industrial Soil (mg/kg), Cancer Endpoint	Reference for Screening Level for Commercial/ Industrial Soil, Cancer Endpoint,	Screening Level for Commercial/ Industrial Soil (mg/kg), Noncancer Endpoint	Reference for Screening Level for Commercial/ Industrial Soil, Noncancer Endpoint
Phenylmercaptan	108-98-5	--	--	40	DTSC-SL	--	--	260	DTSC-SL
Phenylmercuric acetate	62-38-4	--	--	5.1	USEPA RSL	--	--	42	DTSC-SL
Phorate	298-02-2	--	--	13	USEPA RSL	--	--	110	DTSC-SL
Phosmet	732-11-6	--	--	1300	USEPA RSL	--	--	11000	DTSC-SL
Phosphorus, White	7723-14-0	--	--	0.42	DTSC-SL	--	--	2.2	DTSC-SL
Phthalic anhydride	85-44-9	--	--	130000	USEPA RSL	--	--	1000000	DTSC-SL
Picloram	1918-02-1	--	--	4400	USEPA RSL	--	--	37000	DTSC-SL
Picramic Acid	96-91-3	--	--	6.3	USEPA RSL	--	--	53	DTSC-SL
Picric Acid	88-89-1	--	--	57	USEPA RSL	--	--	480	DTSC-SL
Pirimiphos-methyl	29232-93-7	--	--	4.4	USEPA RSL	--	--	37	DTSC-SL
Polybrominated Biphenyls (BP-6)	59536-65-1	0.018	USEPA RSL	0.44	USEPA RSL	0.049	DTSC-SL	3.7	DTSC-SL
Polymeric methylenediphenyl diisocyanate	9016-87-9	--	--	110000	DTSC-SL	--	--	480000	DTSC-SL
Potassium Perfluorobutane Sulfonate	29420-49-3	--	--	1300	USEPA RSL	--	--	11000	DTSC-SL
p-Phthalic acid	100-21-0	--	--	63000	USEPA RSL	--	--	530000	DTSC-SL
Prochloraz	67747-09-5	3.6	USEPA RSL	570	USEPA RSL	9.9	DTSC-SL	4800	DTSC-SL
Profluralin	26399-36-0	--	--	450	DTSC-SL	--	--	6000	DTSC-SL
Prometon	1610-18-0	--	--	950	USEPA RSL	--	--	7900	DTSC-SL
Prometryn	7287-19-6	--	--	2500	USEPA RSL	--	--	21000	DTSC-SL
Propachlor	1918-16-7	--	--	820	USEPA RSL	--	--	6900	DTSC-SL
Propanil	709-98-8	--	--	320	USEPA RSL	--	--	2600	DTSC-SL
Propargite	2312-35-8	2.8	USEPA RSL	2500	USEPA RSL	7.7	DTSC-SL	21000	DTSC-SL
Propargyl alcohol	107-19-7	--	--	120	DTSC-SL	--	--	1100	DTSC-SL
Propazine	139-40-2	--	--	1300	USEPA RSL	--	--	11000	DTSC-SL
Propham	122-42-9	--	--	1300	USEPA RSL	--	--	11000	DTSC-SL
Propiconazole	60207-90-1	--	--	6300	USEPA RSL	--	--	53000	DTSC-SL
Propylene glycol	57-55-6	--	--	1300000	USEPA RSL	--	--	11000000	DTSC-SL
Propyzamide	23950-58-5	--	--	4700	USEPA RSL	--	--	40000	DTSC-SL
p-Toluic Acid	99-94-5	--	--	320	USEPA RSL	--	--	2600	DTSC-SL
p-Toluidine	106-49-0	18	USEPA RSL	250	USEPA RSL	49	DTSC-SL	2100	DTSC-SL
Pyrene	129-00-0	--	--	1800	USEPA RSL	--	--	13000	DTSC-SL
Pyridine	110-86-1	--	--	58	DTSC-SL	--	--	530	DTSC-SL
Quinalphos	13593-03-8	--	--	32	USEPA RSL	--	--	260	DTSC-SL



Analyte	Chemical Abstracts Service Registry Number	Screening Level for Residential Soil (mg/kg), Cancer Endpoint	Reference for Screening Level for Residential Soil, Cancer Endpoint,	Screening Level for Residential Soil (mg/kg), Noncancer Endpoint	Reference for Screening Level for Residential Soil, Noncancer Endpoint	Screening Level for Commercial/ Industrial Soil (mg/kg), Cancer Endpoint	Reference for Screening Level for Commercial/ Industrial Soil, Cancer Endpoint,	Screening Level for Commercial/ Industrial Soil (mg/kg), Noncancer Endpoint	Reference for Screening Level for Commercial/ Industrial Soil, Noncancer Endpoint
Quinoline	91-22-5	0.18	USEPA RSL	--	--	0.49	DTSC-SL	--	--
Quizalofop-ethyl	76578-14-8	--	--	570	USEPA RSL	--	--	4800	DTSC-SL
RDX	121-82-4	8.3	USEPA RSL	300	USEPA RSL	35	DTSC-SL	4000	DTSC-SL
Resmethrin	10453-86-8	--	--	1900	USEPA RSL	--	--	16000	DTSC-SL
Ronnel	299-84-3	--	--	3800	DTSC-SL	--	--	51000	DTSC-SL
Rotenone	83-79-4	--	--	250	USEPA RSL	--	--	2100	DTSC-SL
Safrole	94-59-7	0.55	USEPA RSL	--	--	6.7	DTSC-SL	--	--
sec-Butylbenzene	135-98-8	--	--	2200	DTSC-SL	--	--	12000	DTSC-SL
Sethoxydim	74051-80-2	--	--	8800	USEPA RSL	--	--	74000	DTSC-SL
S-Ethyl dipropylthiocarbamate	759-94-4	--	--	3400	DTSC-SL	--	--	37000	DTSC-SL
Silvex	93-72-1	--	--	510	USEPA RSL	--	--	4200	DTSC-SL
Simazine	122-34-9	4.5	USEPA RSL	320	USEPA RSL	12	DTSC-SL	2600	DTSC-SL
Sodium diethyldithiocarbamate	148-18-5	2	USEPA RSL	1900	USEPA RSL	5.5	DTSC-SL	16000	DTSC-SL
Sodium fluoroacetate	62-74-8	--	--	1.3	USEPA RSL	--	--	11	DTSC-SL
Stirofos	961-11-5	23	USEPA RSL	1900	USEPA RSL	62	DTSC-SL	16000	DTSC-SL
Strychnine	57-24-9	--	--	19	USEPA RSL	--	--	160	DTSC-SL
Styrene	100-42-5	--	--	5600	DTSC-SL	--	--	32000	DTSC-SL
Styrene-Acrylonitrile (SAN) Trimer (THNA isomer)	57964-39-3	--	--	190	DTSC-SL	--	--	1600	DTSC-SL
Styrene-Acrylonitrile (SAN) Trimer (THNP isomer)	57964-40-6	--	--	190	USEPA RSL	--	--	1600	DTSC-SL
Sulfolane	126-33-0	--	--	63	USEPA RSL	--	--	530	DTSC-SL
Tebuthiuron	34014-18-1	--	--	4400	USEPA RSL	--	--	37000	DTSC-SL
Temephos	3383-96-8	--	--	1300	USEPA RSL	--	--	11000	DTSC-SL
Terbacil	5902-51-2	--	--	820	USEPA RSL	--	--	6900	DTSC-SL
Terbufos	13071-79-9	--	--	1.8	DTSC-SL	--	--	23	DTSC-SL
Terbutryn	886-50-0	--	--	63	USEPA RSL	--	--	530	DTSC-SL
tert-Butylbenzene	98-06-6	--	--	2200	DTSC-SL	--	--	12000	DTSC-SL
Tetrachloroethene	127-18-4	0.59	DTSC-SL	81	USEPA RSL	2.7	DTSC-SL	390	USEPA RSL
Tetraethyl Lead	78-00-2	--	--	0.00072	DTSC-SL	--	--	0.0033	DTSC-SL
Tetraethyldithiopyrophosphate	3689-24-5	--	--	32	USEPA RSL	--	--	260	DTSC-SL
Tetrahydrofuran	109-99-9	--	--	18000	USEPA RSL	--	--	92000	DTSC-SL
Thifensulfuron-methyl	79277-27-3	--	--	2700	USEPA RSL	--	--	23000	DTSC-SL
Thiobencarb	28249-77-6	--	--	630	USEPA RSL	--	--	5300	DTSC-SL



Analyte	Chemical Abstracts Service Registry Number	Screening Level for Residential Soil (mg/kg), Cancer Endpoint	Reference for Screening Level for Residential Soil, Cancer Endpoint,	Screening Level for Residential Soil (mg/kg), Noncancer Endpoint	Reference for Screening Level for Residential Soil, Noncancer Endpoint	Screening Level for Commercial/ Industrial Soil (mg/kg), Cancer Endpoint	Reference for Screening Level for Commercial/ Industrial Soil, Cancer Endpoint,	Screening Level for Commercial/ Industrial Soil (mg/kg), Noncancer Endpoint	Reference for Screening Level for Commercial/ Industrial Soil, Noncancer Endpoint
Thiocyanic acid (2-benzothiazolylthio)methyl ester	21564-17-0	--	--	1900	USEPA RSL	--	--	16000	DTSC-SL
Thiodiglycol	111-48-8	--	--	5400	USEPA RSL	--	--	75000	DTSC-SL
Thiofanox	39196-18-4	--	--	19	USEPA RSL	--	--	160	DTSC-SL
Thiophanate-methyl	23564-05-8	45	DTSC-SL	1700	USEPA RSL	120	DTSC-SL	14000	DTSC-SL
Thiram	137-26-8	--	--	950	USEPA RSL	--	--	7900	DTSC-SL
Toluene	108-88-3	--	--	1100	DTSC-SL	--	--	5300	DTSC-SL
Toluene-2,4-diisocyanate	584-84-9	16	DTSC-SL	6.4	USEPA RSL	76	DTSC-SL	27	USEPA RSL
Toluene-2,5-diamine	95-70-5	3	USEPA RSL	13	USEPA RSL	8.2	DTSC-SL	110	DTSC-SL
Toluene-2,6-diisocyanate	91-08-7	16	DTSC-SL	5.3	USEPA RSL	75	DTSC-SL	22	USEPA RSL
Toxaphene	8001-35-2	0.45	DTSC-SL	5.7	USEPA RSL	1.2	DTSC-SL	48	DTSC-SL
Toxaphene, Weathered	E1841606	--	--	1.9	USEPA RSL	--	--	16	DTSC-SL
TPH (C17-C32 aromatic high)	E1790676	--	--	2400	USEPA RSL	--	--	18000	DTSC-SL
TPH (C9-C16 aromatic medium)	E1790674	--	--	97	USEPA RSL	--	--	500	DTSC-SL
Tralomethrin	66841-25-6	--	--	470	USEPA RSL	--	--	4000	DTSC-SL
trans-1,2-Dichloroethene	156-60-5	--	--	130	DTSC-SL	--	--	600	DTSC-SL
trans-Crotonaldehyde	123-73-9	0.086	DTSC-SL	39	DTSC-SL	0.38	DTSC-SL	260	DTSC-SL
Triacetin	102-76-1	--	--	5100000	USEPA RSL	--	--	42000000	DTSC-SL
Triadimefon	43121-43-3	--	--	2100	USEPA RSL	--	--	18000	DTSC-SL
Triallate	2303-17-5	8.2	DTSC-SL	1900	DTSC-SL	38	DTSC-SL	25000	DTSC-SL
Triasulfuron	82097-50-5	--	--	630	USEPA RSL	--	--	5300	DTSC-SL
Tribenuron-methyl	101200-48-0	--	--	510	USEPA RSL	--	--	4200	DTSC-SL
Tributyl phosphate	126-73-8	60	USEPA RSL	630	USEPA RSL	160	DTSC-SL	5300	DTSC-SL
Tributyltin	688-73-3	--	--	3.6	DTSC-SL	--	--	17	DTSC-SL
Tributyltin Compounds	E1790678	--	--	19	USEPA RSL	--	--	160	DTSC-SL
Tributyltin oxide	56-35-9	--	--	19	USEPA RSL	--	--	160	DTSC-SL
Trichloroacetic acid	76-03-9	7.8	USEPA RSL	1300	USEPA RSL	21	DTSC-SL	11000	DTSC-SL
Trichlorofluoromethane	75-69-4	--	--	1200	DTSC-SL	--	--	5400	DTSC-SL
Tricresyl Phosphates	1330-78-5	--	--	1300	USEPA RSL	--	--	11000	DTSC-SL
Tridiphan	58138-08-2	--	--	190	USEPA RSL	--	--	1600	DTSC-SL
Triethyleneglycol	112-27-6	--	--	130000	USEPA RSL	--	--	1100000	DTSC-SL
Trifluralin	1582-09-8	81	DTSC-SL	570	DTSC-SL	380	DTSC-SL	7800	DTSC-SL
Trimethyl phosphate	512-56-1	27	USEPA RSL	630	USEPA RSL	74	DTSC-SL	5300	DTSC-SL



Analyte	Chemical Abstracts Service Registry Number	Screening Level for Residential Soil (mg/kg), Cancer Endpoint	Reference for Screening Level for Residential Soil, Cancer Endpoint,	Screening Level for Residential Soil (mg/kg), Noncancer Endpoint	Reference for Screening Level for Residential Soil, Noncancer Endpoint	Screening Level for Commercial/ Industrial Soil (mg/kg), Cancer Endpoint	Reference for Screening Level for Commercial/ Industrial Soil, Cancer Endpoint,	Screening Level for Commercial/ Industrial Soil (mg/kg), Noncancer Endpoint	Reference for Screening Level for Commercial/ Industrial Soil, Noncancer Endpoint
Triphenylphosphine oxide	791-28-6	--	--	1300	USEPA RSL	--	--	11000	DTSC-SL
Tris(1,3-dichloro-2-propyl)phosphate	13674-87-8	--	--	1300	USEPA RSL	--	--	11000	DTSC-SL
Tris(1-chloro-2-propyl)phosphate	13674-84-5	--	--	630	USEPA RSL	--	--	5300	DTSC-SL
Tris(2-chloroethyl)phosphate	115-96-8	27	USEPA RSL	440	USEPA RSL	74	DTSC-SL	3700	DTSC-SL
Tris(2-ethylhexyl)phosphate	78-42-2	170	USEPA RSL	6300	USEPA RSL	460	DTSC-SL	53000	DTSC-SL
Uranium	7440-61-1	--	--	16	DTSC-SL	--	--	230	DTSC-SL
Urethane	51-79-6	0.12	USEPA RSL	--	--	1.5	DTSC-SL	--	--
Vernam	1929-77-7	--	--	68	DTSC-SL	--	--	760	DTSC-SL
Vinclozolin	50471-44-8	--	--	76	USEPA RSL	--	--	640	DTSC-SL
Vinyl chloride	75-01-4	0.0082	DTSC-SL	70	USEPA RSL	0.15	DTSC-SL	370	USEPA RSL
Warfarin	81-81-2	--	--	19	USEPA RSL	--	--	160	DTSC-SL
Zineb	12122-67-7	--	--	3200	USEPA RSL	--	--	26000	DTSC-SL

Symbols, Abbreviations, and Acronyms:

- = no value
- DTSC = California Department of Toxic Substances Control
- mg/kg = milligrams per kilogram
- RSL = Regional Screening Level
- SL = screening level
- USEPA = U.S. Environmental Protection Agency



**Table 2: HHRA Note 3 June 2020, DTSC-recommended Screening Levels for Tap Water Analytes**

<b>Analyte</b>	<b>Chemical Abstracts Service Registry Number</b>	<b>Screening Level for Tap Water (µg/L), Cancer Endpoint</b>	<b>Reference for Screening Level for Tap Water, Cancer Endpoint</b>	<b>Screening Level for Tap Water (µg/L), Noncancer Endpoint</b>	<b>Reference for Screening Level for Tap Water, Noncancer Endpoint</b>
1,1,1,2-Tetrachloroethane	630-20-6	0.57	USEPA RSL	160	DTSC-SL
1,1,1-Trichloroethane	71-55-6	--	--	2000	DTSC-SL
1,1,2,2-Tetrachloroethane	79-34-5	0.076	USEPA RSL	110	DTSC-SL
1,1,2-Trichloropropane	598-77-6	--	--	28	DTSC-SL
1,1-Dichloroethane	75-34-3	2.8	USEPA RSL	1200	DTSC-SL
1,1-Dichloroethene	75-35-4	--	--	130	DTSC-SL
1,2,3-Trichlorobenzene	87-61-6	--	--	3.4	DTSC-SL
1,2,3-Trichloropropane	96-18-4	0.0002	DTSC-SL	0.62	USEPA RSL
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	1	DTSC-SL
1,2,4-Tribromobenzene	615-54-3	--	--	22	DTSC-SL
1,2,4-Trichlorobenzene	120-82-1	0.46	DTSC-SL	4	USEPA RSL
1,2-Dibromo-3-chloropropane	96-12-8	0.0003	DTSC-SL	0.37	USEPA RSL
1,3-Dibromobenzene	108-36-1	--	--	2	DTSC-SL
1,3-Dichloropropane	142-28-9	--	--	110	DTSC-SL
1,4-Dibromobenzene	106-37-6	--	--	51	DTSC-SL
1,4-Dithiane	505-29-3	--	--	59	DTSC-SL
1-Bromo-3-fluorobenzene	1073-06-9	--	--	1.7	DTSC-SL
1-Bromo-4-fluorobenzene	460-00-4	--	--	1.6	DTSC-SL
1-Chlorobutane	109-69-3	--	--	220	DTSC-SL
1-Methylnaphthalene	90-12-0	0.46	DTSC-SL	300	DTSC-SL
2,4,4-Trimethylpentene	25167-70-8	--	--	36	DTSC-SL
2,4,6-Trichlorophenol	88-06-2	0.65	DTSC-SL	12	USEPA RSL
2,4/2,6-Dinitrotoluenes	E1615210	0.11	USEPA RSL	17	DTSC-SL
2-Chloroethanol	107-07-3	--	--	120	DTSC-SL
2-Chloronaphthalene	91-58-7	--	--	350	DTSC-SL
2-Chlorophenol	95-57-8	--	--	29	DTSC-SL
2-Chlorotoluene	95-49-8	--	--	98	DTSC-SL
2-Methylnaphthalene	91-57-6	--	--	17	DTSC-SL
2-Nitrotoluene	88-72-2	0.077	DTSC-SL	5.1	DTSC-SL
3,3'-Dichlorobenzidine	91-94-1	0.047	DTSC-SL	--	--
4,4'-DDE	72-55-9	0.046	USEPA RSL	1.8	DTSC-SL
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	0.011	DTSC-SL	26	USEPA RSL
4-Chlorotoluene	106-43-4	--	--	100	DTSC-SL



Analyte	Chemical Abstracts Service Registry Number	Screening Level for Tap Water (µg/L), Cancer Endpoint	Reference for Screening Level for Tap Water, Cancer Endpoint	Screening Level for Tap Water (µg/L), Noncancer Endpoint	Reference for Screening Level for Tap Water, Noncancer Endpoint
Acenaphthene	83-32-9	--	--	260	DTSC-SL
Acetaldehyde	75-07-0	2.1	DTSC-SL	19	USEPA RSL
Acetophenone	98-86-2	--	--	580	DTSC-SL
Aldrin	309-00-2	0.00092	USEPA RSL	0.18	DTSC-SL
Anthracene	120-12-7	--	--	1000	DTSC-SL
Aroclor 1016	12674-11-2	0.22	USEPA RSL	0.41	DTSC-SL
Aroclor 1254	11097-69-1	0.0079	USEPA RSL	0.12	DTSC-SL
Aroclor 5460	11126-42-4	--	--	3.5	DTSC-SL
Arsenic	7440-38-2	0.0082	DTSC-SL	0.07	DTSC-SL
Benfluralin	1861-40-1	--	--	17	DTSC-SL
Benzaldehyde	100-52-7	4.3	DTSC-SL	580	DTSC-SL
Benzene	71-43-2	0.15	DTSC-SL	5.7	DTSC-SL
Benzidine	92-87-5	0.000049	DTSC-SL	59	USEPA RSL
Benzo[a]anthracene	56-55-3	0.017	DTSC-SL	--	--
Benzotrichloride	98-07-7	0.0011	DTSC-SL	--	--
Beryllium	7440-41-7	--	--	4	DTSC-SL
Beryllium Sulfate	13510-49-1	--	--	4	DTSC-SL
Biphenyl	92-52-4	1.6	DTSC-SL	0.83	USEPA RSL
bis(2-Chloroethyl) Ether	111-44-4	0.0063	DTSC-SL	--	--
bis-Chloroisopropyl Ether	108-60-1	--	--	230	DTSC-SL
Bromodichloromethane	75-27-4	0.13	USEPA RSL	120	DTSC-SL
Bromoform	75-25-2	3.3	USEPA RSL	120	DTSC-SL
Bromophos	2104-96-3	--	--	19	DTSC-SL
Bromoxynil octanoate	1689-99-2	0.24	USEPA RSL	56	DTSC-SL
Butylate	2008-41-5	--	--	220	DTSC-SL
Carbon tetrachloride	56-23-5	0.45	USEPA RSL	36	DTSC-SL
Carbonyl sulfide	463-58-1	--	--	21	DTSC-SL
Chloral hydrate	302-17-0	--	--	590	DTSC-SL
Chloroacetaldehyde	107-20-0	0.064	DTSC-SL	--	--
Chlorodibromomethane	124-48-1	0.2	DTSC-SL	120	DTSC-SL
Chlorothalonil	1897-45-6	4	DTSC-SL	260	USEPA RSL
cis-1,2-Dichloroethene	156-59-2	--	--	12	DTSC-SL
Cyanogen	460-19-5	--	--	5.9	DTSC-SL
Cyanogen bromide	506-68-3	--	--	530	DTSC-SL
Cyanogen chloride	506-77-4	--	--	290	DTSC-SL
Cyclohexylamine	108-91-8	--	--	1200	DTSC-SL
Dibenz[a,h]anthracene	53-70-3	0.0061	DTSC-SL	--	--



Analyte	Chemical Abstracts Service Registry Number	Screening Level for Tap Water (µg/L), Cancer Endpoint	Reference for Screening Level for Tap Water, Cancer Endpoint	Screening Level for Tap Water (µg/L), Noncancer Endpoint	Reference for Screening Level for Tap Water, Noncancer Endpoint
Dibenzofuran	132-64-9	--	--	4	DTSC-SL
Dibenzothiophene	132-65-0	--	--	37	DTSC-SL
Dieldrin	60-57-1	0.00066	USEPA RSL	0.18	DTSC-SL
Diethylformamide	617-84-5	--	--	5.9	DTSC-SL
diisopropyl Methylphosphonate	1445-75-6	--	--	470	DTSC-SL
Dimethyl terephthalate	120-61-6	--	--	580	DTSC-SL
Endosulfan	115-29-7	--	--	33	DTSC-SL
Epichlorohydrin	106-89-8	0.19	DTSC-SL	2	USEPA RSL
Ethyl Ether	60-29-7	--	--	1200	DTSC-SL
Ethylene diamine	107-15-3	--	--	530	DTSC-SL
Ethylene dibromide	106-93-4	0.0075	USEPA RSL	1.7	DTSC-SL
Ethylene thiourea	96-45-7	0.71	DTSC-SL	1.6	USEPA RSL
Fluorene	86-73-7	--	--	160	DTSC-SL
Formaldehyde	50-00-0	0.39	USEPA RSL	19	DTSC-SL
Furan	110-00-9	--	--	5.8	DTSC-SL
Guanidine	113-00-8	--	--	59	DTSC-SL
HCH (mixed isomers)	608-73-1	0.011	DTSC-SL	--	--
Heptachlor	76-44-8	0.0014	USEPA RSL	0.98	DTSC-SL
Heptachlor Epoxide	1024-57-3	0.0014	USEPA RSL	0.058	DTSC-SL
Hexabromobenzene	87-82-1	--	--	12	DTSC-SL
Hexachlorobenzene	118-74-1	0.0088	DTSC-SL	4.7	DTSC-SL
Hexachlorobutadiene	87-68-3	0.14	USEPA RSL	3.6	DTSC-SL
Hydrogen Chloride	7647-01-0	--	--	19	DTSC-SL
Isobutanol	78-83-1	--	--	1800	DTSC-SL
Isopropalin	33820-53-0	--	--	30	DTSC-SL
Lead acetate	301-04-2	0.28	DTSC-SL	--	--
Lead subacetate	1335-32-6	2.1	DTSC-SL	--	--
Lewisite	541-25-3	--	--	0.029	DTSC-SL
Mercuric Chloride	7487-94-7	--	--	3	DTSC-SL
Mercury	7439-97-6	--	--	0.063	DTSC-SL
Merphos	150-50-5	--	--	0.18	DTSC-SL
Methoxychlor	72-43-5	--	--	20	DTSC-SL
Methyl acetate	79-20-9	--	--	5900	DTSC-SL
Methyl styrene (alpha)	98-83-9	--	--	330	DTSC-SL
Methylcyclohexane	108-87-2	--	--	13000	DTSC-SL
Methylene Chloride	75-09-2	1.7	DTSC-SL	100	DTSC-SL
Mineral oils (I)	8012-95-1	--	--	18000	DTSC-SL



<b>Analyte</b>	<b>Chemical Abstracts Service Registry Number</b>	<b>Screening Level for Tap Water (µg/L), Cancer Endpoint</b>	<b>Reference for Screening Level for Tap Water, Cancer Endpoint</b>	<b>Screening Level for Tap Water (µg/L), Noncancer Endpoint</b>	<b>Reference for Screening Level for Tap Water, Noncancer Endpoint</b>
Mirex	2385-85-5	0.00088	USEPA RSL	1.2	DTSC-SL
N,N-Dimethylaniline	121-69-7	0.63	DTSC-SL	11	DTSC-SL
Naled	300-76-5	--	--	12	DTSC-SL
Naphthalene	91-20-3	0.12	DTSC-SL	6.1	USEPA RSL
n-Butyl alcohol	71-36-3	--	--	590	DTSC-SL
n-Butylbenzene	104-51-8	--	--	290	DTSC-SL
Nickel	7440-02-0	--	--	220	DTSC-SL
Nickelocene	1271-28-9	0.086	DTSC-SL	220	USEPA RSL
N-Nitroso-di-n-butylamine	924-16-3	0.0014	DTSC-SL	--	--
o-Toluidine	95-53-4	0.42	DTSC-SL	--	--
p,a,a,a-Tetrachlorotoluene	5216-25-1	0.00076	DTSC-SL	0.23	DTSC-SL
p-Chloro-o-toluidine	95-69-2	0.26	DTSC-SL	54	USEPA RSL
Pebulate	1114-71-2	--	--	240	DTSC-SL
Pentabromodiphenyl Ethers	32534-81-9	--	--	12	DTSC-SL
Pentachlorobenzene	608-93-5	--	--	2.1	DTSC-SL
Pentachloroethane	76-01-7	0.18	DTSC-SL	--	--
Pentachloronitrobenzene	82-68-8	0.05	DTSC-SL	13	DTSC-SL
Phenyl Isothiocyanate	103-72-0	--	--	1	DTSC-SL
Phenylmercaptan	108-98-5	--	--	5.6	DTSC-SL
Phosphorus, White	7723-14-0	--	--	0.12	DTSC-SL
Profluralin	26399-36-0	--	--	17	DTSC-SL
Propargyl alcohol	107-19-7	--	--	12	DTSC-SL
Pyrene	129-00-0	--	--	81	DTSC-SL
Pyridine	110-86-1	--	--	5.9	DTSC-SL
Ronnel	299-84-3	--	--	210	DTSC-SL
sec-Butylbenzene	135-98-8	--	--	590	DTSC-SL
S-Ethyl dipropylthiocarbamate	759-94-4	--	--	270	DTSC-SL
Styrene	100-42-5	--	--	1100	DTSC-SL
Terbufos	13071-79-9	--	--	0.11	DTSC-SL
tert-Butylbenzene	98-06-6	--	--	380	DTSC-SL
Tetrachloroethene	127-18-4	0.084	DTSC-SL	41	USEPA RSL
Tetraethyl Lead	78-00-2	--	--	0.00051	DTSC-SL
Thallium acetate	563-68-8	--	--	0.059	DTSC-SL
Thallium carbonate	6533-73-9	--	--	0.12	DTSC-SL
Thiocyanic acid	463-56-9	--	--	1.2	DTSC-SL
Thiophanate-methyl	23564-05-8	6.4	DTSC-SL	530	USEPA RSL
Toluene	108-88-3	--	--	410	DTSC-SL



Analyte	Chemical Abstracts Service Registry Number	Screening Level for Tap Water (µg/L), Cancer Endpoint	Reference for Screening Level for Tap Water, Cancer Endpoint	Screening Level for Tap Water (µg/L), Noncancer Endpoint	Reference for Screening Level for Tap Water, Noncancer Endpoint
Toluene-2,4-diisocyanate	584-84-9	0.34	DTSC-SL	0.017	USEPA RSL
Toluene-2,6-diisocyanate	91-08-7	0.34	DTSC-SL	0.017	USEPA RSL
Toxaphene	8001-35-2	0.065	DTSC-SL	1.8	USEPA RSL
trans-1,2-Dichloroethene	156-60-5	--	--	110	DTSC-SL
trans-Crotonaldehyde	123-73-9	0.0091	DTSC-SL	5.9	DTSC-SL
Triallate	2303-17-5	0.19	DTSC-SL	110	DTSC-SL
Tributyltin	688-73-3	--	--	1.5	DTSC-SL
Trichlorofluoromethane	75-69-4	--	--	1700	DTSC-SL
Trifluralin	1582-09-8	1.4	DTSC-SL	25	DTSC-SL
Vernam	1929-77-7	--	--	4.8	DTSC-SL
Vinyl chloride	75-01-4	0.0098	DTSC-SL	45	USEPA RSL

Symbols, Abbreviations, and Acronyms:

- = no value
- µg/L = micrograms per liter
- DTSC = California Department of Toxic Substances Control
- RSL = Regional Screening Level
- SL = screening level
- USEPA = U.S. Environmental Protection Agency



Table 3: HHRA Note 3, June 2020, DTSC-recommended Screening Levels for Ambient Air Analytes

Analyte	Chemical Abstracts Service Registry Number	Screening Level for Residential Air (µg/m³), Cancer Endpoint	Reference for Screening Level for Residential Air, Cancer Endpoint	Screening Level for Residential Air (µg/m³), Noncancer Endpoint	Reference for Screening Level for Residential Air, Noncancer Endpoint	Screening Level for Commercial/Industrial Air (µg/m³), Cancer Endpoint	Reference for Screening Level for Commercial/Industrial Air, Cancer Endpoint	Screening Level for Commercial/Industrial Air (µg/m³), Noncancer Endpoint	Reference for Screening Level for Commercial/Industrial Air, Noncancer Endpoint
1,1,1,2-Tetrachloroethane	630-20-6	0.38	USEPA RSL	130	DTSC-SL	1.7	USEPA RSL	530	DTSC-SL
1,1,1-Trichloroethane	71-55-6	--	--	1000	DTSC-SL	--	--	4400	DTSC-SL
1,1,2,2-Tetrachloroethane	79-34-5	0.048	USEPA RSL	83	DTSC-SL	0.21	USEPA RSL	350	DTSC-SL
1,1,2-Trichloropropane	598-77-6	--	--	21	DTSC-SL	--	--	88	DTSC-SL
1,1-Dichloroethane	75-34-3	1.8	USEPA RSL	830	DTSC-SL	7.7	USEPA RSL	3500	DTSC-SL
1,1-Dichloroethene	75-35-4	--	--	73	DTSC-SL	--	--	310	DTSC-SL
1,2,3-Trichlorobenzene	87-61-6	--	--	3.3	DTSC-SL	--	--	14	DTSC-SL
1,2,3-Trichloropropane	96-18-4	0.00014	DTSC-SL	0.31	USEPA RSL	0.0016	DTSC-SL	1.3	USEPA RSL
1,2,4,5-Tetrachlorobenzene	95-94-3	--	--	1.3	DTSC-SL	--	--	5.3	DTSC-SL
1,2,4-Tribromobenzene	615-54-3	--	--	21	DTSC-SL	--	--	88	DTSC-SL
1,2,4-Trichlorobenzene	120-82-1	0.38	DTSC-SL	2.1	USEPA RSL	1.7	DTSC-SL	8.8	USEPA RSL
1,3-Butadiene	106-99-0	0.017	DTSC-SL	2.1	USEPA RSL	0.072	DTSC-SL	8.8	USEPA RSL
1,3-Dibromobenzene	108-36-1	--	--	1.7	DTSC-SL	--	--	7	DTSC-SL
1,3-Dichloropropane	142-28-9	--	--	83	DTSC-SL	--	--	350	DTSC-SL
1,4-Dibromobenzene	106-37-6	--	--	42	DTSC-SL	--	--	180	DTSC-SL
1,4-Dithiane	505-29-3	--	--	42	DTSC-SL	--	--	180	DTSC-SL
1-Bromo-3-fluorobenzene	1073-06-9	--	--	1.3	DTSC-SL	--	--	5.3	DTSC-SL
1-Bromo-4-fluorobenzene	460-00-4	--	--	1.3	DTSC-SL	--	--	5.3	DTSC-SL
1-Chlorobutane	109-69-3	--	--	170	DTSC-SL	--	--	700	DTSC-SL
1-Methylnaphthalene	90-12-0	0.39	DTSC-SL	290	DTSC-SL	1.7	DTSC-SL	1200	DTSC-SL
2,4,4-Trimethylpentene	25167-70-8	--	--	42	DTSC-SL	--	--	180	DTSC-SL
2,4,6-Trichlorophenol	88-06-2	0.14	DTSC-SL	--	--	0.61	DTSC-SL	--	--
2-Chloroethanol	107-07-3	--	--	83	DTSC-SL	--	--	350	DTSC-SL
2-Chloronaphthalene	91-58-7	--	--	330	DTSC-SL	--	--	1400	DTSC-SL
2-Chlorophenol	95-57-8	--	--	21	DTSC-SL	--	--	88	DTSC-SL
2-Chlorotoluene	95-49-8	--	--	83	DTSC-SL	--	--	350	DTSC-SL
2-Methylnaphthalene	91-57-6	--	--	17	DTSC-SL	--	--	70	DTSC-SL
2-Naphthylamine	91-59-8	0.0062	DTSC-SL	--	--	0.027	DTSC-SL	--	--
2-Nitrotoluene	88-72-2	0.051	DTSC-SL	3.8	DTSC-SL	0.22	DTSC-SL	16	DTSC-SL
4,4'-DDE	72-55-9	0.029	USEPA RSL	1.3	DTSC-SL	0.13	USEPA RSL	5.3	DTSC-SL
4-Chlorotoluene	106-43-4	--	--	83	DTSC-SL	--	--	350	DTSC-SL



Analyte	Chemical Abstracts Service Registry Number	Screening Level for Residential Air (µg/m³), Cancer Endpoint	Reference for Screening Level for Residential Air, Cancer Endpoint	Screening Level for Residential Air (µg/m³), Noncancer Endpoint	Reference for Screening Level for Residential Air, Noncancer Endpoint	Screening Level for Commercial/ Industrial Air (µg/m³), Cancer Endpoint	Reference for Screening Level for Commercial/ Industrial Air, Cancer Endpoint	Screening Level for Commercial/ Industrial Air (µg/m³), Noncancer Endpoint	Reference for Screening Level for Commercial/ Industrial Air, Noncancer Endpoint
Acenaphthene	83-32-9	--	--	250	DTSC-SL	--	--	1100	DTSC-SL
Acetaldehyde	75-07-0	1	DTSC-SL	9.4	USEPA RSL	4.5	DTSC-SL	39	USEPA RSL
Acetophenone	98-86-2	--	--	420	DTSC-SL	--	--	1800	DTSC-SL
Aldrin	309-00-2	0.00057	USEPA RSL	0.13	DTSC-SL	0.0025	USEPA RSL	0.53	DTSC-SL
Ammonia	7664-41-7	--	--	210	DTSC-SL	--	--	880	DTSC-SL
Anthracene	120-12-7	--	--	1300	DTSC-SL	--	--	5300	DTSC-SL
Aroclor 1016	12674-11-2	0.14	USEPA RSL	0.29	DTSC-SL	0.61	USEPA RSL	1.2	DTSC-SL
Aroclor 1254	11097-69-1	0.0049	USEPA RSL	0.083	DTSC-SL	0.021	USEPA RSL	0.35	DTSC-SL
Aroclor 5460	11126-42-4	--	--	2.5	DTSC-SL	--	--	11	DTSC-SL
Arsine	7784-42-1	--	--	0.016	DTSC-SL	--	--	0.066	DTSC-SL
Benfluralin	1861-40-1	--	--	21	DTSC-SL	--	--	88	DTSC-SL
Benzaldehyde	100-52-7	2.8	DTSC-SL	420	DTSC-SL	12	DTSC-SL	1800	DTSC-SL
Benzene	71-43-2	0.097	DTSC-SL	3.1	DTSC-SL	0.42	DTSC-SL	13	DTSC-SL
Benzidine	92-87-5	0.0000072	DTSC-SL	--	--	0.000088	DTSC-SL	--	--
Benzo[a]anthracene	56-55-3	0.0092	DTSC-SL	--	--	0.11	DTSC-SL	--	--
Benzo[a]pyrene	50-32-8	0.00092	DTSC-SL	0.0021	USEPA RSL	0.011	DTSC-SL	0.0088	USEPA RSL
Benzo[b]fluoranthene	205-99-2	0.0092	DTSC-SL	--	--	0.11	DTSC-SL	--	--
Benzo[k]fluoranthene	207-08-9	0.0092	DTSC-SL	--	--	0.11	DTSC-SL	--	--
Benzotrichloride	98-07-7	0.00086	DTSC-SL	--	--	0.0038	DTSC-SL	--	--
Beryllium	7440-41-7	0.0012	USEPA RSL	0.0073	DTSC-SL	0.0051	USEPA RSL	0.031	DTSC-SL
Beryllium Sulfate	13510-49-1	0.0012	DTSC-SL	0.0073	DTSC-SL	0.0051	DTSC-SL	0.031	DTSC-SL
Biphenyl	92-52-4	1.4	DTSC-SL	0.42	USEPA RSL	6.1	DTSC-SL	1.8	USEPA RSL
bis(2-Chloroethyl) Ether	111-44-4	0.004	DTSC-SL	--	--	0.017	DTSC-SL	--	--
bis-Chloroisopropyl Ether	108-60-1	--	--	170	DTSC-SL	--	--	700	DTSC-SL
Bromodichloromethane	75-27-4	0.076	USEPA RSL	83	DTSC-SL	0.33	USEPA RSL	350	DTSC-SL
Bromoform	75-25-2	2.6	USEPA RSL	83	DTSC-SL	11	USEPA RSL	350	DTSC-SL
Bromophos	2104-96-3	--	--	21	DTSC-SL	--	--	88	DTSC-SL
Bromoxynil octanoate	1689-99-2	--	--	63	DTSC-SL	--	--	260	DTSC-SL
Butylate	2008-41-5	--	--	210	DTSC-SL	--	--	880	DTSC-SL
Cadmium (water)	7440-43-9 (water)	0.00067	DTSC-SL	0.01	USEPA RSL	0.0029	DTSC-SL	0.044	USEPA RSL
Carbon tetrachloride	56-23-5	0.47	USEPA RSL	42	DTSC-SL	2	USEPA RSL	180	DTSC-SL
Carbonyl sulfide	463-58-1	--	--	10	DTSC-SL	--	--	44	DTSC-SL
Chloral hydrate	302-17-0	--	--	420	DTSC-SL	--	--	1800	DTSC-SL
Chloroacetaldehyde	107-20-0	0.042	DTSC-SL	--	--	0.18	DTSC-SL	--	--



Analyte	Chemical Abstracts Service Registry Number	Screening Level for Residential Air (µg/m³), Cancer Endpoint	Reference for Screening Level for Residential Air, Cancer Endpoint	Screening Level for Residential Air (µg/m³), Noncancer Endpoint	Reference for Screening Level for Residential Air, Noncancer Endpoint	Screening Level for Commercial/ Industrial Air (µg/m³), Cancer Endpoint	Reference for Screening Level for Commercial/ Industrial Air, Cancer Endpoint	Screening Level for Commercial/ Industrial Air (µg/m³), Noncancer Endpoint	Reference for Screening Level for Commercial/ Industrial Air, Noncancer Endpoint
Chlorodibromomethane	124-48-1	0.13	DTSC-SL	83	DTSC-SL	0.58	DTSC-SL	350	DTSC-SL
Chromium (VI)	18540-29-9	0.0000068	DTSC-SL	0.1	USEPA RSL	0.000082	DTSC-SL	0.44	USEPA RSL
Chrysene	218-01-9	0.092	DTSC-SL	--	--	1.1	DTSC-SL	--	--
cis-1,2-Dichloroethene	156-59-2	--	--	8.3	DTSC-SL	--	--	35	DTSC-SL
Cyanogen	460-19-5	--	--	4.2	DTSC-SL	--	--	18	DTSC-SL
Cyanogen bromide	506-68-3	--	--	380	DTSC-SL	--	--	1600	DTSC-SL
Cyanogen chloride	506-77-4	--	--	210	DTSC-SL	--	--	880	DTSC-SL
Cyclohexylamine	108-91-8	--	--	830	DTSC-SL	--	--	3500	DTSC-SL
Dibenz[a,h]anthracene	53-70-3	0.00084	DTSC-SL	--	--	0.01	DTSC-SL	--	--
Dibenzofuran	132-64-9	--	--	4.2	DTSC-SL	--	--	18	DTSC-SL
Dibenzothiophene	132-65-0	--	--	42	DTSC-SL	--	--	180	DTSC-SL
Dieldrin	60-57-1	0.00061	USEPA RSL	0.21	DTSC-SL	0.0027	USEPA RSL	0.88	DTSC-SL
Diethylformamide	617-84-5	--	--	4.2	DTSC-SL	--	--	18	DTSC-SL
diisopropyl Methylphosphonate	1445-75-6	--	--	330	DTSC-SL	--	--	1400	DTSC-SL
Dimethyl terephthalate	120-61-6	--	--	420	DTSC-SL	--	--	1800	DTSC-SL
Endosulfan	115-29-7	--	--	25	DTSC-SL	--	--	110	DTSC-SL
Epichlorohydrin	106-89-8	0.12	DTSC-SL	1	USEPA RSL	0.53	DTSC-SL	4.4	USEPA RSL
Ethyl Ether	60-29-7	--	--	830	DTSC-SL	--	--	3500	DTSC-SL
Ethylene diamine	107-15-3	--	--	380	DTSC-SL	--	--	1600	DTSC-SL
Ethylene dibromide	106-93-4	0.0047	USEPA RSL	0.83	DTSC-SL	0.02	USEPA RSL	3.5	DTSC-SL
Fluorene	86-73-7	--	--	170	DTSC-SL	--	--	700	DTSC-SL
Formaldehyde	50-00-0	0.22	USEPA RSL	9.4	DTSC-SL	0.94	USEPA RSL	39	DTSC-SL
Furan	110-00-9	--	--	4.2	DTSC-SL	--	--	18	DTSC-SL
Guanidine	113-00-8	--	--	42	DTSC-SL	--	--	180	DTSC-SL
HCH (mixed isomers)	608-73-1	0.0026	DTSC-SL	--	--	0.011	DTSC-SL	--	--
Heptachlor	76-44-8	0.0022	USEPA RSL	2.1	DTSC-SL	0.0094	USEPA RSL	8.8	DTSC-SL
Heptachlor Epoxide	1024-57-3	0.0011	USEPA RSL	0.054	DTSC-SL	0.0047	USEPA RSL	0.23	DTSC-SL
Hexabromobenzene	87-82-1	--	--	8.3	DTSC-SL	--	--	35	DTSC-SL
Hexachlorobenzene	118-74-1	0.0055	DTSC-SL	3.3	DTSC-SL	0.024	DTSC-SL	14	DTSC-SL
Hexachlorobutadiene	87-68-3	0.13	USEPA RSL	4.2	DTSC-SL	0.56	USEPA RSL	18	DTSC-SL
Hydrogen Chloride	7647-01-0	--	--	9.4	DTSC-SL	--	--	39	DTSC-SL
Indeno[1,2,3-cd]pyrene	193-39-5	0.0092	DTSC-SL	--	--	0.11	DTSC-SL	--	--
Isobutanol	78-83-1	--	--	1300	DTSC-SL	--	--	5300	DTSC-SL
Isopropalin	33820-53-0	--	--	63	DTSC-SL	--	--	260	DTSC-SL



<b>Analyte</b>	<b>Chemical Abstracts Service Registry Number</b>	<b>Screening Level for Residential Air (µg/m³), Cancer Endpoint</b>	<b>Reference for Screening Level for Residential Air, Cancer Endpoint</b>	<b>Screening Level for Residential Air (µg/m³), Noncancer Endpoint</b>	<b>Reference for Screening Level for Residential Air, Noncancer Endpoint</b>	<b>Screening Level for Commercial/Industrial Air (µg/m³), Cancer Endpoint</b>	<b>Reference for Screening Level for Commercial/Industrial Air, Cancer Endpoint</b>	<b>Screening Level for Commercial/Industrial Air (µg/m³), Noncancer Endpoint</b>	<b>Reference for Screening Level for Commercial/Industrial Air, Noncancer Endpoint</b>
Lead acetate	301-04-2	0.035	DTSC-SL	--	--	0.15	DTSC-SL	--	--
Lewisite	541-25-3	--	--	0.021	DTSC-SL	--	--	0.088	DTSC-SL
Mercuric Chloride	7487-94-7	--	--	0.031	DTSC-SL	--	--	0.13	DTSC-SL
Mercury	7439-97-6	--	--	0.031	DTSC-SL	--	--	0.13	DTSC-SL
Merphos	150-50-5	--	--	0.13	DTSC-SL	--	--	0.53	DTSC-SL
Methoxychlor	72-43-5	--	--	21	DTSC-SL	--	--	88	DTSC-SL
Methyl acetate	79-20-9	--	--	4200	DTSC-SL	--	--	18000	DTSC-SL
Methyl styrene (alpha)	98-83-9	--	--	290	DTSC-SL	--	--	1200	DTSC-SL
Methylcyclohexane	108-87-2	--	--	6300	DTSC-SL	--	--	26000	DTSC-SL
Methylene Chloride	75-09-2	1	DTSC-SL	420	DTSC-SL	12	DTSC-SL	1800	DTSC-SL
Methylene diphenyl diisocyanate	101-68-8	--	--	0.083	DTSC-SL	--	--	0.35	DTSC-SL
Mineral oils (I)	8012-95-1	--	--	13000	DTSC-SL	--	--	53000	DTSC-SL
Mirex	2385-85-5	0.00055	USEPA RSL	0.83	DTSC-SL	0.0024	USEPA RSL	3.5	DTSC-SL
N,N-Dimethylaniline	121-69-7	0.42	DTSC-SL	8.3	DTSC-SL	1.8	DTSC-SL	35	DTSC-SL
Naled	300-76-5	--	--	8.3	DTSC-SL	--	--	35	DTSC-SL
n-Butyl alcohol	71-36-3	--	--	420	DTSC-SL	--	--	1800	DTSC-SL
n-Butylbenzene	104-51-8	--	--	210	DTSC-SL	--	--	880	DTSC-SL
Nickel	7440-02-0	0.011	USEPA RSL	0.015	DTSC-SL	0.047	USEPA RSL	0.061	DTSC-SL
Nickel refinery dust	E715532	0.011	DTSC-SL	0.015	USEPA RSL	0.047	DTSC-SL	0.061	USEPA RSL
N-Nitroso-di-n-butylamine	924-16-3	0.00091	DTSC-SL	--	--	0.004	DTSC-SL	--	--
p,a,a,a-Tetrachlorotoluene	5216-25-1	0.0007	DTSC-SL	0.25	DTSC-SL	0.0031	DTSC-SL	1.1	DTSC-SL
Pebulate	1114-71-2	--	--	210	DTSC-SL	--	--	880	DTSC-SL
Pentabromodiphenyl Ethers	32534-81-9	--	--	8.3	DTSC-SL	--	--	35	DTSC-SL
Pentachlorobenzene	608-93-5	--	--	3.3	DTSC-SL	--	--	14	DTSC-SL
Pentachloroethane	76-01-7	0.12	DTSC-SL	--	--	0.55	DTSC-SL	--	--
Pentachloronitrobenzene	82-68-8	0.043	DTSC-SL	13	DTSC-SL	0.19	DTSC-SL	53	DTSC-SL
Phenyl Isothiocyanate	103-72-0	--	--	0.83	DTSC-SL	--	--	3.5	DTSC-SL
Phenylmercaptan	108-98-5	--	--	4.2	DTSC-SL	--	--	18	DTSC-SL
Phosphorus, White	7723-14-0	--	--	0.083	DTSC-SL	--	--	0.35	DTSC-SL
Polymeric methylenediphenyl diisocyanate	9016-87-9	--	--	0.083	DTSC-SL	--	--	0.35	DTSC-SL
Profluralin	26399-36-0	--	--	25	DTSC-SL	--	--	110	DTSC-SL
Propargyl alcohol	107-19-7	--	--	8.3	DTSC-SL	--	--	35	DTSC-SL
Pyrene	129-00-0	--	--	130	DTSC-SL	--	--	530	DTSC-SL
Pyridine	110-86-1	--	--	4.2	DTSC-SL	--	--	18	DTSC-SL



Analyte	Chemical Abstracts Service Registry Number	Screening Level for Residential Air (µg/m³), Cancer Endpoint	Reference for Screening Level for Residential Air, Cancer Endpoint	Screening Level for Residential Air (µg/m³), Noncancer Endpoint	Reference for Screening Level for Residential Air, Noncancer Endpoint	Screening Level for Commercial/Industrial Air (µg/m³), Cancer Endpoint	Reference for Screening Level for Commercial/Industrial Air, Cancer Endpoint	Screening Level for Commercial/Industrial Air (µg/m³), Noncancer Endpoint	Reference for Screening Level for Commercial/Industrial Air, Noncancer Endpoint
Ronnel	299-84-3	--	--	210	DTSC-SL	--	--	880	DTSC-SL
sec-Butylbenzene	135-98-8	--	--	420	DTSC-SL	--	--	1800	DTSC-SL
S-Ethyl dipropylthiocarbamate	759-94-4	--	--	210	DTSC-SL	--	--	880	DTSC-SL
Styrene	100-42-5	--	--	940	DTSC-SL	--	--	3900	DTSC-SL
Terbufos	13071-79-9	--	--	0.1	DTSC-SL	--	--	0.44	DTSC-SL
tert-Butylbenzene	98-06-6	--	--	420	DTSC-SL	--	--	1800	DTSC-SL
Tetrachloroethene	127-18-4	0.46	DTSC-SL	42	USEPA RSL	2	DTSC-SL	180	USEPA RSL
Tetraethyl Lead	78-00-2	--	--	0.00042	DTSC-SL	--	--	0.0018	DTSC-SL
Thiocyanic acid	463-56-9	--	--	0.83	DTSC-SL	--	--	3.5	DTSC-SL
Toluene	108-88-3	--	--	310	DTSC-SL	--	--	1300	DTSC-SL
trans-1,2-Dichloroethene	156-60-5	--	--	83	DTSC-SL	--	--	350	DTSC-SL
trans-Crotonaldehyde	123-73-9	0.0059	DTSC-SL	4.2	DTSC-SL	0.026	DTSC-SL	18	DTSC-SL
Triallate	2303-17-5	0.16	DTSC-SL	100	DTSC-SL	0.68	DTSC-SL	440	DTSC-SL
Tributyltin	688-73-3	--	--	1.3	DTSC-SL	--	--	5.3	DTSC-SL
Trichlorofluoromethane	75-69-4	--	--	1300	DTSC-SL	--	--	5300	DTSC-SL
Trifluralin	1582-09-8	1.5	DTSC-SL	31	DTSC-SL	6.4	DTSC-SL	130	DTSC-SL
Vernolate	1929-77-7	--	--	4.2	DTSC-SL	--	--	18	DTSC-SL
Vinyl chloride	75-01-4	0.0095	DTSC-SL	100	USEPA RSL	0.16	DTSC-SL	440	USEPA RSL

Symbols, Abbreviations, and Acronyms:

- = no value.
- µg/m³ = microgram per cubic meter
- DTSC = California Department of Toxic Substances Control
- RSL = Regional Screening Level
- SL = screening level
- USEPA = U.S. Environmental Protection Agency



Table 4: HHRA Note 3, June 2020, Screening Levels for Tap Water that Exceed State or Federal Maximum Contaminant Levels

Analyte	Chemical Abstracts Service Registry Number	Screening Level for Tap Water (µg/L), Cancer Endpoint	Reference for Screening Level for Tap Water, Cancer Endpoint	Screening Level for Tap Water (µg/L), Noncancer Endpoint	Reference for Screening Level for Tap Water, Noncancer Endpoint	California Maximum Contaminant Level (MCL) (µg/L)	USEPA Maximum Contaminant Level (MCL) (µg/L)
1,1,1-Trichloroethane	71-55-6	--	--	2000	DTSC-SL	200	200
1,1,2,2-Tetrachloroethane	79-34-5	0.076	USEPA RSL	110	DTSC-SL	1	--
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	--	--	10000	USEPA RSL	1200	--
1,1-Dichloroethane	75-34-3	2.8	USEPA RSL	1200	DTSC-SL	5	--
1,1-Dichloroethene	75-35-4	--	--	130	DTSC-SL	6	7
1,2,3-Trichloropropane	96-18-4	0.0002	DTSC-SL	0.62	USEPA RSL	0.005	--
1,2-Dibromo-3-chloropropane	96-12-8	0.0003	DTSC-SL	0.37	USEPA RSL	0.2	0.2
1,2-Dichloroethane	107-06-2	0.17	USEPA RSL	13	USEPA RSL	0.5	5
1,2-Dichloropropane	78-87-5	0.85	USEPA RSL	8.2	USEPA RSL	5	5
1,3-Dichloropropene	542-75-6	0.47	USEPA RSL	39	USEPA RSL	0.5	--
1,4-Dichlorobenzene	106-46-7	0.48	USEPA RSL	570	USEPA RSL	5	75
2,4-Dichlorophenoxyacetic acid	94-75-7	--	--	170	USEPA RSL	70	70
Alachlor	15972-60-8	1.1	USEPA RSL	160	USEPA RSL	2	2
Aluminum	7429-90-5	--	--	20000	USEPA RSL	1000	--
Antimony	7440-36-0	--	--	7.8	USEPA RSL	6	6
Atrazine	1912-24-9	0.3	USEPA RSL	630	USEPA RSL	1	3
Barium	7440-39-3	--	--	3800	USEPA RSL	1000	2000
Bentazon	25057-89-0	--	--	570	USEPA RSL	18	--
Benzene	71-43-2	0.15	DTSC-SL	5.7	DTSC-SL	1	5
Benzo[a]pyrene	50-32-8	0.025	USEPA RSL	6	USEPA RSL	0.2	0.2
bis(2-Ethylhexyl) phthalate	117-81-7	5.6	USEPA RSL	400	USEPA RSL	4	6
Bromate	15541-45-4	0.11	USEPA RSL	80	USEPA RSL	10	10
Cadmium (water)	7440-43-9 (water)	--	--	9.2	USEPA RSL	5	5
Carbofuran	1563-66-2	--	--	94	USEPA RSL	18	40
Carbon tetrachloride	56-23-5	0.46	USEPA RSL	36	DTSC-SL	0.5	5



Analyte	Chemical Abstracts Service Registry Number	Screening Level for Tap Water (µg/L), Cancer Endpoint	Reference for Screening Level for Tap Water, Cancer Endpoint	Screening Level for Tap Water (µg/L), Noncancer Endpoint	Reference for Screening Level for Tap Water, Noncancer Endpoint	California Maximum Contaminant Level (MCL) (µg/L)	USEPA Maximum Contaminant Level (MCL) (µg/L)
Chlordane (technical)	12789-03-6	0.021	USEPA RSL	0.77	USEPA RSL	0.1	2
Chlorobenzene	108-90-7	--	--	78	USEPA RSL	70	100
cis-1,2-Dichloroethene	156-59-2	--	--	12	DTSC-SL	6	70
Dalapon	75-99-0	--	--	600	USEPA RSL	200	200
Di(2-ethylhexyl)adipate	103-23-1	65	USEPA RSL	12000	USEPA RSL	400	400
Dichloroacetic acid	79-43-6	1.5	USEPA RSL	79	USEPA RSL	60	60
Dinoseb	88-85-7	--	--	15	USEPA RSL	7	7
Diquat	85-00-7	--	--	44	USEPA RSL	20	20
Endothall	145-73-3	--	--	380	USEPA RSL	100	100
Endrin	72-20-8	--	--	2.3	USEPA RSL	2	2
Ethylbenzene	100-41-4	1.5	USEPA RSL	810	USEPA RSL	300	700
Ethylene dibromide	106-93-4	0.0075	USEPA RSL	1.7	DTSC-SL	0.05	0.05
gamma-HCH	58-89-9	0.052	USEPA RSL	4.5	USEPA RSL	0.2	0.2
Glyphosate	1071-83-6	--	--	2000	USEPA RSL	700	700
Heptachlor	76-44-8	0.0014	USEPA RSL	0.98	DTSC-SL	0.01	0.4
Heptachlor Epoxide	1024-57-3	0.0014	USEPA RSL	0.058	DTSC-SL	0.01	0.2
Hexachlorobenzene	118-74-1	0.0088	DTSC-SL	4.7	DTSC-SL	1	1
Mercuric Chloride	7487-94-7	--	--	3	DTSC-SL	2	2
methyl tert-butyl Ether	1634-04-4	14	USEPA RSL	6300	USEPA RSL	13	--
Methylene Chloride	75-09-2	1.7	DTSC-SL	100	DTSC-SL	5	5
Molinate	2212-67-1	--	--	30	USEPA RSL	20	--
Nickel	7440-02-0	--	--	220	DTSC-SL	100	--
Nitrate	14797-55-8	--	--	32000	USEPA RSL	45000	10000
Nitrite	14797-65-0	--	--	2000	USEPA RSL	1000	1000
Oxamyl	23135-22-0	--	--	500	USEPA RSL	50	200
Pentachlorophenol	87-86-5	0.041	USEPA RSL	23	USEPA RSL	1	1
Perchlorate Ion	14797-73-0	--	--	14	USEPA RSL	6	15
Picloram	1918-02-1	--	--	1400	USEPA RSL	500	500



Analyte	Chemical Abstracts Service Registry Number	Screening Level for Tap Water (µg/L), Cancer Endpoint	Reference for Screening Level for Tap Water, Cancer Endpoint	Screening Level for Tap Water (µg/L), Noncancer Endpoint	Reference for Screening Level for Tap Water, Noncancer Endpoint	California Maximum Contaminant Level (MCL) (µg/L)	USEPA Maximum Contaminant Level (MCL) (µg/L)
Selenium	7782-49-2	--	--	100	USEPA RSL	50	50
Silvex	93-72-1	--	--	110	USEPA RSL	50	50
Simazine	122-34-9	0.61	USEPA RSL	94	USEPA RSL	4	4
Styrene	100-42-5	--	--	1100	DTSC-SL	100	100
Tetrachloroethene	127-18-4	0.084	DTSC-SL	41	USEPA RSL	5	5
Thiobencarb	28249-77-6	--	--	160	USEPA RSL	70	--
Toluene	108-88-3	--	--	410	DTSC-SL	150	1000
trans-1,2-Dichloroethene	156-60-5	--	--	110	DTSC-SL	10	100
Trichloroacetic acid	76-03-9	1.1	USEPA RSL	390	USEPA RSL	60	60
Trichlorofluoromethane	75-69-4	--	--	1700	DTSC-SL	150	--
Vinyl chloride	75-01-4	0.0098	DTSC-SL	45	USEPA RSL	0.5	2

Symbols, Abbreviations, and Acronyms:

- = no value.
- µg/L = micrograms per liter
- CAS# = Chemical Abstracts Service Registry Number
- DTSC = California Department of Toxic Substances Control
- MCL = Maximum Contaminant Level
- RSL = Regional Screening Level
- SL = screening level
- USEPA = U.S. Environmental Protection Agency





Wade Allmon  
Wade Allmon  
1309 Morrison Ave.  
Santa Barbara, CA 93103

25 June 2010

RE: Watsonville

Work Order: 1002122

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on 19-Jun-10 14:10 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in blue ink, appearing to read "Lisa Race", is written over a light blue horizontal line.

Lisa Race

Laboratory Manager





Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Z3c	1002122-01	Solid	16-Jun-10 14:20	19-Jun-10 14:10
Z13e	1002122-02	Solid	16-Jun-10 17:15	19-Jun-10 14:10
Z14b	1002122-03	Solid	16-Jun-10 18:20	19-Jun-10 14:10
Z15c	1002122-04	Solid	16-Jun-10 18:55	19-Jun-10 14:10
Z17c	1002122-05	Solid	16-Jun-10 19:22	19-Jun-10 14:10
Z22c	1002122-06	Solid	17-Jun-10 11:55	19-Jun-10 14:10
Z23c	1002122-07	Solid	17-Jun-10 12:25	19-Jun-10 14:10
Z25a	1002122-08	Solid	17-Jun-10 13:20	19-Jun-10 14:10
Z28a	1002122-09	Solid	17-Jun-10 14:50	19-Jun-10 14:10
Y12e	1002122-10	Solid	17-Jun-10 15:30	19-Jun-10 14:10
Z30b	1002122-11	Solid	17-Jun-10 17:20	19-Jun-10 14:10
W1-3	1002122-12	Solid	18-Jun-10 08:20	19-Jun-10 14:10
W1-5	1002122-13	Solid	18-Jun-10 08:40	19-Jun-10 14:10
W1-10	1002122-14	Solid	18-Jun-10 08:45	19-Jun-10 14:10
W1-15	1002122-15	Solid	18-Jun-10 09:00	19-Jun-10 14:10
W1-20	1002122-16	Solid	18-Jun-10 09:10	19-Jun-10 14:10
W1-25	1002122-17	Solid	18-Jun-10 09:13	19-Jun-10 14:10
W2-2.5	1002122-18	Solid	18-Jun-10 09:45	19-Jun-10 14:10
W2-5	1002122-19	Solid	18-Jun-10 09:52	19-Jun-10 14:10
W2-10	1002122-20	Solid	18-Jun-10 10:03	19-Jun-10 14:10
W2-15	1002122-21	Solid	18-Jun-10 10:10	19-Jun-10 14:10
W2-20	1002122-22	Solid	18-Jun-10 10:12	19-Jun-10 14:10
W2-25	1002122-23	Solid	18-Jun-10 10:30	19-Jun-10 14:10
W3-2.5	1002122-24	Solid	18-Jun-10 11:00	19-Jun-10 14:10
W3-5	1002122-25	Solid	18-Jun-10 11:05	19-Jun-10 14:10
W3-10	1002122-26	Solid	18-Jun-10 11:11	19-Jun-10 14:10

Oilfield Environmental and Compliance

*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.*

307 Roemer Way, Suite 300, Santa Maria, CA 93454

[www.oecusa.com](http://www.oecusa.com)

TEL: (805) 922-4772  
FAX: (805) 925-3376





Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W3-15	1002122-27	Solid	18-Jun-10 11:20	19-Jun-10 14:10
W3-20	1002122-28	Solid	18-Jun-10 11:25	19-Jun-10 14:10
W1-W	1002122-29	Water	18-Jun-10 09:00	19-Jun-10 14:10
W2-W	1002122-30	Water	18-Jun-10 10:22	19-Jun-10 14:10
W3-W	1002122-31	Water	18-Jun-10 11:30	19-Jun-10 14:10
Z33b	1002122-32	Solid	18-Jun-10 12:22	19-Jun-10 14:10
Z34f	1002122-33	Solid	18-Jun-10 13:05	19-Jun-10 14:10
Z35c	1002122-34	Solid	18-Jun-10 13:44	19-Jun-10 14:10
Z37b	1002122-35	Solid	18-Jun-10 14:30	19-Jun-10 14:10
Z38c	1002122-36	Solid	18-Jun-10 15:03	19-Jun-10 14:10
Z40a	1002122-37	Solid	18-Jun-10 16:16	19-Jun-10 14:10
Z26c	1002122-38	Solid	17-Jun-10 13:58	19-Jun-10 14:10





Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**Z3c**  
**1002122-01 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>8.97</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	5.0	mg/kg	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
Arsenic	11	0.99	"	"	"	"	"	"	
Barium	180	2.0	"	20	"	"	23-Jun-10	"	
Beryllium	ND	2.5	"	5	"	"	22-Jun-10	"	
Cadmium	1.0	0.99	"	"	"	"	"	"	
Chromium	58	0.99	"	"	"	"	"	"	N-02
Cobalt	9.8	0.99	"	"	"	"	"	"	
Copper	51	0.99	"	"	"	"	"	"	
Lead	200	4.0	"	20	"	"	23-Sep-10	"	N-02, N-03
Mercury	0.10	0.098	"	1	A006372	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.99	"	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
Nickel	76	0.99	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	0.99	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Titanium	280	40	"	20	"	"	23-Jun-10	"	
Vanadium	28	5.0	"	5	"	"	22-Jun-10	"	
Zinc	200	9.9	"	20	"	"	23-Jun-10	"	

Oilfield Environmental and Compliance

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Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**Z13e**  
**1002122-02 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>8.10</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.7	mg/kg	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>16</b>	0.94	"	"	"	"	"	"	
<b>Barium</b>	<b>240</b>	1.9	"	20	"	"	23-Jun-10	"	
Beryllium	ND	2.4	"	5	"	"	22-Jun-10	"	
Cadmium	ND	0.94	"	"	"	"	"	"	
<b>Chromium</b>	<b>51</b>	0.94	"	"	"	"	"	"	N-02
<b>Cobalt</b>	<b>10</b>	0.94	"	"	"	"	"	"	
<b>Copper</b>	<b>31</b>	0.94	"	"	"	"	"	"	
<b>Lead</b>	<b>350</b>	3.8	"	20	"	"	23-Jun-10	"	N-02, N-03
<b>Mercury</b>	<b>0.53</b>	0.093	"	1	A006372	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.94	"	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>69</b>	0.94	"	"	"	"	"	"	
Selenium	ND	4.7	"	"	"	"	"	"	
Silver	ND	0.94	"	"	"	"	"	"	
Thallium	ND	4.7	"	"	"	"	"	"	
<b>Titanium</b>	<b>250</b>	38	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>29</b>	4.7	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>480</b>	9.4	"	20	"	"	23-Jun-10	"	





Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**Z14b**  
**1002122-03 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>7.29</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.8	mg/kg	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>4.5</b>	0.96	"	"	"	"	"	"	
<b>Barium</b>	<b>380</b>	1.9	"	20	"	"	23-Jun-10	"	
Beryllium	ND	2.4	"	5	"	"	22-Jun-10	"	
Cadmium	ND	0.96	"	"	"	"	"	"	
<b>Chromium</b>	<b>31</b>	0.96	"	"	"	"	"	"	
<b>Cobalt</b>	<b>8.8</b>	0.96	"	"	"	"	"	"	
<b>Copper</b>	<b>42</b>	0.96	"	"	"	"	"	"	
<b>Lead</b>	<b>670</b>	9.6	"	50	"	"	23-Jun-10	"	N-02, N-03
<b>Mercury</b>	<b>0.11</b>	0.098	"	1	A006372	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.96	"	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>35</b>	0.96	"	"	"	"	"	"	
Selenium	ND	4.8	"	"	"	"	"	"	
Silver	ND	0.96	"	"	"	"	"	"	
Thallium	ND	4.8	"	"	"	"	"	"	
<b>Titanium</b>	<b>260</b>	38	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>34</b>	4.8	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>500</b>	9.6	"	20	"	"	23-Jun-10	"	





Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**Z15c**  
**1002122-04 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>7.08</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.9	mg/kg	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>3.9</b>	0.99	"	"	"	"	"	"	
<b>Barium</b>	<b>130</b>	0.49	"	"	"	"	"	"	
Beryllium	ND	2.5	"	"	"	"	"	"	
Cadmium	ND	0.99	"	"	"	"	"	"	
<b>Chromium</b>	<b>31</b>	0.99	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.4</b>	0.99	"	"	"	"	"	"	
<b>Copper</b>	<b>42</b>	0.99	"	"	"	"	"	"	
<b>Lead</b>	<b>390</b>	3.9	"	20	"	"	23-Jun-10	"	N-02, N-03
Mercury	ND	0.098	"	1	A006372	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.99	"	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>49</b>	0.99	"	"	"	"	"	"	
Selenium	ND	4.9	"	"	"	"	"	"	
Silver	ND	0.99	"	"	"	"	"	"	
Thallium	ND	4.9	"	"	"	"	"	"	
<b>Titanium</b>	<b>260</b>	39	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>41</b>	4.9	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>240</b>	9.9	"	20	"	"	23-Jun-10	"	





Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**Z17c**  
**1002122-05 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>7.56</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.9	mg/kg	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>10</b>	0.98	"	"	"	"	"	"	
<b>Barium</b>	<b>120</b>	0.49	"	"	"	"	"	"	
Beryllium	ND	2.5	"	"	"	"	"	"	
Cadmium	ND	0.98	"	"	"	"	"	"	
<b>Chromium</b>	<b>35</b>	0.98	"	"	"	"	"	"	
<b>Cobalt</b>	<b>9.0</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>47</b>	0.98	"	"	"	"	"	"	
<b>Lead</b>	<b>370</b>	3.9	"	20	"	"	23-Jun-10	"	N-02, N-03
Mercury	ND	0.097	"	1	A006372	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.98	"	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>31</b>	0.98	"	"	"	"	"	"	
Selenium	ND	4.9	"	"	"	"	"	"	
Silver	ND	0.98	"	"	"	"	"	"	
Thallium	ND	4.9	"	"	"	"	"	"	
<b>Titanium</b>	<b>340</b>	39	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>45</b>	4.9	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>710</b>	25	"	50	"	"	23-Jun-10	"	

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Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**Z22c**  
**1002122-06 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>6.59</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.9	mg/kg	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>10</b>	0.98	"	"	"	"	"	"	
<b>Barium</b>	<b>380</b>	2.0	"	20	"	"	23-Jun-10	"	
Beryllium	ND	2.4	"	5	"	"	22-Jun-10	"	
Cadmium	ND	0.98	"	"	"	"	"	"	
<b>Chromium</b>	<b>50</b>	0.98	"	"	"	"	"	"	N-02
<b>Cobalt</b>	<b>8.4</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>56</b>	0.98	"	"	"	"	"	"	
<b>Lead</b>	<b>1700</b>	20	"	100	"	"	23-Jun-10	"	N-01, N-03
<b>Mercury</b>	<b>0.13</b>	0.093	"	1	A006372	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.98	"	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>25</b>	0.98	"	"	"	"	"	"	
Selenium	ND	4.9	"	"	"	"	"	"	
Silver	ND	0.98	"	"	"	"	"	"	
Thallium	ND	4.9	"	"	"	"	"	"	
<b>Titanium</b>	<b>300</b>	39	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>41</b>	4.9	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>250</b>	9.8	"	20	"	"	23-Jun-10	"	





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Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**Z23c**  
**1002122-07 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>7.73</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	5.0	mg/kg	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>12</b>	1.0	"	"	"	"	"	"	
<b>Barium</b>	<b>120</b>	0.50	"	"	"	"	"	"	
Beryllium	ND	2.5	"	"	"	"	"	"	
<b>Cadmium</b>	<b>1.2</b>	1.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>40</b>	1.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>8.1</b>	1.0	"	"	"	"	"	"	
<b>Copper</b>	<b>57</b>	1.0	"	"	"	"	"	"	
<b>Lead</b>	<b>280</b>	4.0	"	20	"	"	23-Jun-10	"	N-02, N-03
<b>Mercury</b>	<b>4.3</b>	0.49	"	5	A006372	22-Jun-10	23-Jun-10	EPA 7471A	N-02, N-03
Molybdenum	ND	1.0	"	"	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>35</b>	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	1.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
<b>Titanium</b>	<b>320</b>	40	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>38</b>	5.0	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>240</b>	10	"	20	"	"	23-Jun-10	"	

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Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**Z25a**  
**1002122-08 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>7.21</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.8	mg/kg	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
Arsenic	7.2	0.96	"	"	"	"	"	"	
Barium	460	1.9	"	20	"	"	23-Jun-10	"	
Beryllium	ND	2.4	"	5	"	"	22-Jun-10	"	
Cadmium	4.2	0.96	"	"	"	"	"	"	
Chromium	81	0.96	"	"	"	"	"	"	N-02
Cobalt	8.0	0.96	"	"	"	"	"	"	
Copper	120	0.96	"	"	"	"	"	"	
Lead	1400	19	"	100	"	"	23-Jun-10	"	N-01, N-03
Mercury	0.14	0.093	"	1	A006372	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	1.7	0.96	"	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
Nickel	35	0.96	"	"	"	"	"	"	
Selenium	ND	4.8	"	"	"	"	"	"	
Silver	ND	0.96	"	"	"	"	"	"	
Thallium	ND	4.8	"	"	"	"	"	"	
Titanium	300	38	"	20	"	"	23-Jun-10	"	
Vanadium	42	4.8	"	5	"	"	22-Jun-10	"	
Zinc	1400	48	"	100	"	"	23-Jun-10	"	

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Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**Z28a**  
**1002122-09 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>7.22</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.8	mg/kg	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
Arsenic	<b>3.9</b>	0.96	"	"	"	"	"	"	
Barium	<b>160</b>	1.9	"	20	"	"	23-Jun-10	"	
Beryllium	ND	2.4	"	5	"	"	22-Jun-10	"	
Cadmium	<b>1.5</b>	0.96	"	"	"	"	"	"	
Chromium	<b>28</b>	0.96	"	"	"	"	"	"	
Cobalt	<b>9.2</b>	0.96	"	"	"	"	"	"	
Copper	<b>98</b>	0.96	"	"	"	"	"	"	
Lead	<b>150</b>	3.8	"	20	"	"	23-Jun-10	"	N-02, N-03
Mercury	<b>0.14</b>	0.097	"	1	A006372	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	<b>1.5</b>	0.96	"	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
Nickel	<b>20</b>	0.96	"	"	"	"	"	"	
Selenium	ND	4.8	"	"	"	"	"	"	
Silver	ND	0.96	"	"	"	"	"	"	
Thallium	ND	4.8	"	"	"	"	"	"	
Titanium	<b>340</b>	38	"	20	"	"	23-Jun-10	"	
Vanadium	<b>54</b>	4.8	"	5	"	"	22-Jun-10	"	
Zinc	<b>450</b>	9.6	"	20	"	"	23-Jun-10	"	

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1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**Y12e**  
**1002122-10 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>8.82</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.8	mg/kg	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
Arsenic	5.9	0.97	"	"	"	"	"	"	
Barium	340	1.9	"	20	"	"	23-Jun-10	"	
Beryllium	ND	2.4	"	5	"	"	22-Jun-10	"	
Cadmium	2.1	0.97	"	"	"	"	"	"	
Chromium	26	0.97	"	"	"	"	"	"	
Cobalt	9.7	0.97	"	"	"	"	"	"	
Copper	45	0.97	"	"	"	"	"	"	
Lead	650	9.7	"	50	"	"	23-Jun-10	"	N-02, N-03
Mercury	0.28	0.094	"	1	A006372	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.97	"	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
Nickel	28	0.97	"	"	"	"	"	"	
Selenium	ND	4.8	"	"	"	"	"	"	
Silver	ND	0.97	"	"	"	"	"	"	
Thallium	ND	4.8	"	"	"	"	"	"	
Titanium	360	39	"	20	"	"	23-Jun-10	"	
Vanadium	45	4.8	"	5	"	"	22-Jun-10	"	
Zinc	680	24	"	50	"	"	23-Jun-10	"	





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Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**Z30b**  
**1002122-11 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>7.68</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.8	mg/kg	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>9.5</b>	0.96	"	"	"	"	"	"	
<b>Barium</b>	<b>270</b>	1.9	"	20	"	"	23-Jun-10	"	
Beryllium	ND	2.4	"	5	"	"	22-Jun-10	"	
<b>Cadmium</b>	<b>1.3</b>	0.96	"	"	"	"	"	"	
<b>Chromium</b>	<b>74</b>	0.96	"	"	"	"	"	"	N-02
<b>Cobalt</b>	<b>14</b>	0.96	"	"	"	"	"	"	
<b>Copper</b>	<b>47</b>	0.96	"	"	"	"	"	"	
<b>Lead</b>	<b>170</b>	3.9	"	20	"	"	23-Jun-10	"	N-02, N-03
<b>Mercury</b>	<b>0.22</b>	0.096	"	1	A006372	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.96	"	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>91</b>	0.96	"	"	"	"	"	"	
Selenium	ND	4.8	"	"	"	"	"	"	
Silver	ND	0.96	"	"	"	"	"	"	
Thallium	ND	4.8	"	"	"	"	"	"	
<b>Titanium</b>	<b>310</b>	39	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>43</b>	4.8	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>370</b>	9.6	"	20	"	"	23-Jun-10	"	

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1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W1-3**  
**1002122-12 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>8.00</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.8	mg/kg	5	A006374	22-Jun-10	22-Jun-10	EPA 6020
<b>Arsenic</b>	<b>3.2</b>	0.96	"	"	"	"	"	"
<b>Barium</b>	<b>120</b>	0.48	"	"	"	"	"	"
Beryllium	ND	2.4	"	"	"	"	"	"
Cadmium	ND	0.96	"	"	"	"	"	"
<b>Chromium</b>	<b>38</b>	0.96	"	"	"	"	"	"
<b>Cobalt</b>	<b>9.0</b>	0.96	"	"	"	"	"	"
<b>Copper</b>	<b>16</b>	0.96	"	"	"	"	"	"
<b>Lead</b>	<b>5.9</b>	0.96	"	"	"	"	"	"
Mercury	ND	0.099	"	1	A006373	22-Jun-10	23-Jun-10	EPA 7471A
Molybdenum	ND	0.96	"	5	A006374	22-Jun-10	22-Jun-10	EPA 6020
<b>Nickel</b>	<b>36</b>	0.96	"	"	"	"	"	"
Selenium	ND	4.8	"	"	"	"	"	"
Silver	ND	0.96	"	"	"	"	"	"
Thallium	ND	4.8	"	"	"	"	"	"
<b>Titanium</b>	<b>380</b>	38	"	20	"	"	23-Jun-10	"
<b>Vanadium</b>	<b>38</b>	4.8	"	5	"	"	22-Jun-10	"
<b>Zinc</b>	<b>40</b>	2.4	"	"	"	"	"	"

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Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W1-5**  
**1002122-13 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>7.56</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.7	mg/kg	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>4.1</b>	0.95	"	"	"	"	"	"	
<b>Barium</b>	<b>150</b>	1.9	"	20	"	"	23-Jun-10	"	
Beryllium	ND	2.4	"	5	"	"	22-Jun-10	"	
Cadmium	ND	0.95	"	"	"	"	"	"	
<b>Chromium</b>	<b>36</b>	0.95	"	"	"	"	"	"	
<b>Cobalt</b>	<b>17</b>	0.95	"	"	"	"	"	"	
<b>Copper</b>	<b>11</b>	0.95	"	"	"	"	"	"	
<b>Lead</b>	<b>6.4</b>	0.95	"	"	"	"	"	"	
Mercury	ND	0.096	"	1	A006373	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.95	"	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>32</b>	0.95	"	"	"	"	"	"	
Selenium	ND	4.7	"	"	"	"	"	"	
Silver	ND	0.95	"	"	"	"	"	"	
Thallium	ND	4.7	"	"	"	"	"	"	
<b>Titanium</b>	<b>380</b>	38	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>43</b>	4.7	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>32</b>	2.4	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W1-10**  
**1002122-14 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>8.15</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	5.0	mg/kg	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>2.2</b>	1.0	"	"	"	"	"	"	
<b>Barium</b>	<b>120</b>	0.50	"	"	"	"	"	"	
Beryllium	ND	2.5	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>95</b>	1.0	"	"	"	"	"	"	N-02
<b>Cobalt</b>	<b>9.2</b>	1.0	"	"	"	"	"	"	
<b>Copper</b>	<b>16</b>	1.0	"	"	"	"	"	"	
<b>Lead</b>	<b>3.7</b>	1.0	"	"	"	"	"	"	
Mercury	ND	0.096	"	1	A006373	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	1.0	"	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>72</b>	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	1.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
<b>Titanium</b>	<b>700</b>	100	"	50	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>40</b>	5.0	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>30</b>	2.5	"	"	"	"	"	"	

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1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W1-15**  
**1002122-15 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>8.10</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	5.0	mg/kg	5	A006374	22-Jun-10	22-Jun-10	EPA 6020
Arsenic	ND	1.0	"	"	"	"	"	"
<b>Barium</b>	<b>170</b>	2.0	"	20	"	"	23-Jun-10	"
Beryllium	ND	2.5	"	5	"	"	22-Jun-10	"
Cadmium	ND	1.0	"	"	"	"	"	"
<b>Chromium</b>	<b>46</b>	1.0	"	"	"	"	"	"
<b>Cobalt</b>	<b>20</b>	1.0	"	"	"	"	"	"
<b>Copper</b>	<b>23</b>	1.0	"	"	"	"	"	"
<b>Lead</b>	<b>7.3</b>	1.0	"	"	"	"	"	"
<b>Mercury</b>	<b>0.17</b>	0.093	"	1	A006373	22-Jun-10	23-Jun-10	EPA 7471A
Molybdenum	ND	1.0	"	5	A006374	22-Jun-10	22-Jun-10	EPA 6020
<b>Nickel</b>	<b>120</b>	1.0	"	"	"	"	"	"
Selenium	ND	5.0	"	"	"	"	"	"
Silver	ND	1.0	"	"	"	"	"	"
Thallium	ND	5.0	"	"	"	"	"	"
<b>Titanium</b>	<b>220</b>	40	"	20	"	"	23-Jun-10	"
<b>Vanadium</b>	<b>24</b>	5.0	"	5	"	"	22-Jun-10	"
<b>Zinc</b>	<b>47</b>	2.5	"	"	"	"	"	"

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Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W1-20**  
**1002122-16 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>6.86</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.9	mg/kg	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>2.5</b>	0.98	"	"	"	"	"	"	
<b>Barium</b>	<b>77</b>	0.49	"	"	"	"	"	"	
Beryllium	ND	2.4	"	"	"	"	"	"	
Cadmium	ND	0.98	"	"	"	"	"	"	
<b>Chromium</b>	<b>60</b>	0.98	"	"	"	"	"	"	N-02
<b>Cobalt</b>	<b>7.7</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>11</b>	0.98	"	"	"	"	"	"	
<b>Lead</b>	<b>2.9</b>	0.98	"	"	"	"	"	"	
Mercury	ND	0.10	"	1	A006373	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.98	"	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>67</b>	0.98	"	"	"	"	"	"	
Selenium	ND	4.9	"	"	"	"	"	"	
Silver	ND	0.98	"	"	"	"	"	"	
Thallium	ND	4.9	"	"	"	"	"	"	
<b>Titanium</b>	<b>470</b>	39	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>26</b>	4.9	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>26</b>	2.4	"	"	"	"	"	"	

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Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W1-25**  
**1002122-17 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>8.04</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.8	mg/kg	5	A006374	22-Jun-10	22-Jun-10	EPA 6020
<b>Arsenic</b>	<b>1.4</b>	0.96	"	"	"	"	"	"
<b>Barium</b>	<b>50</b>	0.48	"	"	"	"	"	"
Beryllium	ND	2.4	"	"	"	"	"	"
Cadmium	ND	0.96	"	"	"	"	"	"
<b>Chromium</b>	<b>44</b>	0.96	"	"	"	"	"	"
<b>Cobalt</b>	<b>6.4</b>	0.96	"	"	"	"	"	"
<b>Copper</b>	<b>5.9</b>	0.96	"	"	"	"	"	"
<b>Lead</b>	<b>2.1</b>	0.96	"	"	"	"	"	"
Mercury	ND	0.099	"	1	A006373	22-Jun-10	23-Jun-10	EPA 7471A
Molybdenum	ND	0.96	"	5	A006374	22-Jun-10	22-Jun-10	EPA 6020
<b>Nickel</b>	<b>53</b>	0.96	"	"	"	"	"	"
Selenium	ND	4.8	"	"	"	"	"	"
Silver	ND	0.96	"	"	"	"	"	"
Thallium	ND	4.8	"	"	"	"	"	"
<b>Titanium</b>	<b>260</b>	39	"	20	"	"	23-Jun-10	"
<b>Vanadium</b>	<b>15</b>	4.8	"	5	"	"	22-Jun-10	"
<b>Zinc</b>	<b>16</b>	2.4	"	"	"	"	"	"

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Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W2-2.5**  
**1002122-18 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>3.58</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.9	mg/kg	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>190</b>	3.9	"	20	"	"	23-Jun-10	"	N-02, N-03
<b>Barium</b>	<b>150</b>	2.0	"	"	"	"	"	"	
Beryllium	ND	2.5	"	5	"	"	22-Jun-10	"	
Cadmium	ND	0.98	"	"	"	"	"	"	
<b>Chromium</b>	<b>71</b>	0.98	"	"	"	"	"	"	
<b>Cobalt</b>	<b>2.4</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>47</b>	0.98	"	"	"	"	"	"	
<b>Lead</b>	<b>37</b>	0.98	"	"	"	"	"	"	
<b>Mercury</b>	<b>0.22</b>	0.10	"	1	A006373	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.98	"	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>16</b>	0.98	"	"	"	"	"	"	
Selenium	ND	4.9	"	"	"	"	"	"	
Silver	ND	0.98	"	"	"	"	"	"	
Thallium	ND	4.9	"	"	"	"	"	"	
<b>Titanium</b>	<b>280</b>	39	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>51</b>	4.9	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>48</b>	2.5	"	"	"	"	"	"	

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Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W2-5**  
**1002122-19 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>3.77</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.8	mg/kg	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>120</b>	0.96	"	"	"	"	"	"	N-02, N-03
<b>Barium</b>	<b>130</b>	0.48	"	"	"	"	"	"	
Beryllium	ND	2.4	"	"	"	"	"	"	
Cadmium	ND	0.96	"	"	"	"	"	"	
<b>Chromium</b>	<b>69</b>	0.96	"	"	"	"	"	"	N-02
<b>Cobalt</b>	<b>4.8</b>	0.96	"	"	"	"	"	"	
<b>Copper</b>	<b>53</b>	0.96	"	"	"	"	"	"	
<b>Lead</b>	<b>6.8</b>	0.96	"	"	"	"	"	"	
<b>Mercury</b>	<b>0.10</b>	0.097	"	1	A006373	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.96	"	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>33</b>	0.96	"	"	"	"	"	"	
Selenium	ND	4.8	"	"	"	"	"	"	
Silver	ND	0.96	"	"	"	"	"	"	
Thallium	ND	4.8	"	"	"	"	"	"	
<b>Titanium</b>	<b>310</b>	96	"	50	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>52</b>	4.8	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>95</b>	2.4	"	"	"	"	"	"	

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Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W2-10**  
**1002122-20 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>4.35</b>	0.100	pH Units	1	A006396	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.8	mg/kg	5	A006374	22-Jun-10	22-Jun-10	EPA 6020
<b>Arsenic</b>	<b>8.5</b>	0.97	"	"	"	"	"	"
<b>Barium</b>	<b>110</b>	0.48	"	"	"	"	"	"
Beryllium	ND	2.4	"	"	"	"	"	"
Cadmium	ND	0.97	"	"	"	"	"	"
<b>Chromium</b>	<b>37</b>	0.97	"	"	"	"	"	"
<b>Cobalt</b>	<b>7.2</b>	0.97	"	"	"	"	"	"
<b>Copper</b>	<b>14</b>	0.97	"	"	"	"	"	"
<b>Lead</b>	<b>4.4</b>	0.97	"	"	"	"	"	"
Mercury	ND	0.097	"	1	A006373	22-Jun-10	23-Jun-10	EPA 7471A
Molybdenum	ND	0.97	"	5	A006374	22-Jun-10	22-Jun-10	EPA 6020
<b>Nickel</b>	<b>43</b>	0.97	"	"	"	"	"	"
Selenium	ND	4.8	"	"	"	"	"	"
Silver	ND	0.97	"	"	"	"	"	"
Thallium	ND	4.8	"	"	"	"	"	"
<b>Titanium</b>	<b>270</b>	39	"	20	"	"	23-Jun-10	"
<b>Vanadium</b>	<b>30</b>	4.8	"	5	"	"	22-Jun-10	"
<b>Zinc</b>	<b>78</b>	2.4	"	"	"	"	"	"

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Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W2-15**  
**1002122-21 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>8.75</b>	0.100	pH Units	1	A006397	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.8	mg/kg	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>18</b>	0.95	"	"	"	"	"	"	
<b>Barium</b>	<b>120</b>	0.48	"	"	"	"	"	"	
Beryllium	ND	2.4	"	"	"	"	"	"	
Cadmium	ND	0.95	"	"	"	"	"	"	
<b>Chromium</b>	<b>65</b>	0.95	"	"	"	"	"	"	N-02
<b>Cobalt</b>	<b>13</b>	0.95	"	"	"	"	"	"	
<b>Copper</b>	<b>27</b>	0.95	"	"	"	"	"	"	
<b>Lead</b>	<b>8.5</b>	0.95	"	"	"	"	"	"	
<b>Mercury</b>	<b>0.13</b>	0.097	"	1	A006373	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.95	"	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>89</b>	0.95	"	"	"	"	"	"	
Selenium	ND	4.8	"	"	"	"	"	"	
Silver	ND	0.95	"	"	"	"	"	"	
Thallium	ND	4.8	"	"	"	"	"	"	
<b>Titanium</b>	<b>210</b>	38	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>41</b>	4.8	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>63</b>	2.4	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W2-20**  
**1002122-22 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>9.61</b>	0.100	pH Units	1	A006397	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.8	mg/kg	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>3.6</b>	0.96	"	"	"	"	"	"	
<b>Barium</b>	<b>100</b>	0.48	"	"	"	"	"	"	
Beryllium	ND	2.4	"	"	"	"	"	"	
Cadmium	ND	0.96	"	"	"	"	"	"	
<b>Chromium</b>	<b>65</b>	0.96	"	"	"	"	"	"	N-02
<b>Cobalt</b>	<b>7.6</b>	0.96	"	"	"	"	"	"	
<b>Copper</b>	<b>14</b>	0.96	"	"	"	"	"	"	
<b>Lead</b>	<b>4.3</b>	0.96	"	"	"	"	"	"	
Mercury	ND	0.099	"	1	A006373	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.96	"	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>79</b>	0.96	"	"	"	"	"	"	
Selenium	ND	4.8	"	"	"	"	"	"	
Silver	ND	0.96	"	"	"	"	"	"	
Thallium	ND	4.8	"	"	"	"	"	"	
<b>Titanium</b>	<b>240</b>	38	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>25</b>	4.8	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>38</b>	2.4	"	"	"	"	"	"	

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Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W2-25**  
**1002122-23 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>8.62</b>	0.100	pH Units	1	A006397	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.7	mg/kg	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>2.9</b>	0.94	"	"	"	"	"	"	
<b>Barium</b>	<b>98</b>	0.47	"	"	"	"	"	"	
Beryllium	ND	2.3	"	"	"	"	"	"	
Cadmium	ND	0.94	"	"	"	"	"	"	
<b>Chromium</b>	<b>54</b>	0.94	"	"	"	"	"	"	N-02
<b>Cobalt</b>	<b>9.9</b>	0.94	"	"	"	"	"	"	
<b>Copper</b>	<b>15</b>	0.94	"	"	"	"	"	"	
<b>Lead</b>	<b>4.1</b>	0.94	"	"	"	"	"	"	
<b>Mercury</b>	<b>0.13</b>	0.095	"	1	A006373	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.94	"	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>81</b>	0.94	"	"	"	"	"	"	
Selenium	ND	4.7	"	"	"	"	"	"	
Silver	ND	0.94	"	"	"	"	"	"	
Thallium	ND	4.7	"	"	"	"	"	"	
<b>Titanium</b>	<b>260</b>	38	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>25</b>	4.7	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>39</b>	2.3	"	"	"	"	"	"	

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Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W3-2.5**  
**1002122-24 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>5.14</b>	0.100	pH Units	1	A006397	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	5.0	mg/kg	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>24</b>	1.0	"	"	"	"	"	"	
<b>Barium</b>	<b>120</b>	0.50	"	"	"	"	"	"	
Beryllium	ND	2.5	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>71</b>	1.0	"	"	"	"	"	"	N-02
<b>Cobalt</b>	<b>4.9</b>	1.0	"	"	"	"	"	"	
<b>Copper</b>	<b>82</b>	1.0	"	"	"	"	"	"	
<b>Lead</b>	<b>70</b>	1.0	"	"	"	"	"	"	N-02
<b>Mercury</b>	<b>0.10</b>	0.095	"	1	A006373	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	1.0	"	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>42</b>	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	1.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
<b>Titanium</b>	<b>270</b>	40	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>34</b>	5.0	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>52</b>	2.5	"	"	"	"	"	"	

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Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W3-5**  
**1002122-25 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>4.59</b>	0.100	pH Units	1	A006397	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	5.0	mg/kg	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>13</b>	1.0	"	"	"	"	"	"	
<b>Barium</b>	<b>130</b>	0.50	"	"	"	"	"	"	
Beryllium	ND	2.5	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>66</b>	1.0	"	"	"	"	"	"	N-02
<b>Cobalt</b>	<b>7.7</b>	1.0	"	"	"	"	"	"	
<b>Copper</b>	<b>120</b>	1.0	"	"	"	"	"	"	
<b>Lead</b>	<b>8.2</b>	1.0	"	"	"	"	"	"	
<b>Mercury</b>	<b>0.096</b>	0.093	"	1	A006373	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	1.0	"	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>53</b>	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	1.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
<b>Titanium</b>	<b>270</b>	40	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>37</b>	5.0	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>93</b>	2.5	"	"	"	"	"	"	

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1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W3-10**  
**1002122-26 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>4.08</b>	0.100	pH Units	1	A006397	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	5.0	mg/kg	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>5.4</b>	0.99	"	"	"	"	"	"	
<b>Barium</b>	<b>160</b>	0.50	"	"	"	"	"	"	
Beryllium	ND	2.5	"	"	"	"	"	"	
Cadmium	ND	0.99	"	"	"	"	"	"	
<b>Chromium</b>	<b>54</b>	0.99	"	"	"	"	"	"	N-02
<b>Cobalt</b>	<b>6.3</b>	0.99	"	"	"	"	"	"	
<b>Copper</b>	<b>21</b>	0.99	"	"	"	"	"	"	
<b>Lead</b>	<b>6.5</b>	0.99	"	"	"	"	"	"	
Mercury	ND	0.097	"	1	A006373	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.99	"	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>52</b>	0.99	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	0.99	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
<b>Titanium</b>	<b>330</b>	40	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>35</b>	5.0	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>82</b>	2.5	"	"	"	"	"	"	

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Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W3-15**  
**1002122-27 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>5.68</b>	0.100	pH Units	1	A006397	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	5.0	mg/kg	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>6.0</b>	0.99	"	"	"	"	"	"	
<b>Barium</b>	<b>120</b>	0.50	"	"	"	"	"	"	
Beryllium	ND	2.5	"	"	"	"	"	"	
Cadmium	ND	0.99	"	"	"	"	"	"	
<b>Chromium</b>	<b>62</b>	0.99	"	"	"	"	"	"	N-02
<b>Cobalt</b>	<b>19</b>	0.99	"	"	"	"	"	"	
<b>Copper</b>	<b>33</b>	0.99	"	"	"	"	"	"	
<b>Lead</b>	<b>8.0</b>	0.99	"	"	"	"	"	"	
<b>Mercury</b>	<b>0.15</b>	0.099	"	1	A006373	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.99	"	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>130</b>	0.99	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	0.99	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
<b>Titanium</b>	<b>88</b>	9.9	"	"	"	"	"	"	
<b>Vanadium</b>	<b>37</b>	5.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>86</b>	2.5	"	"	"	"	"	"	

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Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W3-20**  
**1002122-28 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>5.96</b>	0.100	pH Units	1	A006397	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.9	mg/kg	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>4.0</b>	0.98	"	"	"	"	"	"	
<b>Barium</b>	<b>160</b>	2.0	"	20	"	"	23-Jun-10	"	
Beryllium	ND	2.5	"	5	"	"	22-Jun-10	"	
Cadmium	ND	0.98	"	"	"	"	"	"	
<b>Chromium</b>	<b>61</b>	0.98	"	"	"	"	"	"	N-02
<b>Cobalt</b>	<b>10</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>24</b>	0.98	"	"	"	"	"	"	
<b>Lead</b>	<b>6.2</b>	0.98	"	"	"	"	"	"	
Mercury	ND	0.096	"	1	A006373	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.98	"	5	A006374	22-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>81</b>	0.98	"	"	"	"	"	"	
Selenium	ND	4.9	"	"	"	"	"	"	
Silver	ND	0.98	"	"	"	"	"	"	
Thallium	ND	4.9	"	"	"	"	"	"	
<b>Titanium</b>	<b>250</b>	39	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>32</b>	4.9	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>65</b>	2.5	"	"	"	"	"	"	

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Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W1-W**  
**1002122-29 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	0.010	mg/L	1	A006363	21-Jun-10	22-Jun-10	EPA 6020	
Arsenic	ND	0.010	"	"	"	"	25-Jun-10	"	
Barium	9.2	0.040	"	20	"	"	22-Jun-10	"	
Beryllium	0.016	0.0020	"	1	"	"	22-Jun-10	"	
Cadmium	0.018	0.0020	"	"	"	"	"	"	
Chromium	0.38	0.0040	"	"	"	"	"	"	
Cobalt	2.2	0.020	"	10	"	"	22-Jun-10	"	
Copper	0.24	0.0020	"	1	"	"	22-Jun-10	"	
Lead	0.022	0.0020	"	"	"	"	"	"	
Mercury	ND	0.00020	"	"	A006371	22-Jun-10	22-Jun-10	EPA 7470A	
Molybdenum	ND	0.020	"	10	A006363	21-Jun-10	22-Jun-10	EPA 6020	
Nickel	3.0	0.020	"	"	"	"	"	"	
Selenium	ND	0.040	"	"	"	"	"	"	
Silver	ND	0.0020	"	1	"	"	22-Jun-10	"	
Thallium	0.0023	0.0020	"	"	"	"	"	"	
Titanium	0.46	0.040	"	"	"	"	"	"	
Vanadium	0.057	0.010	"	"	"	"	"	"	
Zinc	0.36	0.010	"	"	"	"	"	"	





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Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W2-W**  
**1002122-30 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	0.010	mg/L	1	A006363	21-Jun-10	22-Jun-10	EPA 6020	
Arsenic	ND	0.010	"	"	"	"	25-Jun-10	"	
<b>Barium</b>	<b>0.21</b>	0.0020	"	"	"	"	22-Jun-10	"	
<b>Beryllium</b>	<b>0.0053</b>	0.0020	"	"	"	"	"	"	
Cadmium	ND	0.0020	"	"	"	"	"	"	
<b>Chromium</b>	<b>0.19</b>	0.0040	"	"	"	"	"	"	
<b>Cobalt</b>	<b>0.0050</b>	0.0020	"	"	"	"	"	"	
<b>Copper</b>	<b>0.011</b>	0.0020	"	"	"	"	"	"	
Lead	ND	0.0020	"	"	"	"	"	"	
Mercury	ND	0.00020	"	"	A006371	22-Jun-10	22-Jun-10	EPA 7470A	
Molybdenum	ND	0.0020	"	"	A006363	21-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>0.068</b>	0.0020	"	"	"	"	"	"	
Selenium	ND	0.0040	"	"	"	"	"	"	
Silver	ND	0.0020	"	"	"	"	"	"	
Thallium	ND	0.0020	"	"	"	"	"	"	
<b>Titanium</b>	<b>1.4</b>	0.20	"	5	"	"	22-Jun-10	"	
<b>Vanadium</b>	<b>0.021</b>	0.010	"	1	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>0.017</b>	0.010	"	"	"	"	"	"	

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Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**W3-W**  
**1002122-31 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	0.010	mg/L	1	A006363	21-Jun-10	22-Jun-10	EPA 6020	
Arsenic	<b>0.039</b>	0.010	"	"	"	"	25-Jun-10	"	
Barium	<b>0.076</b>	0.0020	"	"	"	"	22-Jun-10	"	
Beryllium	<b>0.020</b>	0.0020	"	"	"	"	"	"	
Cadmium	<b>0.15</b>	0.0020	"	"	"	"	"	"	
Chromium	<b>0.21</b>	0.0040	"	"	"	"	"	"	
Cobalt	<b>0.87</b>	0.020	"	10	"	"	22-Jun-10	"	
Copper	<b>1.8</b>	0.020	"	"	"	"	"	"	
Lead	<b>0.097</b>	0.0020	"	1	"	"	22-Jun-10	"	
Mercury	ND	0.00020	"	"	A006371	22-Jun-10	22-Jun-10	EPA 7470A	
Molybdenum	ND	0.020	"	10	A006363	21-Jun-10	22-Jun-10	EPA 6020	
Nickel	<b>4.7</b>	0.020	"	"	"	"	"	"	
Selenium	ND	0.040	"	"	"	"	"	"	
Silver	ND	0.0020	"	1	"	"	22-Jun-10	"	
Thallium	ND	0.0020	"	"	"	"	"	"	
Titanium	<b>0.96</b>	0.40	"	10	"	"	22-Jun-10	"	
Vanadium	<b>0.35</b>	0.010	"	1	"	"	22-Jun-10	"	
Zinc	<b>3.9</b>	0.10	"	10	"	"	22-Jun-10	"	

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Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**Z33b**  
**1002122-32 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>7.26</b>	0.100	pH Units	1	A006397	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.8	mg/kg	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>9.4</b>	0.97	"	"	"	"	"	"	
<b>Barium</b>	<b>110</b>	0.48	"	"	"	"	"	"	
Beryllium	ND	2.4	"	"	"	"	"	"	
Cadmium	ND	0.97	"	"	"	"	"	"	
<b>Chromium</b>	<b>45</b>	0.97	"	"	"	"	"	"	
<b>Cobalt</b>	<b>9.3</b>	0.97	"	"	"	"	"	"	
<b>Copper</b>	<b>33</b>	0.97	"	"	"	"	"	"	
<b>Lead</b>	<b>200</b>	3.9	"	20	"	"	23-Jun-10	"	N-02, N-03
<b>Mercury</b>	<b>0.17</b>	0.098	"	1	A006372	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.97	"	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>42</b>	0.97	"	"	"	"	"	"	
Selenium	ND	4.8	"	"	"	"	"	"	
Silver	ND	0.97	"	"	"	"	"	"	
Thallium	ND	4.8	"	"	"	"	"	"	
<b>Titanium</b>	<b>320</b>	39	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>37</b>	4.8	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>160</b>	9.7	"	20	"	"	23-Jun-10	"	

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Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**Z34f**  
**1002122-33 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>8.25</b>	0.100	pH Units	1	A006397	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.8	mg/kg	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>34</b>	0.96	"	"	"	"	"	"	
<b>Barium</b>	<b>110</b>	0.48	"	"	"	"	"	"	
Beryllium	ND	2.4	"	"	"	"	"	"	
Cadmium	ND	0.96	"	"	"	"	"	"	
<b>Chromium</b>	<b>39</b>	0.96	"	"	"	"	"	"	
<b>Cobalt</b>	<b>8.0</b>	0.96	"	"	"	"	"	"	
<b>Copper</b>	<b>28</b>	0.96	"	"	"	"	"	"	
<b>Lead</b>	<b>800</b>	9.6	"	50	"	"	23-Jun-10	"	N-02, N-03
<b>Mercury</b>	<b>0.12</b>	0.10	"	1	A006372	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.96	"	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>41</b>	0.96	"	"	"	"	"	"	
Selenium	ND	4.8	"	"	"	"	"	"	
Silver	ND	0.96	"	"	"	"	"	"	
Thallium	ND	4.8	"	"	"	"	"	"	
<b>Titanium</b>	<b>320</b>	38	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>34</b>	4.8	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>300</b>	9.6	"	20	"	"	23-Jun-10	"	

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Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**Z35c**  
**1002122-34 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>7.75</b>	0.100	pH Units	1	A006397	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.8	mg/kg	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
Arsenic	7.3	0.97	"	"	"	"	"	"	
Barium	150	1.9	"	20	"	"	23-Jun-10	"	
Beryllium	ND	2.4	"	5	"	"	22-Jun-10	"	
Cadmium	1.7	0.97	"	"	"	"	"	"	
Chromium	38	0.97	"	"	"	"	"	"	
Cobalt	8.3	0.97	"	"	"	"	"	"	
Copper	72	0.97	"	"	"	"	"	"	
Lead	260	3.9	"	20	"	"	23-Jun-10	"	N-02, N-03
Mercury	0.11	0.096	"	1	A006372	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.97	"	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
Nickel	44	0.97	"	"	"	"	"	"	
Selenium	ND	4.8	"	"	"	"	"	"	
Silver	ND	0.97	"	"	"	"	"	"	
Thallium	ND	4.8	"	"	"	"	"	"	
Titanium	280	39	"	20	"	"	23-Jun-10	"	
Vanadium	31	4.8	"	5	"	"	22-Jun-10	"	
Zinc	380	9.7	"	20	"	"	23-Jun-10	"	

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Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**Z37b**  
**1002122-35 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>9.28</b>	0.100	pH Units	1	A006397	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	5.0	mg/kg	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
Arsenic	7.6	0.99	"	"	"	"	"	"	
Barium	350	2.0	"	20	"	"	23-Jun-10	"	
Beryllium	ND	2.5	"	5	"	"	22-Jun-10	"	
Cadmium	1.1	0.99	"	"	"	"	"	"	
Chromium	36	0.99	"	"	"	"	"	"	
Cobalt	10	0.99	"	"	"	"	"	"	
Copper	40	0.99	"	"	"	"	"	"	
Lead	670	9.9	"	50	"	"	23-Jun-10	"	N-02, N-03
Mercury	0.10	0.092	"	1	A006372	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.99	"	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
Nickel	37	0.99	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	0.99	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Titanium	330	40	"	20	"	"	23-Jun-10	"	
Vanadium	42	5.0	"	5	"	"	22-Jun-10	"	
Zinc	920	25	"	50	"	"	23-Jun-10	"	

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Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**Z38c**  
**1002122-36 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>8.69</b>	0.100	pH Units	1	A006397	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	5.0	mg/kg	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>5.4</b>	1.0	"	"	"	"	"	"	
<b>Barium</b>	<b>130</b>	0.50	"	"	"	"	"	"	
Beryllium	ND	2.5	"	"	"	"	"	"	
<b>Cadmium</b>	<b>1.1</b>	1.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>29</b>	1.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>9.2</b>	1.0	"	"	"	"	"	"	
<b>Copper</b>	<b>190</b>	4.0	"	20	"	"	23-Jun-10	"	
<b>Lead</b>	<b>420</b>	4.0	"	"	"	"	"	"	N-02, N-03
<b>Mercury</b>	<b>0.31</b>	0.099	"	1	A006372	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	1.0	"	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
<b>Nickel</b>	<b>33</b>	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	1.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
<b>Titanium</b>	<b>350</b>	40	"	20	"	"	23-Jun-10	"	
<b>Vanadium</b>	<b>40</b>	5.0	"	5	"	"	22-Jun-10	"	
<b>Zinc</b>	<b>380</b>	10	"	20	"	"	23-Jun-10	"	

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Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**Z40a**  
**1002122-37 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>8.18</b>	0.100	pH Units	1	A006397	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.9	mg/kg	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
Arsenic	13	0.98	"	"	"	"	"	"	
Barium	300	2.0	"	20	"	"	23-Jun-10	"	
Beryllium	ND	2.5	"	5	"	"	22-Jun-10	"	
Cadmium	2.0	0.98	"	"	"	"	"	"	
Chromium	39	0.98	"	"	"	"	"	"	
Cobalt	8.2	0.98	"	"	"	"	"	"	
Copper	41	0.98	"	"	"	"	"	"	
Lead	390	3.9	"	20	"	"	23-Jun-10	"	N-02, N-03
Mercury	0.29	0.097	"	1	A006372	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	ND	0.98	"	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
Nickel	34	0.98	"	"	"	"	"	"	
Selenium	ND	4.9	"	"	"	"	"	"	
Silver	1.0	0.98	"	"	"	"	"	"	
Thallium	ND	4.9	"	"	"	"	"	"	
Titanium	320	39	"	20	"	"	23-Jun-10	"	
Vanadium	33	4.9	"	5	"	"	22-Jun-10	"	
Zinc	540	25	"	50	"	"	23-Jun-10	"	

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Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

**Z26c**  
**1002122-38 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>7.28</b>	0.100	pH Units	1	A006397	21-Jun-10	21-Jun-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.9	mg/kg	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
Arsenic	3.6	0.98	"	"	"	"	"	"	
Barium	120	0.49	"	"	"	"	"	"	
Beryllium	ND	2.5	"	"	"	"	"	"	
Cadmium	2.0	0.98	"	"	"	"	"	"	
Chromium	49	0.98	"	"	"	"	"	"	
Cobalt	5.6	0.98	"	"	"	"	"	"	
Copper	160	3.9	"	20	"	"	23-Jun-10	"	
Lead	720	9.8	"	50	"	"	23-Jun-10	"	N-02, N-03
Mercury	0.22	0.097	"	1	A006372	22-Jun-10	23-Jun-10	EPA 7471A	
Molybdenum	1.9	0.98	"	5	A006359	21-Jun-10	22-Jun-10	EPA 6020	
Nickel	27	0.98	"	"	"	"	"	"	
Selenium	ND	4.9	"	"	"	"	"	"	
Silver	ND	0.98	"	"	"	"	"	"	
Thallium	ND	4.9	"	"	"	"	"	"	
Titanium	250	39	"	20	"	"	23-Jun-10	"	
Vanadium	28	4.9	"	5	"	"	22-Jun-10	"	
Zinc	470	9.8	"	20	"	"	23-Jun-10	"	

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Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

### Wet Chemistry by EPA or APHA Standard Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch A006396 - EPA 9045 pH Prep

<b>LCS (A006396-BS1)</b>				Prepared & Analyzed: 21-Jun-10						
pH	3.91	0.100	pH Units	4.00		97.8	90-110		10	
<b>LCS (A006396-BS2)</b>				Prepared & Analyzed: 21-Jun-10						
pH	7.04	0.100	pH Units	7.00		101	90-110		10	
<b>LCS (A006396-BS3)</b>				Prepared & Analyzed: 21-Jun-10						
pH	10.1	0.100	pH Units	10.0		101	90-110		10	
<b>Duplicate (A006396-DUP1)</b>		<b>Source: 1002122-01</b>		Prepared & Analyzed: 21-Jun-10						
pH	8.91	0.100	pH Units		8.97			0.671	10	

#### Batch A006397 - EPA 9045 pH Prep

<b>LCS (A006397-BS1)</b>				Prepared & Analyzed: 21-Jun-10						
pH	3.90	0.100	pH Units	4.00		97.5	90-110		10	
<b>LCS (A006397-BS2)</b>				Prepared & Analyzed: 21-Jun-10						
pH	6.98	0.100	pH Units	7.00		99.7	90-110		10	
<b>LCS (A006397-BS3)</b>				Prepared & Analyzed: 21-Jun-10						
pH	10.0	0.100	pH Units	10.0		100	90-110		10	
<b>Duplicate (A006397-DUP1)</b>		<b>Source: 1002122-21</b>		Prepared & Analyzed: 21-Jun-10						
pH	8.68	0.100	pH Units		8.75			0.803	10	

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Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

### Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch A006359 - EPA 3050B

##### Blank (A006359-BLK1)

Prepared: 21-Jun-10 Analyzed: 22-Jun-10

Titanium	ND	2.0	mg/kg
Antimony	ND	1.0	"
Arsenic	ND	0.20	"
Barium	ND	0.10	"
Beryllium	ND	0.50	"
Cadmium	ND	0.20	"
Chromium	ND	0.20	"
Cobalt	ND	0.20	"
Copper	ND	0.20	"
Lead	ND	0.20	"
Molybdenum	ND	0.20	"
Nickel	ND	0.20	"
Selenium	ND	1.0	"
Silver	ND	0.20	"
Thallium	ND	1.0	"
Vanadium	ND	1.0	"
Zinc	ND	0.50	"

##### LCS (A006359-BS1)

Prepared: 21-Jun-10 Analyzed: 23-Jun-10

Titanium	15.3	2.0	mg/kg	15.0	102	85-115	20
Antimony	16.1	1.0	"	15.0	108	85-115	20
Arsenic	15.6	0.20	"	15.0	104	85-115	20
Barium	14.5	0.10	"	15.0	96.9	85-115	20
Beryllium	14.6	0.50	"	15.0	97.4	85-115	20
Cadmium	15.2	0.20	"	15.0	101	85-115	20
Chromium	14.7	0.20	"	15.0	98.1	85-115	20
Cobalt	15.0	0.20	"	15.0	100	85-115	20
Copper	14.8	0.20	"	15.0	98.8	85-115	20
Lead	14.8	0.20	"	15.0	98.6	85-115	20
Molybdenum	14.6	0.20	"	15.0	97.0	85-115	20
Nickel	15.0	0.20	"	15.0	100	85-115	20
Selenium	15.3	1.0	"	15.0	102	85-115	20
Silver	15.1	0.20	"	15.0	100	85-115	20
Thallium	14.4	1.0	"	15.0	96.0	85-115	20
Vanadium	14.6	1.0	"	15.0	97.2	85-115	20
Zinc	14.9	0.50	"	15.0	99.4	85-115	20

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Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

### Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch A006359 - EPA 3050B

##### LCS Dup (A006359-BSD1)

Prepared: 21-Jun-10 Analyzed: 23-Jun-10

Titanium	15.2	2.0	mg/kg	15.0		102	85-115	0.107	20	
Antimony	15.6	1.0	"	15.0		104	85-115	3.56	20	
Arsenic	15.4	0.20	"	15.0		103	85-115	1.31	20	
Barium	14.8	0.10	"	15.0		98.4	85-115	1.55	20	
Beryllium	14.4	0.50	"	15.0		96.3	85-115	1.15	20	
Cadmium	15.3	0.20	"	15.0		102	85-115	0.618	20	
Chromium	14.9	0.20	"	15.0		99.1	85-115	1.02	20	
Cobalt	15.0	0.20	"	15.0		99.8	85-115	0.338	20	
Copper	15.0	0.20	"	15.0		99.8	85-115	0.996	20	
Lead	14.9	0.20	"	15.0		99.3	85-115	0.738	20	
Molybdenum	14.5	0.20	"	15.0		96.9	85-115	0.161	20	
Nickel	15.1	0.20	"	15.0		101	85-115	0.342	20	
Selenium	15.1	1.0	"	15.0		101	85-115	1.44	20	
Silver	15.3	0.20	"	15.0		102	85-115	1.33	20	
Thallium	14.7	1.0	"	15.0		98.1	85-115	2.20	20	
Vanadium	14.7	1.0	"	15.0		98.1	85-115	0.939	20	
Zinc	15.0	0.50	"	15.0		99.7	85-115	0.288	20	

##### Duplicate (A006359-DUP1)

Source: 1002122-01

Prepared: 21-Jun-10 Analyzed: 23-Jun-10

Titanium	286	39	mg/kg		283			0.981	20	
Antimony	ND	4.9	"		ND				20	
Arsenic	9.21	0.98	"		10.9			16.9	20	
Barium	165	2.0	"		182			9.83	20	
Beryllium	ND	2.5	"		ND				20	
Cadmium	0.791	0.98	"		1.03			26.1	20	QR-04
Chromium	60.4	0.98	"		57.8			4.56	20	
Cobalt	9.53	0.98	"		9.81			2.94	20	
Copper	41.8	0.98	"		51.5			20.7	20	QR-04
Lead	171	3.9	"		203			16.7	20	
Molybdenum	ND	0.98	"		ND				20	
Nickel	74.9	0.98	"		76.4			2.03	20	
Selenium	ND	4.9	"		ND				20	
Silver	ND	0.98	"		ND				20	
Thallium	ND	4.9	"		ND				20	
Vanadium	28.4	4.9	"		28.2			0.892	20	
Zinc	156	9.8	"		196			22.9	20	QR-04

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Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

### Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch A006359 - EPA 3050B

Matrix Spike (A006359-MS1)		Source: 1002122-01		Prepared: 21-Jun-10 Analyzed: 22-Jun-10						
Antimony	38.6	20	mg/kg	298	ND	12.9	0-88		20	
Arsenic	293	4.0	"	298	10.9	94.8	73-124		20	
Barium	451	2.0	"	298	182	90.3	18-166		20	
Beryllium	312	9.9	"	298	ND	105	76-132		20	
Cadmium	295	4.0	"	298	1.03	98.6	82-118		20	
Chromium	370	4.0	"	298	57.8	105	58-139		20	
Cobalt	309	4.0	"	298	9.81	100	85-114		20	
Copper	332	4.0	"	298	51.5	94.2	64-138		20	
Lead	442	4.0	"	298	203	80.4	61-138		20	
Molybdenum	251	4.0	"	298	ND	84.3	67-112		20	
Nickel	390	4.0	"	298	76.4	105	68-132		20	
Selenium	285	20	"	298	ND	95.5	66-132		20	
Silver	234	4.0	"	298	ND	78.3	18-153		20	
Thallium	294	20	"	298	ND	98.7	78-114		20	
Vanadium	326	20	"	298	28.2	99.9	80-119		20	
Zinc	422	9.9	"	298	196	75.7	40-153		20	

Matrix Spike Dup (A006359-MSD1)		Source: 1002122-01		Prepared: 21-Jun-10 Analyzed: 22-Jun-10						
Antimony	1.90	0.98	mg/kg	294	ND	0.647	0-88	181	20	QR-02
Arsenic	290	3.9	"	294	10.9	94.7	73-124	0.0271	20	
Barium	522	2.0	"	294	182	116	18-166	24.6	20	QR-02
Beryllium	292	9.8	"	294	ND	99.3	76-132	5.13	20	
Cadmium	296	3.9	"	294	1.03	100	82-118	1.63	20	
Chromium	355	3.9	"	294	57.8	101	58-139	3.53	20	
Cobalt	297	3.9	"	294	9.81	97.6	85-114	2.60	20	
Copper	332	3.9	"	294	51.5	95.5	64-138	1.33	20	
Lead	511	3.9	"	294	203	105	61-138	26.5	20	QR-02
Molybdenum	232	3.9	"	294	ND	79.0	67-112	6.55	20	
Nickel	370	3.9	"	294	76.4	99.7	68-132	5.20	20	
Selenium	277	20	"	294	ND	94.3	66-132	1.21	20	
Silver	224	3.9	"	294	ND	76.1	18-153	2.91	20	
Thallium	283	20	"	294	ND	96.3	78-114	2.45	20	
Vanadium	312	20	"	294	28.2	96.4	80-119	3.57	20	
Zinc	425	9.8	"	294	196	77.8	40-153	2.71	20	

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Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

### Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch A006363 - EPA 3005A

##### Blank (A006363-BLK1)

Prepared: 21-Jun-10 Analyzed: 22-Jun-10

Titanium	ND	0.020	mg/L
Antimony	ND	0.0050	"
Arsenic	ND	0.0050	"
Barium	ND	0.0010	"
Beryllium	ND	0.0010	"
Cadmium	ND	0.0010	"
Chromium	ND	0.0020	"
Cobalt	ND	0.0010	"
Copper	ND	0.0010	"
Lead	ND	0.0010	"
Molybdenum	ND	0.0010	"
Nickel	ND	0.0010	"
Selenium	ND	0.0020	"
Silver	ND	0.0010	"
Thallium	ND	0.0010	"
Vanadium	ND	0.0050	"
Zinc	ND	0.0050	"

##### LCS (A006363-BS1)

Prepared: 21-Jun-10 Analyzed: 22-Jun-10

Titanium	0.146	0.020	mg/L	0.150	97.0	85-115	20
Antimony	0.149	0.0050	"	0.150	99.1	85-115	20
Arsenic	0.155	0.0050	"	0.150	103	85-115	20
Barium	0.149	0.0010	"	0.150	99.4	85-115	20
Beryllium	0.153	0.0010	"	0.150	102	85-115	20
Cadmium	0.150	0.0010	"	0.150	100	85-115	20
Chromium	0.150	0.0020	"	0.150	100	85-115	20
Cobalt	0.152	0.0010	"	0.150	101	85-115	20
Copper	0.153	0.0010	"	0.150	102	85-115	20
Lead	0.149	0.0010	"	0.150	99.0	85-115	20
Molybdenum	0.148	0.0010	"	0.150	98.4	85-115	20
Nickel	0.153	0.0010	"	0.150	102	85-115	20
Selenium	0.157	0.0020	"	0.150	105	85-115	20
Silver	0.151	0.0010	"	0.150	101	85-115	20
Thallium	0.139	0.0010	"	0.150	92.7	85-115	20
Vanadium	0.148	0.0050	"	0.150	98.6	85-115	20
Zinc	0.158	0.0050	"	0.150	105	85-115	20

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Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

### Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch A006363 - EPA 3005A

##### LCS Dup (A006363-BS01)

Prepared: 21-Jun-10 Analyzed: 22-Jun-10

Titanium	0.145	0.020	mg/L	0.150		96.7	85-115	0.356	20	
Antimony	0.150	0.0050	"	0.150		99.8	85-115	0.689	20	
Arsenic	0.157	0.0050	"	0.150		105	85-115	1.45	20	
Barium	0.149	0.0010	"	0.150		99.4	85-115	0.0550	20	
Beryllium	0.153	0.0010	"	0.150		102	85-115	0.388	20	
Cadmium	0.151	0.0010	"	0.150		100	85-115	0.125	20	
Chromium	0.150	0.0020	"	0.150		99.7	85-115	0.555	20	
Cobalt	0.152	0.0010	"	0.150		101	85-115	0.142	20	
Copper	0.152	0.0010	"	0.150		101	85-115	0.527	20	
Lead	0.148	0.0010	"	0.150		98.5	85-115	0.549	20	
Molybdenum	0.151	0.0010	"	0.150		100	85-115	2.03	20	
Nickel	0.152	0.0010	"	0.150		102	85-115	0.481	20	
Selenium	0.158	0.0020	"	0.150		105	85-115	0.571	20	
Silver	0.152	0.0010	"	0.150		102	85-115	0.710	20	
Thallium	0.140	0.0010	"	0.150		93.1	85-115	0.354	20	
Vanadium	0.147	0.0050	"	0.150		98.3	85-115	0.347	20	
Zinc	0.158	0.0050	"	0.150		105	85-115	0.161	20	

##### Duplicate (A006363-DUP1)

Source: 1002122-29

Prepared: 21-Jun-10 Analyzed: 22-Jun-10

Titanium	0.480	0.040	mg/L		0.460			4.19	20	
Antimony	ND	0.010	"		ND				20	
Arsenic	ND	0.010	"		0.00406				20	
Barium	9.43	0.040	"		9.16			2.87	20	
Beryllium	0.0168	0.0020	"		0.0163			3.17	20	
Cadmium	0.0177	0.0020	"		0.0178			0.880	20	
Chromium	0.386	0.0040	"		0.382			1.25	20	
Cobalt	2.20	0.020	"		2.22			0.942	20	
Copper	0.241	0.0020	"		0.238			1.42	20	
Lead	0.0218	0.0020	"		0.0216			0.701	20	
Molybdenum	ND	0.020	"		ND				20	
Nickel	2.99	0.020	"		3.02			1.12	20	
Selenium	ND	0.040	"		ND				20	
Silver	ND	0.0020	"		ND				20	
Thallium	ND	0.0020	"		0.00226				20	
Vanadium	0.0596	0.010	"		0.0569			4.58	20	
Zinc	0.367	0.010	"		0.361			1.50	20	

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Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

### Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch A006363 - EPA 3005A

Matrix Spike (A006363-MS1)			Source: 1002122-29		Prepared: 21-Jun-10 Analyzed: 22-Jun-10					
Titanium	6.69	0.80	mg/L	6.00	0.460	104	70-130		20	
Antimony	6.06	0.20	"	6.00	ND	101	54-147		20	
Arsenic	6.02	0.20	"	6.00	0.00406	100	54-148		20	
Barium	24.4	0.10	"	6.00	9.16	254	24-167		20	QM-4X
Beryllium	6.16	0.040	"	6.00	0.0163	102	28-175		20	
Cadmium	6.02	0.040	"	6.00	0.0178	100	51-148		20	
Chromium	6.61	0.080	"	6.00	0.382	104	54-144		20	
Cobalt	8.45	0.040	"	6.00	2.22	104	46-151		20	
Copper	6.25	0.040	"	6.00	0.238	100	45-154		20	
Lead	6.16	0.040	"	6.00	0.0216	102	50-154		20	
Molybdenum	6.03	0.040	"	6.00	ND	101	61-142		20	
Nickel	9.27	0.040	"	6.00	3.02	104	42-155		20	
Selenium	5.97	0.080	"	6.00	ND	99.4	52-148		20	
Silver	6.10	0.040	"	6.00	ND	102	17-167		20	
Thallium	5.70	0.040	"	6.00	0.00226	94.9	34-137		20	
Vanadium	6.29	0.20	"	6.00	0.0569	104	46-153		20	
Zinc	6.44	0.20	"	6.00	0.361	101	33-160		20	

Matrix Spike Dup (A006363-MSD1)			Source: 1002122-29		Prepared: 21-Jun-10 Analyzed: 22-Jun-10					
Titanium	6.71	0.80	mg/L	6.00	0.460	104	70-130	0.302	20	
Antimony	6.15	0.20	"	6.00	ND	102	54-147	1.49	20	
Arsenic	5.91	0.20	"	6.00	0.00406	98.5	54-148	1.74	20	
Barium	23.3	0.10	"	6.00	9.16	236	24-167	7.18	20	QM-4X
Beryllium	5.99	0.040	"	6.00	0.0163	99.6	28-175	2.78	20	
Cadmium	6.17	0.040	"	6.00	0.0178	103	51-148	2.46	20	
Chromium	6.58	0.080	"	6.00	0.382	103	54-144	0.542	20	
Cobalt	8.51	0.040	"	6.00	2.22	105	46-151	0.884	20	
Copper	6.32	0.040	"	6.00	0.238	101	45-154	1.08	20	
Lead	6.21	0.040	"	6.00	0.0216	103	50-154	0.854	20	
Molybdenum	5.86	0.040	"	6.00	ND	97.7	61-142	2.87	20	
Nickel	9.38	0.040	"	6.00	3.02	106	42-155	1.64	20	
Selenium	5.92	0.080	"	6.00	ND	98.6	52-148	0.825	20	
Silver	4.71	0.040	"	6.00	ND	78.5	17-167	25.7	20	QR-02
Thallium	5.73	0.040	"	6.00	0.00226	95.4	34-137	0.507	20	
Vanadium	6.24	0.20	"	6.00	0.0569	103	46-153	0.839	20	
Zinc	6.48	0.20	"	6.00	0.361	102	33-160	0.633	20	

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Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

### Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch A006371 - EPA 7470A Prep</b>										
<b>Blank (A006371-BLK1)</b>				Prepared & Analyzed: 22-Jun-10						
Mercury	ND	0.00020	mg/L							
<b>LCS (A006371-BS1)</b>				Prepared & Analyzed: 22-Jun-10						
Mercury	0.0205	0.00020	mg/L	0.0200		103	85-115		20	
<b>LCS Dup (A006371-BSD1)</b>				Prepared & Analyzed: 22-Jun-10						
Mercury	0.0207	0.00020	mg/L	0.0200		104	85-115	0.882	20	
<b>Duplicate (A006371-DUP1)</b>				<b>Source: 1002062-01</b>		Prepared & Analyzed: 22-Jun-10				
Mercury	ND	0.00020	mg/L		ND				20	
<b>Matrix Spike (A006371-MS1)</b>				<b>Source: 1002062-01</b>		Prepared & Analyzed: 22-Jun-10				
Mercury	0.00466	0.00020	mg/L	0.0200	ND	23.3	75-125		20	QM-05
<b>Matrix Spike Dup (A006371-MSD1)</b>				<b>Source: 1002062-01</b>		Prepared & Analyzed: 22-Jun-10				
Mercury	0.00467	0.00020	mg/L	0.0200	ND	23.3	75-125	0.214	20	QM-05
<b>Batch A006372 - EPA 7471A Prep</b>										
<b>Blank (A006372-BLK1)</b>				Prepared: 22-Jun-10 Analyzed: 23-Jun-10						
Mercury	ND	0.10	mg/kg							
<b>LCS (A006372-BS1)</b>				Prepared: 22-Jun-10 Analyzed: 23-Jun-10						
Mercury	1.63	0.10	mg/kg	1.67		97.6	85-115		20	
<b>LCS Dup (A006372-BSD1)</b>				Prepared: 22-Jun-10 Analyzed: 23-Jun-10						
Mercury	1.63	0.10	mg/kg	1.67		97.5	85-115	0.0615	20	





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Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

### Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch A006372 - EPA 7471A Prep

<b>Duplicate (A006372-DUP1)</b>		<b>Source: 1002122-01</b>		Prepared: 22-Jun-10 Analyzed: 23-Jun-10						
Mercury	0.0827	0.10	mg/kg		0.102			20.6	20	QR-04
<b>Matrix Spike (A006372-MS1)</b>		<b>Source: 1002122-01</b>		Prepared: 22-Jun-10 Analyzed: 23-Jun-10						
Mercury	1.62	0.093	mg/kg	1.55	0.102	98.0	75-125		20	
<b>Matrix Spike Dup (A006372-MSD1)</b>		<b>Source: 1002122-01</b>		Prepared: 22-Jun-10 Analyzed: 23-Jun-10						
Mercury	1.70	0.097	mg/kg	1.61	0.102	98.9	75-125	0.979	20	

#### Batch A006373 - EPA 7471A Prep

<b>Blank (A006373-BLK1)</b>		Prepared: 22-Jun-10 Analyzed: 23-Jun-10								
Mercury	ND	0.10	mg/kg							
<b>LCS (A006373-BS1)</b>		Prepared: 22-Jun-10 Analyzed: 23-Jun-10								
Mercury	1.70	0.10	mg/kg	1.67		102	85-115		20	
<b>LCS Dup (A006373-BSD1)</b>		Prepared: 22-Jun-10 Analyzed: 23-Jun-10								
Mercury	1.68	0.10	mg/kg	1.67		101	85-115	1.14	20	
<b>Duplicate (A006373-DUP1)</b>		<b>Source: 1002122-12</b>		Prepared: 22-Jun-10 Analyzed: 23-Jun-10						
Mercury	0.0581	0.099	mg/kg		0.0517			11.8	20	
<b>Matrix Spike (A006373-MS1)</b>		<b>Source: 1002122-12</b>		Prepared: 22-Jun-10 Analyzed: 23-Jun-10						
Mercury	1.91	0.097	mg/kg	1.61	0.0517	115	75-125		20	
<b>Matrix Spike Dup (A006373-MSD1)</b>		<b>Source: 1002122-12</b>		Prepared: 22-Jun-10 Analyzed: 23-Jun-10						
Mercury	1.90	0.10	mg/kg	1.66	0.0517	111	75-125	3.50	20	

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Wade Allmon  
1309 Morrison Ave.  
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Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

### Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch A006374 - EPA 3050B

##### Blank (A006374-BLK1)

Prepared & Analyzed: 22-Jun-10

Titanium	ND	2.0	mg/kg
Antimony	ND	1.0	"
Arsenic	ND	0.20	"
Barium	ND	0.10	"
Beryllium	ND	0.50	"
Cadmium	ND	0.20	"
Chromium	ND	0.20	"
Cobalt	ND	0.20	"
Copper	ND	0.20	"
Lead	ND	0.20	"
Molybdenum	ND	0.20	"
Nickel	ND	0.20	"
Selenium	ND	1.0	"
Silver	ND	0.20	"
Thallium	ND	1.0	"
Vanadium	ND	1.0	"
Zinc	ND	0.50	"

##### LCS (A006374-BS1)

Prepared & Analyzed: 22-Jun-10

Antimony	15.9	1.0	mg/kg	15.0	106	85-115	20
Arsenic	15.6	0.20	"	15.0	104	85-115	20
Barium	14.9	0.10	"	15.0	99.6	85-115	20
Beryllium	15.2	0.50	"	15.0	102	85-115	20
Cadmium	15.0	0.20	"	15.0	100	85-115	20
Chromium	15.0	0.20	"	15.0	100	85-115	20
Cobalt	15.1	0.20	"	15.0	100	85-115	20
Copper	15.1	0.20	"	15.0	101	85-115	20
Lead	15.0	0.20	"	15.0	99.9	85-115	20
Molybdenum	15.0	0.20	"	15.0	100	85-115	20
Nickel	15.2	0.20	"	15.0	101	85-115	20
Selenium	15.4	1.0	"	15.0	103	85-115	20
Silver	15.1	0.20	"	15.0	101	85-115	20
Thallium	14.3	1.0	"	15.0	95.1	85-115	20
Vanadium	14.9	1.0	"	15.0	99.6	85-115	20
Zinc	14.9	0.50	"	15.0	99.6	85-115	20

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Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

### Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch A006374 - EPA 3050B

##### LCS Dup (A006374-BSD1)

Prepared & Analyzed: 22-Jun-10

Antimony	15.6	1.0	mg/kg	15.0		104	85-115	1.58	20	
Arsenic	15.2	0.20	"	15.0		101	85-115	2.64	20	
Barium	14.9	0.10	"	15.0		99.3	85-115	0.280	20	
Beryllium	14.9	0.50	"	15.0		99.3	85-115	2.28	20	
Cadmium	15.1	0.20	"	15.0		100	85-115	0.394	20	
Chromium	14.9	0.20	"	15.0		99.4	85-115	0.746	20	
Cobalt	15.1	0.20	"	15.0		101	85-115	0.454	20	
Copper	15.3	0.20	"	15.0		102	85-115	0.954	20	
Lead	15.0	0.20	"	15.0		100	85-115	0.202	20	
Molybdenum	14.9	0.20	"	15.0		99.3	85-115	0.996	20	
Nickel	15.2	0.20	"	15.0		101	85-115	0.324	20	
Selenium	14.9	1.0	"	15.0		99.5	85-115	3.01	20	
Silver	15.0	0.20	"	15.0		100	85-115	0.591	20	
Thallium	14.5	1.0	"	15.0		96.6	85-115	1.52	20	
Vanadium	14.8	1.0	"	15.0		98.5	85-115	1.09	20	
Zinc	14.6	0.50	"	15.0		97.2	85-115	2.46	20	

##### Duplicate (A006374-DUP1)

Source: 1002122-12

Prepared: 22-Jun-10 Analyzed: 23-Jun-10

Titanium	352	39	mg/kg		377			6.79	20	
Antimony	ND	4.9	"		ND				20	
Arsenic	3.00	0.98	"		3.19			6.12	20	
Barium	124	0.49	"		122			1.58	20	
Beryllium	ND	2.4	"		ND				20	
Cadmium	ND	0.98	"		ND				20	
Chromium	37.2	0.98	"		38.3			2.74	20	
Cobalt	8.81	0.98	"		9.03			2.42	20	
Copper	15.9	0.98	"		16.2			2.02	20	
Lead	5.73	0.98	"		5.94			3.49	20	
Molybdenum	ND	0.98	"		ND				20	
Nickel	35.7	0.98	"		36.3			1.88	20	
Selenium	ND	4.9	"		ND				20	
Silver	ND	0.98	"		ND				20	
Thallium	ND	4.9	"		ND				20	
Vanadium	38.4	4.9	"		37.8			1.59	20	
Zinc	38.9	2.4	"		39.7			2.17	20	

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1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

### Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch A006374 - EPA 3050B

Matrix Spike (A006374-MS1)	Source: 1002122-12			Prepared & Analyzed: 22-Jun-10						
Antimony	18.5	20	mg/kg	293	ND	6.30	0-88		20	
Arsenic	266	3.9	"	293	3.19	89.8	73-124		20	
Barium	442	2.0	"	293	122	109	18-166		20	
Beryllium	301	9.8	"	293	ND	103	76-132		20	
Cadmium	278	3.9	"	293	ND	94.8	82-118		20	
Chromium	318	3.9	"	293	38.3	95.4	58-139		20	
Cobalt	288	3.9	"	293	9.03	95.1	85-114		20	
Copper	291	3.9	"	293	16.2	93.7	64-138		20	
Lead	292	3.9	"	293	5.94	97.8	61-138		20	
Molybdenum	198	3.9	"	293	ND	67.5	67-112		20	
Nickel	317	3.9	"	293	36.3	95.8	68-132		20	
Selenium	264	20	"	293	ND	90.2	66-132		20	
Silver	256	3.9	"	293	ND	87.3	18-153		20	
Thallium	268	20	"	293	ND	91.3	78-114		20	
Vanadium	310	20	"	293	37.8	92.9	80-119		20	
Zinc	311	9.8	"	293	39.7	92.5	40-153		20	

Matrix Spike Dup (A006374-MSD1)	Source: 1002122-12			Prepared & Analyzed: 22-Jun-10						
Antimony	22.7	19	mg/kg	288	ND	7.87	0-88	22.1	20	QR-02
Arsenic	261	3.8	"	288	3.19	89.6	73-124	0.224	20	
Barium	444	1.9	"	288	122	112	18-166	2.37	20	
Beryllium	295	9.6	"	288	ND	103	76-132	0.260	20	
Cadmium	287	3.8	"	288	ND	99.5	82-118	4.85	20	
Chromium	316	3.8	"	288	38.3	96.5	58-139	1.14	20	
Cobalt	287	3.8	"	288	9.03	96.5	85-114	1.43	20	
Copper	290	3.8	"	288	16.2	95.2	64-138	1.57	20	
Lead	295	3.8	"	288	5.94	101	61-138	2.77	20	
Molybdenum	192	3.8	"	288	ND	66.8	67-112	0.942	20	QM-08
Nickel	315	3.8	"	288	36.3	96.7	68-132	0.974	20	
Selenium	261	19	"	288	ND	90.7	66-132	0.508	20	
Silver	272	3.8	"	288	ND	94.5	18-153	7.94	20	
Thallium	272	19	"	288	ND	94.4	78-114	3.34	20	
Vanadium	309	19	"	288	37.8	94.2	80-119	1.47	20	
Zinc	307	9.6	"	288	39.7	92.8	40-153	0.295	20	

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Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Watsonville  
Project Number: [none]  
Project Manager: Wade Allmon

**Reported:**  
25-Jun-10 10:57

### Notes and Definitions

QR-04	The RPD exceeded the QC control limits.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QM-08	The spike recovery was outside acceptance limits for the MS and/or MSD. The QC Batch was accepted based on LCS/LCSD percent recoveries and RPD values.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
N-03	Analyte concentration above 20 X TCLP.
N-02	Analyte concentration below TTLC but above 10 X STLC.
N-01	Analyte concentration exceeds TTLC.
HoldX	Sample holding time expired.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference





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## CHAIN OF CUSTODY

Page 1 of 4

Company: <b>WADE ALLMON</b>					Project Name/ #: <b>Watsonville</b>									
Address: <b>1309 Morrison Ave</b>					Site: <b>Watsonville</b>									
City/State/ZIP: <b>Santa Barbara CA 93103</b>					Analysis Requested								Special Instructions:	
Phone: <b>805.455.5041</b> Fax: E-mail: <b>wadeallmon@hotmail.com</b>														
Report To: <b>WADE ALLMON</b> Sampler: <b>WADE ALLMON</b>					<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Carc Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">P/A</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Isotopes</div> </div>									
Send report via- FAX- <input type="checkbox"/> PDF- <input checked="" type="checkbox"/> Col/LUFT EDF- <input type="checkbox"/> EDD- <input type="checkbox"/>														
Turnaround Time 10 Days- <input type="checkbox"/> 5 Days- <input type="checkbox"/> 72 hr- <input type="checkbox"/> 48 hr- <input checked="" type="checkbox"/> 24 hr- <input type="checkbox"/> ASAP- <input type="checkbox"/>														
OEC Sample ID	Date/Time Sampled	Matrix	# of Cont.	Client Sample ID										
1002122-1A	6/16/10 1420	soil	1	Z3C										
-2A	1715			Z13e										
-3A	1820			Z14b										
-4A	1845			Z15c										
-5A	↓ 1922			Z17c										
-6A	6/17/10 1155			Z22c										
-7A	1225			Z23c										
-8A	1320			Z25a										
-9A	1450			Z28a										
-10A	1530			Y12e										
-11A	↓ 1720	↓	↓	Z30b										
Relinquished By: <i>[Signature]</i> Date: <b>6/18/10</b> Time: <b>2155</b>					Comments/PO#:									
Received By: <i>[Signature]</i> Date: <b>6/19/10</b> Time: <b>1400</b>														
Relinquished By: Date: Time:														
Received By: Date: Time:														
Relinquished By: Date: Time:														
Received By: Date: Time:														





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## CHAIN OF CUSTODY

Page 2 of 4

Company: <b>WADE ALLMON</b>					Project Name/#: <b>WATSONVILLE</b>									
Address: <b>1309 MORRISON AVE</b>					Site: <b>WATSONVILLE</b>									
City/State/ZIP: <b>Santa Barbara CA 93103</b>					Analysis Requested								Special Instructions:	
Phone: <b>805.455.7041</b> Fax: E-mail:					<div style="display: flex; justify-content: space-around;"><div>Lead Metals</div><div>Pb</div><div>Seawater</div><div>Titanium</div></div>									
Report To: <b>WADE ALLMON</b> Sampler: <b>WADE ALLMON</b>														
Send report via- FAX- <input type="checkbox"/> PDF- <input checked="" type="checkbox"/> Col/LUFT EDF- <input type="checkbox"/> EDD- <input type="checkbox"/>														
Turnaround Time 10 Days- <input type="checkbox"/> 5 Days- <input type="checkbox"/> 72 hr- <input checked="" type="checkbox"/> 48 hr- <input checked="" type="checkbox"/> 24 hr- <input type="checkbox"/> ASAP- <input type="checkbox"/>														
OEC Sample ID	Date/Time Sampled	Matrix	# of Cont.	Client Sample ID										
<b>1002122-120</b>	<b>6/18/10 020</b>	<b>soil</b>	<b>1</b>	<b>W1-3</b>	<div style="border-left: 2px solid black; border-right: 2px solid black; padding: 10px; margin: 10px;">TAT 3 days per client</div>									
<b>-13A</b>	<b>840</b>			<b>W1-5</b>										
<b>-14A</b>	<b>845</b>			<b>W1-10</b>										
<b>-15A</b>	<b>900</b>			<b>W1-15</b>										
<b>-16A</b>	<b>910</b>			<b>W1-20</b>										
<b>-17A</b>	<b>913</b>			<b>W1-25</b>										
<b>-18A</b>	<b>945</b>			<b>W2-2.5</b>										
<b>-19A</b>	<b>952</b>			<b>W2-5</b>										
<b>-20A</b>	<b>1003</b>			<b>W2-10</b>										
<b>-21A</b>	<b>1010</b>			<b>W2-15</b>										
<b>-22A</b>	<b>1012</b>			<b>W2-20</b>										
<b>-23A</b>	<b>1030</b>			<b>W2-25</b>										
Relinquished By: <b>WADE ALLMON</b> Date: <b>6/18/10</b> Time: <b>2155</b>					Comments/PO#:									
Received By: <b>[Signature]</b> Date: <b>6/19/10</b> Time: <b>1410</b>														
Relinquished By: Date: Time:														
Received By: Date: Time:														
Relinquished By: Date: Time:														
Received By: Date: Time:														





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## CHAIN OF CUSTODY

Page 3 of 4

Company: <u>WADE ALLMON</u>					Project Name/ #: <u>Watsonville</u>									
Address: <u>1309 Morrison Ave</u>					Site: <u>Watsonville</u>									
City/State/ZIP: <u>Santa Barbara CA 93103</u>					Analysis Requested									
Phone: <u>805 455 5041</u> Fax: E-mail:					Special Instructions:									
Report To: <u>WADE ALLMON</u> Sampler: <u>WADE ALLMON</u>					<div style="display: flex; flex-direction: column; align-items: center;"><div style="display: flex; justify-content: space-around; width: 100%;"><div style="writing-mode: vertical-rl; transform: rotate(180deg);">C.M. METALS</div><div>PH</div><div style="writing-mode: vertical-rl; transform: rotate(180deg);">sulfide</div><div style="writing-mode: vertical-rl; transform: rotate(180deg);">titanium</div></div><div style="margin-top: 20px;">TAT 3 days per client</div><div style="margin-top: 20px;">canceled</div><div style="margin-top: 20px;">NO SAMPLE</div></div>									
Send report via- FAX- <input type="checkbox"/> PDF- <input checked="" type="checkbox"/> Col/LUFT EDF- <input type="checkbox"/> EDD- <input type="checkbox"/>														
Turnaround Time 10 Days- <input type="checkbox"/> 5 Days- <input type="checkbox"/> 72 hr- <input checked="" type="checkbox"/> 48 hr- <input checked="" type="checkbox"/> 24 hr- <input type="checkbox"/> ASAP- <input type="checkbox"/>														
OEC Sample ID Date/Time Sampled Matrix # of Cont. Client Sample ID														
1002122-24A 6/18/10 1100 soil 1 W3-2.5														
-25A 1105														
-26A 1111														
-27A 1120														
-28A 1125														
-29A 900 Water														
-30A 1022														
-31A 1130														

Relinquished By: <u>WADE ALLMON</u>		Date: <u>6/18/10</u>	Time: <u>2155</u>	Comments/PO#: <u>PH + sulfide cancel per client</u>
Received By: <u>[Signature]</u>		Date: <u>6/19/10</u>	Time: <u>1440</u>	
Relinquished By:		Date:	Time:	
Received By:		Date:	Time:	
Relinquished By:		Date:	Time:	
Received By:		Date:	Time:	





# Oilfield Environmental and Compliance

307 Roemer Way Suite 300, Santa Maria CA 93454

phone: (805) 922-4772 fax: (805) 925-3376 www.oecusa.com

Highway 33, McKittrick CA

phone: (661) 762-9143

## CHAIN OF CUSTODY

Page 4 of 4

Company: <u>WADE ALLMAN</u>					Project Name/ #: <u>Watsonville</u>														
Address: <u>1309 Morrison Ave</u>					Site: <u>Watsonville</u>														
City/State/ZIP: <u>Santa Barbara CA 93103</u>					Analysis Requested										Special Instructions:				
Phone: <u>805 455 504</u> Fax: E-mail:					CAN Metals	pH	titanium												
Report To: <u>WADE ALLMAN</u> Sampler: <u>WADE ALLMAN</u>																			
Send report via- FAX- <input type="checkbox"/> PDF- <input checked="" type="checkbox"/> Col/LUFT EDF- <input type="checkbox"/> EDD- <input type="checkbox"/>																			
Turnaround Time 10 Days- <input type="checkbox"/> 5 Days- <input type="checkbox"/> 72 hr- <input type="checkbox"/> 48 hr- <input checked="" type="checkbox"/> 24 hr- <input type="checkbox"/> ASAP- <input type="checkbox"/>																			
OEC Sample ID	Date/Time Sampled	Matrix	# of Cont.	Client Sample ID															
<u>1002122-32A</u>	<u>6/18/10 1222</u>	<u>soil</u>	<u>1</u>	<u>Z 33b</u>	↓	↓	↓												
<u>-33A</u>	<u>1305</u>	↓	↓	<u>Z 34f</u>	↓	↓	↓												
<u>-34A</u>	<u>1344</u>	↓	↓	<u>Z 35c</u>	↓	↓	↓												
<u>-35A</u>	<u>1430</u>	↓	↓	<u>Z 37b</u>	↓	↓	↓												
<u>-36A</u>	<u>1503</u>	↓	↓	<u>Z 38c</u>	↓	↓	↓												
<u>-37A</u>	<u>1616</u>	↓	↓	<u>Z 40a</u>	↓	↓	↓												
<u>-38A</u>	<u>6/17/10 1358</u>	↓	↓	<u>Z 26c</u>	↓	↓	↓												
Relinquished By: <u>WADE ALLMAN</u> Date: <u>6/18/10</u> Time: <u>2155</u>					Comments/PO#:														
Received By: <u>[Signature]</u> Date: <u>6/19/10</u> Time: <u>1410</u>																			
Relinquished By: Date: Time:																			
Received By: Date: Time:																			
Relinquished By: Date: Time:																			
Received By: Date: Time:																			



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phone: (661) 762-9143

Page 1 of 4

Company: <b>WADE ALLMON</b>					Project Name/ #: <b>Watsonville</b>												
Address: <b>1309 MORRISON AVE</b>					Site: <b>Watsonville</b>												
City/State/ZIP: <b>Santa Barbara CA 93103</b>					Analysis Requested										Special Instructions:		
Phone: <b>805.455.5041</b> Fax: E-mail: <b>wadeallmon@hotmail.com</b>					<div>Can Metals</div> <div>PIA</div> <div>Isotopes</div>												
Report To: <b>WADE ALLMON</b> Sampler: <b>WADE ALLMON</b>																	
Send report via- FAX- <input type="checkbox"/> PDF- <input checked="" type="checkbox"/> COIL/LUFT EDF- <input type="checkbox"/> EDD- <input type="checkbox"/>																	
Turnaround Time 10 Days- <input type="checkbox"/> 5 Days- <input type="checkbox"/> 72 hr- <input type="checkbox"/> 48 hr- <input checked="" type="checkbox"/> 24 hr- <input type="checkbox"/> ASAP- <input type="checkbox"/>																	
OEC Sample ID	Date/Time Sampled	Matrix	# of Cont.	Client Sample ID													
1002/22-1A	6/16/10 1420	soil	1	Z3C													
-2A	1715			Z13e													
-3A	1820			Z14b													
-4A	1845			Z15C													
-5A	✓ 1922			Z17C													
-6A	6/17/10 1155			Z22C													
-7A	1225			Z23C													
-8A	1320			Z25a													
-9A	1450			Z28a													
-10A	1530			Y12e													
-11A	✓ 1720	✓	✓	Z30b													
Relinquished By: <b>WADE ALLMON</b> Date: <b>6/18/10</b> Time: <b>2155</b>					Comments/PO#:												
Received By: <b>[Signature]</b> Date: <b>6/19/10</b> Time: <b>1410</b>																	
Relinquished By: Date: Time:																	
Received By: Date: Time:																	
Relinquished By: Date: Time:																	





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Highway 33, McKittrick CA

phone: (661) 762-9143

## CHAIN OF CUSTODY

Page 2 of 4

Company: <b>WADE ALLMON</b>					Project Name/ #: <b>WATSONVILLE</b>												
Address: <b>1309 MORRISON AVE</b>					Site: <b>WATSONVILLE</b>												
City/State/ZIP: <b>Santa Barbara CA 93103</b>					Analysis Requested								Special Instructions:				
Phone: <b>805.455.7041</b> Fax: E-mail:					Cadm Metals	PH	Sulfide	Titanium									
Report To: <b>WADE ALLMON</b> Sampler: <b>WADE ALLMON</b>																	
Send report via- FAX- <input type="checkbox"/> PDF- <input checked="" type="checkbox"/> Col/LUFT EDF- <input type="checkbox"/> EDD- <input type="checkbox"/>																	
Turnaround Time 10 Days- <input type="checkbox"/> 5 Days- <input type="checkbox"/> 72 hr- <input type="checkbox"/> 48 hr- <input checked="" type="checkbox"/> 24 hr- <input type="checkbox"/> ASAP- <input type="checkbox"/>																	
OEC Sample ID	Date/Time Sampled	Matrix	# of Cont.	Client Sample ID													
<b>1002122-120</b>	<b>6/18/10 820</b>	<b>24L</b>	<b>1</b>	<b>W1-3</b>													
<b>-13A</b>	<b>840</b>			<b>W1-5</b>													
<b>-14A</b>	<b>845</b>			<b>W1-10</b>													
<b>-15A</b>	<b>900</b>			<b>W1-15</b>													
<b>-16A</b>	<b>910</b>			<b>W1-20</b>													
<b>-17A</b>	<b>913</b>			<b>W1-25</b>													
<b>-18A</b>	<b>945</b>			<b>W2-2.5</b>													
<b>-19A</b>	<b>952</b>			<b>W2-5</b>													
<b>-20A</b>	<b>1003</b>			<b>W2-10</b>													
<b>-21A</b>	<b>1010</b>			<b>W2-15</b>													
<b>-22A</b>	<b>1012</b>			<b>W2-20</b>													
<b>-23A</b>	<b>1030</b>			<b>W2-25</b>													
Relinquished By: <b>WADE ALLMON</b> Date: <b>6/18/10</b> Time: <b>2155</b>					Comments/PO#:												
Received By: <b>[Signature]</b> Date: <b>6/19/10</b> Time: <b>1410</b>																	
Relinquished By: Date: Time:																	
Received By: Date: Time:																	
Relinquished By: Date: Time:																	
Received By: Date: Time:																	





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## CHAIN OF CUSTODY

Highway 33, McKittrick CA

phone: (661) 762-9143

Page 3 of 4

Company: <u>WADE ALLMON</u>					Project Name/#: <u>Watsonville</u>													
Address: <u>1309 Morrison Ave</u>					Site: <u>Watsonville</u>													
City/State/ZIP: <u>Santa Barbara CA 93103</u>					Analysis Requested										Special Instructions:			
Phone: <u>805 455 5041</u> Fax: _____ E-mail: _____					CA METALS	PH	sulfide	titanium										
Report To: <u>WADE ALLMON</u> Sampler: <u>WADE ALLMON</u>																		
Send report via- FAX- <input type="checkbox"/> PDF- <input checked="" type="checkbox"/> COIL/LUFT EDF- <input type="checkbox"/> EDD- <input type="checkbox"/>																		
Turnaround Time 10 Days- <input type="checkbox"/> 5 Days- <input type="checkbox"/> 72 hr- <input type="checkbox"/> 48 hr- <input checked="" type="checkbox"/> 24 hr- <input type="checkbox"/> ASAP- <input type="checkbox"/>																		
OEC Sample ID	Date/Time Sampled	Matrix	# of Cont.	Client Sample ID														
<u>1002122-24A</u>	<u>6/18/10 1100</u>	<u>soil</u>	<u>1</u>	<u>W3-2.5</u>														
<u>-25A</u>	<u>1105</u>			<u>W3-5</u>														
<u>-26A</u>	<u>1111</u>			<u>W3-10</u>														
<u>-27A</u>	<u>1120</u>			<u>W3-15</u>														
<u>-28A</u>	<u>1125</u>			<u>W3-20</u>														
<u>-29A</u>	<u>900</u>	<u>Water</u>		<u>W1-W</u>														
<u>-30A</u>	<u>1022</u>			<u>W2-W</u>														
<u>-31A</u>	<u>1130</u>			<u>W3-W</u>														
Relinquished By: <u>WADE ALLMON</u> Date: <u>6/18/10</u> Time: <u>2155</u>					Comments/PO#:													
Received By: <u>[Signature]</u> Date: <u>6/19/10</u> Time: <u>1410</u>																		
Relinquished By: _____ Date: _____ Time: _____																		
Received By: _____ Date: _____ Time: _____																		
Relinquished By: _____ Date: _____ Time: _____																		
Received By: _____ Date: _____ Time: _____																		





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## CHAIN OF CUSTODY

Page 4 of 4

Company: <u>WADE ALMON</u>					Project Name/ #: <u>Watsonville</u>														
Address: <u>1309 Morrison Ave</u>					Site: <u>Watsonville</u>														
City/State/ZIP: <u>Santa Barbara CA 93103</u>					Analysis Requested										Special Instructions:				
Phone: <u>805 455 504</u> Fax: E-mail:					CAN Metals	pH	titanium												
Report To: <u>WADE ALMON</u> Sampler: <u>WADE ALMON</u>																			
Send report via- FAX- <input type="checkbox"/> PDF- <input checked="" type="checkbox"/> Col/LUFT EDF- <input type="checkbox"/> EDD- <input type="checkbox"/>																			
Turnaround Time 10 Days- <input type="checkbox"/> 5 Days- <input type="checkbox"/> 72 hr- <input type="checkbox"/> 48 hr- <input checked="" type="checkbox"/> 24 hr- <input type="checkbox"/> ASAP- <input type="checkbox"/>																			
OEC Sample ID	Date/Time Sampled	Matrix	# of Cont.	Client Sample ID															
<u>1002122-32A</u>	<u>6/18/10</u>	<u>soil</u>	<u>1</u>	<u>Z 33b</u>	↓	↓	↓												
<u>-33A</u>	<u>1305</u>	↓	↓	<u>Z 34f</u>	↓	↓	↓												
<u>-34A</u>	<u>1344</u>	↓	↓	<u>Z 35c</u>															
<u>-35A</u>	<u>1430</u>	↓	↓	<u>Z 37b</u>															
<u>-36A</u>	<u>1503</u>	↓	↓	<u>Z 38c</u>															
<u>-37A</u>	<u>1616</u>	↓	↓	<u>Z 40a</u>	↓	↓	↓												
<u>-38A</u>	<u>6/17/10 1358</u>	↓	↓	<u>Z 26c</u>	↓	↓	↓												
Relinquished By: <u>WADE ALMON</u> Date: <u>6/18/10</u> Time: <u>2:55</u>					Comments/PO#:														
Received By: <u>[Signature]</u> Date: <u>6/19/10</u> Time: <u>1410</u>																			
Relinquished By: Date: Time:																			
Received By: Date: Time:																			
Relinquished By: Date: Time:																			
Received By: Date: Time:																			



## SAMPLE RECEIPT

Rev. 01/15/10

CLIENT: Wade Allmon

OEC ID #: 1002122

Temp: 4 °C

**Acceptable Range: 0°C to 6°C**

**COC RECEIVED**

DATE/TIME: 6/19/10 1410

**RECEIPT LOGIN**

DATE/TIME: 6/21/10 0951

**REFRIGERATOR(S):** 8

**SAMPLE TRANSPORT, RECEIPT, CONDITION & PRESERVATION:**

- ☐ OEC Courier/Sampler  
☒ Delivery (Other than OEC Courier)  
☒ Samples Received on Ice  
☐ Samples Received Outside Temp. Range\*  
☐ Samples Direct from field (Outside Temp)  
☐ After-Hours Outside Drop-off | Brought In

**(Initials/Date/Time):**

- COC document(s) received with samples**  
**Correct containers for analysis requested**  
**Container(s) intact and in good condition**  
**Container label(s) consistent with COC**  
**OEC preservative added (\*\*note std ID)**  
**Proper preservation on sample label(s)**  
**VOA containers free of headspace**  
**Tedlar Bags free of condensation**

# Yes

No

N/A

**(\*) PROBLEM CHAIN FORM NEEDED**

- Custody Seals (circle): Present / Absent  
Samples / Coolers  
Intact / Broken\*
- Method of Shipment & Tracking # (if applicable):
- (\*\*) OEC Preservative ID:
- Dissolved Metals Filtration: (Date/Init/Preserve ID)

**CONTAINERS, COC CHANGES AND/OR CORRECTIONS**

**CHANGES AUTHORIZED BY:**

[illegible]

RECEIPT LOGIN BY: *DM*

RECEIPT REVIEWED BY: 

Page 1 of 1





Wade Allmon  
Wade Allmon  
1309 Morrison Ave.  
Santa Barbara, CA 93103

02 June 2010

RE: Santa Barbara County Litigation Project

Work Order: 1001778

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on 22-May-10 17:00 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

DRAFT REPORT

DATA SUBJECT TO CHANGE





Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Santa Barbara County Litigation Project  
Project Number: Watsonville  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DRAFT: Y1-B8	1001778-01	Solid	20-May-10 13:48	22-May-10 17:00
DRAFT: Y1-C6	1001778-02	Solid	20-May-10 14:22	22-May-10 17:00
DRAFT: Y2-C2	1001778-03	Solid	20-May-10 16:12	22-May-10 17:00
DRAFT: Y2-D2	1001778-04	Solid	20-May-10 16:18	22-May-10 17:00
DRAFT: Y3-G2	1001778-05	Solid	20-May-10 19:10	22-May-10 17:00
DRAFT: Y3 -H4	1001778-06	Solid	20-May-10 19:12	22-May-10 17:00
DRAFT: Y4-B2	1001778-07	Solid	21-May-10 10:03	22-May-10 17:00
DRAFT: Y4 -C4	1001778-08	Solid	21-May-10 10:10	22-May-10 17:00
DRAFT: Y5-D2	1001778-09	Solid	21-May-10 11:43	22-May-10 17:00
DRAFT: Y5-E2	1001778-10	Solid	21-May-10 11:47	22-May-10 17:00
DRAFT: Y6-C2	1001778-11	Solid	21-May-10 12:52	22-May-10 17:00
DRAFT: Y7-B2	1001778-12	Solid	21-May-10 13:55	22-May-10 17:00
DRAFT: Y8-B2	1001778-13	Solid	21-May-10 14:00	22-May-10 17:00
DRAFT: Y9-C6	1001778-14	Solid	21-May-10 16:16	22-May-10 17:00
DRAFT: Y10-B4	1001778-15	Solid	21-May-10 18:00	22-May-10 17:00
DRAFT: Y11-B2	1001778-16	Solid	21-May-10 19:06	22-May-10 17:00

DRAFT REPORT

*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.*

307 Roemer Way, Suite 300, Santa Maria, CA 93454

**www.oecusa.com**

TEL: (805) 922-4772  
FAX: (805) 925-3376





Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Santa Barbara County Litigation Project  
Project Number: Watsonville  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

**DRAFT: Y1-B8**  
**1001778-01 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**DRAFT: Wet Chemistry by EPA or APHA Standard Methods**

pH	6.65	0.100	pH Units	1	A005394	22-May-10	22-May-10	9045	HoldX
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**DRAFT: Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	5.0	mg/kg	5	A005439	31-May-10	01-Jun-10	EPA 6020	
Arsenic	18	1.0	"	"	"	"	"	"	
Barium	180	2.0	"	20	"	"	02-Jun-10	"	
Beryllium	ND	2.5	"	5	"	"	01-Jun-10	"	
Cadmium	1.6	1.0	"	"	"	"	"	"	
Chromium	62	1.0	"	"	"	"	"	"	N-02
Cobalt	13	1.0	"	"	"	"	"	"	
Copper	94	1.0	"	"	"	"	"	"	
Lead	750	10	"	50	"	"	02-Jun-10	"	N-02, N-03
Mercury	0.24	0.090	"	1	A006002	01-Jun-10	01-Jun-10	EPA 7471A	
Molybdenum	ND	1.0	"	5	A005439	31-May-10	01-Jun-10	EPA 6020	
Nickel	60	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	1.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Titanium	280	40	mg/L	20	"	"	02-Jun-10	"	
Vanadium	36	5.0	mg/kg	5	"	"	01-Jun-10	"	
Zinc	700	25	"	50	"	"	02-Jun-10	"	

DRAFT REPORT

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Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Santa Barbara County Litigation Project  
Project Number: Watsonville  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

**DRAFT: Y1-C6**  
**1001778-02 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**DRAFT: Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>6.37</b>	0.100	pH Units	1	A005394	22-May-10	22-May-10	9045	HoldX
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**DRAFT: Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.8	mg/kg	5	A005439	31-May-10	01-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>5.1</b>	0.97	"	"	"	"	"	"	
<b>Barium</b>	<b>72</b>	0.48	"	"	"	"	"	"	
Beryllium	ND	2.4	"	"	"	"	"	"	
Cadmium	ND	0.97	"	"	"	"	"	"	
<b>Chromium</b>	<b>41</b>	0.97	"	"	"	"	"	"	
<b>Cobalt</b>	<b>10</b>	0.97	"	"	"	"	"	"	
<b>Copper</b>	<b>35</b>	0.97	"	"	"	"	"	"	
<b>Lead</b>	<b>130</b>	0.97	"	"	"	"	"	"	N-02, N-03
<b>Mercury</b>	<b>0.31</b>	0.098	"	1	A006002	01-Jun-10	01-Jun-10	EPA 7471A	
Molybdenum	ND	0.97	"	5	A005439	31-May-10	01-Jun-10	EPA 6020	
<b>Nickel</b>	<b>40</b>	0.97	"	"	"	"	"	"	
Selenium	ND	4.8	"	"	"	"	"	"	
Silver	ND	0.97	"	"	"	"	"	"	
Thallium	ND	4.8	"	"	"	"	"	"	
<b>Titanium</b>	<b>210</b>	39	mg/L	20	"	"	02-Jun-10	"	
<b>Vanadium</b>	<b>32</b>	4.8	mg/kg	5	"	"	01-Jun-10	"	
<b>Zinc</b>	<b>270</b>	9.7	"	20	"	"	02-Jun-10	"	

DRAFT REPORT

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FAX: (805) 925-3376





Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Santa Barbara County Litigation Project  
Project Number: Watsonville  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

**DRAFT: Y2-C2**  
**1001778-03 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**DRAFT: Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>8.57</b>	0.100	pH Units	1	A005394	22-May-10	22-May-10	9045	HoldX
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**DRAFT: Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.7	mg/kg	5	A005439	31-May-10	01-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>4.1</b>	0.94	"	"	"	"	"	"	
<b>Barium</b>	<b>37</b>	0.47	"	"	"	"	"	"	
Beryllium	ND	2.3	"	"	"	"	"	"	
Cadmium	ND	0.94	"	"	"	"	"	"	
<b>Chromium</b>	<b>36</b>	0.94	"	"	"	"	"	"	
<b>Cobalt</b>	<b>8.5</b>	0.94	"	"	"	"	"	"	
<b>Copper</b>	<b>24</b>	0.94	"	"	"	"	"	"	
<b>Lead</b>	<b>270</b>	3.8	"	20	"	"	02-Jun-10	"	N-02, N-03
Mercury	ND	0.096	"	1	A006002	01-Jun-10	01-Jun-10	EPA 7471A	
Molybdenum	ND	0.94	"	5	A005439	31-May-10	01-Jun-10	EPA 6020	
<b>Nickel</b>	<b>28</b>	0.94	"	"	"	"	"	"	
Selenium	ND	4.7	"	"	"	"	"	"	
Silver	ND	0.94	"	"	"	"	"	"	
Thallium	ND	4.7	"	"	"	"	"	"	
<b>Titanium</b>	<b>290</b>	38	mg/L	20	"	"	02-Jun-10	"	
<b>Vanadium</b>	<b>34</b>	4.7	mg/kg	5	"	"	01-Jun-10	"	
<b>Zinc</b>	<b>190</b>	9.4	"	20	"	"	02-Jun-10	"	

DRAFT REPORT

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Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Santa Barbara County Litigation Project  
Project Number: Watsonville  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

**DRAFT: Y2-D2**  
**1001778-04 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**DRAFT: Wet Chemistry by EPA or APHA Standard Methods**

pH	7.24	0.100	pH Units	1	A005394	22-May-10	22-May-10	9045	HoldX
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**DRAFT: Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.8	mg/kg	5	A005439	31-May-10	01-Jun-10	EPA 6020	
Arsenic	7.1	0.95	"	"	"	"	"	"	
Barium	49	0.48	"	"	"	"	"	"	
Beryllium	ND	2.4	"	"	"	"	"	"	
Cadmium	1.5	0.95	"	"	"	"	"	"	
Chromium	48	0.95	"	"	"	"	"	"	
Cobalt	11	0.95	"	"	"	"	"	"	
Copper	46	0.95	"	"	"	"	02-Jun-10	"	
Lead	730	9.5	"	50	"	"	01-Jun-10	"	N-02, N-03
Mercury	0.10	0.098	"	1	A006002	01-Jun-10	01-Jun-10	EPA 7471A	
Molybdenum	ND	0.95	"	5	A005439	31-May-10	01-Jun-10	EPA 6020	
Nickel	38	0.95	"	"	"	"	"	"	
Selenium	ND	4.8	"	"	"	"	"	"	
Silver	ND	0.95	"	"	"	"	"	"	
Thallium	ND	4.8	"	"	"	"	"	"	
Titanium	370	95	mg/L	50	"	"	02-Jun-10	"	
Vanadium	38	4.8	mg/kg	5	"	"	01-Jun-10	"	
Zinc	390	24	"	50	"	"	02-Jun-10	"	

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Project Number: Watsonville  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

**DRAFT: Y3-G2**  
**1001778-05 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**DRAFT: Wet Chemistry by EPA or APHA Standard Methods**

pH	7.41	0.100	pH Units	1	A005394	22-May-10	22-May-10	9045	HoldX
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**DRAFT: Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.6	mg/kg	5	A005439	31-May-10	01-Jun-10	EPA 6020	
Arsenic	5.5	0.93	"	"	"	"	"	"	
Barium	62	0.46	"	"	"	"	"	"	
Beryllium	ND	2.3	"	"	"	"	"	"	
Cadmium	ND	0.93	"	"	"	"	"	"	
Chromium	29	0.93	"	"	"	"	"	"	
Cobalt	12	0.93	"	"	"	"	"	"	
Copper	72	0.93	"	"	"	"	"	"	
Lead	370	3.7	"	20	"	"	02-Jun-10	"	N-02, N-03
Mercury	0.15	0.097	"	1	A006002	01-Jun-10	01-Jun-10	EPA 7471A	
Molybdenum	1.2	0.93	"	5	A005439	31-May-10	01-Jun-10	EPA 6020	
Nickel	29	0.93	"	"	"	"	"	"	
Selenium	ND	4.6	"	"	"	"	"	"	
Silver	ND	0.93	"	"	"	"	"	"	
Thallium	ND	4.6	"	"	"	"	"	"	
Titanium	1300	190	mg/L	100	"	"	02-Jun-10	"	
Vanadium	56	4.6	mg/kg	5	"	"	01-Jun-10	"	
Zinc	300	9.3	"	20	"	"	02-Jun-10	"	

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Project Number: Watsonville  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

**DRAFT: Y3 -H4**  
**1001778-06 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**DRAFT: Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>8.30</b>	0.100	pH Units	1	A005394	22-May-10	22-May-10	9045	HoldX
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**DRAFT: Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.8	mg/kg	5	A005439	31-May-10	01-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>5.7</b>	0.96	"	"	"	"	"	"	
<b>Barium</b>	<b>55</b>	0.48	"	"	"	"	"	"	
Beryllium	ND	2.4	"	"	"	"	"	"	
Cadmium	ND	0.96	"	"	"	"	"	"	
<b>Chromium</b>	<b>42</b>	0.96	"	"	"	"	"	"	
<b>Cobalt</b>	<b>10</b>	0.96	"	"	"	"	"	"	
<b>Copper</b>	<b>35</b>	0.96	"	"	"	"	"	"	
<b>Lead</b>	<b>570</b>	9.6	"	50	"	"	02-Jun-10	"	N-02, N-03
<b>Mercury</b>	<b>0.19</b>	0.095	"	1	A006002	01-Jun-10	01-Jun-10	EPA 7471A	
Molybdenum	ND	0.96	"	5	A005439	31-May-10	01-Jun-10	EPA 6020	
<b>Nickel</b>	<b>51</b>	0.96	"	"	"	"	"	"	
Selenium	ND	4.8	"	"	"	"	"	"	
Silver	ND	0.96	"	"	"	"	"	"	
Thallium	ND	4.8	"	"	"	"	"	"	
<b>Titanium</b>	<b>250</b>	38	mg/L	20	"	"	02-Jun-10	"	
<b>Vanadium</b>	<b>34</b>	4.8	mg/kg	5	"	"	01-Jun-10	"	
<b>Zinc</b>	<b>320</b>	9.6	"	20	"	"	02-Jun-10	"	

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Project Number: Watsonville  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

**DRAFT: Y4-B2**  
**1001778-07 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**DRAFT: Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>8.70</b>	0.100	pH Units	1	A005394	22-May-10	22-May-10	9045	HoldX
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**DRAFT: Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.6	mg/kg	5	A005439	31-May-10	01-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>2.9</b>	0.92	"	"	"	"	"	"	
<b>Barium</b>	<b>59</b>	0.46	"	"	"	"	"	"	
Beryllium	ND	2.3	"	"	"	"	"	"	
Cadmium	ND	0.92	"	"	"	"	"	"	
<b>Chromium</b>	<b>29</b>	0.92	"	"	"	"	"	"	
<b>Cobalt</b>	<b>14</b>	0.92	"	"	"	"	"	"	
<b>Copper</b>	<b>64</b>	0.92	"	"	"	"	"	"	
<b>Lead</b>	<b>100</b>	0.92	"	"	"	"	"	"	N-02, N-03
<b>Mercury</b>	<b>0.099</b>	0.091	"	1	A006002	01-Jun-10	01-Jun-10	EPA 7471A	
<b>Molybdenum</b>	<b>0.99</b>	0.92	"	5	A005439	31-May-10	01-Jun-10	EPA 6020	
<b>Nickel</b>	<b>43</b>	0.92	"	"	"	"	"	"	
Selenium	ND	4.6	"	"	"	"	"	"	
Silver	ND	0.92	"	"	"	"	"	"	
Thallium	ND	4.6	"	"	"	"	"	"	
<b>Titanium</b>	<b>890</b>	92	mg/L	50	"	"	02-Jun-10	"	
<b>Vanadium</b>	<b>58</b>	4.6	mg/kg	5	"	"	01-Jun-10	"	
<b>Zinc</b>	<b>280</b>	9.2	"	20	"	"	02-Jun-10	"	

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Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

**DRAFT: Y4 -C4**  
**1001778-08 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**DRAFT: Wet Chemistry by EPA or APHA Standard Methods**

pH	8.17	0.100	pH Units	1	A005394	22-May-10	22-May-10	9045	HoldX
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**DRAFT: Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.7	mg/kg	5	A005439	31-May-10	01-Jun-10	EPA 6020	
Arsenic	8.6	0.94	"	"	"	"	"	"	
Barium	50	0.47	"	"	"	"	"	"	
Beryllium	ND	2.3	"	"	"	"	"	"	
Cadmium	8.5	0.94	"	"	"	"	"	"	
Chromium	39	0.94	"	"	"	"	"	"	
Cobalt	15	0.94	"	"	"	"	"	"	
Copper	150	3.8	"	20	"	"	02-Jun-10	"	
Lead	850	9.4	"	50	"	"	02-Jun-10	"	N-02, N-03
Mercury	ND	0.099	"	1	A006002	01-Jun-10	01-Jun-10	EPA 7471A	
Molybdenum	3.7	0.94	"	5	A005439	31-May-10	01-Jun-10	EPA 6020	
Nickel	45	0.94	"	"	"	"	"	"	
Selenium	ND	4.7	"	"	"	"	"	"	
Silver	ND	0.94	"	"	"	"	"	"	
Thallium	ND	4.7	"	"	"	"	"	"	
Titanium	390	38	mg/L	20	"	"	02-Jun-10	"	
Vanadium	49	4.7	mg/kg	5	"	"	01-Jun-10	"	
Zinc	650	23	"	50	"	"	02-Jun-10	"	

DRAFT REPORT

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Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

**DRAFT: Y5-D2**  
**1001778-09 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**DRAFT: Wet Chemistry by EPA or APHA Standard Methods**

pH	8.44	0.100	pH Units	1	A005394	22-May-10	22-May-10	9045	HoldX
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**DRAFT: Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	5.0	mg/kg	5	A005439	31-May-10	01-Jun-10	EPA 6020	
Arsenic	5.8	1.0	"	"	"	"	"	"	
Barium	63	0.50	"	"	"	"	"	"	
Beryllium	ND	2.5	"	"	"	"	"	"	
Cadmium	1.3	1.0	"	"	"	"	"	"	
Chromium	40	1.0	"	"	"	"	"	"	
Cobalt	10	1.0	"	"	"	"	"	"	
Copper	57	1.0	"	"	"	"	"	"	
Lead	250	4.0	"	20	"	"	02-Jun-10	"	N-02, N-03
Mercury	0.26	0.093	"	1	A006002	01-Jun-10	01-Jun-10	EPA 7471A	
Molybdenum	ND	1.0	"	5	A005439	31-May-10	01-Jun-10	EPA 6020	
Nickel	44	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	1.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Titanium	300	40	mg/L	20	"	"	02-Jun-10	"	
Vanadium	36	5.0	mg/kg	5	"	"	01-Jun-10	"	
Zinc	380	10	"	20	"	"	02-Jun-10	"	

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**Reported:**  
02-Jun-10 17:03

**DRAFT: Y5-E2**  
**1001778-10 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**DRAFT: Wet Chemistry by EPA or APHA Standard Methods**

pH	8.35	0.100	pH Units	1	A005394	22-May-10	22-May-10	9045	HoldX
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**DRAFT: Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.6	mg/kg	5	A005439	31-May-10	01-Jun-10	EPA 6020	
Arsenic	4.7	0.91	"	"	"	"	"	"	
Barium	75	0.46	"	"	"	"	"	"	
Beryllium	ND	2.3	"	"	"	"	"	"	
Cadmium	10	0.91	"	"	"	"	"	"	N-02
Chromium	38	0.91	"	"	"	"	"	"	
Cobalt	13	0.91	"	"	"	"	"	"	
Copper	73	0.91	"	"	"	"	"	"	
Lead	340	3.6	"	20	"	"	02-Jun-10	"	N-02, N-03
Mercury	0.47	0.084	"	1	A006002	01-Jun-10	01-Jun-10	EPA 7471A	
Molybdenum	ND	0.91	"	5	A005439	31-May-10	01-Jun-10	EPA 6020	
Nickel	45	0.91	"	"	"	"	"	"	
Selenium	ND	4.6	"	"	"	"	"	"	
Silver	ND	0.91	"	"	"	"	"	"	
Thallium	ND	4.6	"	"	"	"	"	"	
Titanium	300	36	mg/L	20	"	"	02-Jun-10	"	
Vanadium	58	4.6	mg/kg	5	"	"	01-Jun-10	"	
Zinc	460	9.1	"	20	"	"	02-Jun-10	"	

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**Reported:**  
02-Jun-10 17:03

**DRAFT: Y6-C2**  
**1001778-11 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**DRAFT: Wet Chemistry by EPA or APHA Standard Methods**

pH	8.35	0.100	pH Units	1	A005394	22-May-10	22-May-10	9045	HoldX
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**DRAFT: Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	5.0	mg/kg	5	A005439	31-May-10	01-Jun-10	EPA 6020	
Arsenic	6.2	1.0	"	"	"	"	"	"	
Barium	52	0.50	"	"	"	"	"	"	
Beryllium	ND	2.5	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	22	1.0	"	"	"	"	"	"	
Cobalt	12	1.0	"	"	"	"	"	"	
Copper	80	1.0	"	"	"	"	"	"	
Lead	170	4.0	"	20	"	"	02-Jun-10	"	N-02
Mercury	1.2	0.099	"	1	A006002	01-Jun-10	01-Jun-10	EPA 7471A	
Molybdenum	ND	1.0	"	5	A005439	31-May-10	01-Jun-10	EPA 6020	
Nickel	18	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	1.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
Titanium	400	40	mg/L	20	"	"	02-Jun-10	"	
Vanadium	63	5.0	mg/kg	5	"	"	01-Jun-10	"	
Zinc	360	10	"	20	"	"	02-Jun-10	"	

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Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

**DRAFT: Y7-B2**  
**1001778-12 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**DRAFT: Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>7.12</b>	0.100	pH Units	1	A005394	22-May-10	22-May-10	9045	HoldX
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**DRAFT: Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.7	mg/kg	5	A005439	31-May-10	01-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>5.7</b>	0.93	"	"	"	"	"	"	
<b>Barium</b>	<b>74</b>	0.47	"	"	"	"	"	"	
Beryllium	ND	2.3	"	"	"	"	"	"	
Cadmium	ND	0.93	"	"	"	"	"	"	
<b>Chromium</b>	<b>49</b>	0.93	"	"	"	"	"	"	
<b>Cobalt</b>	<b>9.9</b>	0.93	"	"	"	"	"	"	
<b>Copper</b>	<b>23</b>	0.93	"	"	"	"	"	"	
<b>Lead</b>	<b>86</b>	0.93	"	"	"	"	"	"	N-02, N-03
Mercury	ND	0.093	"	1	A006002	01-Jun-10	01-Jun-10	EPA 7471A	
Molybdenum	ND	0.93	"	5	A005439	31-May-10	01-Jun-10	EPA 6020	
<b>Nickel</b>	<b>40</b>	0.93	"	"	"	"	"	"	
Selenium	ND	4.7	"	"	"	"	"	"	
Silver	ND	0.93	"	"	"	"	"	"	
Thallium	ND	4.7	"	"	"	"	"	"	
<b>Titanium</b>	<b>370</b>	37	mg/L	20	"	"	02-Jun-10	"	
<b>Vanadium</b>	<b>37</b>	4.7	mg/kg	5	"	"	01-Jun-10	"	
<b>Zinc</b>	<b>140</b>	9.3	"	20	"	"	02-Jun-10	"	

DRAFT REPORT

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Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Santa Barbara County Litigation Project  
Project Number: Watsonville  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

**DRAFT: Y8-B2**  
**1001778-13 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**DRAFT: Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>7.38</b>	0.100	pH Units	1	A005394	22-May-10	22-May-10	9045	HoldX
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**DRAFT: Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	5.0	mg/kg	5	A005439	31-May-10	01-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>7.0</b>	1.0	"	"	"	"	"	"	
<b>Barium</b>	<b>69</b>	0.50	"	"	"	"	"	"	
Beryllium	ND	2.5	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>31</b>	1.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>8.0</b>	1.0	"	"	"	"	"	"	
<b>Copper</b>	<b>110</b>	1.0	"	"	"	"	"	"	
<b>Lead</b>	<b>170</b>	4.0	"	20	"	"	02-Jun-10	"	N-02, N-03
Mercury	ND	0.098	"	1	A006002	01-Jun-10	01-Jun-10	EPA 7471A	
Molybdenum	ND	1.0	"	5	A005439	31-May-10	01-Jun-10	EPA 6020	
<b>Nickel</b>	<b>28</b>	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	1.0	"	"	"	"	"	"	
Thallium	ND	5.0	"	"	"	"	"	"	
<b>Titanium</b>	<b>290</b>	40	mg/L	20	"	"	02-Jun-10	"	
<b>Vanadium</b>	<b>34</b>	5.0	mg/kg	5	"	"	01-Jun-10	"	
<b>Zinc</b>	<b>320</b>	10	"	20	"	"	02-Jun-10	"	

DRAFT REPORT

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Project Number: Watsonville  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

**DRAFT: Y9-C6**  
**1001778-14 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**DRAFT: Wet Chemistry by EPA or APHA Standard Methods**

pH	8.45	0.100	pH Units	1	A005394	22-May-10	22-May-10	9045	HoldX
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**DRAFT: Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.5	mg/kg	5	A005439	31-May-10	01-Jun-10	EPA 6020	
Arsenic	8.7	0.89	"	"	"	"	"	"	
Barium	93	0.45	"	"	"	"	"	"	
Beryllium	ND	2.2	"	"	"	"	"	"	
Cadmium	1.2	0.89	"	"	"	"	"	"	
Chromium	46	0.89	"	"	"	"	"	"	
Cobalt	12	0.89	"	"	"	"	"	"	
Copper	42	0.89	"	"	"	"	"	"	
Lead	310	3.6	"	20	"	"	02-Jun-10	"	N-02, N-03
Mercury	0.24	0.075	"	1	A006002	01-Jun-10	01-Jun-10	EPA 7471A	
Molybdenum	ND	0.89	"	5	A005439	31-May-10	01-Jun-10	EPA 6020	
Nickel	61	0.89	"	"	"	"	"	"	
Selenium	ND	4.5	"	"	"	"	"	"	
Silver	ND	0.89	"	"	"	"	"	"	
Thallium	ND	4.5	"	"	"	"	"	"	
Titanium	180	36	mg/L	20	"	"	02-Jun-10	"	
Vanadium	33	4.5	mg/kg	5	"	"	01-Jun-10	"	
Zinc	340	8.9	"	20	"	"	02-Jun-10	"	

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Project Number: Watsonville  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

**DRAFT: Y10-B4**  
**1001778-15 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**DRAFT: Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>9.00</b>	0.100	pH Units	1	A005394	22-May-10	22-May-10	9045	
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**DRAFT: Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.7	mg/kg	5	A005439	31-May-10	01-Jun-10	EPA 6020	
<b>Arsenic</b>	<b>5.1</b>	0.94	"	"	"	"	"	"	
<b>Barium</b>	<b>53</b>	0.47	"	"	"	"	"	"	
Beryllium	ND	2.4	"	"	"	"	"	"	
Cadmium	ND	0.94	"	"	"	"	"	"	
<b>Chromium</b>	<b>36</b>	0.94	"	"	"	"	"	"	
<b>Cobalt</b>	<b>9.8</b>	0.94	"	"	"	"	"	"	
<b>Copper</b>	<b>41</b>	0.94	"	"	"	"	02-Jun-10	"	
<b>Lead</b>	<b>140</b>	1.9	"	10	"	"	01-Jun-10	"	N-02, N-03
<b>Mercury</b>	<b>0.22</b>	0.078	"	1	A006002	01-Jun-10	01-Jun-10	EPA 7471A	
Molybdenum	ND	0.94	"	5	A005439	31-May-10	01-Jun-10	EPA 6020	
<b>Nickel</b>	<b>32</b>	0.94	"	"	"	"	"	"	
Selenium	ND	4.7	"	"	"	"	"	"	
Silver	ND	0.94	"	"	"	"	"	"	
Thallium	ND	4.7	"	"	"	"	"	"	
<b>Titanium</b>	<b>190</b>	19	mg/L	10	"	"	02-Jun-10	"	
<b>Vanadium</b>	<b>41</b>	4.7	mg/kg	5	"	"	01-Jun-10	"	
<b>Zinc</b>	<b>150</b>	4.7	"	10	"	"	02-Jun-10	"	

DRAFT REPORT

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Project Number: Watsonville  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

**DRAFT: Y11-B2**  
**1001778-16 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**DRAFT: Wet Chemistry by EPA or APHA Standard Methods**

pH	9.16	0.100	pH Units	1	A005394	22-May-10	22-May-10	9045	
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**DRAFT: Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	4.5	mg/kg	5	A005439	31-May-10	01-Jun-10	EPA 6020	
Arsenic	3.1	0.89	"	"	"	"	"	"	
Barium	45	0.45	"	"	"	"	"	"	
Beryllium	ND	2.2	"	"	"	"	"	"	
Cadmium	ND	0.89	"	"	"	"	"	"	
Chromium	34	0.89	"	"	"	"	"	"	
Cobalt	9.7	0.89	"	"	"	"	"	"	
Copper	29	0.89	"	"	"	"	"	"	
Lead	410	3.6	"	20	"	"	02-Jun-10	"	N-02, N-03
Mercury	0.59	0.087	"	1	A006002	01-Jun-10	01-Jun-10	EPA 7471A	
Molybdenum	ND	0.89	"	5	A005439	31-May-10	01-Jun-10	EPA 6020	
Nickel	35	0.89	"	"	"	"	"	"	
Selenium	ND	4.5	"	"	"	"	"	"	
Silver	ND	0.89	"	"	"	"	"	"	
Thallium	ND	4.5	"	"	"	"	"	"	
Titanium	290	36	mg/L	20	"	"	02-Jun-10	"	
Vanadium	38	4.5	mg/kg	5	"	"	01-Jun-10	"	
Zinc	110	2.2	"	"	"	"	"	"	

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Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

**DRAFT: Wet Chemistry by EPA or APHA Standard Methods - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch A005394 - EPA 9045 pH Prep**

<b>LCS (A005394-BS1)</b>				Prepared & Analyzed: 22-May-10						
pH	4.00	0.100	pH Units	4.00		100	90-110		10	
<b>LCS (A005394-BS2)</b>				Prepared & Analyzed: 22-May-10						
pH	7.02	0.100	pH Units	7.00		100	90-110		10	
<b>LCS (A005394-BS3)</b>				Prepared & Analyzed: 22-May-10						
pH	9.98	0.100	pH Units	10.0		99.8	90-110		10	
<b>Duplicate (A005394-DUP1)</b>				<b>Source: 1001770-01</b>		Prepared & Analyzed: 22-May-10				
pH	8.00	0.100	pH Units		8.09			1.12	10	

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Project Number: Watsonville  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

**DRAFT: Total Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch A005439 - EPA 3050B**

**Blank (A005439-BLK1)**

Prepared: 31-May-10 Analyzed: 01-Jun-10

Titanium	ND	2.0	mg/L
Antimony	ND	1.0	mg/kg
Arsenic	ND	0.20	"
Barium	ND	0.10	"
Beryllium	ND	0.50	"
Cadmium	ND	0.20	"
Chromium	ND	0.20	"
Cobalt	ND	0.20	"
Copper	ND	0.20	"
Lead	ND	0.20	"
Molybdenum	ND	0.20	"
Nickel	ND	0.20	"
Selenium	ND	1.0	"
Silver	ND	0.20	"
Thallium	ND	1.0	"
Vanadium	ND	1.0	"
Zinc	ND	0.50	"

**LCS (A005439-BS1)**

Prepared: 31-May-10 Analyzed: 01-Jun-10

Titanium	14.4	2.0	mg/L	15.0	95.9	85-115	20
Antimony	15.1	1.0	mg/kg	15.0	101	85-115	20
Arsenic	15.4	0.20	"	15.0	103	85-115	20
Barium	14.9	0.10	"	15.0	99.0	85-115	20
Beryllium	15.5	0.50	"	15.0	103	85-115	20
Cadmium	15.2	0.20	"	15.0	101	85-115	20
Chromium	15.1	0.20	"	15.0	101	85-115	20
Cobalt	15.4	0.20	"	15.0	103	85-115	20
Copper	15.4	0.20	"	15.0	103	85-115	20
Lead	14.9	0.20	"	15.0	99.3	85-115	20
Molybdenum	14.6	0.20	"	15.0	97.5	85-115	20
Nickel	15.3	0.20	"	15.0	102	85-115	20
Selenium	15.3	1.0	"	15.0	102	85-115	20
Silver	15.6	0.20	"	15.0	104	85-115	20
Thallium	14.3	1.0	"	15.0	95.1	85-115	20
Vanadium	15.2	1.0	"	15.0	101	85-115	20
Zinc	15.0	0.50	"	15.0	100	85-115	20

DRAFT REPORT

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Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

**DRAFT: Total Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch A005439 - EPA 3050B**

**LCS Dup (A005439-BSD1)**

Prepared: 31-May-10 Analyzed: 01-Jun-10

Titanium	14.2	2.0	mg/L	15.0		94.6	85-115	1.39	20	
Antimony	15.4	1.0	mg/kg	15.0		103	85-115	1.64	20	
Arsenic	15.9	0.20	"	15.0		106	85-115	2.99	20	
Barium	15.2	0.10	"	15.0		101	85-115	2.41	20	
Beryllium	15.0	0.50	"	15.0		100	85-115	2.91	20	
Cadmium	15.4	0.20	"	15.0		103	85-115	1.64	20	
Chromium	15.2	0.20	"	15.0		101	85-115	0.617	20	
Cobalt	15.4	0.20	"	15.0		103	85-115	0.403	20	
Copper	15.4	0.20	"	15.0		103	85-115	0.340	20	
Lead	15.2	0.20	"	15.0		101	85-115	1.88	20	
Molybdenum	15.0	0.20	"	15.0		99.8	85-115	2.31	20	
Nickel	15.4	0.20	"	15.0		103	85-115	0.795	20	
Selenium	15.8	1.0	"	15.0		105	85-115	3.08	20	
Silver	15.9	0.20	"	15.0		106	85-115	1.99	20	
Thallium	14.9	1.0	"	15.0		99.4	85-115	4.40	20	
Vanadium	15.2	1.0	"	15.0		101	85-115	0.0672	20	
Zinc	15.3	0.50	"	15.0		102	85-115	1.67	20	

**Duplicate (A005439-DUP1)**

Source: 1001778-01

Prepared: 31-May-10 Analyzed: 02-Jun-10

Titanium	260	38	mg/L		275			5.78	20	
Antimony	ND	4.7	mg/kg		ND				20	
Arsenic	16.9	0.94	"		17.8			5.51	20	
Barium	174	1.9	"		182			4.70	20	
Beryllium	ND	2.3	"		ND				20	
Cadmium	1.51	0.94	"		1.64			8.63	20	
Chromium	52.1	0.94	"		61.9			17.2	20	
Cobalt	12.4	0.94	"		13.0			4.48	20	
Copper	89.4	0.94	"		93.8			4.80	20	
Lead	722	9.4	"		748			3.56	20	
Molybdenum	ND	0.94	"		0.515				20	
Nickel	56.8	0.94	"		59.6			4.97	20	
Selenium	ND	4.7	"		ND				20	
Silver	0.885	0.94	"		0.954			7.51	20	
Thallium	ND	4.7	"		ND				20	
Vanadium	36.6	19	"		36.5			0.437	20	
Zinc	643	23	"		702			8.83	20	

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Project Number: Watsonville  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

### DRAFT: Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch A005439 - EPA 3050B

Matrix Spike (A005439-MS1)			Source: 1001778-01		Prepared: 31-May-10 Analyzed: 02-Jun-10					
Titanium	583	95	mg/L	284	275	108	75-125		20	
Antimony	19.0	19	mg/kg	284	ND	6.67	0-88		20	
Arsenic	293	3.8	"	284	17.8	96.8	73-124		20	
Barium	246	1.9	"	284	182	22.5	18-166		20	
Beryllium	296	9.5	"	284	ND	104	76-132		20	
Cadmium	288	3.8	"	284	1.64	101	82-118		20	
Chromium	357	3.8	"	284	61.9	104	58-139		20	
Cobalt	311	3.8	"	284	13.0	105	85-114		20	
Copper	394	3.8	"	284	93.8	106	64-138		20	
Lead	959	9.5	"	284	748	74.4	61-138		20	
Molybdenum	271	3.8	"	284	0.515	95.2	67-112		20	
Nickel	355	3.8	"	284	59.6	104	68-132		20	
Selenium	273	19	"	284	ND	96.2	66-132		20	
Silver	287	3.8	"	284	0.954	101	18-153		20	
Thallium	272	19	"	284	ND	95.9	78-114		20	
Vanadium	333	19	"	284	36.5	104	80-119		20	
Zinc	986	24	"	284	702	99.9	40-153		20	

Matrix Spike Dup (A005439-MSD1)			Source: 1001778-01		Prepared: 31-May-10 Analyzed: 01-Jun-10					
Titanium	487	37	mg/L	275	275	77.0	75-125	33.8	20	QR-02
Antimony	17.2	18	mg/kg	275	ND	6.23	0-88	6.83	20	QR-02
Arsenic	290	3.7	"	275	17.8	98.8	73-124	1.99	20	
Barium	232	1.8	"	275	182	18.1	18-166	22.0	20	QM-08
Beryllium	262	9.2	"	275	ND	95.3	76-132	8.93	20	
Cadmium	283	3.7	"	275	1.64	102	82-118	1.39	20	
Chromium	333	3.7	"	275	61.9	98.5	58-139	5.23	20	
Cobalt	292	3.7	"	275	13.0	101	85-114	3.55	20	
Copper	358	3.7	"	275	93.8	95.9	64-138	9.55	20	
Lead	917	9.2	"	275	748	61.5	61-138	19.0	20	
Molybdenum	267	3.7	"	275	0.515	96.8	67-112	1.63	20	
Nickel	340	3.7	"	275	59.6	102	68-132	2.18	20	
Selenium	256	18	"	275	ND	93.0	66-132	3.41	20	
Silver	252	3.7	"	275	0.954	91.0	18-153	10.0	20	
Thallium	267	18	"	275	ND	97.2	78-114	1.33	20	
Vanadium	304	18	"	275	36.5	97.4	80-119	7.08	20	
Zinc	919	23	"	275	702	78.7	40-153	23.7	20	QR-02

DRAFT REPORT

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Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Santa Barbara County Litigation Project  
Project Number: Watsonville  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 17:03

**DRAFT: Total Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch A006002 - EPA 7471A Prep**

<b>Blank (A006002-BLK1)</b>		Prepared & Analyzed: 01-Jun-10								
Mercury	ND	0.10	mg/kg							
<b>LCS (A006002-BS1)</b>		Prepared & Analyzed: 01-Jun-10								
Mercury	1.73	0.10	mg/kg	1.67		104	85-115		20	
<b>LCS Dup (A006002-BSD1)</b>		Prepared & Analyzed: 01-Jun-10								
Mercury	1.75	0.10	mg/kg	1.67		105	85-115	0.899	20	
<b>Duplicate (A006002-DUP1)</b>		<b>Source: 1001778-01</b>		Prepared & Analyzed: 01-Jun-10						
Mercury	0.228	0.092	mg/kg		0.240			5.46	20	
<b>Matrix Spike (A006002-MS1)</b>		<b>Source: 1001778-01</b>		Prepared & Analyzed: 01-Jun-10						
Mercury	1.78	0.091	mg/kg	1.52	0.240	102	75-125		20	
<b>Matrix Spike Dup (A006002-MSD1)</b>		<b>Source: 1001778-01</b>		Prepared & Analyzed: 01-Jun-10						
Mercury	1.77	0.088	mg/kg	1.47	0.240	103	75-125	1.88	20	

DRAFT REPORT

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**Reported:**  
02-Jun-10 17:03

### Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-08	The spike recovery was outside acceptance limits for the MS and/or MSD. The QC Batch was accepted based on LCS/LCSD percent recoveries and RPD values.
N-03	Analyte concentration above 20 X TCLP.
N-02	Analyte concentration below TTLC but above 10 X STLC.
HoldX	Sample holding time expired.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

DRAFT REPORT

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# Oilfield Environmental and Compliance

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## CHAIN OF CUSTODY

Highway 33, McKittrick CA

phone: (661) 762-9143

Page 1 of 2

Company: <b>WADE ALLMON</b>					Project Name/#:															
Address: <b>1309 Morrison Ave</b>					Site: <b>Watsonville</b>															
City/State/ZIP: <b>Santa Barbara CA 93103</b>					Analysis Requested								Special Instructions:							
Phone: <b>805 455 9041</b>		Fax:		E-mail:		Cadmium	Titanium	Pb												
Report To: <b>WADE ALLMON</b>		Sampler:																		
Send report via- FAX- <input type="checkbox"/>		PDF- <input checked="" type="checkbox"/>		Colt/LUFT EDF- <input type="checkbox"/>					EDD- <input type="checkbox"/>											
Turnaround Time		10 Days- <input checked="" type="checkbox"/>		5 Days- <input type="checkbox"/>					72 hr- <input type="checkbox"/>		48 hr- <input type="checkbox"/>		24 hr- <input type="checkbox"/>		ASAP- <input type="checkbox"/>					
OEC Sample ID	Date/Time Sampled	Matrix	# of Cont.	Client Sample ID																
1001778-1A,B	5/20/10 1748	SOIL	2	Y1-B8																
-2A,B	1422		2	Y1-C6																
-3A	1612		1	Y2-C2																
-4A,B	1618		2	Y2-D2																
-5A	1910		1	Y3-G2																
-6A,B	1912		2	Y3-H4																
-7A	5/21/10 1003		1	Y4-B2																
-8A,B	1010		2	Y4-C4																
-9A	1143		1	Y5-D2																
-10A	1147		1	Y5-E2																
-11A	1252		1	Y6-C2																
-12A	1355		1	Y7-B2																
Relinquished By: <b>WADE ALLMON</b>					Date: <b>5/22/10</b>		Time: <b>1606</b>		Comments/PO#:											
Received By: <b>[Signature]</b>					Date: <b>5/22/10</b>		Time: <b>1700</b>													
Relinquished By:					Date:		Time:													
Received By:					Date:		Time:													
Relinquished By:					Date:		Time:													
Received By:					Date:		Time:													



[illegible]









Wade Allmon  
Wade Allmon  
1309 Morrison Ave.  
Santa Barbara, CA 93103

02 June 2010

RE: Santa Barbara County Litigation Project

Work Order: 1001779

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on 22-May-10 17:00 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in blue ink, appearing to read "Lisa Race", is written over a light blue horizontal line.

Lisa Race

Laboratory Manager





Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Santa Barbara County Litigation Project  
Project Number: Santa Barbara County Litigation Project  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 08:40

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
X1	1001779-01	Solid	19-May-10 11:20	22-May-10 17:00
X2	1001779-02	Solid	19-May-10 12:10	22-May-10 17:00
X3	1001779-03	Solid	19-May-10 12:25	22-May-10 17:00
X4	1001779-04	Solid	19-May-10 12:45	22-May-10 17:00
X5	1001779-05	Solid	19-May-10 13:00	22-May-10 17:00
X6	1001779-06	Solid	19-May-10 13:40	22-May-10 17:00
X7	1001779-07	Solid	19-May-10 14:30	22-May-10 17:00
X8	1001779-08	Solid	19-May-10 14:50	22-May-10 17:00
X9	1001779-09	Solid	19-May-10 15:40	22-May-10 17:00
X10	1001779-10	Solid	19-May-10 15:55	22-May-10 17:00
X11	1001779-11	Solid	19-May-10 16:10	22-May-10 17:00
X12	1001779-12	Solid	19-May-10 16:20	22-May-10 17:00
X13	1001779-13	Solid	19-May-10 16:40	22-May-10 17:00
X14	1001779-14	Solid	19-May-10 17:20	22-May-10 17:00
X15	1001779-15	Solid	19-May-10 17:40	22-May-10 17:00
X16	1001779-16	Solid	19-May-10 18:10	22-May-10 17:00

Oilfield Environmental and Compliance

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1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Santa Barbara County Litigation Project  
Project Number: Santa Barbara County Litigation Project  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 08:40

**X1**  
**1001779-01 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

pH	7.09	0.100	pH Units	1	A006008	23-May-10	23-May-10	9045	HoldX
----	------	-------	----------	---	---------	-----------	-----------	------	-------

**Total Metals by EPA 6000/7000 Series Methods**

Arsenic	3.6	0.99	mg/kg	5	A005440	31-May-10	01-Jun-10	EPA 6020	
Lead	19	0.99	"	"	"	"	"	"	

**X2**  
**1001779-02 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

pH	5.54	0.100	pH Units	1	A006008	23-May-10	23-May-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Arsenic	3.7	0.90	mg/kg	5	A005440	31-May-10	01-Jun-10	EPA 6020	
Lead	99	0.90	"	"	"	"	"	"	N-02

**X3**  
**1001779-03 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

pH	6.45	0.100	pH Units	1	A006008	23-May-10	23-May-10	9045	HoldX
----	------	-------	----------	---	---------	-----------	-----------	------	-------

**Total Metals by EPA 6000/7000 Series Methods**

Arsenic	2.6	0.97	mg/kg	5	A005440	31-May-10	01-Jun-10	EPA 6020	
Lead	29	0.97	"	"	"	"	"	"	

Oilfield Environmental and Compliance

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Project Number: Santa Barbara County Litigation Project  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 08:40

**X4**  
**1001779-04 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

pH	5.90	0.100	pH Units	1	A006008	23-May-10	23-May-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Arsenic	2.3	0.91	mg/kg	5	A005440	31-May-10	01-Jun-10	EPA 6020	
Lead	26	0.91	"	"	"	"	"	"	

**X5**  
**1001779-05 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

pH	6.17	0.100	pH Units	1	A006008	23-May-10	23-May-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Arsenic	2.5	0.93	mg/kg	5	A005440	31-May-10	01-Jun-10	EPA 6020	
Lead	7.0	0.93	"	"	"	"	"	"	

**X6**  
**1001779-06 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

pH	5.54	0.100	pH Units	1	A006008	23-May-10	23-May-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Arsenic	4.3	0.98	mg/kg	5	A005440	31-May-10	01-Jun-10	EPA 6020	
Lead	45	0.98	"	"	"	"	"	"	





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**Reported:**  
02-Jun-10 08:40

**X7**  
**1001779-07 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

pH	6.95	0.100	pH Units	1	A006008	23-May-10	23-May-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Arsenic	23	0.95	mg/kg	5	A005440	31-May-10	01-Jun-10	EPA 6020	
Lead	85	0.95	"	"	"	"	"	"	N-02

**X8**  
**1001779-08 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

pH	7.15	0.100	pH Units	1	A006008	23-May-10	23-May-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Arsenic	3.2	0.96	mg/kg	5	A005440	31-May-10	01-Jun-10	EPA 6020	
Lead	28	0.96	"	"	"	"	"	"	

**X9**  
**1001779-09 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

pH	6.18	0.100	pH Units	1	A006008	23-May-10	23-May-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Arsenic	3.2	0.97	mg/kg	5	A005440	31-May-10	01-Jun-10	EPA 6020	
Lead	16	0.97	"	"	"	"	"	"	





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**Reported:**  
02-Jun-10 08:40

**X10**  
**1001779-10 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

pH	7.23	0.100	pH Units	1	A006008	23-May-10	23-May-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Arsenic	17	0.85	mg/kg	5	A005440	31-May-10	01-Jun-10	EPA 6020	
Lead	63	0.85	"	"	"	"	"	"	N-02

**X11**  
**1001779-11 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

pH	7.69	0.100	pH Units	1	A006008	23-May-10	23-May-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Arsenic	4.4	1.0	mg/kg	5	A005440	31-May-10	01-Jun-10	EPA 6020	
Lead	11	1.0	"	"	"	"	"	"	

**X12**  
**1001779-12 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

pH	7.60	0.100	pH Units	1	A006008	23-May-10	23-May-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Arsenic	7.4	0.94	mg/kg	5	A005440	31-May-10	01-Jun-10	EPA 6020	
Lead	14	0.94	"	"	"	"	"	"	





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**Reported:**  
02-Jun-10 08:40

**X13**  
**1001779-13 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

pH	7.63	0.100	pH Units	1	A006008	23-May-10	23-May-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Arsenic	12	0.90	mg/kg	5	A005440	31-May-10	01-Jun-10	EPA 6020	
Lead	51	0.90	"	"	"	"	"	"	N-02

**X14**  
**1001779-14 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

pH	5.57	0.100	pH Units	1	A006008	23-May-10	23-May-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Arsenic	1.9	0.90	mg/kg	5	A005440	31-May-10	01-Jun-10	EPA 6020	
Lead	9.5	0.90	"	"	"	"	"	"	

**X15**  
**1001779-15 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

pH	8.38	0.100	pH Units	1	A006008	23-May-10	23-May-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

Arsenic	5.0	0.97	mg/kg	5	A005440	31-May-10	01-Jun-10	EPA 6020	
Lead	9.5	0.97	"	"	"	"	"	"	

Oilfield Environmental and Compliance

307 Roemer Way, Suite 300, Santa Maria, CA 93454

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Santa Barbara CA, 93103

Project: Santa Barbara County Litigation Project  
Project Number: Santa Barbara County Litigation Project  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 08:40

**X16**  
**1001779-16 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Wet Chemistry by EPA or APHA Standard Methods**

<b>pH</b>	<b>6.76</b>	0.100	pH Units	1	A006008	23-May-10	23-May-10	9045	HoldX
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**Total Metals by EPA 6000/7000 Series Methods**

<b>Arsenic</b>	<b>4.6</b>	0.96	mg/kg	5	A005440	31-May-10	01-Jun-10	EPA 6020	
<b>Lead</b>	<b>8.2</b>	0.96	"	"	"	"	"	"	





Oilfield Environmental and Compliance, INC.

Wade Allmon  
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Santa Barbara CA, 93103

Project: Santa Barbara County Litigation Project  
Project Number: Santa Barbara County Litigation Project  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 08:40

### Wet Chemistry by EPA or APHA Standard Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch A006008 - EPA 9045 pH Prep

<b>LCS (A006008-BS1)</b>				Prepared & Analyzed: 23-May-10						
pH	4.06	0.100	pH Units	4.00		102	90-110		10	
<b>LCS (A006008-BS2)</b>				Prepared & Analyzed: 23-May-10						
pH	7.08	0.100	pH Units	7.00		101	90-110		10	
<b>LCS (A006008-BS3)</b>				Prepared & Analyzed: 23-May-10						
pH	9.98	0.100	pH Units	10.0		99.8	90-110		10	
<b>Duplicate (A006008-DUP1)</b>				<b>Source: 1001779-01</b>		Prepared & Analyzed: 23-May-10				
pH	7.12	0.100	pH Units		7.09			0.422	10	

Oilfield Environmental and Compliance

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**Reported:**  
02-Jun-10 08:40

### Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch A005440 - EPA 3050B

##### Blank (A005440-BLK1)

Prepared: 31-May-10 Analyzed: 01-Jun-10

Arsenic	ND	0.20	mg/kg							
Lead	ND	0.20	"							

##### LCS (A005440-BS1)

Prepared: 31-May-10 Analyzed: 01-Jun-10

Arsenic	16.3	0.20	mg/kg	15.0		108	85-115		20	
Lead	15.6	0.20	"	15.0		104	85-115		20	

##### LCS Dup (A005440-BSD1)

Prepared: 31-May-10 Analyzed: 01-Jun-10

Arsenic	16.4	0.20	mg/kg	15.0		109	85-115	0.904	20	
Lead	15.4	0.20	"	15.0		102	85-115	1.25	20	

##### Duplicate (A005440-DUP1)

Source: 1001779-01

Prepared: 31-May-10 Analyzed: 01-Jun-10

Arsenic	3.89	0.95	mg/kg		3.59			8.11	20	
Lead	18.8	0.95	"		18.9			0.233	20	

##### Matrix Spike (A005440-MS1)

Source: 1001779-01

Prepared: 31-May-10 Analyzed: 01-Jun-10

Arsenic	256	3.5	mg/kg	262	3.59	96.2	73-124		20	
Lead	279	3.5	"	262	18.9	99.4	61-138		20	

##### Matrix Spike Dup (A005440-MSD1)

Source: 1001779-01

Prepared: 31-May-10 Analyzed: 01-Jun-10

Arsenic	272	3.7	mg/kg	280	3.59	96.0	73-124	0.263	20	
Lead	295	3.7	"	280	18.9	98.6	61-138	0.746	20	

Oilfield Environmental and Compliance

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.

307 Roemer Way, Suite 300, Santa Maria, CA 93454

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Oilfield Environmental and Compliance, INC.

Wade Allmon  
1309 Morrison Ave.  
Santa Barbara CA, 93103

Project: Santa Barbara County Litigation Project  
Project Number: Santa Barbara County Litigation Project  
Project Manager: Wade Allmon

**Reported:**  
02-Jun-10 08:40

### Notes and Definitions

N-02      Analyte concentration below TTLC but above 10 X STLC.  
HoldX      Sample holding time expired.  
DET      Analyte DETECTED  
ND      Analyte NOT DETECTED at or above the reporting limit  
NR      Not Reported  
dry      Sample results reported on a dry weight basis  
RPD      Relative Percent Difference





# Oilfield Environmental and Compliance

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## CHAIN OF CUSTODY

Highway 33, McKittrick CA

phone: (661) 762-9143

Page 1 of 2

Company: <u>WADE ALLMON</u>					Project Name/#:												
Address: <u>1309 Morrison Ave.</u>					Site: <u>WATSONVILLE</u>												
City/State/ZIP: <u>Santa Barbara CA 93103</u>					Analysis Requested								Special Instructions:				
Phone: <u>805 455 5041</u> Fax: E-mail:																	
Report To: <u>WADE ALLMON</u> Sampler: <u>WADE ALLMON</u>																	
Send report via- FAX- <input type="checkbox"/> PDF- <input checked="" type="checkbox"/> Coll/LUFT EDF- <input type="checkbox"/> EDD- <input type="checkbox"/>																	
Turnaround Time 10 Days- <input checked="" type="checkbox"/> 5 Days- <input type="checkbox"/> 72 hr- <input type="checkbox"/> 48 hr- <input type="checkbox"/> 24 hr- <input type="checkbox"/> ASAP- <input type="checkbox"/>																	
OEC Sample ID	Date/Time Sampled	Matrix	# of Cont.	Client Sample ID	LEAD	ARSENIC	Pb										
<u>1001779-1A</u>	<u>5/19/10 1120</u>	<u>soil</u>	<u>1</u>	<u>X1</u>													
<u>-2A</u>	<u>1210</u>			<u>X2</u>													
<u>-3A</u>	<u>1235</u>			<u>X3</u>													
<u>-4A</u>	<u>1245</u>			<u>X4</u>													
<u>-5A</u>	<u>1300</u>			<u>X5</u>													
<u>-6A</u>	<u>1340</u>			<u>X6</u>													
<u>-7A</u>	<u>1430</u>			<u>X7</u>													
<u>-8A</u>	<u>1450</u>			<u>X8</u>													
<u>-9A</u>	<u>1540</u>			<u>X9</u>													
<u>-10A</u>	<u>1555</u>			<u>X10</u>													
<u>-11A</u>	<u>1610</u>			<u>X11</u>													
<u>-12A</u>	<u>1620</u>			<u>X12</u>													
Relinquished By: <u>WADE ALLMON</u> Date: <u>5/22/10</u> Time: <u>1600</u>					Comments/PO#:												
Received By: <u>[Signature]</u> Date: <u>5/22/10</u> Time: <u>1700</u>																	
Relinquished By: Date: Time:																	
Received By: Date: Time:																	
Relinquished By: Date: Time:																	
Received By: Date: Time:																	







