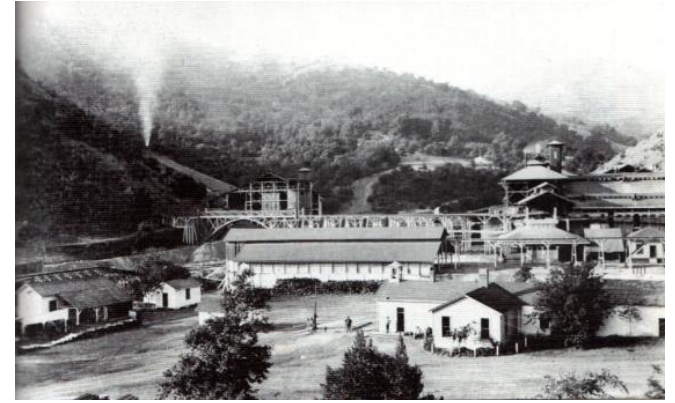


# SCVWD Stewardship Grant



## FOLAW Hacienda Mercury Signs Project

### Planning Document

**By Michael Boulland**

**Friends of Los Alamos Watershed**

**11.20.12**



29 May 2012	Rough Draft
2 June 2012	Added photos of interpretive signs
5 June 2012	Added photos of 3 possible sites
13 June 2012	Final Draft interpretive signs added First Quarter Report
16 June 2012	Site Locations edited
21 June 2012	Rob Courtney Meeting
20 June 2012	Bill Burr / Dan Hill Meeting
27 June 2012	Robin Schaut
14 October 2012	Burr /Hill Meeting
7 November 2012	Rich Robinson / CAD Designs

## Revision History



# Contents



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## The Friends of Los Alamitos Watershed

### Mission Statement



Mercury is one of the top water and fish contamination issues in California and in the nation. The San Francisco Bay Area is among the world's most significant areas of environmental mercury concern and science. Public outreach is a consistent challenge for government and non-government agencies and working groups.

FOLAW, a 501(c)3 non-profit corporation was founded in 2008. The missions for which this corporation was organized are:

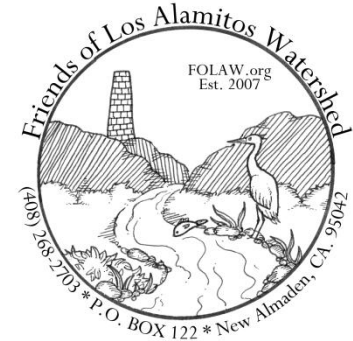
- 1) to foster the creek protection and restoration of the Los Alamitos watershed surrounding New Almaden;
- 2) to promote community awareness of creek restoration and protection issues through the use of outreach demonstrations programs;
- 3) to share educational research information; and
- 4) to support community and/or public agency creek projects where they are the most significant of the total community benefit.

# Background

## LOS ALAMITOS WATERSHED STEWARDSHIP GRANT

### Project Description

FOLAW is concerned that the latest environmental information about mercury is not readily available in an easy-to-understand format, especially the latest findings concerning the different chemical compounds of mercury and the potential impacts of these compounds to the environment and to human health. Our goal is to educate residents of the Los Alamos Watershed and to present the environmental issues in a non-advocacy and neutral manner. FOLAW also believes that better interpretive information and distribution pathways will help residents and users of the watershed better understand the issues and how to support successful studies, plans, and projects for watershed protection.



# Project Overview

## Objectives



- Educational Outreach Interpretive Signs

In recognition that the public may not know the impact of mercury on their health and the environment, these signs will specifically address the current scientific issues involved in the health of humans, animals, birds and fish. We will design, manufacture and install several science-based interpretive signs in cooperation with the Santa Clara County Parks and Recreation Department.

The following proposed interpretive signage topics have been adopted for drafts mockups:

1. Mercury Compounds
2. Why is methylemercury in our fish?
3. How did/does mercury get to New Almaden?
4. How can we reduce the amount of mercury compounds in the Los Alamos Watershed?

Future Signs

5. The World of Mercury
6. Sources

## **Interpretive Mercury Signs**

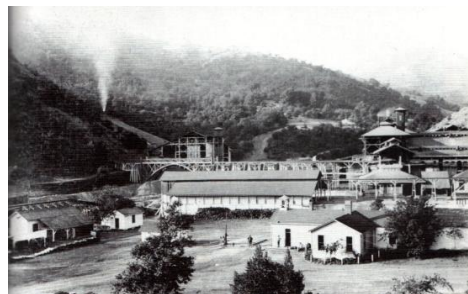
**The following final interpretive signage topics have been adopted:**

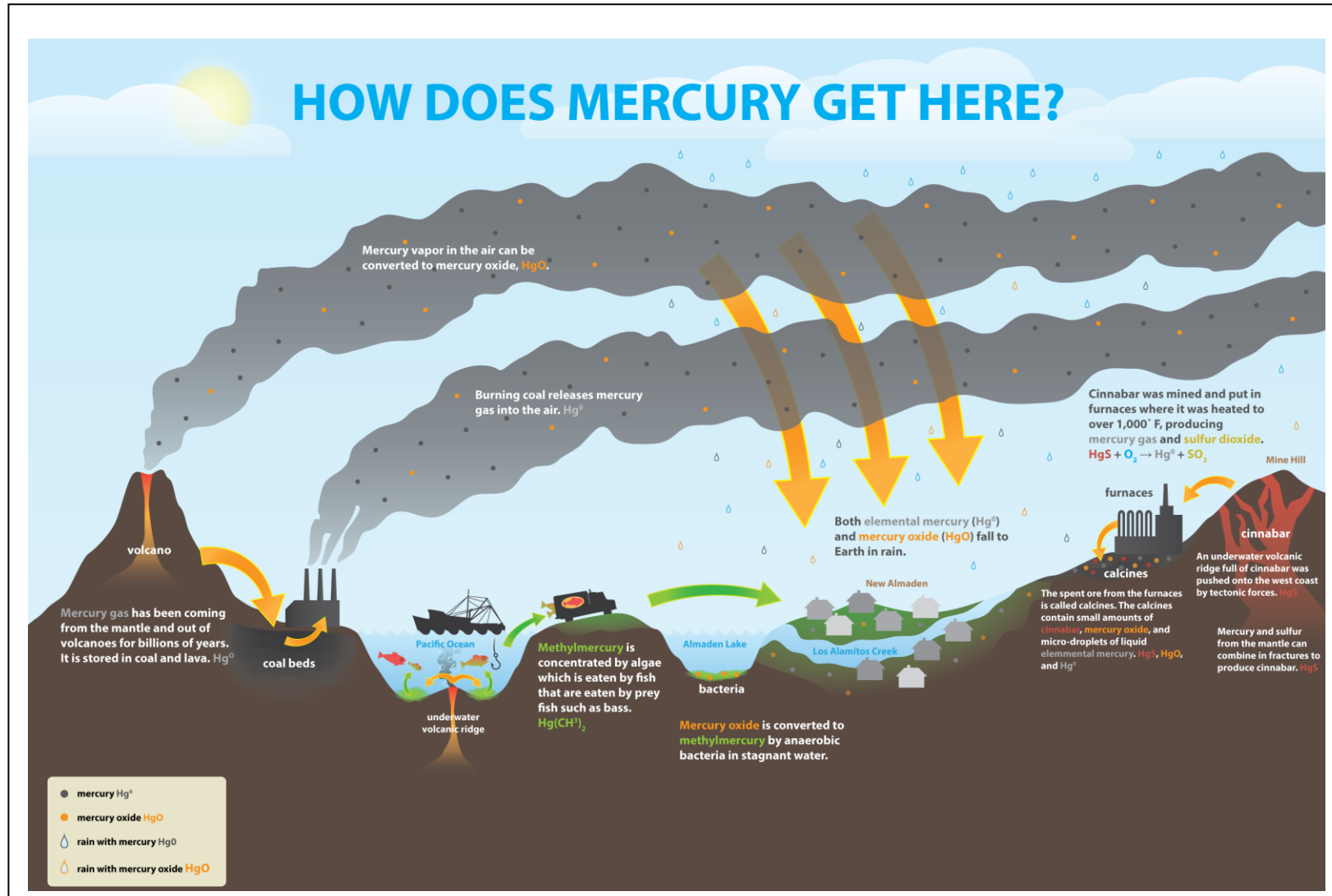
The following 3 sets of double sided signs are designed:

Set I - Panel A – Sign 1- HOW DOES MERCURY GET TO HERE? with  
Panel B – Sign 2 – WHY IS METHYL MERCURY IN OUR FISH?

Set II Panel C – Sign 3 – TODAY’S METHODS WE USED TO REDUCE METHYL MERCURY IN OUR WATERSHED? Pt1 with  
Panel D - Sign 3 – TODAY’S METHODS WE USED TO REDUCE METHYL MERCURY IN OUR WATERSHED? P1 continued

Set III Panel E – Sign 4 – MERCURY & COMPOUNDS OF MERCURY with  
Panel F – Sign 5 - WHY MERCURY AND IT’S COMPOUNDS IS A CONCERN?





# WHY IS METHYLMERCURY IN OUR FISH?

**Legend:**

- mercury oxide:  $\text{HgO}$
- elemental mercury:  $\text{Hg}^0$
- methylmercury:  $\text{HgCH}_3^{++}$
- cinnabar, mercury sulfide:  $\text{HgS}$

**1.** Mercury oxide can leach out of volcanic ash and lava beds.  $\text{Hg}^0$

**2.** Naturally occurring anaerobic bacteria convert ionic mercury oxide to methylmercury.

$\text{HgO} \rightarrow \text{Hg}^{++} \rightarrow \text{HgCH}_3^{++}$

**3.** Algae concentrate methylmercury.

**4.** Fish eat algae with methylmercury.

**5.** Big fish eat many small fish and get more methylmercury.

**5.** Living organisms including plants, fish, and humans concentrate methylmercury. Half of it leaves our body after 2 or 3 months.

**1.** Rain contains mercury oxide that falls into reservoirs.

Methylmercury is converted back to mercury or mercury oxide by the sun and oxygen.

$\text{HgCH}_3^{++} \rightarrow \text{Hg}^0 \text{ or } \text{HgO}$

**1.** Processed ore called calcines contain mercury oxide.

Mercury oxide can run off.

Rain percolates into the soil carrying mercury, and mercury oxide into the groundwater.  $\text{Hg}^0$ ,  $\text{HgO}$

Cinnabar erodes physically, but is chemically stable in the environment. A boulder of cinnabar in the Gulf of Mexico would liberate only one atom of ionic mercury.  $\text{HgS}$

## What are Today's Methods Used to Reduce Mercury in the Watershed?

### Soil and Erosion Management

#### Stream Bed Deposits

Calcines are rocks that have been heated in a furnace. They contain small amounts of cinnabar, mercury oxide, and elemental mercury.

During major winter storms calcine waste is pushed down stream by high flows of storm water. This continued eroding process cuts through the old calcine streambed deposits and pushes calcine waste further down stream. Using the Restoration Method calcines deposits are removed and the streambank is restored back to its original natural landscape.



photo by Robbie Lamm  
Calcine cliff in Jacque Gulch stream before restoration method



photo by Adam Schmidt

#### Mining Sites

##### Removal Method



The 1890's furnaces used at the Hacienda de Beneficio, was in the field ahead of you.

Cinnabar ore, liquid mercury, and waste rock (calcine) were all spilled here during mining operations. Early in mine history, calcine was used to firm up muddy roads, and was used around the area as clean fill.

##### Capping Method

In the above photo, you see the same 1890 legacy reduction site field covered using the capping method.

In the late 1990's, after the legacy mining waste was removed, the field was encapsulated (capped) by a 3' layer of clean fill and topped with a clay cap during the site cleaned up.



photo by Adam Schmidt

##### Burial Method



The Burial Method was used to prevent calcine waste from eroding into the streams from the Hacienda site. Calcine waste was taken up to the top of Mine Hill where bulldozers buried the calcine in an open pit. Later calcine from other parts of the park (Jacques Gulch) were added to the site, then a final soil and clay cap covered all the buried calcine.

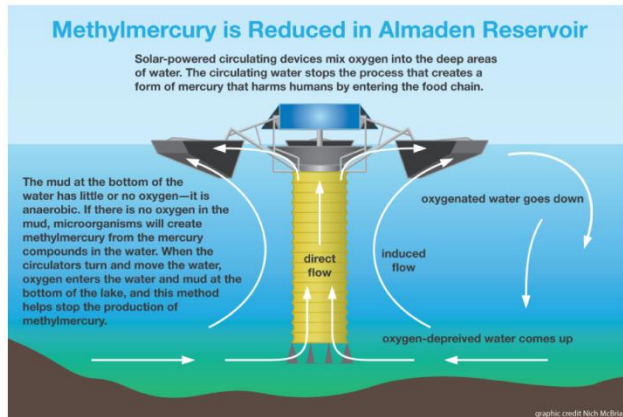
## What are Today's Methods Used to Reduce Mercury in the Watershed?

### Reservoirs

#### Solar Water Circulators Method



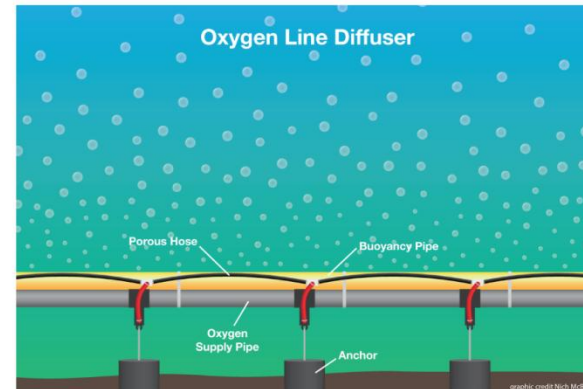
Methylmercury is made by bacteria in the stagnant bottom of lakes and reservoirs where rotting leaves and biota use up almost all of the oxygen. Stirring the lake water brings more oxygen to the bottom water. This drastically cuts the number of anaerobic bacteria, and thus the amount of methylmercury in the water.



#### Oxygenation Method



The Oxygenation method planned for Almaden Reservoir will produce oxygen in a trailer as shown. Added oxygen will then be pumped into the reservoir by circulating water through a contact chamber on the surface and then be distributed by pipes to the bottom. Pumping more oxygen to the bottom of the lake will help prevent an increase of methylmercury.



Reports and source information downloaded between September 2011 and October 2012 from the mercury information webpages of the following agencies may be view at the FCLAR blog site at <http://follow.wordpress.com> or [follow.org](http://follow.org)

## MERCURY & COMPOUNDS OF MERCURY

**Mercury ( $\text{Hg}^0$ )** is a naturally occurring silvery liquid. A soda can full of mercury would weigh 10 pounds.

**Uses:**

Mercury is used in thermometers, fillings, and blood pressure gages today, but most of the mercury from New Almaden went to extract gold and silver from crushed rock. Precious metals combine with mercury.



**Cinnabar ( $\text{HgS}$ )** is the mineral mined in New Almaden to produce mercury. Cinnabar crystals are ruby red but not very hard. When heated to over 1,000°F, cinnabar separates to mercury vapor, and sulfur gas.

**Uses:**

Native Americans used it as body paint. The vermilion powder is mixed with laquer to make Chinese carvings.



**Mercury Oxide ( $\text{HgO}$ )**

is a rare ionic compound. Mercury vapor is combined with oxygen in sunlight. Some mercury oxide was produced in the furnaces in New Almaden. It is found in the burnt ore (calclines) that are buried in the park.

**Uses:**

Mercury oxide is manufactured as a red-orange paint. It is also used in batteries.

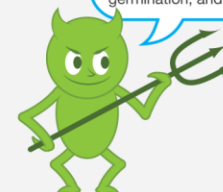


**Methylmercury ( $\text{HgCH}_3^{+2}$ )**

is an ionic organic compound that can bind to proteins in animals. Natural methylmercury is made in very small quantities by bacteria in stagnant water lacking oxygen. The amount of methylmercury increases the higher the animal is on the food chain and the longer the animal lives. Man-made methylmercury was first seen as an industrial waste product from the production of plastics.

**Uses:**

Seed grain shippers used a pink solution of methylmercury to prevent early germination, and as a pesticide.



### Famous Manmade Toxic Compounds of Mercury NOT Found in New Almaden

**Mercury Nitrate ( $\text{Hg}(\text{NO}_3)_2$ )**

or "mad hatters poison" was used in making hats. It was absorbed through the skin causing drooling, shaking, and tipsy walking.



**Calomel ( $\text{Hg}_2\text{Cl}_2$ )**

was used as a toothpaste, a purgative, a diuretic, a skin lightener, and as a cure for syphilis. It is toxic, and causes a burning, itching rash.



**Mercury Fulminate ( $\text{Hg}(\text{ONC})_2$ )**

is highly explosive. It is used to make fuses for bullets and bombs.



Reports and source information downloaded between September 2011 and October 2012 from the mercury information webpages of the following agencies may be view at the FCLAR blog site at <http://follow.wordpress.com> or follow.org

# Why Are Mercury and Its Compounds a Concern?

### Why Are Mercury and its Compounds a Concern?



Mercury occurs as:

- 1) elemental mercury;
- 2) methylmercury; and,
- 3) other compounds of mercury.

Depending on the factors of exposure, mercury can affect the human nervous system and harm the brain, heart, kidneys, lungs, and immune system. Harm to people and the environment depends on many factors, including form of the chemical, route of exposure, and dose. In general, methylmercury is of most concern and is highly studied. The most common way people are exposed to mercury is by eating fish or shellfish that are contaminated with methylmercury.

### What Can Be Done to Reduce the Amount of Mercury in Our Lakes and Streams?

You can prevent potential mercury releases and exposure by:

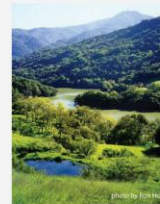
- 1) carefully handling and storing products that contain mercury, such as fluorescent lights or mercury thermometers;
- 2) following EPA, State, and/or local health agency recommendations when cleaning up mercury spills;
- 3) following EPA, State, and/or local agency recommendations to recycle or safely dispose of products that contain mercury;
- 4) conserving electrical energy, so less mercury-containing fossil fuels are burned;
- 5) supporting reasonable pollution control laws designed to reduce mercury emissions; and,
- 6) preventing soil erosion in areas known to contain elevated mercury, such as in former mercury mining districts. The Santa Clara Valley Water District has information regarding watershed protection.



### What is Being Done in the Guadalupe River Watershed to Control Mercury?

The Guadalupe River Total Maximum Daily Load (TMDL) program, regulated by the U.S. EPA and the California Regional Water Quality Control Board, is being implemented by the Santa Clara Valley Water District, County of Santa Clara, and other public and private entities. The TMDL has driven actions such as:

- 1) Removal and capping of wastes from mercury mine sites and along watershed drainages;
- 2) Circulation and management of the chemistry of water in lakes and reservoirs; and,
- 3) Prevention and control of soil erosion in areas of naturally elevated mercury concentrations.



#### Sources:

U.S. EPA Mercury website, "Basic Information," updated 07Feb2012, URL: <<http://www.epa.gov/mercury/about.htm>>.  
U.S. EPA Mercury website, "Mercury" and "Mercury Spills," updated 07Feb2012, URLs: <<http://www.epa.gov/mercury/index.html>> and <<http://www.epa.gov/mercury/spills/index.htm>>; and, Santa Clara Valley Water District "Creekside Property Program," URL: <<http://www.valleywater.org/Programs/CreeksidePropertyProgram.aspx>>.  
California San Francisco Bay Regional Water Quality Control Board "Guadalupe TMDL" website, URL: <[http://www.waterboards.ca.gov/sanfranciscobay/water\\_issues/programs/TMDLs/guadalupe/mercurytmld.shtml](http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/TMDLs/guadalupe/mercurytmld.shtml)> and Santa Clara Valley Water District "Creekside Property Program," URL: <<http://www.valleywater.org/Programs/CreeksidePropertyProgram.aspx>>.



## Interpretive sign display selected location



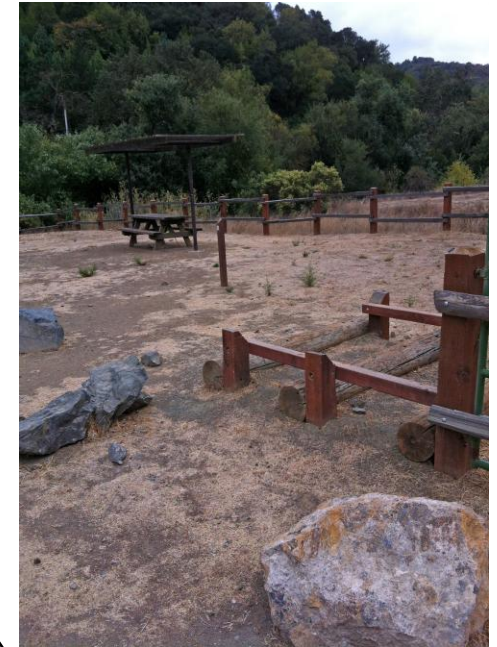
## Specific Location of Project

### Educational Outreach Signs

Interpretive signs will be installed inside the Hacienda parking lot. They will be located at the south west side picnic area next to the entrance to the overflow parking. The location has been approved by Senior Ranger Bill Burr of the Santa Clara County Park department.

The site is in an excellent viewing location that is next to the Hacienda Trail head where the Deep Gulch and Mine hill trails begin.

While not part of this project, these signs could also be installed near other county facilities, such as Almaden Lake, Almaden Reservoir, the New Almaden Community Club and other public areas in the county.



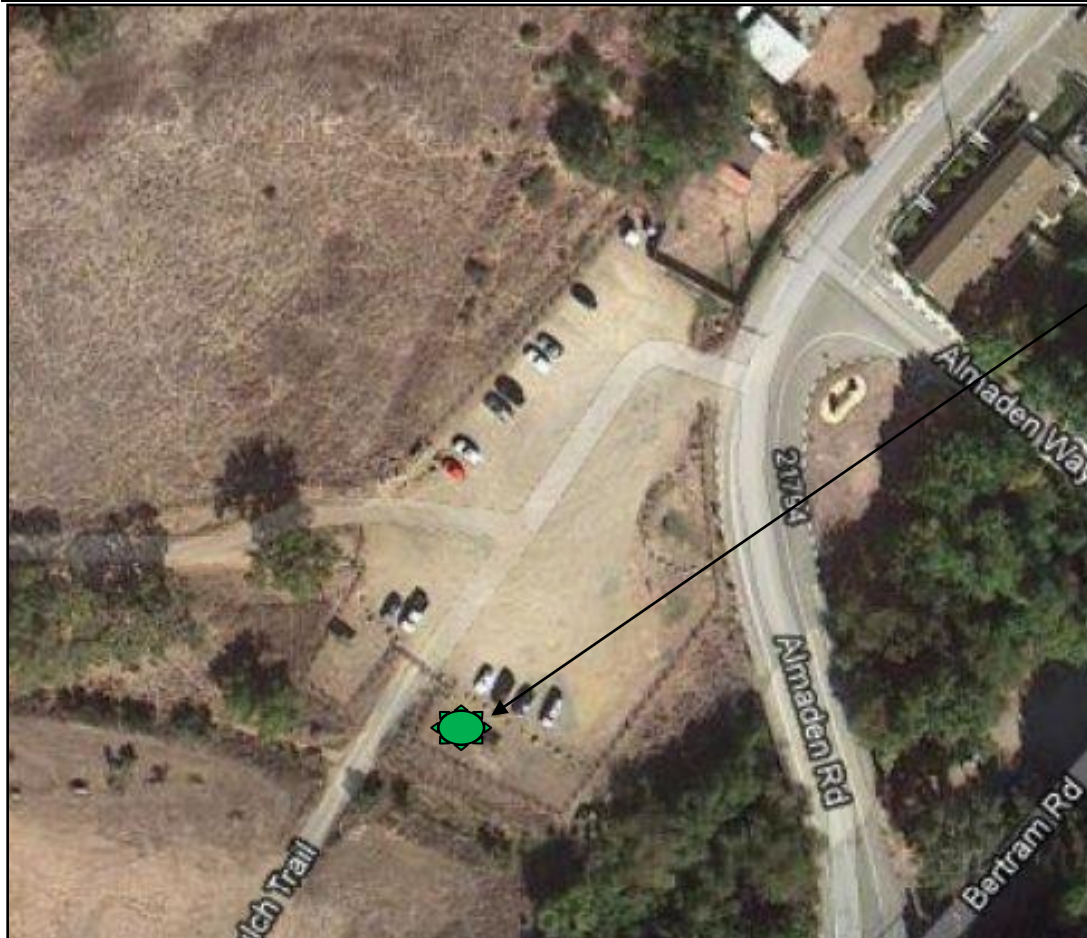
Site is located near:  
-The new restrooms  
-Near the street entrance and water trough and drinking fountain  
- North west shade area and entrance to the overflow parking lot.



## **Site Location Givens**

- 1) Construction work will affect the timing of the mounting of the signs.
  - a. Deep Gulch Remediation Project
  - b. New Restrooms
- 2) Sign location is based on present layout before construction.
- 3) Additional features such as water fountain, extra benches and covers may be added later.
- 4) FOLAW's support for additional features will depend on the amount of funds left over after cost of design, manufacturing and mounting.
- 5) Volunteers may do the work to weld, construct and install the display
- 6) Signs need to be placed in an area where park users can see them.
- 7) Project was recognized during the Coastal CleanUp Celebration on September 15, 2012.
8. A sponsoring sign indicating support from the County Parks, FOLAW and Santa Clara Water District needs to be posted near the project.
9. These interpretive signs are intended not to make the Hacienda Parking lot a destination site.





**Aerial View of Hacienda Parking Lot and sign project location**

Present location of a shade structure, split rail fence and picnic area.

The interpretive signs will be located near the original site where the first mercury was discovered in New Almaden .

The location is close to trail heads.

Mercury Interpretive Sign Layout

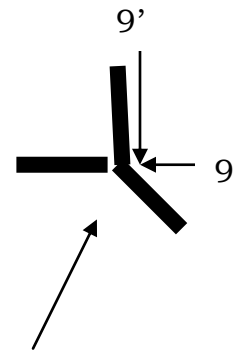
South West Picnic Area



## Site Layout Design

Deep Gulch Creek

Existing shade structure



Driveway  
Creek  
Crossing

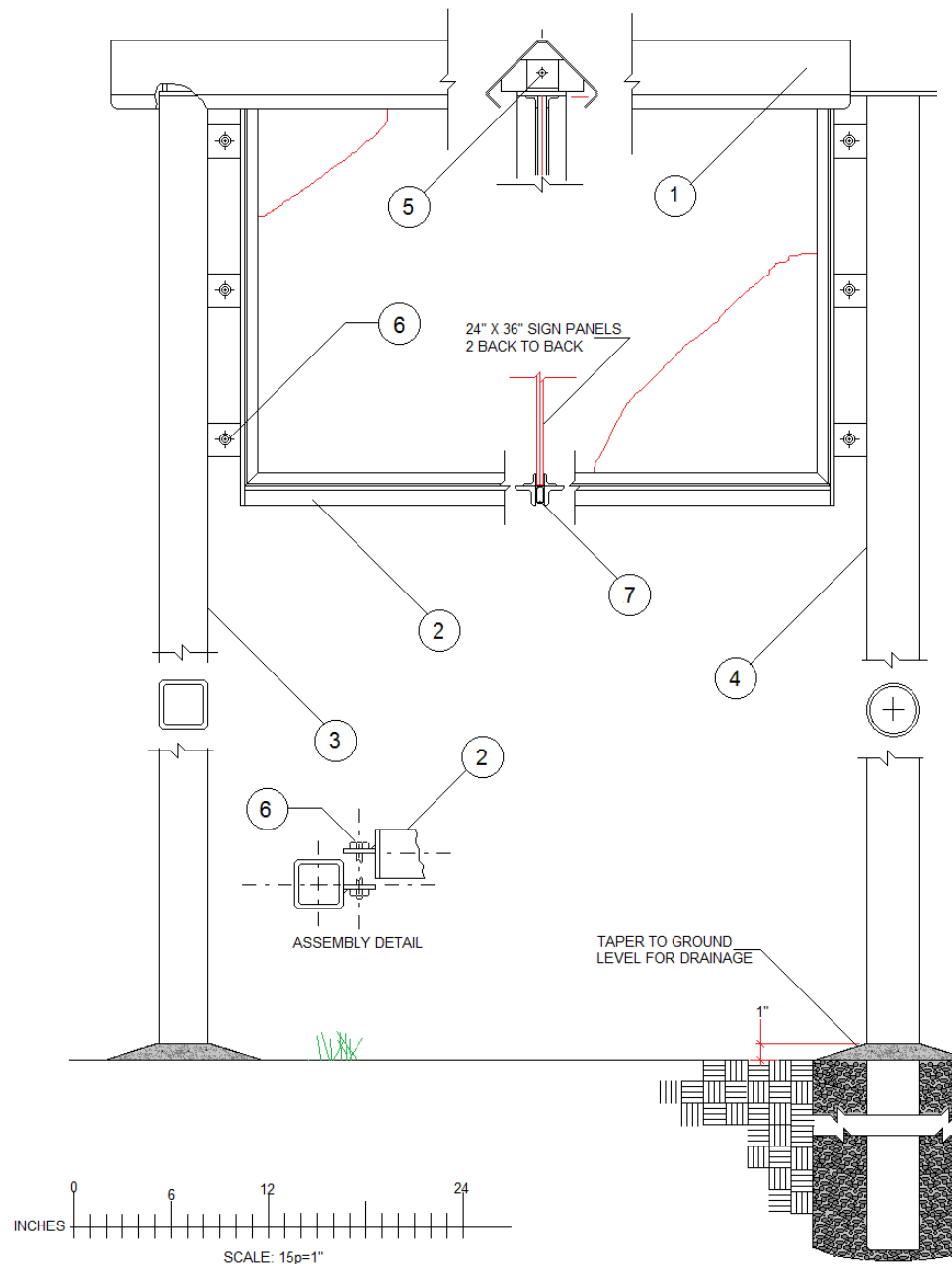


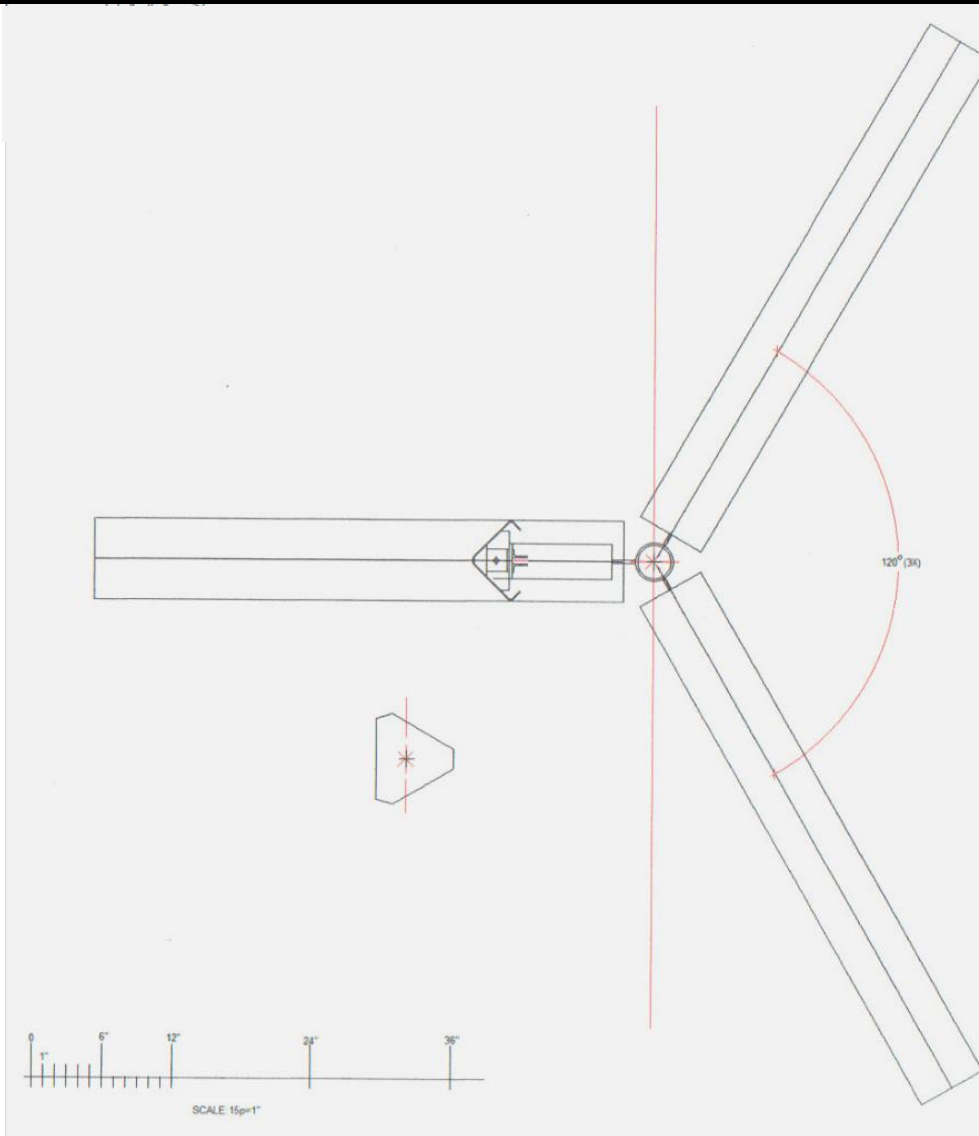
New Three Panel Six  
Double-Sided Kiosk Display

# Rich Robertson's Steel Construction Design Blue Prints and Drawings

Front Facing Panel View

Three Panel Six Double-Sided Kiosk Display





## Three Side Panel Top Views

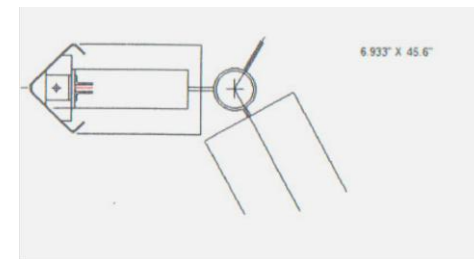
### Side Notes:

#### Steel Frame

1. Sign frame is welded construction and is welded to outside posts and bolted to single center post
2. Sign adhered to sheet metal
3. 4" angle rail protection

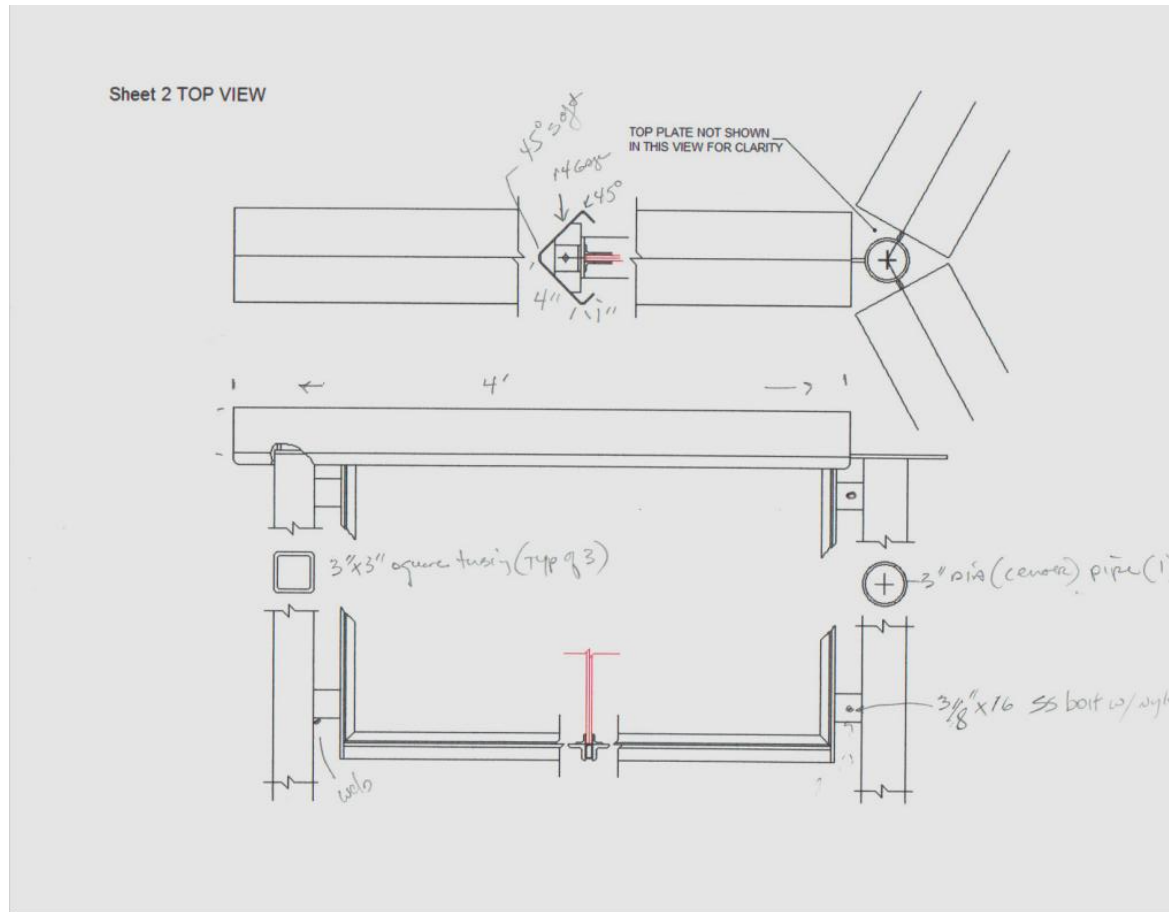
#### Paint Finish

1. Prime Coat first paint color.
2. Finish Powder Coat two final coats
3. Sign glued to sheet metal
4. 4 - 18" deep holes filled with concrete posthole mix





Top Angle Bar 4 inch drip protection



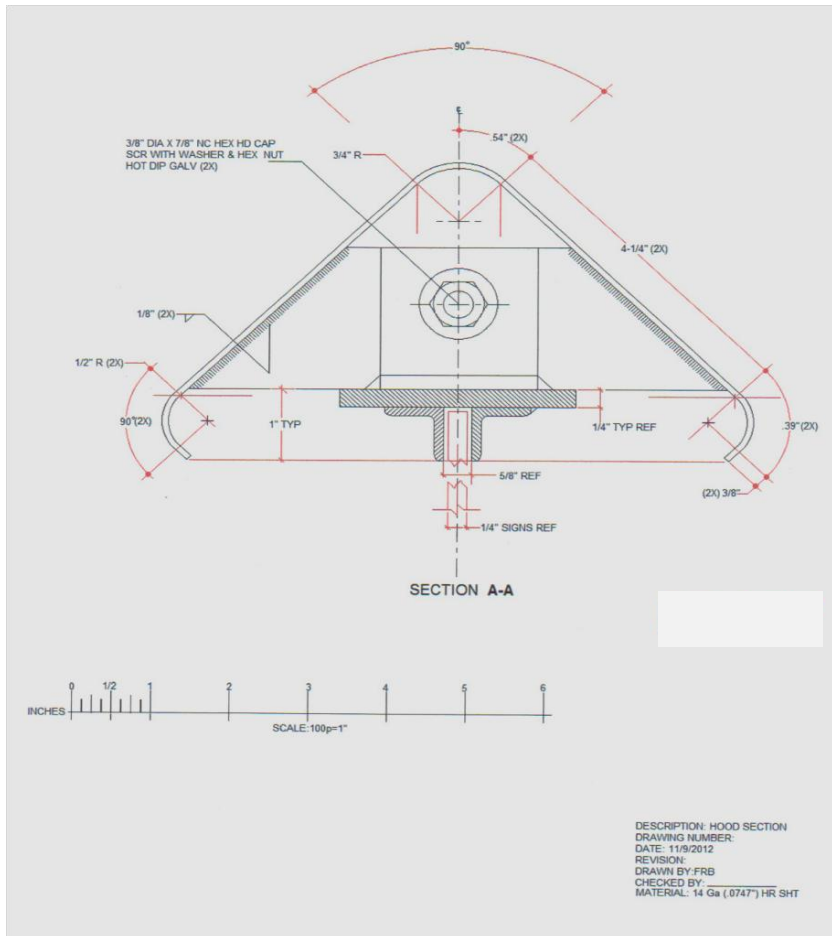
## Top and Side Panel Views

### Givens

Sign display must meet the following conditions:

1. Must be constructed to last 20 years
2. Constructed as a three sided kiosk
3. Made of natural material that can easily be purchased locally
4. Designed to have safe edges
5. Allows the display to be viewed on the front side as well as the backside
6. Must meet County park and grant requirements
7. Costs of the display signs must be reasonable
8. Joining points need to be considered
9. Color of the display must match existing park colors
10. No movable doors
11. Easy access to accommodate signage updates
12. Must be Powder Coated

## Side View of Hood Section Rain Cap





### Visitor Traffic Flow

**Park Hikers, Bikers, and Horse Riders**

**School Tour Groups**

**Out Door Equipment Tour Groups**

**Park Van Tour Groups**

**Disable/ Senior Tour Groups**

New Restrooms 

South West Picnic Area 

Horse Staging Area 

Field Path to Out Door Display 

## Mercury Interpretive Signage Hacienda Display Project

### Suggested Project Materials:

Sign materials : Steel

Est. cost \$1100.00

1,100

Display/mounting materials : In ground Powder Coated painted brown iron steel

Sign printing : Metal

Est. cost \$1000.00

1,000

Powder Coating

Est. Cost 550

550

### Project Budget:

Graphic designer Nicholas McBrian

Est. Cost \$900.00

900

Artist

Est.Cost:\$800.00

800

Fabrication: Rich Robertson Black Iron Design

Est. Cost \$990.00

990

Installation (who?): Rich Robertson and FOLAW Volunteers

-

Est. cost: \$Included in Fabrication quote

Yearly maintenance (who?): FOLAW members and park volunteers

Est. cost: > \$50.00

Reserve maintenance fund: SCWD Stewardship Grant

Est. cost: \$1000.00

Total cost of Kiosk

Display

**\$2650.00**

Total cost of materials, labor, design graphics and printing

for a Three Double Sided Panel Kiosk Display including 6 signs


**4,240**

Total Estimated Project Budget \$4500.00

## Mercury Interpretive Signage Hacienda Display Project

### Comparison Vendors

#### Kirby Built Signs



5333 S Emmer Dr  
New Berlin, WI 53151

**Quote**

Date	Quote #
9/25/2012	125489

Name / Address	Ship To
FOLAW MIKE BOULLAND	FOLAW MIKE BOULLAND 95120

Qty	Item	Description	Cost	Total
3	AMC3085-BN	Large Double-Sided Message Center w/Posts BROWN	1,486.00	4,458.00
1	SHIPPING	Shipping and Handling No Sales Tax	650.83 0.00%	650.83 0.00
<b>Total</b>				\$5,108.83

QUOTES VALID FOR 30 DAYS

#### School Outfitters



**SCHOOL OUTFITTERS**  
www.schooloutfitters.com  
1-800-360-2776  
3736 Regent Ave.  
Cincinnati, Ohio 45212-3724

**For assistance, please contact:**  
David Chang  
Phone: 888-619-6922  
Fax: 888-619-6923  
david.chang@schooloutfitters.com

**Quote**  
Quote # QUO1371851  
Valid through: Oct 25, 2012  
Page 1 of 1

Bill To	Ship To
FOLAW Mike Boulland 21600 Almaden Rd  San Jose, CA 95120-4312 USA Phone: Fax: Email: mikeboulland@yahoo.com	FOLAW Mike Boulland 21600 Almaden Rd  San Jose, CA 95120-4312 USA Phone: Fax: Email: mikeboulland@yahoo.com

SKU #	Description	Qty	List	% off	Your Cost	Ext. Cost
1. NETAH13321924	SLIDING DOOR DOUBLE SIDED HOMASOTE MESSAGE CENTER (48" W X 29" H)	3	\$1,745.00	8.75%	\$1,592.16	\$4,776.48

**ESTIMATED DELIVERY FOR THIS ITEM IS 26 BUSINESS DAYS AFTER ORDER CONFIRMATION.**

Shipping & Handling Breakdown  
These charges make up your shipping & handling total:

Items shipping from:	Shipping Via:	Cost:	SubTotal:
Nex-Terra	UPS GROUND	\$327.97	<b>\$4,776.48</b>
Shipping & Handling Total:			<b>\$327.97</b>
			<b>Shipping &amp; Handling: \$327.97</b>
			<b>Sales Tax: \$0.00</b>
			<b>Grand Total: \$5,104.45</b>

Important notes about this quote:

Shipping is tail gate - customer unloads. Lift gate and inside delivery are available for additional charges. Please remember to inspect your order at the time of delivery to make sure you've received your order in complete and that there are no damages. Do not throw away any of the original packaging until this is completed. Any missing parts or damages must be reported to customer service at 888-619-1776 within 15 days of delivery.  
Thank you! - David (Direct Toll Free 888-619-8822)

All quotations are for tailgate delivery, F.O.B. factory, unless otherwise noted.  
**Thank you for the opportunity to earn your business.**

09/25/2012

# Mercury Interpretive Signage Hacienda Display Project

Six Sided Kiosk | Kirby Built Quality Products Page 1 of 2



Call Us Toll Free  
1-866-965-4729  
M-F 9AM to 5PM CST

My Account Customer Service Contact Us  
View Cart \$0.00 Secure Checkout  
Login or Create an Account for additional shopping options

Search Products

HOME MESSAGE CENTERS SIX SIDED KIOSK

### Message Centers

#### Six Sided Kiosk

Usually Ships in 2-3 weeks

**product description**

- 7,424 sq. inches of viewing space
- Post maps, upcoming events, announcements, notices, & more
- Unique & attractive, weatherproof & bug-resistant information display
- Break-resistant acrylic glass windows
- Quality, keyed-alike, stainless steel hinged doors
- Double recycled plastic
- Minimal assembly required
- Choose from backboard or recycled rubber backboard upgrade
- Recycled rubber backboard looks better and lasts longer than cork and is environmentally friendly
- Illuminate your messages at night with optional LED light feature
- Guaranteed for 10 years!**

**available colors**

Evergreen Black Desert Tan Brown Cedar Gray

Model:  Add Item to cart for shipping price

Add Item to cart for shipping price or use the shipping information below

US & Canada Shipping Usually Ships in 2-3 weeks

Model #	Model Name	Model Dimensions	Weight	Price
AMC3300	Inground Mount	72" w x 72" d x 96" h 4" x 4" x 96" posts (5) 30" x 4" x 4" viewing areas	539 lbs	\$4,029.00 \$3,919.00
AMC3305	Surface Mount	72" w x 72" d x 96" h 4" x 4" x 96" posts (5) 30" x 4" x 4" viewing areas	504 lbs	\$4,429.00 \$4,319.00
AMC3100	Optional LED Lighting		lbs	\$1,411.00 \$1,287.00
AMC3000	Optional Recycled Rubber Backboard UPGRADE		lbs	\$661.00 \$661.00

**related products:**

Engineered Message Center Rack Table \$146.00 - \$437.00  
Medium Horizontal Information \$103.00 - \$1,972.00  
Large Horizontal Message Center \$85.00 - \$1,954.00

**additional options & information:**

- Estimate Shipping Cost
- Save Product to Favorites (Wish List)
- Email Product Information to a Friend
- Ask a Question about this Product
- Phone Friendly Product Page
- Write a Review about this Product

Product Views: View All Products, Products By Price, Best Sellers, New Products

Information Center: Customer Service, Contact Us, About Us, Frequently Asked Questions, Customer Testimonials

Newsletter Signup

<http://www.kirbybuilt.com/products/message-centers/Six-Sided-Kiosk.cfm> 9/25/2012

### New! Custom Configuration Information Centers

Choose From Our Selection or Design Your Own

Don't Forget to Choose Your Color... & Add a Literature Rack!

Options:

- Horizontal OR Vertical
- Single-Sided OR Double-Sided
- Inground or Surface Mount OR Walk Mount
- Cork or Recycled Rubber Backboard OR Leftboard with Letter Ad
- No Lighting OR LED Lighting
- Standard Roof OR Panel Top Roof
- Mini or Small Size OR Medium Size
- Large or Jumbo Size OR Your Size or Any Size

Call for information and we will put you in touch with one of our Design Specialists!  
**1.866.965.4729**

Evergreen Black Desert Tan Brown Cedar Gray

### New! Four-Sided Kiosk

- Post maps, upcoming events, announcements, notices, & more
- Unique & attractive, weatherproof & bug-resistant information display
- 4" x 4" recycled plastic posts
- Quality, keyed-alike, stainless steel hinged doors
- UV-resistant, non-yellowing, break-resistant acrylic glass windows
- Choose foam-backed corkboard or recycled rubber backboard upgrade
- Add optional, factory-installed LED lighting
- Minimal assembly required

**SAVE \$130** AMC3000 \$875.00 + shipping

**SAVE \$485** AMC3400 \$3,735.00  
**SAVE \$250** AMC3405 \$3,250.00

**New! Recycled Rubber Backboard Upgrade Add \$200** (See details on pg. 14)

**WARRANTED 25 YEARS**

**New! Optional Four-Sided Kiosk Literature Rack Set Fits Four-Sided Kiosk Models:**

AMC3400P, AMC3405P

Two-6 slot 35" w x 4" d x 15" h  
Two-3 slot 26" w x 5" d x 15" h  
88 lbs.

**SALE! AMC3000B \$1,805 \$875 set** + shipping

63" w x 41" d x 96" h  
Two-21" w x 29" h viewing areas  
Two-43" w x 29" h viewing areas

4 Inground Posts\* 566 lbs. AMC3400: \$3,485 **SALE!** \$3,040 ea.  
4" x 4" x 96"

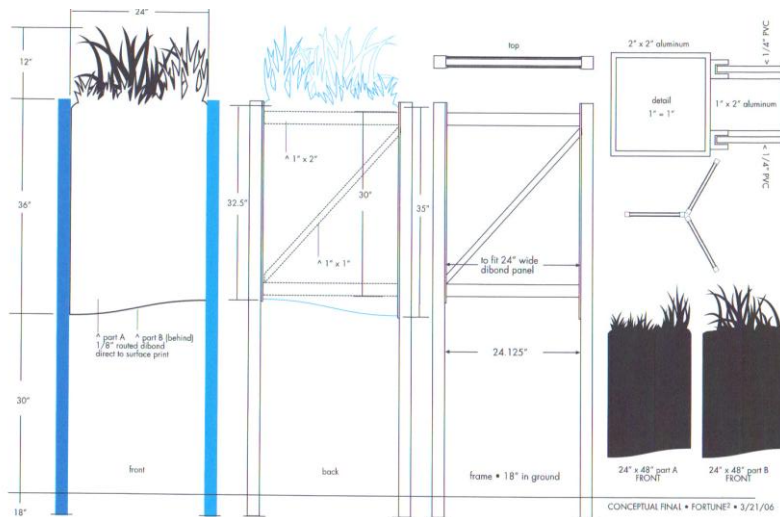
4 Surface Mount Posts & Bases 534 lbs. AMC3405: \$3,735 **SALE!** \$3,250 ea.  
4" x 4" x 72"

LED Light Option\* AMC3157: \$980 \$ 635 ea.  
Recycled Rubber Backboard Upgrade AMC3357: \$280 \$ 200 ea.  
\* not shown

Order by phone: 1.866.965.4729 Order by fax: 1.262.787.1802

# Mercury Interpretive Signage Hacienda Display Project

## Fred Fortune Design



Furnishing great  
places to learn.®

Have questions?  
**1-800-260-2776**  
Mon-Fri: 8-8 Eastern  
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A15557  
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### SELECTED CATEGORY: BULLETIN BOARDS & LETTER BOARDS

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Sided Homasote Message Center](#)

Nex-Terra

**Sliding Door Double Sided Homasote Message Center (46" W X  
36" H)**



[Click to Enlarge](#)  
Sliding Door Double Sided Homasote Message  
Center

Your Price: **\$1,838.99** each  
Manufacturer's Price: ~~\$1,890.00~~  
**Save 3%**



SKU: NET-M113321930

Post messages in an environmentally  
friendly way with the Sliding Door Homasote  
Message Center. The body is 97-percent-  
recycled-plastic and the Homasote posting  
board is made of recycled paper, meaning  
this message center uses relatively few new  
materials. The recycled high-density  
polyethylene exterior resists insects,  
moisture and mold. The durable plastic  
won't crack or succumb to harmful UV rays.  
The sliding polycarbonate doors protect  
materials inside from the elements and from  
vandalism. The aluminum track will last for  
years.

[View specifications](#)

To Order:

Choose a quantity

Choose your options

Roll over boxes to enlarge.

Choose a color:



Select Standard Colors ▼

Note: The colors your monitor displays may  
vary slightly from the actual product colors.

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## Mercury Interpretive Signage Hacienda Display Project

**QUOTE**

**Rich Robinson Black Iron Design**

1573 Puerto Vallarta  
San Jose, Ca. 95120  
Phone 1 408 375 3162  
Richrobertson1573@sbglobal.net

DATE: NOVEMBER 20, 2012

TO Mike Boulland  
Friends of Los Alamitos Watershed  
P.O. Box 122  
New Almaden Ca 95042  
1 408 268 2703

SALESPERSON	JOB	PAYMENT TERMS	DUE DATE
Rich	FOLAW	Due on receipt	

QTY	DESCRIPTION	UNIT PRICE	LINE TOTAL
	1. Six Sided Steel Double Display Kiosk Fabrication and Installation	900.00	900.00
SUBTOTAL			900.00
SALES TAX			90.00
TOTAL			990.00

**QUOTE**

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SALESPERSON	JOB	PAYMENT TERMS	DUE DATE
Rich	FOLAW	Due on receipt	

QTY	DESCRIPTION	UNIT PRICE	LINE TOTAL
	Six Sided Steel Double Display Kiosk Material Iron/Steel 1. 1/2" x 1/4" Flat bar 60' 2. 2" black iron pipe 3 each @ 8' 3. 3" black iron pipe 1 each @ 8' 4. 4" x 4" x 1/8" angle bar 3 each @ 5' 5. Other iron	1000.00	1000.00
SUBTOTAL			1000.00
SALES TAX			100.00
TOTAL			1100.00

### **Comparison Quotes**

#### **Kirby Custom Sign Gallery**

3 Message Centers – Large Horizontal Message Centers  
Double sided with two in ground post –Plastic  
Additional installation fees not included

\$5,108.83

#### **School Outfitters**

3 Sliding Door Double Sided Homasote Message Center  
Plastic and recycled paper  
Additional installation fees not included

\$5,104.45

#### **Rich Robertson Black Iron Design**

Black (Brown Paint) iron steel display signs  
3 doubled sided signs / installed  
Custom designed to SCCP&R standards  
Powder Coated

\$2640.00

#### **Fred Fortune Design**

Black (Brown Paint) iron steel  
Design – Wrong size  
Additional installation fees not included

\$1500.00

**FOLAW - Stewardship Grant  
Hacienda Sign Display Meeting  
Agenda**

- 1. Purpose of the meeting is to:**
  - a. Submit the final SVCWD Stewardship Grant- FOLAW Hacienda Mercury Sign Project – Planning Document**
  - b. Obtain a Staff Lead/Liaison signature**
  - c.**
- 2. Next Steps**
- 3. Calendar**
- 4. Action**
  - a. Include this agreed Senior Park Ranger and Senior Park Maintenance sign displays recommendation in the SCVWD Stewardship Grant – FOLAW Hacienda Mercury Signs Project – Planning Document**

## Mercury Interpretive Signage Hacienda Display Project

### Rich Robertson's Welding Art Work

