



**CITY OF CHICO**  
**BIDWELL PARK AND PLAYGROUND COMMISSION (BPPC)**

Regular Meeting Agenda  
April 27, 2015, 6:30 pm  
Municipal Center - 421 Main Street, Council Chamber

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Materials related to an item on this Agenda are available for public inspection in the Park Division Office at 411 Main Street during normal business hours or online at <http://www.chico.ca.us/>.

**1. REGULAR COMMISSION MEETING**

1.1. Call to Order

1.2. Roll Call

1.3. Special Presentation: Joint Safe and Clean effort at Lost Park/Annie's Glen/Children's Playground  
- Melanie Bassett (DCBA) and John Merz (FOBP).

**2. CONSENT AGENDA**

All matters listed under the Consent Agenda are to be considered routine and enacted by one motion.

2.1. Approval of Meeting Minutes

**Action:** Approve minutes of BPPC meeting held on 3/30/2015.

**ITEMS REMOVED FROM CONSENT** – if any

**3. NOTICED PUBLIC HEARINGS** - None

**4. REGULAR AGENDA**

4.1. MMX Racing, Inc. – Obstacle Course Race, 8-29-15

MMX Racing, Inc. is requesting a permit to host a 5K obstacle course in Lower Park, along the standard map race course, on Saturday, August 29, 2015. This will be the second year the applicant has held this event and anticipates approximately 501-750 participants. **Recommendation:** *Conditional Approval.*

4.2. Consider Proposal for "Ride and Decide" Art Installation at the One Mile Recreation Area

The Chico Velo Cycling Club, initiated the Ed McLaughlin Art Program, an ongoing campaign of art projects designed to promote and enhance Chico's reputation as a bike-friendly city, is proposing a functional public art work installation in Bidwell Park. The art piece will be located at the north One Mile Recreation Area on the lawn area, east of the bridge bike path at Vallombrosa Way. **Recommendation:** *Conditional Approval.*

**5. BUSINESS FROM THE FLOOR**

Members of the public may address the Commission at this time on any matter not already listed on the agenda; comments are limited to three minutes. The Commission cannot take any action at this meeting on requests made under this section of the agenda.

**6. REPORTS**

Items provided for the Commission's information and discussion. No action can be taken on any of the items unless the Commission agrees to include them to a subsequent posted agenda.

6.1. Parks and Street Trees Division Report - Dan Efseaff, Park and Natural Resource Manager.

6.3 Horseshoe Lake parking lot E Monitoring Report- Dan Efseaff, Park and Natural Resource Manager.

**7. ADJOURNMENT**

Adjourn to the next regular meeting on May 18, 2015 (May 25<sup>th</sup> is a holiday) at 6:30 p.m. in the Council Chamber of the Chico Municipal Center building (421 Main Street, Chico, California).



Please contact the Park Division Office at (530) 896-7800 if you require an agenda in an alternative format or if you need to request a disability-related modification or accommodation. This request should be received at least three working days prior to the meeting.

**CITY OF CHICO**  
**BIDWELL PARK AND PLAYGROUND COMMISSION (BPPC)**

Minutes of  
March 30, 2015 Regular Meeting

**1. REGULAR COMMISSION MEETING**

**1.1. Call to Order**

Chair Moravec called the meeting to order at 6:30 pm.

**1.2. Roll Call**

**Commissioners present:**

Mary Brentwood  
Marisa Corley  
Alberto Hernandez  
Jim Moravec  
Janine Rood  
Drew Traulsen

**Commissioners absent:**

Valerie Reddemann

**Staff present:** Dan Efseaff (Park and Natural Resources Manager), Shane Romain (Park Services Coordinator), and Nancy Kelly (Administrative Assistant).

**2. CONSENT AGENDA**

All matters listed under the Consent Agenda are to be considered routine and enacted by one motion.

**2.1. Approval of Meeting Minutes**

Action: Approve minutes of BPPC meeting held on February 23, 2015.

**2.2. Permit for Multiple AA Meetings at Council Ring (Various Dates)**

The applicant (God Squad) is a support group that would like to meet every Sunday at the Council Ring from April 10, 2015 – October 16, 2015 (except for May 3, June 14, August 2, and September 20, 2015, as these dates already had an existing reservation. Meeting would be 1.25 hours long. **Recommendation:** Conditional approval.

**2.3. Permit Application for 44<sup>th</sup> Annual Artisan Faire at City Plaza (5/2/15 – 5/3/15)**

The applicant (Cyrle Productions) requested a permit to host an art, craft and entertainment faire in City Plaza on May 2 and 3, 2015 with set-up on May 1. BPPC approval is required for requests of park areas for multiple days and for more than ten hours. **Recommendation:** Conditional approval.

**2.4. Permit Application for 5K Walk in Lower Bidwell Park (10/17/15)**

American Cancer Society's *Making Strides Against Breast Cancer* 5K walk is a fundraiser. The applicant requested approval to set up for this event the night before, making it necessary to have security stay overnight. **Recommendation:** Conditional approval.

**MOTION:** Approve the consent agenda as submitted. **MADE BY:** Hernandez. **SECOND:** Rood. **AYES:** 6 (Brentwood, Corley, Hernandez, Moravec, Rood, and Traulsen). **NOES:** 0. **ABSENT:** 1 (Reddemann).

**ITEMS REMOVED FROM CONSENT AGENDA – None.**

3. **NOTICED PUBLIC HEARINGS** – None.

4. **REGULAR AGENDA**

4.1. **Appeal of Tree Removal Permit Denial (229 Denali Drive)**

On January 15, 2015, Staff received an application to remove a City of Chico street tree (a 14" DBH Shumard Red Oak.) The landowner cites concerns of broken sprinkler pipes and the potential for pushing up the sidewalk. Staff rejected the application, as the tree is not dead, dying, diseased or dangerous. The Chico Municipal Code (CMC 14.40.180) allows for the applicant to seek BPPC approval to remove the tree at the convenience of the property owner. **Recommendation:** If the BPPC upholds the appeal, staff recommends that the removal and replanting with two trees planted within a year occur at the landowner's expense.

Efseaff provided an overview of Staff authority and Commission authority to approve the removal of trees.

There are two trees on the property that currently show some overlap. They will most likely pose some competition in the future. If the Commission does recommend removal, staff is requesting that a condition be placed that it be within a year and that two trees be planted in its place.

Comments from the Commission

Brentwood asked about the overlap of the tree canopy and whether it could be corrected by a tree trimming. Efseaff stated it could, but over time, the trimming would change the composition of the tree.

Comments from the Public

Janine and Dave Rush (applicants) addressed the Commission with their request to remove the Shumard Oak tree.

Steve Rooney stated that since his property became a part of the City, he has had one tree fall which resulted in some damage and two others that need tending to. However, there seems to be a difference of opinion as to who is responsible for the trees that need attention.

Charles Withuhn encouraged the Commission to not only consider the species and the location, but to put more consideration towards selecting drought-tolerant planting strip zones. He stressed that the City only benefits from large trees and not medium sized trees.

**MOTION:** To grant the appeal with a recommendation to plant two new trees within a year and at the landowner's expense. **MADE BY:** Hernandez. **SECOND:** Corley. **AYES:** 4 (Corley, Hernandez, Moravec, and Traulsen). **NOES:** 2 (Brentwood, Rood). **ABSENT:** 1 (Reddemann).

4.2. **Consideration of Chico Area Recreation District's (CARD) Request to Waive Basic Park Fees for 2015 Events.**

The applicant, (CARD), requested the waiver of basic park use fees for the following events: 52<sup>nd</sup> annual Spring Jamboree (April 4, 2015); Movies in the Park (June 20, 2015 and July 18, 2015); 50<sup>th</sup> annual 4<sup>th</sup> of July Community Celebration; and the 12<sup>th</sup> annual Pastels on the Plaza (September 19, 2015). Under the Chico Municipal Code (CMC 12R.08.250), the BPPC may authorize the waiver of basic park fees. The City has waived fees in the past. **Recommendation:** Staff recommended no waiver of reservation and vendor fees.

Efseaff recapped the partnership and the agreements the City has with CARD. There is a 2009 MOU in place where that the City would seek opportunities to share resources and build partnerships with CARD.

Due to the current budget of the City's Park Department, staff does not recommend the waiver of reservation or vendor fees. The fees in question for 2015 would be approximately \$716.00 for the three events.

#### Comments from the Commission

Brentwood asked about CARD's request to use the restrooms at Caper Acres during Movies in the Park. She feels that CARD should be required to have the porta potties.

Efseaff stated that the City denied CARD's request because the restrooms in Caper Acres have an age restriction where no one can enter the restroom without a child of age 12 or under. The south One Mile restrooms are only a couple hundred feet away and will be available.

Corley asked if there was any money made off of these free events to the community. She inquired about getting sponsorships.

Efseaff stated that in the past the City was a sponsor and donated the use of porta potties and trash receptacles at the 4<sup>th</sup> of July event, but unfortunately, the budget currently does not allow the City to do that.

Rood asked about the City waiving the fees as a form of sponsorship.

#### Comments from the Public

Rob Hinderer (CARD) was in attendance of the meeting to answer any questions.

Andrea Moriarti spoke on behalf of Do It Leisure (a division of Work Training Center). She mentioned that if funding continues to be cut, she is unsure as to how long the 4<sup>th</sup> of July event can continue. She would love to see the fees waived.

Moravec asked about the City limits and how far out of Chico city limits CARD does service.

Hinderer said that over 75% served are Chicanos.

Steve Rooney stressed to the Commission that they have the ability to waive fees.

#### Comments from the Commission

Rood asked Efseaff about the difference in this and last year's fees. Last year, the total value of sponsorships and fee waiving was roughly \$2,000. This year, if a waiver is granted, it would be approximately a \$700 break. She felt this was a reasonable way to step it down.

Corley asked why staff is recommending against waiving the fees events. Efseaff stated that much of it had to do with what the Commission had discussed last year. Also, the budget is an issue.

**MOTION:** To grant CARD's request to waive basic park fees for 2015 events in light of the City not providing a partnership this year. **MADE BY:** Rood. **SECOND:** Brentwood. **AYES:** 5 (Brentwood, Hernandez, Moravec, Rood and Traulsen). **NOES:** 1 (Corley). **ABSENT:** 1 (Reddemann).

### **5. BUSINESS FROM THE FLOOR –**

Charles Withuhn reported that he has submitted a report to the City for the Community grant program for Chico Tree Advocates. Over 20 street trees were planted in just a couple of months. He wanted to make it known that the Chico Tree Advocates would be willing to help purchase samplings in exchange for participating in the species selection and discussions regarding irrigation techniques.

## 6. REPORTS

### 6.1. Parks and Street Trees Division Report – Dan Efseaff, Park and Natural Resource Manager

Park and Natural Resources Manager Efseaff reported the following:

The planting and pruning contract is currently out to bid; Public Works Director Martinez has requested feedback from the Commissioners on the Urban Forest Manager position which should be going out to bid shortly; a new permit system will be unveiled soon; staff has been working on recommendations for the upcoming budget which include a ranger and a maintenance worker; Staff is looking into an ongoing Capital Improvement Program for the parks; a new service request system is coming soon; Chico Velo is working on a new kiosk; waterless urinals have been installed at Five Mile Recreation Area; three trees were planted along the Esplanade in front of Chico High School with the help of students; Council has approved the CARD agreement for lifeguards; bringing the aphid control process in-house has resulted in a savings to the City; and, there is a tree at 5<sup>th</sup> and Arcadian Avenues that staff has been working on.

Park Services Coordinator Romain reported on volunteer efforts by Friends of Bidwell Park, Butte Environmental Council, the Mt. Lassen chapter of the Native Plant Society, and teens from the County probation Department; annual spring volunteer training of 25-30 new park watch volunteers is complete; and Picnics in the Plaza continue on Tuesdays.

Efseaff announced that the Park Department will be moving back to the third floor of City Hall in April.

## 7. ADJOURNMENT

Adjourn at 8:01 p.m. to the next regular meeting on April 27, 2015 at 6:30 p.m. in the Council Chamber of the Chico Municipal Center building (421 Main Street, Chico, California).

Date Approved:    /    /   .

Prepared By:

\_\_\_\_\_  
Nancy Kelly, Administrative Assistant

\_\_\_\_\_  
Date

Distribution: BPPC



# BPPC Staff Report

Meeting Date: 4/27/2015

DATE: 4/7/2015  
 TO: Bidwell Park and Playground Commission  
 FROM: Theresa Rodriguez, Administrative Assistant  
 SUBJECT: MMX Racing Inc. - Obstacle Course Run, 8/29/15

### REPORT IN BRIEF:

MMX Racing, Inc. requests a permit to host a 5K obstacle course in Lower Park, along the standard race course, on Saturday, August 29, 2015. This will be the 2nd year the applicant has held this event and anticipates approximately 501 - 750 participants. Participants would start in 50 person waves 10 minutes apart.

**Recommendation:** *Conditional approval.*

### Event Details

Date of Application	3/30/2015
Date of Event	8/29/2015
Time of Event	9:00 A.M – 12:00 PM
Event Name	Local Obstacle Challenge
Applicant Name	Jerrad Fisher
Location	1 Mile Picnic/Barbeque Area and along lower park standard race course.
Description	Obstacle Course Run
New Event?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No. Years 2
# Participants	501 - 750
Reason for BPPC Consideration?	Uncommon or unusual for reserved area.
	The applicant is requesting to place 11 obstacles along the standard 5k course, including: a field of tires; rice bales; several walls—4', 5', 6' and 10' high; tunnels 3' in diameter; 30' water cage; 50' slip and slide and a pool crossing at the conclusion of the event. (See attached permit application). All of the obstacles are free standing and will not be secured to any park infrastructure.
BPMMP Consideration	

### Background

At its meeting of 4/16/13, the Council voted (6-1) to overturn the Bidwell Park and Playground Commission's (BPPC) denial of a permit (at the 2/25/13 meeting) and uphold the appeal of MMX Racing, Inc. permit request to host a 5K obstacle course (the "Bidwell Challenge") in Lower Park. The Council directed staff to work with the applicant to develop conditions to minimize impacts to other park users. By upholding the appeal, the Council determined that 1) the event is in the public interest and 2) it will not unreasonably interfere with the public's use of Bidwell Park by members of the general public not participating in the event.

The evaluation from 2013's event was favorable. There were minimal issues that would be addressed. The obstacle placement very similar to that of the 2013 event. The exception is the water based activities on Sycamore Field. CARD will be the approving or denying agency for activities on Sycamore Field as CARD is the Lessee.

See S:\Admin\Council\Appeal\_BPPC\CC\_obstacle\_course\_report\_13\_0610.doc

**Conditions**

Staff recommends the following conditions:

1. Continued adherence to all park rules.
2. Must begin race before 8:30 AM
3. Have a mobile medic unit and be marked as "Medical Vehicle"
4. Provide vendor list prior to the event
5. Seek Chico Area Recreation District's (CARD) approval for the use of Sycamore Field
6. CARD to provide water source ~500 gals for cage; additional for slip & slide
7. Hire lifeguards for pool
8. Insurance requirement as determined by Risk Management
9. Hay bales – trap errant hay

**Attachments:** Application and Permit for Park Use

**Distribution:** Jerrad Fisher

S:\\_Old drive to be deleted July 2015\Admin\BPPC\BPPC\_Templates\BPPC\_Special Event\_Template\_14\_0305.docx  
4/22/2015





# City of Chico

## APPLICATION & PERMIT FOR PARK USE

General Services Department - Park Division  
965 Fir Street/P.O. Box 3420  
Chico, CA 95927-3420  
(530) 896-7800 Fax: (530) 895-4731

Type of Event:	
PUBLIC [ ]	PRIVATE [ ]

### SECTION 1 - APPLICANT INFORMATION

Must be 18 or older • No glass beverage containers • Application fee due upon submittal •

THIS RESERVATION IS NOT VALID UNTIL APPROVED BY THE PARK DIVISION.

PLEASE PRINT:

Name of Applicant/Contact Person: Jerrad Fisher  
Organization: MMX Racing, Inc. Local Obstacle Challenge

Description of Event: (family BBQ, walk/run, describe below if needed)  
Obstacle Course Run

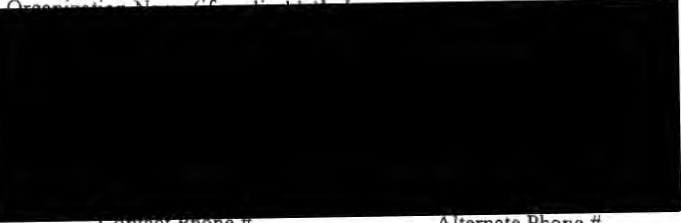
Day and Date of Event: 8/29/2015

From: 5:00 am To: 4:00 pm  
Total Time Needed for Set-up, Event, and Clean-up

From: 9 am To: 12:00 pm 501-750  
Time of Event Only

E-mail address: [Redacted]

Note: Park gates will be closed during opening time for any event with less than 1,000 people. All races with less than 1,000 people at One Mile must start before 8:30 am. Street closure(s) subject to approval.



Contact Phone # \_\_\_\_\_ Alternate Phone # \_\_\_\_\_

#### AREA REQUESTED: (Please check if requested)

- Bidwell Bowl Amphitheater
- Electricity (15 amp)
- Special conditions apply for amplified sound (12R.08.263 CMC)
- Cedar Grove Picnic Area  Meadow
- Electricity (15 amp)  100 amp Electrical Service tables, restroom area (circle)  Water (public events only)
- Children's Playground
- Electricity (15 amp)-Pick up key on: \_\_\_\_\_ between 8:00 AM-4:30 PM
- Water (public events only)  100 amp Electrical Service
- City Plaza (Additional fees may apply)
- Electricity (15 amp)  100 amp Electrical Service
- Event Restrooms  Water (public events only)
- Fountain - On  Fountain - Off
- Meter Bags # \_\_\_\_\_  Sound Curtain

- Council Ring
- Fire Permit
- Five Mile Picnic Area
- One Mile Picnic/Barbeque Area - Water available, no hose bib
- Oak Grove A  Oak Grove B
- Sycamore Way Parking Lot Closure-Public Events ONLY
- Electricity (15 amp) parking area, restroom area (Pick up key)
- Band Stand (15 amp)
- BBQ-Pick up key on: \_\_\_\_\_ between 8:00 AM - 4:30 PM
- Depot Park
- Electricity (15 amp)
- Lower Bidwell Park (public events only): \_\_\_\_\_
- Upper Bidwell Park (public events only): \_\_\_\_\_
- Other (specify) (public events only): Soccer field
- Early Entrance Needed (public events only) Yes No

Additional Description of the Event: 5k obstacle run in Bidwell park

FOR PARK RANGER ASSISTANCE during the event, CALL 530-897-4900 (Police Department Dispatch)

### SECTION 2 - PERMIT FEES

Call Park Office at 896-7800 for availability of park areas and fee schedule 80.020

- Application Fee \$ 19.00 (Non-Refundable)
- Reservation Fee \$ 301.00 (\$11.00 minimum, please call for quote)
- Insurance Fee \$ 40.00 (\$40.00 to process outside insurance)
- Vendor Fee # 10 \$ 60.00 (\$6.00 per vendor)
- Damage Deposit \$ 100.00 (\$100.00 refundable following acceptable clean-up after event)
- Early Entrance Fee \$ 32.50 (\$32.50/hr, public events only)
- Additional Park Use Fees \$ \_\_\_\_\_ (see fee schedule)

Additional fees for City Plaza use:	
Event Restrooms _____ x (\$95.00) = \$ _____	#days
100 amp Electrical _____ x (\$30.00) = \$ _____	(electrician required) #days

Total Fee Required: \$ 520.00

Fee due upon submittal of application \* Make Checks Payable to: City of Chico

City of Chico Cash Receipt No. \_\_\_\_\_ Payment Method: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_

Office Distribution:	Permit File (original) Park Field Supervisor	Park Ranger 1 Park Ranger 2	Senior Park Ranger Landscape Inspector.	Applicant Risk Management (e-mail)	Email(various) 920 Fund
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# SECTION 3

## CONDITIONS FOR PARK USE

**You Are Responsible for Knowing the Park Rules. Please Observe the Following:**

- Alcohol** Alcohol is not permitted in any City Park or Playground.
- BBQ's** Portable BBQ's may only be used next to existing BBQ's in Lower Bidwell Park and Five Mile Recreation Areas.
- Bicycles** Must observe all California vehicular codes including one-way streets. Riders are expected to be courteous and yield to equestrian and pedestrian traffic. Helmets must be worn at all times in Upper Park, except when on pavement. Riders must stay on designated trails. Bicycle riding is not allowed in Caper Acres or on the Sycamore pool deck.
- Bounce Houses** Bounce houses and other similar play equipment are only permitted with a reservation and upon approval by the Park Division. The operators of this equipment must provide proof of insurance. Bounce houses are not allowed in Caper Acres.
- Campfires** No campfires allowed.
- Camping** No overnight camping allowed. Bidwell Park is a "day use park" only.
- Clean up** Permittee is required to completely clean up area at the conclusion of event. Additional garbage bags may be obtained from the General Services Department at time of reservation. (12R.04.180 CMC)
- Damages** Any damage to City property as a result of this event will be repaired at permittee's expense.
- Dogs** Dogs may be off leash from 5:30 AM until 8:30 AM in Lower Park -- All other times **dogs must be on a leash**. Along the north side of Upper Park Road, dogs may be "off leash" anytime. While "off leash," dogs must remain under control via master's voice. **Dogs are not allowed in Caper Acres, One-Mile or Five-Mile swimming areas, or designated swimming holes in Upper Park.**
- Electrical** All power extension cords, sound amplification equipment, and staging to be supplied by permittee. Permittee shall provide "tripping" prevention devices over power cords crossing any pathway.
- Fishing** **Big Chico Creek:** Check California Fish and Game Regulations, <http://www.dfg.ca.gov/regulations/>, Freshwater Sport Fishing, Alphabetical List of Waters with Special Fishing Regulations, (20) Big Chico Creek.  
**Horseshoe Lake:** Age 14 and over - license, catch and release; Under 14 - no license, catch and keep.
- Gate Closures** Upper Park gate at parking area E is closed on Sundays and Mondays and during wet periods. Gates can be closed for approved special events. See [www.ci.chico.ca.us/general\\_services\\_department/park\\_division/gate\\_closing\\_hours.asp](http://www.ci.chico.ca.us/general_services_department/park_division/gate_closing_hours.asp)
- Glass** No glass beverage containers allowed in any City Park or Playground.
- Horses** Horses must stay on designated trails. Horses are not allowed in One-Mile or Five-Mile Recreation Areas. Horses must cross the creek at approved crossings. Safe and courteous riding is the Park standard.
- Noise** No loud or unusual noises are allowed, including: radios and headsets that can be heard over 50' away. Music/Amplified Sound at One-Mile Recreation Area, please, face all speakers away from Woodland Ave.
- Park Closures** Lower Park is closed from 12:00 am (midnight) until 5:00 am every day, unless directly and actively proceeding to a destination outside of the park. Upper Park is closed between the hours of 11:00 pm and 60 minutes before sunrise every day, unless posted otherwise.
- Signs/Defacing** Defacing of trees, benches, tables, any park fixtures, open ground, or paved roads/paths with markings, staples, tacks, or signs is prohibited. No pinatas, or accessories shall be affixed to trees. Only barricades, cones, or self standing devices may be used for these purposes.
- Smoking** No smoking in Upper Park from May 1st - November 1<sup>st</sup>. No smoking in City Plaza or Caper Acres any time.
- Swimming** While in the 1-Mile swim area compliance with lifeguards is required for public safety. Pool is open and lifeguards are on duty from Memorial Day through Labor Day.
- Vegetation** No taking, cutting or injury of any vegetation in the Park is allowed.
- Vehicle Traffic**
- While gates are closed, limited use of vehicles to set up for event is permitted. Vehicles must be in compliance with the one-way designation of the roadway, must yield to all other activities (walking, jogging, bicycling, and horseback riding), must travel with flashers on and may not exceed ten (10) miles per hour.
  - Permittee shall provide adequate signs and supervision to avoid conflicts between vehicles, bicycles, equestrians, and general public.
  - Only emergency vehicles will be allowed access through the area of South Park Drive which has been closed to motor vehicles.
  - No vehicles are permitted to travel or park on grass areas.

**\*I have read and agree to conform to the above rules and conditions:**

Signed: \_\_\_\_\_



**SECTION 4 – INSURANCE**

(to be determined by Park Office)

**INSURANCE REQUIREMENTS ARE APPLICABLE TO:**

Insurance Required

Not Required

- (1) All Public Events per Title 12R.08.240, and/or
- (2) All Events Public or Private where:
  - (a) Amplified sound is used, or
  - (b) The number of people participating amount to 100 or more.

If insurance is required for your event, please contact the Risk Management office at 530-879-7910, by fax at 530-895-4733, or email at [riskmanagement@ci.chico.ca.us](mailto:riskmanagement@ci.chico.ca.us). Insurance may also be purchased through the City.

If insurance is required, Certificate of Insurance, meeting City standards must be received by: August 14, 2015

Organization Named on Certificate of Insurance K 2 Insurance

Permittee shall supply, at least two (2) weeks in advance of the scheduled event, a Certificate of Insurance issued by a company licensed to do business in California with a Best's Insurance Guide rating of "B" or better ("A" rated if Company is unlicensed) which provides evidence of comprehensive and general liability coverage in the amount of \$1,000,000 combined single limit, with policy endorsements as follows:

- (1) Identification of permit applicant, identification of event, date of event.

**NOTE: NUMBERS 2 AND 3 MUST BE SEPARATE ENDORSEMENTS:**

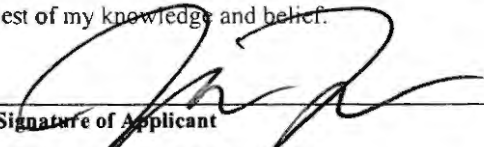
- (2) The City of Chico, its officers, boards and commissions, and members thereof, its employees and agents are covered as additional insureds as respects to any liability arising out of the activities of the named insured.
- (3) The insurance coverages afforded by this policy shall be primary insurance as respects to the City of Chico, its officers, employees, or agents. Any insurance or self-insurance maintained by the City of Chico, its officers, employees, or agents shall be in excess of the insurance afforded to the named insured by this policy and shall not contribute to it.
- (4) An unqualified statement that "The insurer will provide the City at least ten (10) days prior notice of cancellation or material change in coverage", standard Certificate of Insurance cancellation language is not acceptable

**Please Note:** Your reservation may be cancelled if the insurance is not approved at least two weeks prior to the scheduled event

**SECTION 5 - ACCEPTANCE OF CONDITIONS**

In signing this Permit, I agree to indemnify and hold the City of Chico and/or the Bidwell Park and Playground Commission free and clear of all claims of damage for injury to persons or property occurring in, upon or about Bidwell Park, and arising from my use of the park as noted above, and to defend any action against the City of Chico resulting from any such claim, without cost to the City.

\*I certify that I have read this application thoroughly, followed any and all instructions, understand its contents, will comply with the attached "Conditions for Park Use", will adhere to any additional conditions set forth by this permit, and supplied true and correct information herein to the best of my knowledge and belief.

X   
Signature of Applicant

X 3/30/15  
Date

**RETURN THIS FORM TO:**

City of Chico - Park Division  
965 Fir Street  
Chico, CA 95928

FAX 530-895-4731 or email to [Parkinfo@ci.chico.ca.us](mailto:Parkinfo@ci.chico.ca.us)

THIS RESERVATION IS NOT VALID UNTIL APPROVED BY THE PARK DIVISION.

A copy of the approved application will be returned to you.

**SECTION 6 – GENERAL SERVICES DIRECTOR AUTHORIZATION**

I certify that I have carefully reviewed this application pursuant to Title 12 and 12R of the Chico Municipal Code and hereby recommend that this permit be:

- Approved.
- Approved subject to listed additional condition(s) \_\_\_\_\_

- Denied by the General Services Director. Reason: \_\_\_\_\_
- Application fee waived (12R.08.100 CMC). Reason: \_\_\_\_\_
- Reservation fee waived (12R.08.250 CMC). Reason: \_\_\_\_\_
- Vendor fee waived (12R.08.250 CMC). Reason: \_\_\_\_\_
- Insurance fee waived (12R.08.240 CMC). Reason: \_\_\_\_\_
- Damage deposit fee waived (12R.08.260 CMC). Reason: \_\_\_\_\_
- Application approved by the Bidwell Park & Playground Commission. Date: \_\_\_\_\_
- Application denied by the Bidwell Park & Playground Commission. Reason: \_\_\_\_\_

Date: \_\_\_\_\_

Signature of General Services Director

Date

# EVENT INFORMATION

Please answer the following questions by circling "Yes" or "No"

Is this an annual event? How many years have you been holding this event? <u>1</u>	Yes	No
Is there a patron admission, entry, or participant fee(s) required for your event? <u>\$40-50</u>	Yes	No
Will there be amplified sound/music at event? (Please see 'Conditions For Park Use') Specify type (microphone, band, radio, PA system etc): <u>DJ, microphone</u>	Yes	No
When will amplified sound/music be heard? Time from: <u>7 am</u> until: <u>2:00 pm</u> amps needed (15 or 100) _____ Note: 100 amp electrical service requires a certified electrician to operate.		
Will there be any entertainment apparatus? (Operator to provide proof of insurance) <input type="checkbox"/> Bounce house <input type="checkbox"/> Climbing wall <input type="checkbox"/> Ropes Course <input type="checkbox"/> Other: <u>obstacles throughout course</u>	Yes	No
Name of Operator: _____		
Will there be any vendors at this event? (No glass or alcohol permitted) If "yes" please note the number of vendors anticipated: <u>10</u> (submit a, separate, complete list) Does your event include food concession and/or preparation areas? If yes, please describe how food will be served and/or prepared: <u>outside caterer meeting all required health codes</u>	Yes	No
Will event require that any part of the Park remain closed beyond the normal time of opening? Note: Park gates will not remain closed beyond normal opening time for any event with less than 1,000 people. All races with less than 1,000 people at One Mile must start before 8:30am. (Subject to approval by the General Services Department Director and/or Senior Park Ranger.) If "yes" please state which gate(s): <u>Peterson Dr.</u> Time of closure from: <u>11 am</u> until: <u>2 pm</u>	Yes	No
Will there be early entrance into the Park for setup? If "yes" when will monitors be at their position(s)? Time from: <u>5:00 am</u> until: <u>4:00</u> Note: Gate Monitors are required at the entrances and exits for early Park entrance. An additional fee may be charged for early entrance	Yes	No
Will event require over night camping for security purposes? (authorized for a maximum of two people, 12R.04.340 CMC) If "yes" how many security personnel will be required?	Yes	No
<b>Portable Restrooms:</b> You are required to provide portable restroom for events with 200+ participants at your event, in the immediate area of the event site which will be available to the public during your event. Restroom Company <u>Ben Toilet Rentals</u> Phone Number <u>800-767-8276</u> Location of portable restrooms <u>4-7 restrooms</u> Note: Restrooms shall be removed within 24 hrs after conclusion of event.	Yes	No
<b>Sanitation and Recycling:</b> As an event organizer, you must properly dispose of waste and garbage throughout the term of your event and immediately upon conclusion of the event the area must be returned to a clean condition. <i>For events with 200+ participants, additional trash and recycling cans are required.</i> Number of Trash Cans <u>25</u> Number of Recycling Containers <u>25</u> Sanitation Company <u>Waste management North Valley</u> Phone Number <u>530-893-4777</u> Note: Sanitation containers shall be removed within 24 hrs after conclusion of event.	Yes	No
Will your event include the use of any signs, banners or decorations? (Please see 'Conditions For Park Use') If yes, please describe type and location: <u>PVC banner stand three standing</u> Note: All signs and banners shall be free standing and not affixed to Park property.	Yes	No
Will water be needed during your event? Please provide your own hose and on/off switch. No hose bib is available at One Mile Recreation Area. Note: Please request a water coupler key for City Plaza, Children's Playground, and Cedar Grove.	Yes	No
Do you request irrigation to be turned off before and during your event?	Yes	No
<b>CITY PLAZA ONLY:</b> Vehicles are not allowed in City Plaza. Loading and unloading must occur from the streets. Meter bags for unloading and loading only may be obtained from the City by calling (530) 896-7800.		
Will vendors be placed on the perimeter sidewalks? If yes, a Vend, Peddle, Hawk permit must be obtained from the Engineering Division at 411 Main St, Chico, (530) 879-6900.	Yes	No
Will City street closure(s) be needed? A separate permit must be obtained from the Engineering Division at 411 Main Street, Chico, (530) 879-6900.	Yes	No

# Bidwell Challenge

## Event Proposal

My name is Jerrad Fisher and I am a Chico local. I am a physically active individual and as well as a regular Bidwell Park user. I own and operate a motocross track as well as coordinate about 15 motocross events per year. I'm interested in coordinating an event of this proportion because I wish to promote an active lifestyle among community members. By participating in this event, I feel that others can experience the Chico I'm familiar with: endless recreational opportunities and a close-knit community. Events like this not only encourage people to be active, they also create an environment where camaraderie can be experienced.

### How this event will benefit the Chico community:

- Draw new visitors to Chico and the "Bidwell Park experience"
- Bring in tax revenue and increase business sales (ie: hotels, restaurants, shopping)
- Showcase the community with local sponsors and vendors
- Provide a local, safe, and fun event that is on trend with the athletic community
- Promote an active, healthy lifestyle which reflects Chico values.

### Concerns for Park Protection

Environmental Impact/Safety: Our main focus is to leave the park in the same state in which we arrived with no trace left behind.

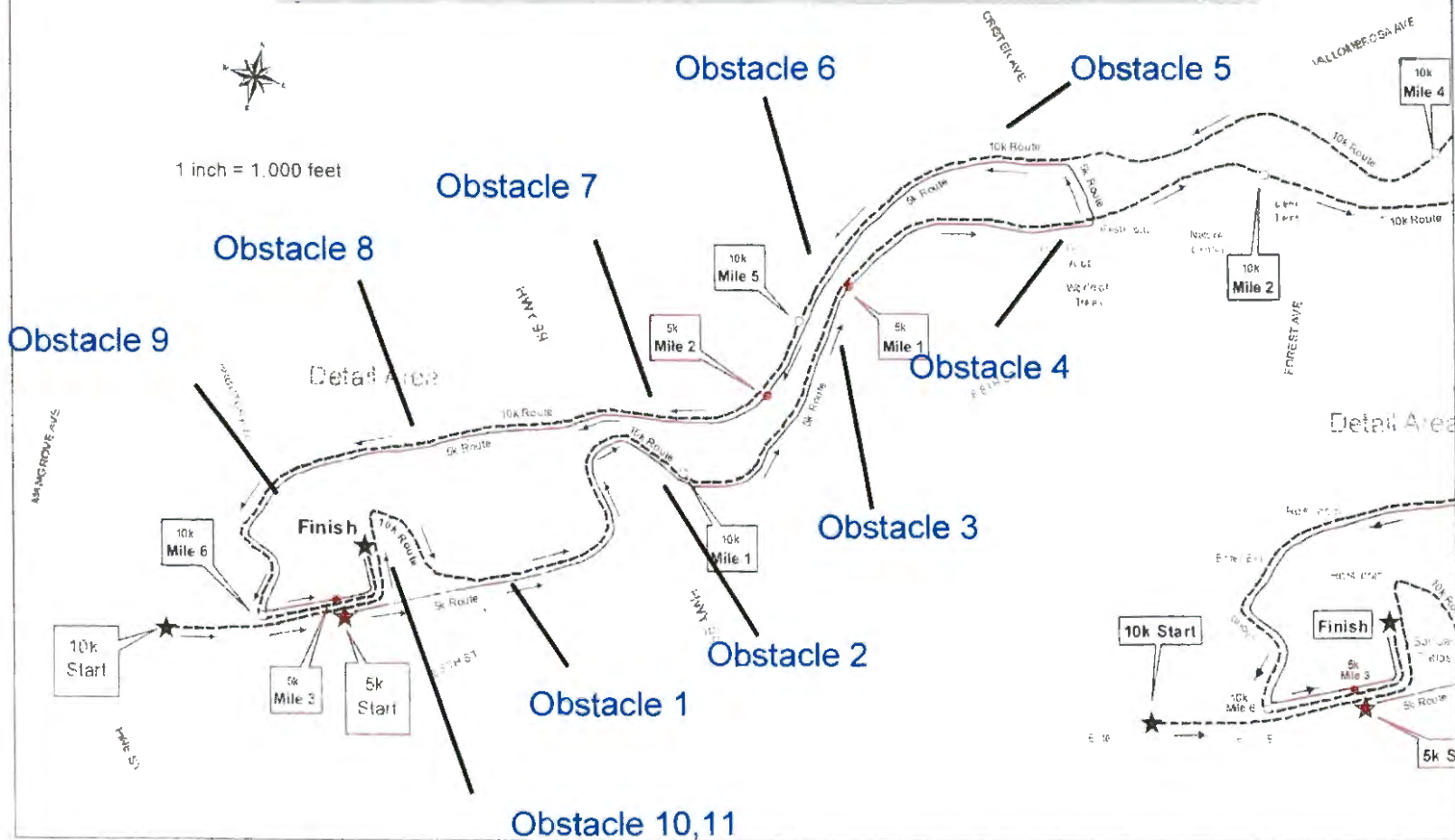
- All obstacles are free standing and will not be secured to park terrain.
- All constructed obstacles will be inspected for safety by a licensed contractor prior to event.
- Rice bales will be used in place of hay bales (minimal seed spread)
- Obstacle placement will not obstruct the path for emergency vehicles and regular park users.
- Tire obstacle will be of clean used tires in good conditions.

## ***Event Timeline***

- ❖ 5:00 a.m.
  - Crew of 6 assemblymen will arrive with a truck and forklift to transport and place obstacles.
  - Event staff/volunteers arrive to place obstacles, barriers, and event signage.
  - Obstacles will be placed on trail with enough space to allow for vehicles, pedestrians, and regular park users.
  - Park barriers will be completely self-standing and will not damage any park facility or terrain.
  - Cones will be used along with caution tape to section off and alert event participants of course route and obstacles.
  - Banners/signs placed. Labeling: start, finish, registration, course route.
- ❖ 6:30 a.m.
  - Vendors arrive and set up (including catered lunch)
  - Dj arrives to set up sound system
  - Timing equipment set up
- ❖ 7:00 a.m.
  - event day registration
- ❖ 8:45 a.m. Staging of first wave
- ❖ 9:00 a.m. First wave of participants start
  - Every 10 minutes after a new wave of participants is released. Participants will be released in waves of 40-50. Wave amounts will be adjusted accordingly depending on how many entries are received.
  - Final wave of participants will be released approximately 12:00 p.m.
- ❖ 10:30 a.m. Begin serving lunch
- ❖ 12:00 p.m. Truck will follow final wave to collect/tear down obstacles.
- ❖ 1:30 p.m. Awards
- ❖ 2:00 p.m.
  - Lunch service ends
  - Vendors break down
- ❖ 4:00 p.m.
  - (At the latest) All obstacles/event props/trash will be cleaned up.

# Bidwell LOC

## Obstacle Placement 5K Course



# Start Area



40% of the road (appx. 7ft) will be allocated.



Pathway by Gilberts Grove will be main staging area with parking lots used for immediate waves 1 and 2 to keep people organized and off the road.



# Obstacle 1 (O1): Field of Tires

Tires are laid out covering half the width of the path (approximately 7-8') and approximately 30ft long, leaving ample room for emergency personnel & regular park users. Tires will be clean and removed after event leaving no trace behind.



Actual location in Bidwell Park. Tires will start behind yellow markers.

# Obstacle 2 (O2): Hay Bales

## Obstacle 7 (O7)



Left: Actual park location.

# Walls

Wall structures in various heights will be placed along the width of the path. These structures will be free-standing and will NOT be anchored into park terrain. All construction to be inspected prior to event by licensed contractor.

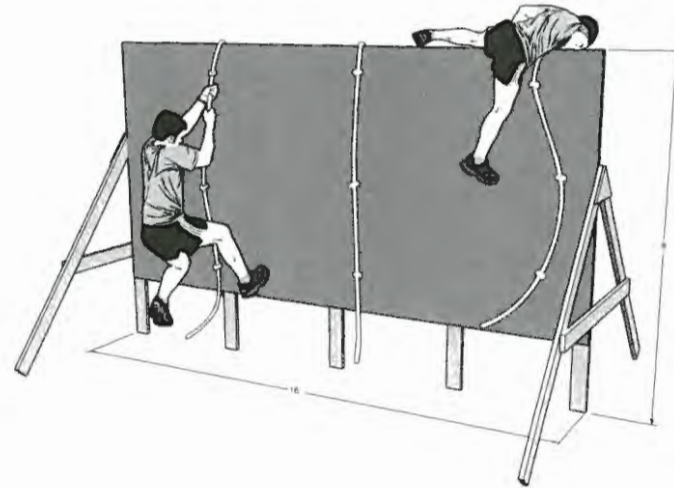
Obstacle 3 (O3): 4' wall x 10' wide

Obstacle 4 (O4): 6' wall x 10' wide

Obstacle 6 (O6): 10' wall x 10' wide

The 10' wall will have ropes and a 2' thick gymnastics pad on opposite side.

Obstacle 8 (O8): 5' wall x 10' wide



# Walls (Ob# 3,4,6,8)



Ob#3 Actual park location (camp site 4)

Ob#4 Actual park location side road before restrooms at cedar grove

# Walls



Ob#6 Actual park location. where horse path and road connect



Ob#8 Actual park location. Site 40

# Obstacle 5 (O5): Tunnels

Three tunnels (each tunnel approximately 3' in diameter) will be lined up covering approximately 12' of the path and secured by hay bales on each side.



Left: Actual park location. Site 30

# Obstacle 9 (O9): Crossing Sycamore Pool

Obstacle 9 will include crossing Sycamore Pool in Lower Bidwell Park. Participants will cross the water in the wading/children's area of the pool with a depth of approximately 3 feet. Stair area will be available to exit the pool. The pool will be sectioned off using rope or caution tape in order to contain participants to the area.



Ob#9: Actual Park location. Steps leading into and out of Sycamore Pool.

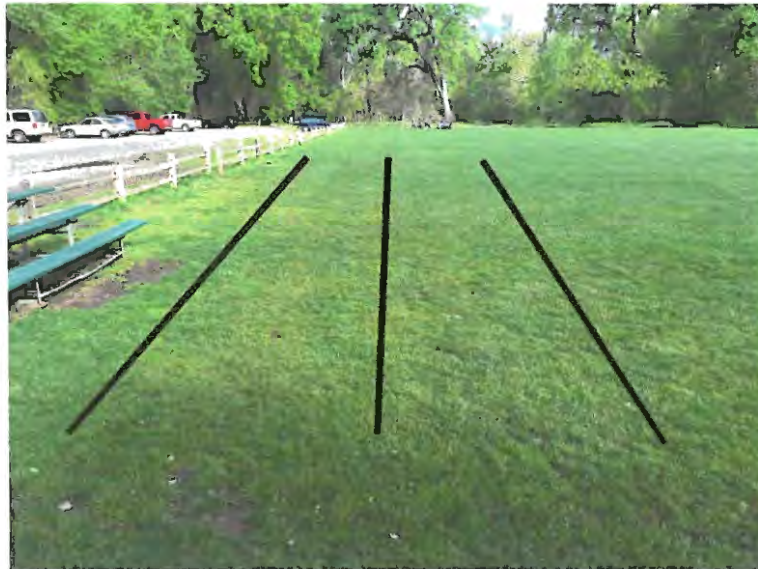
# Pool entrance path and exit





# Obstacle 10 (O10) Water Cage

A 30 foot water troff, 1 ½ feet deep with metal caging laying over the top of two lanes built from hay stacks. The troff will be filled with water, leaving about 10cm (or 4 inches) of air at the top. The idea is to float on your back with your face pressed toward the caging and pull yourself hand over hand along the caging.



Right: Actual location

# Obstacle 11 (O11) Slip and Slide

A 50 ft. plastic tarp 20 ft. wide separated into two lanes. The tarp will be inclosed on all three sides separated down the center by hay waddles A hose will be used to keep tarp wet.



# Boundary Marking

All boundaries for the event obstacles, start & end areas, and staging areas will be clearly marked with tall cones and caution tape. Areas for emergency personnel and regular park users will be clearly signed and marked off as well.





## BPPC Staff Report

Meeting Date 4/27/15

DATE: 4/15/15  
TO: Bidwell Park and Playground Commission (BPPC)  
FROM: Shane Romain, Park Services Coordinator  
SUBJECT: Proposal for "Ride and Decide" Art Installation at the One Mile Recreation Area

### REPORT IN BRIEF:

Applicant (Chico Velo Cycling Club) has approached the City to donate a "functional" public art piece at the "Decide and Ride" meeting area of Bidwell Park's One Mile Recreation Area. The applicant has revised the original proposal based on staff suggestions on a robust design, location, and minimal maintenance. The BPPC will evaluate the appropriateness of the installation for Bidwell Park.

***Recommendation:*** Staff recommends acceptance of the proposal and that the City Manager accept the donation.

### FISCAL IMPACT:

If the BPPC approves the installation, the City would likely accept the art piece with the expectation that the City would be responsible for only minor repairs or removal of graffiti. The applicant has indicated that maintenance costs are expected to be minimal, but have been budgeted for, through the Ed McLaughlin Art Program fund. Should the donated art piece require major repairs or become unsafe, the City would retain the right of removal.

Budget Policy No. G.4 (Attachment "B") authorizes the City Manager to accept donations which have a value of up to \$20,000. The estimated cost for the design, construction and installation is approximately \$10,000 and funds have been secured.

### BACKGROUND:

Several months ago, the Chico Velo Cycling Club, a local 501(c)3 non-profit organization focused on local bicycle advocacy and education, approached the City with a proposed "functional" public art work installation in Bidwell Park. Chico Velo initiated the Ed McLaughlin Art Program, an ongoing campaign of art projects designed to promote and enhance Chico's reputation as a bike-friendly city. As proposed, the object will be located at the north One Mile Recreation Area on the current lawn area east of the bridge bike path at Vallombrosa Way (Attachment A).

### DISCUSSION:

Staff have met with the applicant in the field to inspect locations near the "decide and ride" start area at One-Mile. The area is an informal meeting place for bike riders to meet prior to rides. As an aside, staff have suggested to organizers of bike rides to provide information on alternative parking locations (Park and Ride at Highway 32 and City of Chico lots on weekends) to minimize parking in or near Bidwell Park to embark on lengthy rides).

Staff met with the project proponents several months ago to provide input on location, importance of a vandal resistant design and low maintenance, and opportunities for educational interpretation of park resources. The applicant was very receptive to suggestions and incorporated staff recommendations into subsequent revisions.

Parks staff analyzed whether the installation is consistent with the Bidwell Park Master Management Plan and other park directives and priorities. While the Bidwell Park Master Management Plan (EDAW 2008) does not specifically address art goals, notable objectives are found in the section regarding interpretive and educational resources:

- O. I/E-4. Create partnerships with other groups whose goals are consistent with that of the Vision and BPMMP for Bidwell Park in their educational efforts for the Park.
- O. I/E-7. Utilize Bidwell Park as a setting for natural resource education, health and wellness, art, historic and cultural knowledge, and social gatherings.

### Attachments:

- A) One Mile Art Proposal with two Conceptual Images
- B) Budget Policy G.4

S:\\_Old drive to be deleted July 2015\Admin\BPPC\BPPC\_Meetings\2015\15\_0427\BPPC\_Velo\_art\_OMRA\_15\_0313.docx+

February 27, 2015

**Dan Efsseff, Parks and Natural Resources Manager  
Bidwell Park and Playground Commissioners**

Dan and Park Commissioners:

Chico Velo Cycling Club, a 501.c.3 non-profit organization focused on local bicycle advocacy and education, is excited to bring a public arts proposal to the Bidwell Park and Playground Commission for consideration. Three years ago, Chico Velo started the Ed McLaughlin Art Program, an ongoing campaign of public art projects to promote and enhance Chico's reputation as a bike-friendly city. Please review and consider the attached proposal for this first project, a 'functional' art piece we propose to place at or near the traditional 'decide and ride' start area at One-Mile.

Any questions can be addressed to Janine Rood via email at [janinerood@chicovelo.org](mailto:janinerood@chicovelo.org), by phone at 530-343-8356.

Thank you for your consideration!

Janine

Janine Rood  
Executive Director  
Chico Velo Cycling Club



**Chico Velo**  
**Proposal for Functional Bicycle Art Piece for One-Mile**  
March 2015

**General Information**

Three years ago, Chico Velo started the Ed McLaughlin Art Program to fund, build and maintain bicycle-related art in and around Chico. Ed McLaughlin, the founder of Chico Velo, had two great passions: bicycling and art. The Ed McLaughlin Art Program will allow the community to honor and remember his significant contribution to Chico and to bicycling.

The goal for the first art piece is to provide a bicycling-related ‘functional art’ piece at One-Mile to designate the regular ride start meeting place for local cyclists on Vallombrosa Way. We began fundraising in late 2012. After the concept was presented to the Bidwell Park and Playground Commission in 2014 and met with enthusiasm, we moved forward with planning the project. We met with Park and Natural Resources Manager Dan Effseaf on-site to discuss potential locations, hired local artist Jeff Lindsay and developed a concept for the art piece. The fundraising is complete. Our next step in the project is to get approval from the Bidwell Park and Playground Commission and then to move into the construction and installation phase.

**Artist**

We selected local artist Jeff Lindsay because of his experience in producing public art for the City of Chico and his ties to bicycling. Jeff founded Mountain Goat Cycles, one of the first mountain bike manufacturers in the US, in Chico in the 1980s. As the owner of Red Hot Metal, Inc., his focus is on public, commercial and residential art. Examples of his public art in Chico abound, including the Steve Harrison Bike Path ‘chainring’ entries, the Annie’s Glen Tunnel metalwork and the screens shielding the utility hardware just outside the City Municipal building on West 4<sup>th</sup> Street (below). Jeff Lindsay has a proven reputation of excellence in public art design and installation.



**Design**

The goals for the design are two-fold. First, to promote recreational bicycling for all abilities and define a recognizable, safe gathering point for bicyclists, at One-Mile on Vallombrosa Way for scheduled rides or

“decide and ride” options. Our second goal is to provide information about ride destinations, milages and wind direction in a fun and visually attractive way. The ‘wayfinding’ info includes two popular cycling routes (name, round-trip distance, and elevation gain) in each direction (detailed info on all routes will be available from the Chico Velo website, [www.chicovelo.org](http://www.chicovelo.org)):

North:

Cohasset to dirt – 45 mi, 3410 ft

Woodson Bridge – 62 mi, 740 ft

South:

Durham – 12 mi, 70 ft

Table Mountain – 60 mi, 2520 ft

East:

Honey Run/Neal – 33 mi, 1670 ft

Forest Ranch – 33 mi, 2530 ft

West:

River Road – 15 mi, 135 ft

Paskenta – 100 mi, 2210 ft

Our final concept presented here also offers the functionality of an additional seating option in the form of the concrete base. We believe this art piece will fit in well with One-Mile, using neutral colors and materials to create a natural feel. The design includes a small plaque to be installed flush with the concrete, “Donated by Chico Velo Cycling Club’s Ed McLaughlin Art Program”. The artist has selected materials proven to age well and be resistant to damage from weather, animals and vandalism.

### **Location**

Based on feedback from the Park department, the location proposed is just north of the One-Mile bridge on the triangle of grass adjacent to the sidewalk on Vallombrosa Way. This area currently suffers from foot traffic ‘cutting the corner’ preventing grass from growing, resulting in dirt/mud. The art piece will mediate a barren patch of lawn in addition to encouraging cyclists to meet in a safe location, and help reduce congestion at the entrance to the One-Mile parking lot.

### **Installation**

Jeff Lindsay will work with the City of Chico to complete the construction and installation of the art piece to the City’s standards and requirements. Jeff has a proven history of working with the City.

### **Maintenance/Repair**

The art piece has been designed to be low-maintenance, durable and to age well over time. Chico Velo takes full responsibility for funding any/all maintenance and repairs to keep the art piece maintained to the City’s standards. Concurrent with the installation, Chico Velo will make a \$150.00 donation to the City in preparation for any maintenance and repair expenses.

### **Budget**

The price for the design, construction and installation is approximately \$10,000.00, and our fundraising is complete. Maintenance costs are expected to be minimal, but have been budgeted for, as our Ed McLaughlin Art Program fund includes a budget for maintenance/repair of any and all art pieces funded, on an on-going basis.

**Timeline**

May 2012 – Ed McLaughlin Art Program and fundraising began

Fall 2013 – Discussion with City staff began

Spring 2014 – City staff presented concept to Bidwell Park and Playground Commission

Summer 2014 – Artist Jeff Lindsay contracted for project design

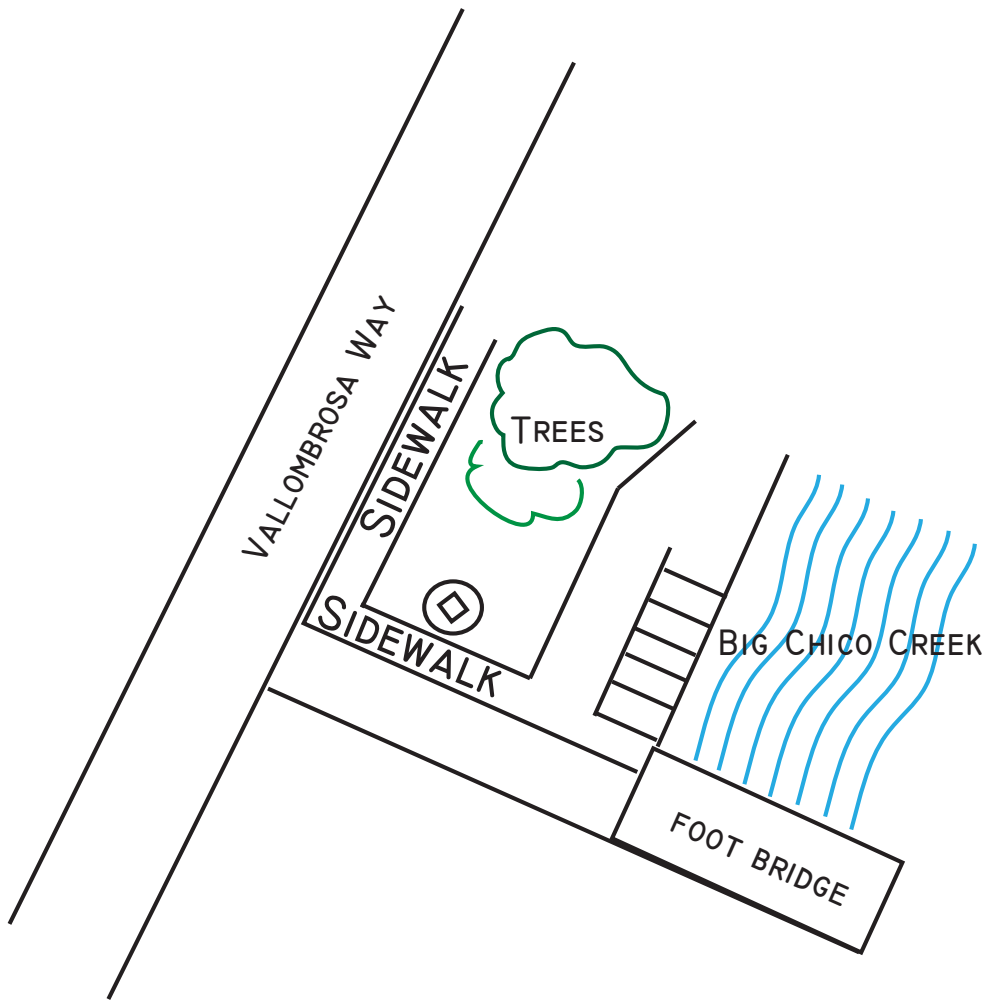
Winter 2014 – Fundraising goals achieved

April 2015 – Proposal to BPPC

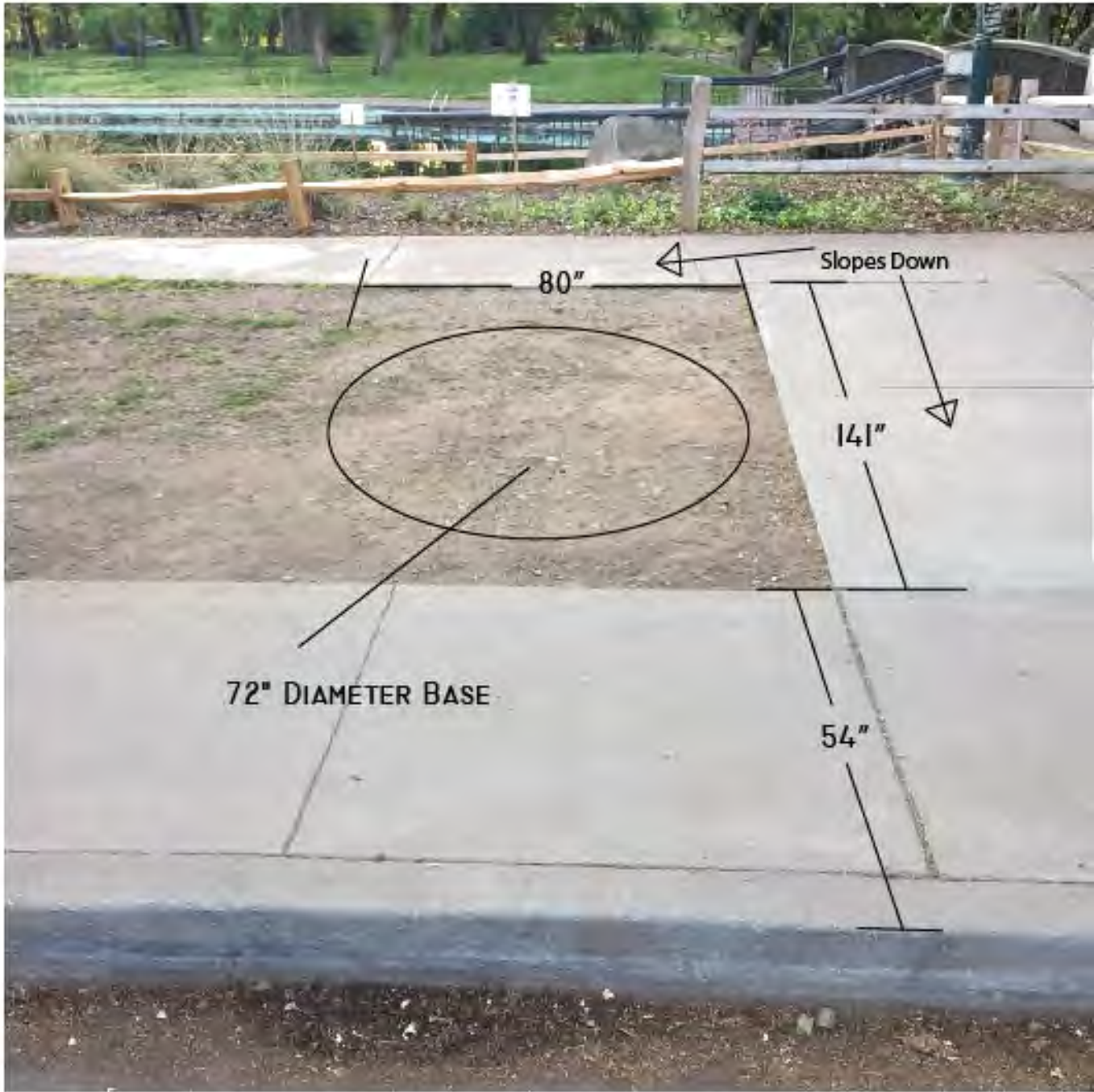
We anticipate completion of installation approximately 90 days after approval.

Thank you again for your consideration!





NOT TO SCALE





TOP DIMENSION 1'-6"

FORESTRANCH 33MI  
HONEYRUN / NEAL 33MI

10'-0"

2'-0"

3'-0"H x 10'-0" (4)SIDED MONOLITH  
CONSTRUCTED OF 10G CARBON STEEL,  
POWDERCOATED

2'-0"H x 6'-0" ROUND, CEMENT BASE

EAST DESTINATIONS  
SCALE: 1/2" = 1'-0"





**NOT TO SCALE: FOR CONCEPTUAL PURPOSES ONLY**

City Manager shall enter into such agreements and acquire the reserved property only if the balance in the Community or Neighborhood Park Funds, after deducting all expenditures approved in the Budget and any Supplemental Appropriations, is adequate to fund the acquisition. In the event adequate funding is not available in the fund, execution of the agreement will require City Council authorization.

In some cases, Development Fee Impact Funds incur expenses prior to collection of fees. This can cause negative cash balances to occur within the Fund. As a result, City Council shall authorize the City Manager to approve cash advances between Development Impact Fee Funds. In accordance with State Government Code 66006 (G), these advances (interfund loans) will be disclosed in the annual report of Development Fee activity that is provided to Council within 180 days after the end of the fiscal year. All advances will cause the borrowing fund to pay interest to the lending fund at the rate of return from the City's treasury investment pool.

#### G.3.c. **Annual Nexus Study Update**

The City Manager is authorized to expend monies from the appropriate Development Impact Fee Funds set forth in Sections 3 (a) and (b) above for the purpose of conducting a regular nexus study update required by State law to establish the nexus between the amount of development impact fees collected and the cost of the public improvements which are necessary as a result of new development.

#### G.4. **Donations, Legacies or Bequests**

The City Manager may accept donations, legacies, or bequests which have a value of up to \$20,000 for the acquisition, improvement, or preservation of various City facilities or activities, subject to the terms and conditions imposed by the donor. For donations with values greater than \$20,000, the City Manager shall secure the approval of the City Council prior to acceptance of the donation, legacy, or bequest.

The City Manager shall transmit any monies received to the Administrative Services Director for deposit to the credit of the appropriate municipal fund and may also request the Administrative Services Director to establish an appropriate Operating or Capital Budget Expenditure Account. In the case of receipt of real property (except property acquired pursuant to Section 2R.04.030 of the Chico Municipal Code) or personal property, the City Manager shall direct the Administrative Services Director to record it upon the appropriate inventory records of the City.

The City Manager shall have authority to expend any monies received in accordance with the donor's intent, and charge the appropriate budgetary account for expenditures, so long as no expenditure of City monies is required. If an expenditure of City monies is required, the City Manager shall first secure from the City Council approval for an appropriate Supplemental Appropriation.

The above provisions shall also apply to donations, legacies, and bequests to the Bidwell Park and Playground Commission, pursuant to Section 1006.2 of the Charter.



DATE: 4/22/15  
TO: Bidwell Park and Playground Commission (BPPC)  
FROM: Dan Efseaff, Park and Natural Resource Manager  
SUBJECT: Parks and Street Trees and Public Landscapes Report

## NARRATIVE

### 1. Updates

- a. Illegal encampments – As part of an annual report on progress on the General Plan to Council, Staff provided the following: Park Rangers and staff from various public works divisions along with help from the Sheriff's Work Program were able to remove 470 cubic yards equaling 188 tons of debris from the City's parks and greenways in 2014.
- b. One Mile Concession Stand – The agreement with the Dog House to run the Concession Stand is approaching its renewal. The BPPC (3/29/10) approved the agreement for a 5-year period and a five year extension period. This allows discretion for the city manager to extend the agreement.
- c. Park Gates - Parks will be testing out some options on gate hours and tracking time to see what the impacts may be on operations and maintenance.

### 2. Administrative and Visitor Services

- a. Office Move – The Park and Street Tree Divisions have moved to the 3<sup>rd</sup> floor of the City Municipal Building on April 10<sup>th</sup>. The public counter is just south of the elevator. The counter hours are M-Th 8:30 – noon and 1 – 4:30 pm; and F 8:30 am – noon.

### 3. Planning/Monitoring

- a. Peregrine Point Disc Golf Monitoring – Staff is compiling information on the 2014 data and will present it to the BPPC likely at the May meeting.

### 4. Maintenance Program

Staff continues daily cleaning and safety inspections of all recreation areas including: grounds, playgrounds, picnic sites, roads and paths, coupled with daily cleaning and re-supplying of all park restrooms. Maintenance and repair of park fixtures, daily opening of gates, posting reservations, unauthorized camp clean up and the constant removal of graffiti from all park infrastructure.

- a. Lower Park: Park staff, completed the irrigation portion of the concession stand planting, the bike racks and bench are to follow most likely this month. Kiwanis club with support from park staff completed the One Mile swings surround (Thank you Kiwanis for the fine job!)
- b. Middle/Upper Park: Staff teamed up with Chico Velo volunteers to complete the install of trail kiosks at three locations in Upper Park, lots B, C and E to complete the Middle trail grant.
- c. Various Park Locations: Spring flail season has started, staff has made the first pass throughout the park and roadways. Drinking fountains are back on for the season throughout Bidwell Park
- d. Upcoming Projects: Bollards at Golden Birch entrance to Teichert Ponds, Bench and bike racks at concession stand, replace the hand dryers at Five Mile restrooms, Trail season starts.

## 5. Ranger and Lifeguard Programs

- a. Ranger Staffing– Lisa Barge has been selected for promotion to Senior Park Ranger. Her experience as a Park Ranger for the City of Chico for the past eight years will be beneficial to the new ranger staff.
  - i. Daniel Hiemstra will be starting in the full time permanent park ranger position on April 29<sup>th</sup>. He was selected after a competitive interview process of highly qualified candidates.
  - ii. From the same pool of applicants that Daniel was selected, an offer is pending to a top ranking applicant to fill the seasonal park ranger position. Park staff is hopeful to have the new team of rangers up and running by Memorial Day Weekend.
- b. Lifeguards – CARD has started recruitment for lifeguard staff at the Sycamore Pool.
- c. Significant Incidents – Alleged arsonist was apprehended in Upper Park by rangers and Chico police. On 3/22/15 several small fires were set in Upper Park between Alligator Hole and Bear Hole. Ranger Sandquist was able to suppress one of the fires while Chico fire worked on the others. Using the information collected from witnesses in the area, Ranger Sandquist was able to communicate the suspect information to Chico police. The suspect was apprehended by CPD and taken into custody on arson charges.
  - i. Injury accident. On 3/10/15, Ranger Barge responded to a fall victim on the Maidu Trail in Middle Park. The victim explained that she was clipped from behind by a large Labrador dog causing her to fall. The impact from the fall dislocated her knee. The victim was transported to Enloe for further treatment.
  - ii. Injury accident. On 3/30/15, Ranger Sandquist responded to a call from a park visitor who was the victim of an unleashed dog colliding into her. According to the victim's report she was running in Lower Bidwell Park at 9:00 am when a dog came running at her from the side and collided with her leg. The collision caused her to fall and fracture her knee. She was transported to Enloe for further treatment.

## 6. Natural Resource Management

- a. Chico Velo Trail Works– Volunteers from Chico Velo's Trail Works Program in partnership with the Park Division have been working on trimming back the vegetation from the sides of trails in Upper Park. Since March they have logged 113.5 hours.

## 7. Outreach and Education

- a. Spring Volunteer Orientation– The annual spring volunteer orientation for the Park's Division was held on March 26<sup>th</sup>. Nearly 40 interested community members were in attendance. The follow up trainings will place new volunteers in the Park Watch, Crew Leader or drop in volunteer programs.

Picnic in the Plaza (PiPs) – Pips continue every week on Tuesday from 11:30 am until 1 pm. Attendance at the PiPs is growing each week. More and more families are attending with their children.

## 8. Street Trees and Landscapes

- Staff planted 12- new trees in the downtown area and plan to plant another 12 next month.
- Due to the extreme dry weather conditions, we have started the irrigation of young trees a month early.

Category	Staff Hours	% of Total	% Change from Last Month	Trend
<b>Tree Crew Hours</b>				
1. Safety	45	11.4%	67.7%	
2. Tree Work	303	76.5%	145.0%	
3. Special Projects	0	0.0%	0.0%	
4. Admin Time/Other	48	12.1%	-	
Monthly Totals	396	100.0%	118.9%	

Item	Values	% Change from Last Month	Trend
<b>5. Productivity</b>			
<b>Calls</b>			
Call Outs	27	58.7%	▣▣▣
Service Requests: Submitted	0	-	
Service Requests: Completed	21	150.0%	▣▣▣
Sub Total	48	80.0%	▣▣▣
<b>Trees</b>			
Planted: Trees	12	-	▣▣
Pruned	98	27.2%	▣▣▣
Removed: Trees (smaller)	16	145.5%	-▣▣
Removed: Stumps	0	-	
Removed: Trees	0	-	
Sub Total	126	34.0%	▣▣▣
<b>Tree Permits (#)</b>			
Submitted	0	-	
Approved	9	450.0%	▣▣▣
Denied	4	-	▣▣
Total	13	650.0%	▣▣▣
<b>6. Contracts</b>			
Expenditures (\$)	\$ 1,125	100.0%	▣▣▣
<b>Trees (#)</b>			
Planted	0	-	
Pruned	0	-	
Removed: Trees (smaller)	0	-	
Removed: Stumps	0	-	
Removed: Trees	0	-	
Total	0	-	



## 9. Volunteer and Donor Program

- a. Cats in the Community – 60 California State University, Chico students cleaned up Annie's Glen in Bidwell Park on Cesar Chavez day. This event honors Cesar Chavez's legacy by giving back to the community. Students worked 11am-1pm removing non-native and invasive plants.
- b. Friends of Comanche Creek– Continues to work session
- c. CNPS– Finished removing privet trees along the Little Chico Creek bike path between Forest Ave and the downstream bike bridge with the help of Juvenile Hall teens and the Probation Dept. staff, project neighbors and a few CAVE students. Filled a 40- and a 30-yard roller bin with privet debris plus lots of dead branches from eucalyptus and ailanthus trees along the path.
- d. Earth Day – April 25<sup>th</sup> the Park Division will host the 10<sup>th</sup> annual Earth Day from 9am-12pm. This year's volunteer worksites include Comanche Creek, One Mile Recreation Area and Humboldt Neighborhood Park.

## 10. Upcoming Issues/Miscellaneous

- a. Extension of One Mile Concession Stand Agreement – As per the agreement, staff is looking into an extension of the agreement. A future BPPC packet will share some information about the concession stand and if the BPPC members would like, we can invite the lessee to answer any questions members may have about the program.
- b. Biennial Work plan – The work plan will be brought back following adoption of the FY budget.

## PHOTOGRAPHS



Street Tree staff teamed up with students from Chico High School to plant 3- trees along Esplanade for Arbor Day.



CCC members offer sawing demonstrations to visitors of the Picnic In the Plaza



One of the three new kiosks in Upper Park

## MONTHLY SUMMARY TABLES

**Table 1. Monthly Public Permits**

<b>Date</b>	<b>Location</b>	<b>Organization</b>	<b>Event</b>	<b>Participant #</b>
03/01/2015	City Plaza	Chico Corsa Cycling Club	Bicycle Race	450
03/07/2015	1 Mile thru Lower Park	Chico Running Club	Bidwell Classic 5K/ 1/2 Marathon	1200
03/21/2015	Lower Park	Under the Sun Events	Heart & Sole 5K/1Mile run	300
03/28/2015	1 Mile	Innovative Health Care - Peg Taylor	Walk & 5K Run	190
03/29/2015	Children's Playground	Bidwell Presbyterian Church	Easter Eggsravanza	250
<b>Totals</b>			<b>5</b>	<b>2390</b>

**Table 2. Monthly Private Permits**

<b>Type</b>	<b># Permits</b>	<b># Participants</b>
Private	7	450
Caper Acres	30	813
<b>Totals</b>	<b>37</b>	<b>1263</b>

**Table 3. Monthly Maintenance Hours.**

[Table not available]

**Table 4. Monthly Incidents**

<b>Ranger Report Incidents</b>	<b>Date</b>	<b>Location</b>	<b>Incident</b>	<b>Disposition</b>
	3/10/2015	Middle Park	Fall Injury	Victim Transported to Enloe
	3/16/2015	City Plaza	Fight	Report Taken
	3/17/2015	Lost Park	Fight	Report Taken
	3/18/2015	Upper Park	Fight	Report Taken
	3/20/2015	Lower Park	Assault/Battery	Report Taken
	3/20/2015	Lower Park	Warrant	Arrest
	3/23/2015	City Plaza	Strong Arm Robbery	Arrest
	3/27/2015	City Plaza	Domestic Violence	Arrest
	3/30/2015	Lower Park	Fall injury	Victim Transported to Enloe
	3/30/2015	Bidwell Bowl	Fight	Report Taken
	3/31/2015	Lower Park	Vehicle Burg	Report Taken
	3/31/2015	Bidwell Bowl	Fight	Report Taken

**Table 5. Monthly Citations and Warnings**

**Ranger Report - Citations 2015**

Violation - Citations	Monthly			Annual			Trend
	Total Citations	%	Rank	Total Citations	%	Rank	
Alcohol	0	0%	5	0	0%	6	
Animal Control Violations	0	0%	5	0	0%	6	
Bicycle Violation	0	0%	5	0	0%	6	
Glass	1	8%	4	2	9%	3	
Illegal Camping	4	33%	2	6	27%	2	
Injury/Destruction City Property	0	0%	5	0	0%	6	
Littering	0	0%	5	0	0%	6	
Other Violations	0	0%	5	1	5%	5	
Parking Violations	5	42%	1	11	50%	1	
Resist/Delay Park Ranger	0	0%	5	0	0%	6	
Smoking	2	17%	3	2	9%	3	
<b>Totals</b>	12	100%		22	100%		

Violation - Warnings	Monthly			Annual			Trend
	Total Warnings	%	Rank	Total Warnings	%	Rank	
Alcohol	3	2%	8	13	5%	6	
Animal Control Violations	16	11%	4	34	14%	4	
Bicycle Violation	31	22%	3	72	30%	1	
Glass	1	1%	10	1	0%	10	
Illegal Camping	32	23%	2	45	19%	2	
Injury/Destruction City Property	4	3%	7	4	2%	9	
Littering	12	9%	5	15	6%	5	
Other Violations	2	1%	9	5	2%	8	
Parking Violations	6	4%	6	10	4%	7	
Resist/Delay Park Ranger	1	1%	10	1	0%	10	
Smoking	33	23%	1	40	17%	3	
<b>Totals</b>	141	100%		240	100%		

**Attachments:**

- A. Horseshoe Lake

S:\Admin\BPPC\BPPC\_Meetings\2010\BPPC\_2010\_Templates\10\_BPPC\_\_meetings\BPPC\_Manager\_Report\_template\_10\_1029.doc  
4/22/2015

2014  
ANNUAL MONITORING REPORT

HORSESHOE LAKE PARKING AREA E  
MPR NO. R5-2005-0049  
CHICO, CA 95928

PREPARED FOR:

MR. PETER MACNICHOLL  
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY  
DEPARTMENT OF TOXIC SUBSTANCES CONTROL  
8800 CAL CENTER DRIVE  
SACRAMENTO, CA 95826-3268

PREPARED BY:

CHICO ENVIRONMENTAL SCIENCE & PLANNING  
333 MAIN STREET, SUITE 260  
CHICO, CA 95969

MARCH 12, 2015

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**FIGURE 2: SITE VICINITY**

### **ATTACHMENTS**

**ATTACHMENT 1: FIELD MONITORING SHEETS AND SITE PHOTOGRAPHS**

**ATTACHMENT 2: ANALYTICAL REPORTS**

## INTRODUCTION

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Chico Environmental is submitting this 2014 Annual Monitoring Report for the Horseshoe Lake Parking Area E on behalf of the City of Chico's Parks Department. Horseshoe Lake Parking Area E is located in Bidwell Park, Chico, California (**Figure 1**).

The Monitoring and Reporting Program was prepared to comply with the Post-Closure Maintenance Plan (PCMP) and the Monitoring and Report Program (MRP) for the Conditional Waiver of the Waste Discharge Requirements Order No. R5-2005-0049, issued on March 17, 2005 by the Central Valley Regional Water Quality Control Board (RWQCB). The monitoring program includes annual sampling of the supply well and Horseshoe Lake and quarterly sampling for the swales and the subsurface vault when water is present.

## 2014 MONITORING REPORT

---

Site monitoring includes inspections of the consolidation cell, cover and parking lot, and water sampling as required by and described in the original MRP and PCMP. The 2011 Action Workplan Review outlines the amended requirements for sampling and inspections at Horseshoe Lake Parking Area E. Below is a summary of the requirements for Chico Environmental:

### 1) Facility Monitoring Inspections

- a. A minimum of two facility-monitoring inspections will be conducted, one during the wet season and one the dry season. Inspections shall include visually inspecting the monitoring vault and documenting the absence or presence of water.

### 2) Water Sampling

- a. Consultant shall collect annual water samples from the following:
  1. Horseshoe Lake
  2. The water supply well

If water is present at the time of the scheduled sampling event, samples will also be collected from:

3. The monitoring vault
4. Two stormwater sampling locations

- b. Water samples will be subcontracted, by the consultant, to an analytical laboratory for analysis.

### 3) Annual Monitoring Report

- a. Consultant shall produce one Annual Monitoring Report to summarize monitoring results to the DTSC and RWQCB. The report shall include site observations, results of quarterly monitoring inspections, a summary of maintenance and repair activities, sampling procedures and laboratory results. The draft Annual Monitoring Report shall

be provided to the City for review. Further, the consultant shall then submit the report to the RWQCB and DTSC on the city's behalf, with one copy provided to the city.

b. The consultant shall upload the report and electronic data deliverable (EDD) files to the State's Geotracker database.

## COVER INSPECTIONS

---

Chico Environmental performed four quarterly inspections of the consolidation cell cover, parking lot and associated drainage features in 2014. Inspections took place on March 11<sup>th</sup>, June 4<sup>th</sup>, August 24<sup>th</sup> and December 24<sup>th</sup>, 2014. During all inspections, the facility appeared in overall good condition. Inspection checklists and site photographs are provided in **Attachment 1**.

The City of Chico diligently maintained the site during the 2014 monitoring year. New stretches of fence were installed in February and March and parking lot potholes were filled in March and April. Weed control was applied along fence areas in mid march. The City of Chico's Maintenance records also indicate the onsite drinking fountain will be/has been equipped with better freeze protection.

## WATER SAMPLING

---

Chico Environmental monitored water in the subsurface vault, supply well, western stormwater swale, and surface water of Horseshoe Lake as required by the MRP and amended in the AWR. Samples were collected from the supply well, surface waters of Horseshoe Lake and the vault. All water samples were collected in laboratory-sealed 250 mL polypropylene sampling containers. Samples intended for total lead analysis were pre-preserved with nitric acid (HNO<sub>3</sub>). Samples intended for dissolved lead analysis were field filtered through a .45 micron filter and placed in unpreserved sampling containers. A new pair of nitrile gloves was worn during the collection of each sample to reduce the potential for cross contamination. Once collected, samples were placed in pre-cooled ice chests and delivered to Fruit Growers Laboratory (FGL Lab) in Chico, California. Proper chain of custody procedures were followed at all times. Complete analytical laboratory reports are included in **Attachment 2**. Historical sampling results for the project area are summarized and attached in **Table 1**.

## VAULT

---

The monitoring vault is 3 feet wide, 3 feet long and 3 feet deep and is located at the toe of the consolidated material on the north side of the parking lot. The vault contains a riser that provides a maximum measurement of 48 inches from the bottom of the vault to the top of the vault's riser. The vault is connected to approximately 127 linear feet of perforated pipe that drains a subgrade layer of permeable fill located beneath the consolidated soil and debris. The purpose of the permeable subgrade is to allow water that drains from the consolidated materials to accumulate in clean soil, minimizing the time of water contact with the



consolidated material. The intent of the vault is to allow a means to monitor the quantity and quality of water that flows beneath the consolidated material.

Vault monitoring occurred in during each inspection and consisted of:

- Visually inspecting its condition and measuring the water depth in the vault
- Collecting a water sample or samples during the wet and the dry season provided that the water depth was sufficient to allow sampling with a bailer (i.e. depths greater than 3 inches as measured from the bottom of the sump).
- Submitting the samples for analysis of total lead and dissolved lead by EPA Method 200.8.

The vault remained in good condition throughout the year. Water depth measurements and sampling results are summarized below.

Samples were collected from the vault on March 11<sup>th</sup> and December 24<sup>th</sup>, 2014.

#### VAULT MONITORING DATA

VAULT MONITORING RESULTS				
DATE	WATER DEPTH	TOTAL LEAD (µg/L)	DISSOLVED LEAD (µg/L)	MCL (µg/L)
11-Mar-14	5 INCHES	0.6	ND	15
24-Dec-14	4 INCHES	ND	ND	15
ND: RESULT BELOW LABORATORY DETECTION LIMIT				

#### SUPPLY WELL

A drinking water supply well is located approximately 500 feet southwest of the Horseshoe Lake parking lot (**Figure 2**). Water from the well is pumped from approximately 200 feet below ground surface and piped to the Chico Rod and Gun Club building and drinking fountains at the Horseshoe Lake parking lot.

The MRP requires sampling of this well annually for total and dissolved lead. Chico Environmental collected a groundwater sample on June 4, 2014. The samples was collected from a sample port at the wellhead after the well was properly purged. The supply well was analyzed for total and dissolved lead. The results indicated that both samples were below the lead Maximum Contaminant Level (MCL) of 15 µg/L, as summarized below.

SUPPLY WELL MONITORING RESULTS			
DATE	TOTAL LEAD (µg/L)	DISSOLVED LEAD (µg/L)	MCL (µg/L)
11-Mar-14	1.7	1.1	15
ND: RESULT BELOW LABORATORY DETECTION LIMIT			

## SURFACE WATER

The MRP requires annual sampling of water from Horseshoe Lake and its drainage courses for total and dissolved lead. Surface water was collected on August 24<sup>th</sup>, 2014.

The results indicated that both samples were below the Maximum Contaminant Level (MCL) of 15 µg/L, as summarized below.

SURFACE WATER MONITORING RESULTS			
DATE	TOTAL LEAD (µg/L)	DISSOLVED LEAD (µg/L)	MCL (µg/L)
6/4/14	0.6	0.354	15
ND: RESULT BELOW LABORATORY DETECTION LIMIT			

No samples exceeded regulatory criteria or require additional attention at this time.

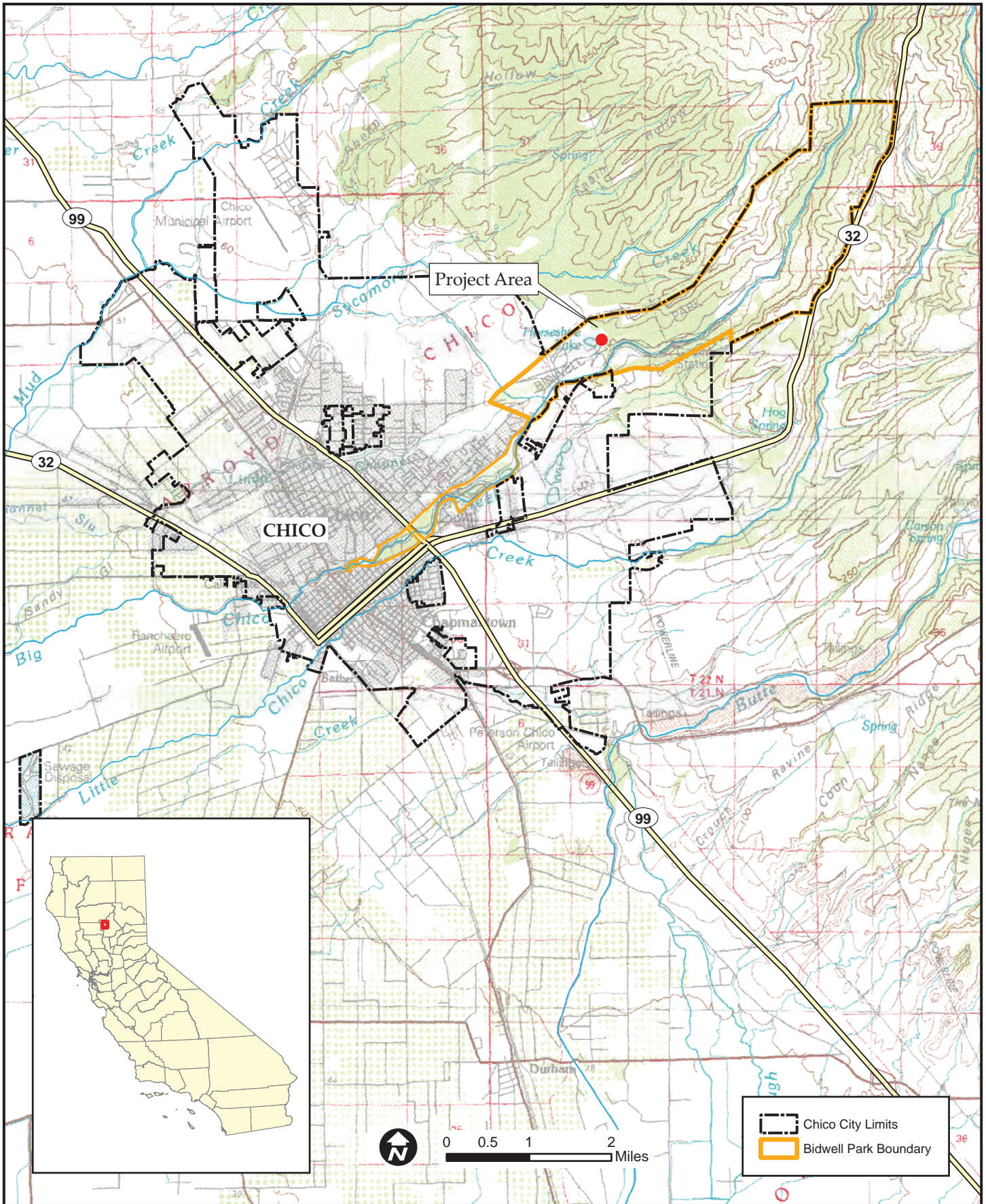
This report satisfies the post-closure monitoring requirements as described in the PCMP. Please do not hesitate to contact us with any questions or concerns.



John Lane, Professional Geologist #7717  
 Chico Environmental Principal Scientist/Owner  
 jlane@chicoenvironmental.com  
 (530) 899-2900

## FIGURES

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**Figure 1: Site Location**  
*Horseshoe Lake Parking Area E*  
*Bidwell Park, Chico, CA*

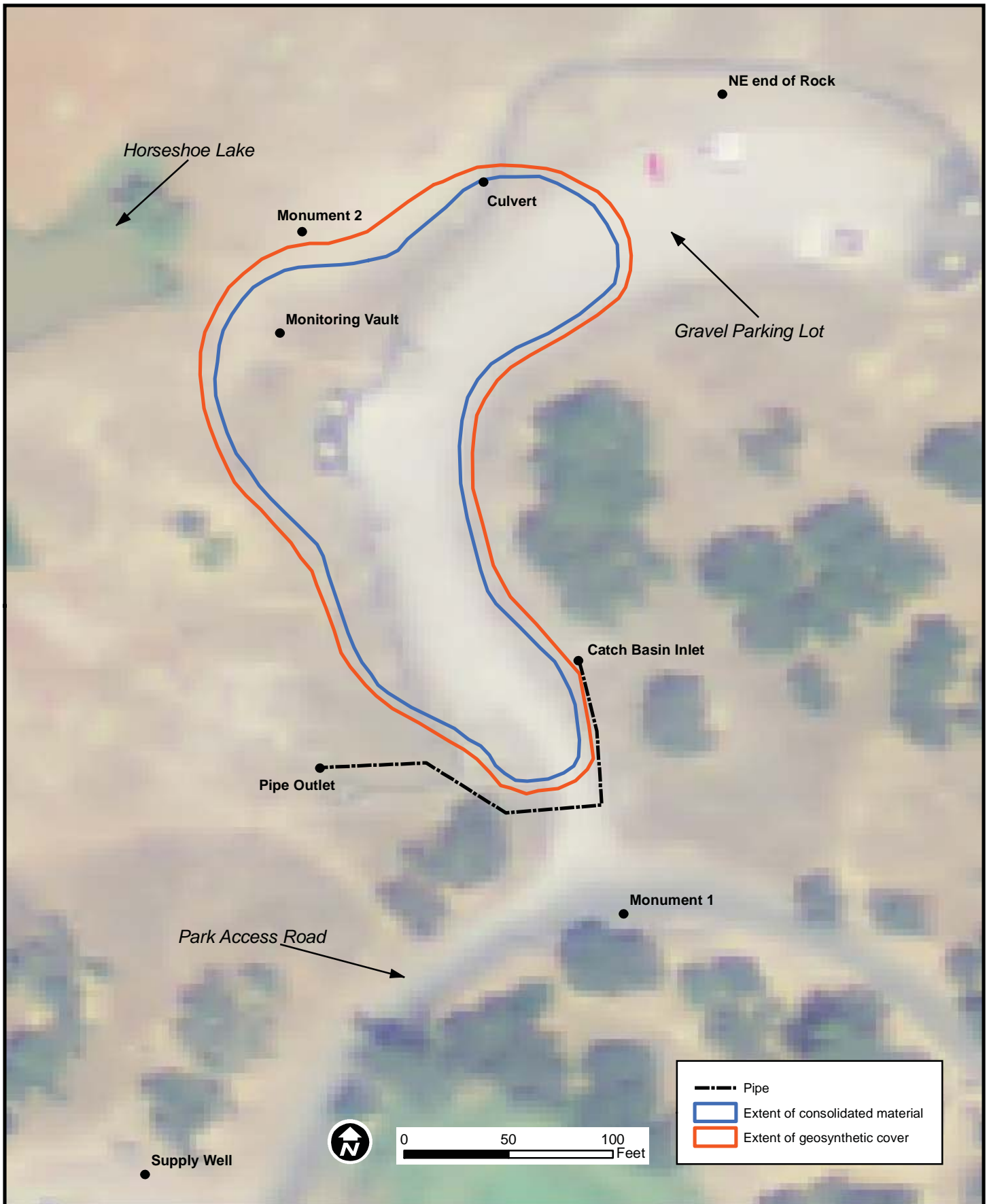


Figure 2: Site Vicinity



ATTACHMENT 1: FIELD MONITORING SHEETS AND SITE PHOTOGRAPHS

ATTACHMENT 1

Inspection Checklist  
Horseshoe Lake Consolidation Cell  
Bidwell Park, Chico, California

Inspector JOHN LANE, JESS KOLSTAD date MARCH 11, 2014  
(VAULT SAMPLING)

Affiliation CHILCO ENVIRONMENTAL Weather SUNNY, WARM

INSTRUCTIONS:

- Note "yes" or "no" for each item
- Provide written descriptions as indicated noting both conditions observed and planned action. For planned actions, complete Table 2.
- Note locations of pertinent observations on attached site plan.
- Photograph areas of issue.

Yes/No

YES 1. Is the grass in good condition (free of bare ground or patches of dead grass)? If no, explain and document with photo.

GREAT COVER; RECRUITMENT

YES 2. Does the grass need moving to allow for proper inspection? If no, explain.

YES 3. Are Shrubs/ seedlings present? If yes, explain.

A FEW SEEDLINGS PLANTED (INTENTIONALLY)  
ALONG SOUTHERN EXTENT OF CELL.

NO 4. Are there any landfill areas with depressions (exhibiting ponded water after rainfall events)? If yes, explain and document with photo.

YES 5. Are there any washouts (e.g., gullies created by rainwater) or signs of erosion? Is the geotextile fabric marker exposed anywhere? If yes, explain and document with photo.

SLIGHT RILLING/GULLYING ALONG FOOTPATH  
ADJACENT TO NORTH CENTRAL EXTENT OF CELL  
(PHOTO 6). GEOTEXTILE FAB. NOT EXPOSED  
(WILL CONTACT CITY OF CHILCO VIA EMAIL)

ATTACHMENT 1 (CONT'D)

YES 6. Are drainage controls in good condition (e.g., silt fencing, erosion mat)? If no, explain and document with photo.

\_\_\_\_\_

\_\_\_\_\_

YES 7. Are the swales and culvert in good condition (e.g., clear of obstructions)? If no, explain and document with photo.

\_\_\_\_\_

\_\_\_\_\_

YES 8. Is water present in the monitoring sump? If yes, indicate if water is flowing or ponded and, estimate approximate volume and/or flow rate. Indicate if a water sample was collected.

VAULT FULL OF PONDDED WATER. A SAMPLE WAS COLLECTED FOR ANALYSIS. (TOTAL DISSOLVED LEAD)

YES 9. Is the parking lot surface in good condition? If no, explain.

\_\_\_\_\_

\_\_\_\_\_

NO 10. Are there signs of animals burrowing or any other type of animal-related disturbance within the landfill area? If yes, explain.

\_\_\_\_\_

\_\_\_\_\_

NO 11. Is there anything unusual on the landfill grounds (e.g., signs of fire, digging or other disturbance of soil)? If yes, explain.

\_\_\_\_\_

\_\_\_\_\_

YES 12. Are the benchmarks still in good condition? If no, explain.

\_\_\_\_\_

\_\_\_\_\_

WELL-MAINTAINED BY CITY OF CHILCO. SUCCESSFUL EFFORTS TO REDUCE ROUGH FOOT-PATHS (PHOTOS).



HORSESHOE LAKE PARKING AREA E INSPECTION (AND VAULT SAMPLING): MARCH 11, 2014



Photo 1: Northern extent of containment cell overview (view north)



Photo 2: Parking lot area overview (view northeast)



Photo 3: Northwest extent of containment cell (view southeast)



Photo 4: Southern extent of containment cell overview (view north)



Photo 5: Successful efforts by the City of Chico to reduce rouge footpaths (view south)



Photo 6: Evidence of rilling along footpath adjacent to north central extent of cell (view southwest)

ATTACHMENT 1

Inspection Checklist  
Horseshoe Lake Consolidation Cell  
Bidwell Park, Chico, California

Inspector JOHN LAINE, JESS KOLSTAD Date JUNE 4, 2014  
(WELL SAMPLING)

Affiliation CHILD ENVIRONMENTAL Weather SUNNY, DRY

INSTRUCTIONS:

- Note "yes" or "no" for each item
- Provide written descriptions as indicated noting both conditions observed and planned action. For planned actions, complete Table 2.
- Note locations of pertinent observations on attached site plan.
- Photograph areas of issue.

Yes/No

YES 1. Is the grass in good condition (free of bare ground or patches of dead grass)? If no, explain and document with photo.  
GREAT COVER

YES 2. Does the grass need moving to allow for proper inspection? If no, explain.  
\_\_\_\_\_

YES 3. Are Shrubs/ seedlings present? If yes, explain.  
INTENTIONAL SHRUBS & SEEDLINGS

NO 4. Are there any landfill areas with depressions (exhibiting ponded water after rainfall events)? If yes, explain and document with photo.  
\_\_\_\_\_

NO 5. Are there any washouts (e.g., gullies created by rainwater) or signs of erosion? Is the geotextile fabric marker exposed anywhere? If yes, explain and document with photo.  
(PREVIOUSLY OBSERVED GULLYING ALONG NORTHERN FOOTPATH REMEDIATED)

ATTACHMENT 1 (CONT'D)

YES 6. Are drainage controls in good condition (e.g., silt fencing, erosion mat)? If no, explain and document with photo.

\_\_\_\_\_

\_\_\_\_\_

YES 7. Are the swales and culvert in good condition (e.g., clear of obstructions)? If no, explain and document with photo.

\_\_\_\_\_

\_\_\_\_\_

YES 8. Is water present in the monitoring sump? If yes, indicate if water is flowing or ponded and, estimate approximate volume and/or flow rate. Indicate if a water sample was collected.

APPROX. 2 FEET OF WATER IS PONDING IN THE VAULT. (NO SAMPLE COLLECTED)

YES 9. Is the parking lot surface in good condition? If no, explain.

\_\_\_\_\_

\_\_\_\_\_

NO 10. Are there signs of animals burrowing or any other type of animal-related disturbance within the landfill area? If yes, explain.

\_\_\_\_\_

\_\_\_\_\_

NO 11. Is there anything unusual on the landfill grounds (e.g., signs of fire, digging or other disturbance of soil)? If yes, explain.

\_\_\_\_\_

\_\_\_\_\_

YES 12. Are the benchmarks still in good condition? If no, explain.

\_\_\_\_\_

\_\_\_\_\_

WELL MAINTAINED BY CITY OF CHILCO. ALL PREVIOUS ISSUES WERE RESOLVED.

\_\_\_\_\_

HORSESHOE LAKE PARKING AREA E INSPECTION (AND WELL SAMPLING): JUNE 4, 2014



Photo 1: Northern extent of containment cell overview (view north)



Photo 2: Parking lot area overview (view northeast)



Photo 3: Northwest extent of containment cell (view southeast)



Photo 4: Southern extent of containment cell  
Note: newly-replaced fence boards (view north)



Photo 5: Previous footbaths are no longer present and vegetation is abundant, despite the dry conditions (view south)



Photo 6: Rilling along footpath adjacent to north central extent of cell has been corrected (view southwest)

ATTACHMENT 1

Inspection Checklist  
Horseshoe Lake Consolidation Cell  
Bidwell Park, Chico, California

Inspector JOHN LANE / JESS KOISTAD date AUGUST 27, 2014

Affiliation CHILD ENVIRONMENTAL Weather SUNNY, WARM, DRY

INSTRUCTIONS:

- Note "yes" or "no" for each item
- Provide written descriptions as indicated noting both conditions observed and planned action. For planned actions, complete Table 2.
- Note locations of pertinent observations on attached site plan.
- Photograph areas of issue.

Yes/No

yes 1. Is the grass in good condition (free of bare ground or patches of dead grass)? If no, explain and document with photo.

\_\_\_\_\_

No 2. Does the grass need moving to allow for proper inspection? If no, explain.

\_\_\_\_\_

No 3. Are Shrubs/ seedlings present? If yes, explain.

\_\_\_\_\_

No 4. Are there any landfill areas with depressions (exhibiting ponded water after rainfall events)? If yes, explain and document with photo.

\_\_\_\_\_

No 5. Are there any washouts (e.g., gullies created by rainwater) or signs of erosion? Is the geotextile fabric marker exposed anywhere? If yes, explain and document with photo.

\_\_\_\_\_

\_\_\_\_\_

ATTACHMENT 1 (CONT'D)

Yes 6. Are drainage controls in good condition (e.g., silt fencing, erosion mat)? If no, explain and document with photo.

\_\_\_\_\_

\_\_\_\_\_

Yes 7. Are the swales and culvert in good condition (e.g., clear of obstructions)? If no, explain and document with photo.

\_\_\_\_\_

\_\_\_\_\_

No 8. Is water present in the monitoring sump? If yes, indicate if water is flowing or ponded and, estimate approximate volume and/or flow rate. Indicate if a water sample was collected.

\_\_\_\_\_

\_\_\_\_\_

No 9. Is the parking lot surface in good condition? If no, explain.

pot holes are beginning to form

Yes 10. Are there signs of animals burrowing or any other type of animal-related disturbance within the landfill area? If yes, explain.

3. gopher holes on cap near middle trail route

No 11. Is there anything unusual on the landfill grounds (e.g., signs of fire, digging or other disturbance of soil)? If yes, explain.

\_\_\_\_\_

\_\_\_\_\_

Yes 12. Are the benchmarks still in good condition? If no, explain.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

HORSESHOE LAKE PARKING AREA E INSPECTION (AND LAKE SAMPLING): AUGUST 27, 2014



Photo 1: Northern extent of containment cell overview (view north)



Photo 2: Parking lot area overview (view northeast)



Photo 3: Northwest extent of containment cell (view southeast) Good vegetative cover but unintentional footpaths are developing



Photo 4: Southern extent of containment cell (view north)



Photo 5: Two rodent burrows were identified on the northern extent to the containment cell



Photo 6: Rilling along footpath adjacent to north central extent of cell has been corrected

ATTACHMENT 1

Inspection Checklist

Horseshoe Lake Consolidation Cell  
Bidwell Park, Chico, California

Inspector JOHN LANE, JESS KOJATA Date 12/24/2014

Affiliation CHILD ENVIRONMENTAL Weather CLOUDY ~ SUN

INSTRUCTIONS:

- Note "yes" or "no" for each item
- Provide written descriptions as indicated noting both conditions observed and planned action. For planned actions, complete Table 2.
- Note locations of pertinent observations on attached site plan.
- Photograph areas of issue.

Yes/No

YES\* 1. Is the grass in good condition (free of bare ground or patches of dead grass)? If no, explain and document with photo.  
ROUTE FOOTPATH ALONG WESTERN EXTENT OF LANDFILL. PHOTO ATTACHED / CITY INFORMED

YES 2. Does the grass need moving to allow for proper inspection? If no, explain.

YES 3. Are Shrubs/ seedlings present? If yes, explain.  
CAGED SHRUBS STILL PRESENT ON EASTERN LANDFILL SLOPE.

YES 4. Are there any landfill areas with depressions (exhibiting ponded water after rainfall events)? If yes, explain and document with photo.  
ENTRANCE TO PARKING LOT, SELECT AREAS IN PARKING LOT (PHOTOS ATTACHED, CITY INFORMED)

YES 5. Are there any washouts (e.g., gullies created by rainwater) or signs of erosion? Is the geotextile fabric marker exposed anywhere? If yes, explain and document with photo.  
EROSION ALONG NORTHWEST FOOTPATH (AS OBSERVED LAST YEAR). PHOTO ATTACHED, CITY INFORMED



ATTACHMENT 1 (CONT'D)

YES 6. Are drainage controls in good condition (e.g., silt fencing, erosion mat)? If no, explain and document with photo.

\_\_\_\_\_  
\_\_\_\_\_

YES 7. Are the swales and culvert in good condition (e.g., clear of obstructions)? If no, explain and document with photo.

\_\_\_\_\_  
\_\_\_\_\_

YES 8. Is water present in the monitoring sump? If yes, indicate if water is flowing or ponded and, estimate approximate volume and/or flow rate. Indicate if a water sample was collected.

POUNDED WATER PRESENT-SUMP NEARLY FULL.  
SAMPLE COLLECTED FOR LEAD ANALYSIS

ND 9. Is the parking lot surface in good condition? If no, explain.

SEVERAL LOCALIZED INUNDATED AREAS  
INCLUDING ENTRANCE TO PARKING LOT.  
PHOTO ATTACHED; CITY INFORMED.

ND 10. Are there signs of animals burrowing or any other type of animal-related disturbance within the landfill area? If yes, explain.

\_\_\_\_\_  
\_\_\_\_\_

YES 11. Is there anything unusual on the landfill grounds (e.g., signs of fire, digging or other disturbance of soil)? If yes, explain.

AUTOMOBILE TRACKS LEADING TO HORSESHOE LAKE.  
THE CITY HAS COVERED EXPOSED AREAS  
WITH STRAW TO REMEDIATE.

YES 12. Are the benchmarks still in good condition? If no, explain.

\_\_\_\_\_  
\_\_\_\_\_

CITY WILL BE INFORMED OF NECESSARY MAINTENANCE.  
OVERALL, HAVE DONE A GREAT JOB THIS  
YEAR.

HORSESHOE LAKE PARKING AREA E INSPECTION (AND VAULT SAMPLING): DECEMBER 24, 2014



Photo 1: Northern extent of containment cell overview (view north). Good vegetative cover.



Photo 2: Potholes observed in parking lot area entrance (view northeast)



Photo 3: Northwest extent of containment cell (view southeast) Good vegetative cover but unintentional footpath continuing to develop.



Photo 4: Southern extent of containment cell (view north)



Photo 5: Hay covering tire tracks near Horseshoe Lake



Photo 6: Rilling along footpath adjacent to north central extent of cell

ATTACHMENT 2: LABORATORY ANALYTICAL REPORTS

---

March 26, 2014

**Chico Environmental Science**  
 333 Main St Suite 260  
 Chico, CA 95928

Lab ID : CH 1471526  
 Customer : 7-1398

### Laboratory Report

**Introduction:** This report package contains total of 4 pages divided into 3 sections:

Case Narrative (2 pages) : An overview of the work performed at FGL.  
 Sample Results (1 page) : Results for each sample submitted.  
 Quality Control (1 page) : Supporting Quality Control (QC) results.

### Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
HSL-VAULT	03/11/2014	03/11/2014	CH 1471526-001	DW

**Sampling and Receipt Information:** The sample was received, prepared and analyzed within the method specified holding times. All samples arrived at room temperature. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

**Quality Control:** All samples were prepared and analyzed according to the following tables:

### Inorganic - Metals QC

200.8	03/13/2014:203631 All analysis quality controls are within established criteria.
	03/17/2014:203923 All analysis quality controls are within established criteria.
	03/13/2014:202857 All preparation quality controls are within established criteria.
	03/17/2014:202981 All preparation quality controls are within established criteria, except: The following note applies to Lead: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

March 26, 2014  
**Chico Environmental Science**

Lab ID : CH 1471526  
Customer : 7-1398

**Certification::** I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.

KD:DMB

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.  
Title: Laboratory Director  
Date: 2014-03-27

---



March 26, 2014

Lab ID : CH 1471526-001

Customer ID : 7-1398

Chico Environmental Science

333 Main St Suite 260

Chico, CA 95928

Sampled On : March 11, 2014-09:20

Sampled By : Jess Kolstad

Received On : March 11, 2014-09:45

Matrix : Drinking Water

Description : HSL-VAULT

Project : Water Testing

Sample Result - Inorganic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>Metals, Diss<sup>P:1</sup></b>								
Lead	ND	0.5	ug/L	15	200.8	03/17/14:202981	200.8	03/17/14:203923
<b>Metals, Total<sup>P:1</sup></b>								
Lead	0.6	0.5	ug/L	15	200.8	03/13/14:202857	200.8	03/13/14:203631

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: N/A ‡Surrogate. \* PQL adjusted for dilution. MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.



March 26, 2014  
Chico Environmental Science

Lab ID : CH 1471526  
Customer : 7-1398

**Quality Control - Inorganic**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note	
<b>Metals</b> Lead	200.8	(CC 1480793-001)	MS	ug/L	5.000	96.8 %	75-125		
			MSD	ug/L	5.000	107 %	75-125		
			MSRPD	ug/L	5.000	10.4%	≤20		
	200.8	03/13/14:203631AC	CCV	ppb	120.0	98.0 %	90-110		
			CCB	ppb		-0.011	0.5		
			CCV	ppb	120.0	95.4 %	90-110		
			CCB	ppb		-0.013	0.5		
	200.8	(CC 1480806-001)	MS	ug/L	5.000	91.9 %	75-125		
			MSD	ug/L	5.000	114 %	75-125		
			MSRPD	ug/L	5.000	20.7%	≤20	435	
	200.8	03/17/14:203923AC	CCV	ppb	120.0	100 %	90-110		
			CCB	ppb		-0.008	0.5		
			CCV	ppb	120.0	101 %	90-110		
			CCB	ppb		-0.003	0.5		
	<b>Definition</b>								
	CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.								
CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.									
MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.									
MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.									
MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.									
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.									
<b>Explanation</b>									
435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.									

April 3, 2014

**Chico Environmental Science**  
 333 Main St Suite 260  
 Chico, CA 95928

Lab ID : CH 1471526  
 Customer : 7-1398

### Laboratory Report

**Introduction:** This report package contains total of 4 pages divided into 3 sections:

Case Narrative (2 pages) : An overview of the work performed at FGL.  
 Sample Results (1 page) : Results for each sample submitted.  
 Quality Control (1 page) : Supporting Quality Control (QC) results.

### Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
VLT-FLDNON	03/11/2014	03/11/2014	CH 1471526-001	DW

**Sampling and Receipt Information:** The sample was received, prepared and analyzed within the method specified holding times. All samples arrived at room temperature. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

**Quality Control:** All samples were prepared and analyzed according to the following tables:

### Inorganic - Metals QC

200.8	03/13/2014:203631 All analysis quality controls are within established criteria.
	03/17/2014:203923 All analysis quality controls are within established criteria.
	03/13/2014:202857 All preparation quality controls are within established criteria.
	03/17/2014:202981 All preparation quality controls are within established criteria, except: The following note applies to Lead: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

### Discussion of Analytical Results: - CH 1471526

SP 1403606; This sample was set up to detect Total and Fecal Coliform from 1.8-160,000 MPN/100 ml



April 3, 2014  
**Chico Environmental Science**

Lab ID : CH 1471526  
Customer : 7-1398

**Discussion of Analytical Results:** Continued...

Amended Report 04-03-14  
CH 1471526-001 VLT-FLDNON

Amended to correct system number.

**Certification::** I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.

KD:GMA

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.  
Title: Laboratory Director  
Date: 2014-04-03



April 3, 2014

Lab ID : CH 1471526-001

Customer ID : 7-1398

Chico Environmental Science

333 Main St Suite 260

Chico, CA 95928

Sampled On : March 11, 2014-09:20

Sampled By : Jess Kolstad

Received On : March 11, 2014-09:45

Matrix : Drinking Water

Description : VLT-FLDNON

Project : Water Testing

Sample Result - Inorganic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>Metals, Diss</b> <sup>P:1</sup>								
Lead	ND	0.5	ug/L	15	200.8	03/17/14:202981	200.8	03/17/14:203923
<b>Metals, Total</b> <sup>P:1</sup>								
Lead	0.6	0.5	ug/L	15	200.8	03/13/14:202857	200.8	03/13/14:203631

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: N/A ‡Surrogate. \* PQL adjusted for dilution. MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

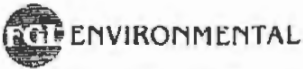


April 3, 2014  
Chico Environmental Science

Lab ID : CH 1471526  
Customer : 7-1398

**Quality Control - Inorganic**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note	
Metals Lead	200.8	(CC 1480793-001)	MS	ug/L	5.000	96.8 %	75-125		
			MSD	ug/L	5.000	107 %	75-125		
			MSRPD	ug/L	5.000	10.4%	≤20		
	200.8	03/13/14:203631AC	CCV	ppb	120.0	98.0 %	90-110		
			CCB	ppb		-0.011	0.5		
			CCV	ppb	120.0	95.4 %	90-110		
			CCB	ppb		-0.013	0.5		
	200.8	(CC 1480806-001)	MS	ug/L	5.000	91.9 %	75-125		
			MSD	ug/L	5.000	114 %	75-125		
			MSRPD	ug/L	5.000	20.7%	≤20	435	
	200.8	03/17/14:203923AC	CCV	ppb	120.0	100 %	90-110		
			CCB	ppb		-0.008	0.5		
			CCV	ppb	120.0	101 %	90-110		
			CCB	ppb		-0.003	0.5		
	<b>Definition</b>								
	CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.								
CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.									
MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.									
MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.									
MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.									
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.									
<b>Explanation</b>									
435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.									



**CHAIN OF CUSTODY  
AND ANALYSIS REQUEST DOCUMENT**

Client: Chico Environmental Science Customer Number: 7001398 Address: 333 Main St Suite 260 Chico, CA 95928  Phone: (530)899-2900 Fax: (530)899-2754 Contact Person: John Lane Project Name: Purchase Order Number: Quote Number:				Lab Number: <b>1471526</b>		TEST DESCRIPTION AND ANALYSES REQUESTED																	
Sampler(s): <b>JESS KOLSTAD</b>  Sampling Fee: _____ Pickup Fee: _____ Composter Setup Date: _____ Time: _____				Method of Sampling: Composite (C), Grab (G)	Number of Containers	Type of Containers: (D) Glass (P) Plastic (M) VOA (MT) Metal Tube	Penicillin (P) Non-Penicillin (NP) Ag Water (AgW)	(SW) Surface Water (MW) Monitoring Well (GW) Ground Water (TB) Travel Blank (MW) Waste Water (CW) Drinking Water (S) Soil (SLD) Sludge (SLD) Seed (O) Oil	Bact (SW) System (BRC) Source (W) Waste	Bact (ROUT) Routine (RPT) Repeat (OTH) Other (RPL) Replace	(LT) Leaf Tissue (PET) Petiole Tissue (PRD) Produce	Preservatives: (1) NaOH (2) ZnAc (3) NaOH (3) HCl (4) H2SO4 (5) HNO3 (6) H2SO4 (7) Other	TOTAL LEAD	DISSOLVED LEAD									
Samp Num	Location Description	Date Sampled	Time Sampled	Method	Containers	Penicillin	Water	Soil	Bact	Bact	Leaf	Preservative	Lead	Lead									
1	HSL-VAULT	3/11/14	9:20	G	2	P	NP						X	X									
Remarks: (1) FIELD FILTERED / UNPRESERVED (2) UNFILTERED, HNO <sub>3</sub> PRESERVED				Relinquished By: <i>[Signature]</i> Date: 3/11/14 Time: 0951		Received By: <i>[Signature]</i> Date: 3-11-14 Time: 0945		Relinquished By: <i>[Signature]</i> Date: 3-11-14 Time: 1700		Received By: <i>[Signature]</i> Date: 3-11-14 Time: 1700		Relinquished By: <i>[Signature]</i> Date: 3/11/14 Time: 1530		Received By: <i>[Signature]</i> Date: 3/11/14 Time: 1530									

\* NEED GEOTRAKLER FORMAT

1471526

### Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC CH VI

1. Number of ice chests/packages received: OTC Shipping tracking # \_\_\_\_\_

2. Were samples received in a chilled condition? Temps: 11.1 / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

- 3. Do the number of bottles received agree with the COC?  Yes  No  N/A
- 4. Were samples received intact? (i.e. no broken bottles, leaks etc.)  Yes  No
- 5. VOAs checked for Headspace?  Yes  No  N/A
- 6. Were sample custody seals intact?  Yes  No  N/A
- 7. If required, was sample split for pH analysis?  Yes  No  N/A
- 8. Were all analyses within holding times at time of receipt?  Yes  No
- 9. Verify sample date, time and sampler name  Yes  No

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.  
Sample Receipt Review completed by (initials): [Signature]

#### Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 4 / 4 / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
Acceptable is above freezing to 6° C. If many packages are received at one time check for tests/H.T.'s/rushes/

2. Shipping tracking numbers:  
D10010665010496 + D10010665002118

- 3. Do the number of bottles received agree with the COC?  Yes  No  N/A
- 4. Were samples received intact? (i.e. no broken bottles, leaks etc.)  Yes  No
- 5. Were sample custody seals intact?  Yes  No  N/A

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

#### Sample Verification, Labeling and Distribution:

- 1. Were all requested analyses understood and acceptable?  Yes  No
- 2. Did bottle labels correspond with the client's ID's?  Yes  No
- 3. Were all bottles requiring sample preservation properly preserved?  Yes  No  N/A FGL
- 4. VOAs checked for Headspace?  Yes  No  N/A
- 5. Have rush or project due dates been checked and accepted?  Yes  No  N/A
- 6. Were all analyses within holding times at time of receipt?  Yes  No

Attach labels to the containers and include a copy of the COC for lab delivery.  
Sample Receipt, Login and Verification completed by (initials): [Signature]

#### Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Initiated By: \_\_\_\_\_ Date: \_\_\_\_\_  
Problem: \_\_\_\_\_  
Resolution: \_\_\_\_\_

2. Person Contacted: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Initiated By: \_\_\_\_\_ Date: \_\_\_\_\_  
Problem: \_\_\_\_\_  
Resolution: \_\_\_\_\_

(Please use the back of this sheet for additional comments or contacts)

(1-1398)  
Chico Environmental Science  
CH 1471526  
IV-03/12/2014-15:43:36

July 3, 2014

**Chico Environmental Science**  
 333 Main St Suite 260  
 Chico, CA 95928

Lab ID : CH 1473518  
 Customer : 7-1398

### Laboratory Report

**Introduction:** This report package contains total of 5 pages divided into 3 sections:

Case Narrative (2 pages) : An overview of the work performed at FGL.  
 Sample Results (2 pages) : Results for each sample submitted.  
 Quality Control (1 page) : Supporting Quality Control (QC) results.

### Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
Well- F	06/04/2014	06/04/2014	CH 1473518-001	DW
Well-UF	06/04/2014	06/04/2014	CH 1473518-002	DW

**Sampling and Receipt Information:** All samples were received, prepared and analyzed within the method specified holding times. All samples arrived at room temperature. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

**Quality Control:** All samples were prepared and analyzed according to the following tables:

### Inorganic - Metals QC

200.8	06/10/2014:208523 All analysis quality controls are within established criteria
	06/27/2014:209580 All analysis quality controls are within established criteria
	06/10/2014:206670 All preparation quality controls are within established criteria
	06/27/2014:207488 All preparation quality controls are within established criteria

### Discussion of Analytical Results: Amended Report

Report amended to change sample location descriptions for Geotracker reporting.

July 3, 2014

**Chico Environmental Science**

Lab ID : CH 1473518

Customer : 7-1398

**Certification::** I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.

KD:DMB

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.  
Title: Laboratory Director  
Date: 2014-07-08

---



July 3, 2014

Lab ID : CH 1473518-001

Customer ID : 7-1398

Chico Environmental Science

333 Main St Suite 260

Chico, CA 95928

Sampled On : June 4, 2014-12:28

Sampled By : John Lane

Received On : June 4, 2014-12:48

Matrix : Drinking Water

Description : Well- F

Project : Horeshoe Lake Monitoring

Sample Result - Inorganic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>Metals, Total</b> <sup>P:1</sup>								
Lead	1.7	0.5	ug/L	15	200.8	06/27/14:207488	200.8	06/27/14:209580

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: N/A ‡Surrogate. \* PQL adjusted for dilution. MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.





July 3, 2014

Lab ID : CH 1473518-002

Customer ID : 7-1398

Chico Environmental Science

333 Main St Suite 260

Chico, CA 95928

Sampled On : June 4, 2014-12:28

Sampled By : John Lane

Received On : June 4, 2014-12:48

Matrix : Drinking Water

Description : Well-UF

Project : Horeshoe Lake Monitoring

Sample Result - Inorganic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>Metals, Diss<sup>P:1</sup></b>								
Lead	1.1	0.5	ug/L	15	200.8	06/10/14:206670	200.8	06/10/14:208523

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: N/A ‡Surrogate. \* PQL adjusted for dilution. MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.



July 3, 2014  
Chico Environmental Science

Lab ID : CH 1473518  
Customer : 7-1398

**Quality Control - Inorganic**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note	
Metals Lead	200.8	(CH 1473518-002)	MS	ug/L	5.000	101 %	75-125		
			MSD	ug/L	5.000	123 %	75-125		
			MSRPD	ug/L	5.000	16.2%	≤20		
	200.8	06/10/14:208523AC	CCV	ppb	120.0	102 %	90-110		
			CCB	ppb		0.01	0.5		
			CCV	ppb	120.0	102 %	90-110		
			CCB	ppb		0.028	0.5		
	200.8	(CH 1473555-002)	MS	ug/L	5.000	100 %	75-125		
			MSD	ug/L	5.000	108 %	75-125		
			MSRPD	ug/L	5.000	3.9%	≤20		
	200.8	06/27/14:209580AC	CCV	ppb	120.0	102 %	90-110		
			CCB	ppb		-0.01	0.5		
			CCV	ppb	120.0	101 %	90-110		
			CCB	ppb		-0.005	0.5		
	<b>Definition</b>								
	CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.								
CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.									
MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.									
MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.									
MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.									
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.									

October 13, 2014

**Chico Environmental Science**  
 333 Main St Suite 260  
 Chico, CA 95928

Lab ID : CH 1476581  
 Customer : 7-1398

### Laboratory Report

**Introduction:** This report package contains total of 5 pages divided into 3 sections:

Case Narrative (2 pages) : An overview of the work performed at FGL.  
 Sample Results (2 pages) : Results for each sample submitted.  
 Quality Control (1 page) : Supporting Quality Control (QC) results.

### Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
Lake-F	08/27/2014	08/27/2014	CH 1476581-001	SW
Lake-UF	08/27/2014	08/27/2014	CH 1476581-002	SW

**Sampling and Receipt Information:** All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples arrived at room temperature. All samples were prepared and analyzed within the method specified hold time. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

**Quality Control:** All samples were prepared and analyzed according to the following tables:

### Inorganic - Metals QC

200.8	09/05/2014:213489 All analysis quality controls are within established criteria.
	10/10/2014:215597 All analysis quality controls are within established criteria.
	09/05/2014:210467 All preparation quality controls are within established criteria.
3010	10/10/2014:211995 All preparation quality controls are within established criteria, except: The following note applies to Lead: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery. The following note applies to Lead: 430 Post Digestion Spike (PDS) not within Acceptance Range (AR) because of matrix interferences affecting this analyte.

October 13, 2014  
**Chico Environmental Science**

Lab ID : CH 1476581  
Customer : 7-1398

**Certification::** I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.

KD:DMB

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.  
Title: Laboratory Director  
Date: 2014-10-13

---



October 13, 2014

Lab ID : CH 1476581-001

Customer ID : 7-1398

**Chico Environmental Science**

333 Main St Suite 260

Chico, CA 95928

Sampled On : August 27, 2014-12:05

Sampled By : John Lane/Jess Kolst

Received On : August 27, 2014-13:22

Matrix : Surface Water

Description : Lake-F

Project : Water Testing

**Sample Result - Inorganic**

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>Metals, Diss<sup>P:1</sup></b>								
Lead	0.6	0.5	ug/L		200.8	09/05/14:210467	200.8	09/05/14:213489

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: N/A ‡Surrogate. \* PQL adjusted for dilution.



October 13, 2014

Lab ID : CH 1476581-002

Customer ID : 7-1398

**Chico Environmental Science**

333 Main St Suite 260

Chico, CA 95928

Sampled On : August 27, 2014-12:07

Sampled By : John Lane/Jess Kolst

Received On : August 27, 2014-13:22

Matrix : Surface Water

Description : Lake-UF

Project : Water Testing

**Sample Result - Inorganic**

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>Metals, Total</b> <sup>P:1</sup>								
Lead	0.0354	0.0002	mg/L		3010	10/10/14:211995	200.8	10/10/14:215597

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: N/A ‡Surrogate. \* PQL adjusted for dilution.



October 13, 2014  
Chico Environmental Science

Lab ID : CH 1476581  
Customer : 7-1398

**Quality Control - Inorganic**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Lead	200.8	(STK1438732-005)	MS	ug/L	5.000	107 %	75-125	
			MSD	ug/L	5.000	108 %	75-125	
			MSRPD	ug/L	5.000	1.1%	≤20	
	200.8	09/05/14:213489AC	CCV	ppb	120.0	99.9 %	90-110	
			CCB	ppb		-0.003	0.5	
			CCV	ppb	120.0	101 %	90-110	
			CCB	ppb		-0.008	0.5	
	200.8	10/10/14:215597AC	ICB	ppb		0.030	0.5	
			ICV	ppb	120.0	99.5 %	90-110	
			CCV	ppb	120.0	99.7 %	90-110	
			CCB	ppb		0.025	0.5	
	3010	10/10/14:211995amb  (CH 1476581-002)	Blank	ug/L		ND	<0.2	
			LCS	ug/L	40.00	104 %	85-115	
			MS	ug/L	40.00	136 %	75-125	435
			MSD	ug/L	40.00	120 %	75-125	
			MSRPD	ug/L	40.00	7.5%	≤20.0	
PDS			ug/L	40.00	157 %	75-125	430	
<b>Definition</b>								
PDS	: PDS failed, matrix - Post Digestion Spike (PDS) not within Acceptance Range (AR) because of matrix interferences affecting this analyte.							
ICV	: Initial Calibration Verification - Analyzed to verify the instrument calibration is within criteria.							
ICB	: Initial Calibration Blank - Analyzed to verify the instrument baseline is within criteria.							
CCV	: Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.							
CCB	: Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.							
Blank	: Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.							
LCS	: Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.							
MS	: Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.							
MSD	: Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.							
MSRPD	: MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.							
ND	: Non-detect - Result was below the DQO listed for the analyte.							
DQO	: Data Quality Objective - This is the criteria against which the quality control data is compared.							
<b>Explanation</b>								
430	: Post Digestion Spike (PDS) not within Acceptance Range (AR) because of matrix interferences affecting this analyte.							
435	: Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.							

February 3, 2015

**Chico Environmental Science**  
 333 Main St Suite 260  
 Chico, CA 95928

Lab ID : CH 1479181  
 Customer : 7-1398

### Laboratory Report

**Introduction:** This report package contains total of 5 pages divided into 3 sections:

- Case Narrative (2 pages) : An overview of the work performed at FGL.
- Sample Results (2 pages) : Results for each sample submitted.
- Quality Control (1 page) : Supporting Quality Control (QC) results.

### Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
VLT-FLDNON	12/24/2014	12/24/2014	CH 1479181-001	SW
VLT-FLDFIL	12/24/2014	12/24/2014	CH 1479181-002	SW

**Sampling and Receipt Information:** All samples were performed by FGL using the following methods (where applicable):

- Bacteriological Sampling - SOP:200900141
- Grab sampling for liquids - SOP:200900137
- Composite sampling for liquids - SOP:200900139
- Grab sampling for solids - SOP:200900142
- Composite sampling for solids - SOP:200900143

All samples were received, prepared and analyzed within the method specified holding times. All samples arrived at room temperature. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

**Quality Control:** All samples were prepared and analyzed according to the following tables:

### Inorganic - Metals QC

200.8	01/03/2015:219876 All analysis quality controls are within established criteria.
	01/06/2015:200210 All analysis quality controls are within established criteria.
	01/03/2015:200041 All preparation quality controls are within established criteria, except:



February 3, 2015  
Chico Environmental Science

Lab ID : CH 1479181  
Customer : 7-1398

### Inorganic - Metals QC

200.8	The following note applies to Lead: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
	The following note applies to Lead: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
01/06/2015:200121 All preparation quality controls are within established criteria.	

#### Discussion of Analytical Results: Amended Report

Amended to link sample locations to correct source codes.

**Certification::** I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.

KD:DMB

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.  
Title: Laboratory Director  
Date: 2015-02-04



February 3, 2015

Lab ID : CH 1479181-001

Customer ID : 7-1398

**Chico Environmental Science**

333 Main St Suite 260

Chico, CA 95928

Sampled On : December 24, 2014-10:18

Sampled By : John Lane

Received On : December 24, 2014-10:40

Matrix : Surface Water

Description : VLT-FLDNON

Project : Water Testing

**Sample Result - Inorganic**

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>Metals, Total</b> <sup>P:1</sup>								
Lead	ND	0.5	ug/L		200.8	01/03/15:200041	200.8	01/03/15:219876

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: N/A ‡Surrogate. \* PQL adjusted for dilution.



February 3, 2015

Lab ID : CH 1479181-002

Customer ID : 7-1398

**Chico Environmental Science**

333 Main St Suite 260

Chico, CA 95928

Sampled On : December 24, 2014-10:24

Sampled By : John Lane

Received On : December 24, 2014-10:40

Matrix : Surface Water

Description : VLT-FLDFIL

Project : Water Testing

**Sample Result - Inorganic**

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>Metals, Diss<sup>P:1</sup></b>								
Lead	ND	0.5	ug/L		200.8	01/06/15:200121	200.8	01/06/15:200210

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: N/A ‡Surrogate. \* PQL adjusted for dilution.



February 3, 2015  
Chico Environmental Science

Lab ID : CH 1479181  
Customer : 7-1398

**Quality Control - Inorganic**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note	
Metals Lead	200.8	(CH 1479181-001)	MS	ug/L	5.000	3.2 %	75-125	435	
			MSD	ug/L	5.000	228 %	75-125	435	
			MSRPD	ug/L	5.000	187%	≤20	435	
	200.8	01/03/15:219876AC	CCV	ppb	120.0	94.6 %	90-110		
			CCB	ppb		-0.037	0.5		
			CCV	ppb	120.0	94.8 %	90-110		
			CCB	ppb		-0.032	0.5		
	200.8	(SP 1500052-001)	MS	ug/L	5.000	113 %	75-125		
			MSD	ug/L	5.000	115 %	75-125		
			MSRPD	ug/L	5.000	2.3%	≤20		
	200.8	01/06/15:200210AC	CCV	ppb	120.0	99.1 %	90-110		
			CCB	ppb		0.021	0.5		
			CCV	ppb	120.0	99.1 %	90-110		
			CCB	ppb		0.046	0.5		
	<b>Definition</b>								
	CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.								
CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.									
MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.									
MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.									
MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.									
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.									
<b>Explanation</b>									
435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.									

TABLE 1: SUMMARIZED ANALYTICAL RESULTS

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**TABLE 1. MONITORING RESULTS - VAULT, SULLPY WELL AND SURFACE WATER**

**HORSESHOE LAKE PARKING AREA E, CHICO, CALIFORNIA**

LOCATION	DATE	VAULT WATER DEPTH (INCHES)	DISSOLVED LEAD (mg/L)	TOTAL LEAD (mg/L)	HARDNESS (mg/L)	NITRATE (mg/L)	NITRITE (mg/L)
Vault	14-Feb-06	36	<0.001	<0.001	---	---	---
Vault	10-Jul-06	36	<0.001	<0.001	---	---	---
Vault	12-Dec-06	17	<0.001J	0.0018	---	---	---
Vault	29-Jan-07	37	<0.001J	<0.001J	---	---	---
Vault	22-Feb-07	45	<0.001J	<0.001J	---	---	---
Vault	13-Mar-07	47	<0.001	<0.001	---	---	---
Vault	17-Apr-07	---	<0.001J	<0.001J	---	---	---
Vault	7-May-07	---	<0.001J	<0.001J	---	---	---
Vault	10-Sep-07	5	---	---	---	---	---
Vault	12-Oct-07	1	---	---	---	---	---
Vault	15-Oct-07	---	<0.001J	0.00212	---	---	---
Vault	13-Nov-07	4	<0.001J	<0.001J	---	---	---
Vault	19-Dec-07	---	<0.001J	0.0021	---	---	---
Vault	11-Jan-08	---	<0.001J	<0.001J	---	---	---
Vault	1-Feb-08	10	<0.001J	<0.001J	---	---	---
Vault	30-Jun-08	41	<0.001J	<0.001J	---	---	---
Vault	4-Sep-08	38	<0.001J	<0.001J	---	---	---
Vault	6-Nov-08	46	<0.001J	0.00245	---	---	---
Vault	9-Dec-08	---	<0.001J	0.00122	---	---	---
Vault	14-Jan-09	---	<0.001J	<0.001J	---	---	---
Vault	4-Feb-09	---	<0.001J	<0.001J	---	---	---
Vault	29-Oct-09	48	<0.001	<0.001J	---	---	---
Vault	14-Dec-09	5	<0.001	0.00141	---	---	---
Vault	26-Feb-10	48	<0.001	0.0012	---	---	---
Vault	12-Mar-10	38.75	<0.001	<0.001	237	---	---
Vault	27-May-10	*	---	---	---	---	---
Vault	12-Aug-10	30	<0.001	---	314	---	---
Vault	27-Oct-10	2	---	---	---	---	---
Vault	29-Nov-10	41	---	---	---	---	---
Vault	9-Dec-10	48	0.0007	0.002	---	---	---
Vault	27-Jan-12	43	0.0005	0.0014	---	---	---
Vault	21-Feb-12	39	ND	0.0116	---	---	---
Vault	27-Mar-12	48	0.0018	0.0019	---	---	---
Vault	24-May-12	2.7	---	---	---	---	---
Vault	14-Dec-12	18	ND	0.0054	---	---	---
Vault	17-Jan-13	0	--	--	--	--	--
Vault	16-May-13	1	--	--	--	--	--
Vault	12-Aug-13	2	--	--	--	--	--
Vault	4-Dec-13	3	ND	0.0035	--	--	--
Vault	11-Mar-14	5	ND	0.6	---	---	---
Vault	24-Dec-14	6	ND	ND	---	---	---
Horseshoe Lake	16-Nov-06	NA	<0.001	0.0112	90	---	---
Horseshoe Lake	13-Nov-07	NA	<0.001J	0.04	110	---	---
Horseshoe Lake	4-Sep-08	NA	<0.001J	0.0471	32	---	---
Horseshoe Lake	29-Sep-09	NA	<0.001J	0.0117	86	---	---
Horseshoe Lake	26-Feb-10	NA	*	0.004	36.4	---	---
Horseshoe Lake	12-Mar-10	NA	0.0005	---	---	---	---
Horseshoe Lake	27-May-10	NA	0.0022	<0.001	44.6	---	---
Horseshoe Lake	27-Jan-12	NA	---	0.0111	57.1	---	---
Horseshoe Lake	12-Aug-13	NA	0.0004	0.0131	72	---	---
Horseshoe Lake	27-Aug-14	NA	0.6	0.354	---	---	---
Supply Well	16-Nov-06	NA	0.00321	0.00372	---	---	---
Supply Well	13-Nov-07	NA	0.0023	0.0038	---	---	---
Supply Well	4-Sep-08	NA	0.002	0.0031	85	---	---
Supply Well	29-Sep-09	NA	---	0.00633	---	---	---
Supply Well	27-May-10	NA	0.0036	<0.001	---	2.6	<0.03
Supply Well	23-Jul-12	NA	0.0025	0.0052	---	2.5	ND
Supply Well	16-May-13	NA	0.0009	0.0014	---	2.6	ND
Supply Well	4-Jun-14	NA	1.1	1.7	---	---	---

EPA= Environmental Protection Agency

NA= Not Applicable ND= Non Detect

mg/L = milligrams per liter

\* Sampling error

Total Hardness = Hardness as calcium carbonate concentration

--- Not analyzed or measured

Dissolved Lead = Result for sample that was passed through a 0.45-micron filter in the field immediately after sampling. After filtering, sample was preserved in nitric acid

Total Lead = Result for unfiltered sample. No preservative was added to sample containers

Water Depth in Vault = Height of water above vault bottom; vault is cubic and is 36" x 36" x 36" deep with a 22 inch high, 6 inch diameter riser to the vault lid at the ground surface