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RECLAMATION OF COPPER CREEK AND NEWTON COPPER MINE SITE

Douglas W. Mondani
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Jackson, Ca 95642
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Donald A. Mondani
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Ione, Ca 95640
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Geraldine Cassinelli
P.O. Box 6648
Tahoe City, Ca 96145
Phone: 916-581-2039

PRIVATE OWNERS

RFP Type: CONSTRUCTION

CONTACT PERSON: GERALDINE CASSINELLI
1280 EDELWEISS
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TAHOE CITY, CA 96145
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I. SUMMARY

The Newton Copper Mine, a part of a small family owned ranch in Amador County, is the source of acidic pollution of the Copper Creek, a headwater of the Sacramento River. The owners, Douglas W. Mondani, Donald A. Mondani, and Geraldine Mondani Cassinelli have limited resources due to the financial burden of convalescent care for ten years of the previous owners, their mother and aunt.

The proposed reclamation plan is needed to meet compliance with the California Inland Surface Water Plan, and the 1994 Basin Plan for the Sacramento and San Joaquin River Basins as administered by the Regional Water Quality Control Board, Central Valley Region (Regional Board). Regional Board after inspections of the property and the adjacent Copper Creek recommended a clean up of the mine property in April, 1994.

Previous work by the Regional Board and a consultant hired by the owners have provided the information upon which the proposed work and costs contained herein are based. This previous work is limited in scope, but sufficient for purposes of developing the general cost projection presented. Costs are included for further investigative work needed to support the development of the reclamation plan described in this proposal.

The Newton Mine is an abandoned copper mine located six miles west of Jackson, California on U.S. Highway 88. Copper Creek, originates in the basin above the mine consisting of approximately a 350 acre watershed of springs and rain run off, flows past the Newton Mine tailings and ore materials, becomes acidic and contains elevated concentrations of dissolved metals, including copper and iron. A discharge of mine water from the main shaft occurs through a seep at the base of the tailings and hence to the creek and an overflow of water from the shaft runs through mine material on the north side (CAL TRANS and applicant's property). Total copper (12 to 29 milligrams per litre) dissolved in the creek waters and low pH conditions (pH=2.5 to 4.0) are sufficiently intense to cause an unhealthy ecosystem. The bottom sediments within Copper Creek and downstream from the mine are coated with hydrous iron oxide. This coating is yellow-ochre in color, and is present for about one quarter of a mile downstream. During the summer months, the 0.33 to 0.25 cubic feet per second flow to Sutter Creek; 1.5 miles downstream. Copper Creek does not maintain a sport fishery. However, it is large enough to support aquatic microorganisms and fry to supplement the aquatic life in Sutter Creek part of the year. Sutter Creek is a tributary of the Mokelumne River which is tributary to the Sacramento River Delta.

The beneficial uses of Copper Creek and downstream waters include stock watering, irrigation, preservation and enhancement of fish and wildlife, recreation, and aesthetic enjoyment.

The objective of the reclamation planning is to isolate mine waste rock from contact with surface and ground water. This isolation would result in an increase in water quality and restoration of the ecosystem around the mine area and in Copper Creek.

This plan has the support of the owners, USDA Natural Resources Conservation Service, and Amador County Board of Supervisors. Experienced licensed contractors and necessary county agencies will be used to complete the work. Approval from the California Regional Water Quality Control Board will be obtained prior to starting the project.

II. PROJECT DESCRIPTION

A. Background: The Newton Copper Mine lies in Section 28, T.6N.,R.10E., MDB&M. The mine is at an altitude of about 600 feet, in the lower foothills of the Sierra Nevada, several miles from their western edge. The mine is located on Assessor's Parcel Number 011-160-009 which contains approximately 64 acres and includes the mine claim identified as Newton Copper Mine Lot 39. Approximately two acres of the property are covered with waste rock, tailings, and the remnants of leaching and roasting piles.

The Newton Mine was located early in 1863 and worked extensively until 1867. The mine reopened in 1887. A smelter and blast furnace were added to the property during the following years. The mine closed again in 1901, heap leaching of the copper ore dumps continued until 1909. The mine re-opened early in 1943 after de-watering and mine rehabilitation. The mine operated until 1947, no mining has occurred since.

Recent investigations of the site have been limited to site visits (visual reconnaissance) and surface water pH and conductivity (EC) profiling, efforts which focused on gathering sufficient information on which to base this proposal. No chemical characterization of historic mining materials has been undertaken by the consultant and no subsurface investigation has been done. A geological consultant prepared a pH and EC profile of Copper Creek and of waters originating from the site during the winter of 1995-6.

B. Reclamation Plan: The objective of the reclamation planning is to isolate mine waste rock from contact with surface and ground water. In order to meet the objective several steps are necessary:

1. Project 1 Research acid-leach potential and volume of waste rock, engineer waste placement in an encapsulation cell, engineer the gunite treatment of the effected 500 feet of Copper Creek, plan of construction berms and/or cutoffs walls to be constructed to divert runoff from acid-producing rock, evaluation of completed work.
2. Project 2 Encapsulate waste rock
3. Project 3 Gunite approximately 500 feet of Copper Creek.
4. Project 4 Evaluate public health and safety plan and take water test.

Each of the above steps is discussed in greater detail.

Project 1

In order to obtain competitive quotes, an accurate field measurement of the volumes of mine waste rock, tailings and roasted ore will be made. A separate estimate of waste rock volume which is in contact with the Copper Creek flow and will need to be removed from creek will be made. The confirmation of previous work such as mapping of materials, volume measurements and rock and water samplings will be done in the field.

Develop a conceptual encapsulation cell plan including: the following layers: a. soiltop dressing and revegetation, 2. clay cover (from local lone formation), 3. waste rock

containing acid producing components (estimate 3000cyd), lime layer, clay liner (from lone formation), substrate/foundation (graded roasted ore).

Develop a detailed gunite program plan with drawings, materials, and construction specifications. A U.S. Army Engineer Corp 404 permit would be needed.

Develop plans for subsidiary diversion berms or subsurface cut off walls in select locations to convey runoff and subsurface interflow away from disposal cell.

Evaluate the waterflow upon completion of work.

Project 2

Stake and monitor the encapsulation of waste rock. Excavation, LCRS, clay liners, moving and placing rock and tailings, clay materials, and vegetation cover of capsule.

In summary, developing a capsule for waste rock material. Evaluate and plan construction of diversion berms and subsurface cutoff walls as needed. These structures would be designed to convey runoff and subsurface interflow away from the disposal cell.

Project 3

Gunite approximately 500 feet of Copper Creek from the mine (source of materials) to the end of the waste material. The stream will be a two to one slope (four feet bottom to eight feet top). Height will be five feet.

Project 4

----- Evaluate the water by taking test of pH and mineral content. Seek approval from Public Health and Safety of the Newton Copper Mine site.

III. COST AND SCHEDULE TO IMPLEMENT PROPOSED PROJECT

Project 1 Engineering

A. Confirm Rock	\$4400.00
B. Encapsulation	\$7700.00
Berms/Cutoffs (if needed)	\$2200.00
C. Gunite	\$4400.00
D. Evaluate	\$2000.00

TOTAL \$20700.00

Project 2 Encapsulation Cell

A. Staking and monitoring	\$7000.00
B. Excavation, LCRS, Clay liner, 60mil HDPE Liner, place tailings, one inch clay cap & vegetation cover	\$298000.00

TOTAL \$305000.00

Project 3 Gunite Stream

A. Price per foot \$25.00 x 500ft	\$125,000.00
TOTAL	\$125,000.00

Project 4 Evaluation

A. Water test @ \$150.00 per test Three locations	\$ 450.00
B. Site evaluation safety and health	\$1550.00

TOTAL \$2000.00

Total Project Cost \$452700.00

Schedule of each phase:

Project 1 Engineering	September, 1997-----April, 1998
Project 2 Encapsulation of rock	June, 1998-----November, 1998
Project 3 Gunite of stream	October 1998-----April, 1999
Project 4 Evaluation	November 1998-----April, 2000

IV. APPLICANT QUALIFICATIONS

1. Owners:

Douglas W. Mondani
Donald A. Mondani
Geraldine Mondani Cassinelli

The owners of the Newton Copper Mine, third generation of family ownership, inherited half of the property from Florence DuFrene, aunt, in 1985 and the other half from Nellie Mondani, mother, in 1994. The mine has operated during war periods and has not been worked since 1947. The present owners have not benefitted from the operation of the mine. The owners will depend on licensed contractors and consultants for the completion of the job.

1. Owner's Task:

Hire consultant for engineering
Work closely with California Regional Water Quality Board for approval
Work with CAL TRANS in coordinating the guniting project of Copper Creek
Seek approval from necessary Amador County agencies.
Put the guniting of Copper Creek out to bid to licensed contractors.
Put the encapsulation of waste materials out to bid to licensed contractors.

2. Professionals that provided the estimates of cost were:

A. Sierra Pacific Groundwater Consultants, Inc. Project 1 and 4
4911 Windplay Drive, Suite 4
El Dorado Hills, Ca 95762
Phone: 916-933-1468

Sierra Pacific is a California based corporation and Certified Small Business that has provided quality consulting services to its clients since 1989. Sierra Pacific is a multi-disciplined company that specializes in providing services to the mining and agricultural industries. They are a General Engineering Contractor and hold Hazardous Substances Removal and Remediation Actions certification.

B. Wolin & Sons, Inc. Project 2
General Engineering Contractors
P.O. Box 98
Sutter Creek, Ca 95685
Phone: 209-267-9111

Wolin & Co, Inc. are experienced contractors in Northern California the past thirty years. The company completed work for the first phase of Penn Mine, El Dorado County Mine and Landfill, and Ione Landfill.

C. Amador Mechanical Project 3

Mervin Vicini
15500 Willow Creek Road
Ione, Ca 95640
Phone 209-245-3850

A general contractor serving the Mother Lode for approximately 30 years. He has experience working with mine related problems. A recent project was the preparation of materials for hauling at the Argonaut Gold Mine in Jackson, Ca.

3. State and County government and agencies:

A. California Regional Water Quality Board

3443 Routier Road, Suite A
Sacramento, Ca 95827
Phone: 916-255-3015

B. USDA Natural Resources Conservation Service

Robert Long
42-A Summit St.
Jackson, Ca 95642
Phone: 209-223-1846

C. Amador County Board of Supervisors

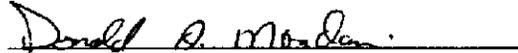
Thomas Bamert, Chairman
2303 Bamert Rd.
Ione, Ca 95640
Phone: 209-274-2211

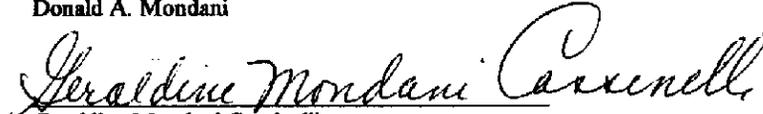
E. CAL TRANS

Louis Kuntz
P.O. Box 606
Angels Camp, Ca 95221
Phone: 209-736-0733

Signature Page for CAL FED proposal entitled Reclamation of Copper Creek and Newton
Copper Mine Site


Douglas W. Mondani


Donald A. Mondani


Geraldine Mondani Cassinelli

Documents attached:

1. Letter from California Regional Water Quality Control Board
2. Test results from Sierra Foothill Lab of Winter of 1995-6
3. Test results from Sierra Foothill Lab of April 25, 1997
4. Project priority letter--California State Senator Tim Leslie
5. Project support letter--Board of Supervisors, Tom Bamert Chairman
6. Maps of Newton Copper Mine Site

CLERK
 CHAIRMAN
 APPROPRIATIONS
 JUDICIARY
 RURAL AFFAIRS
 CHAIRMAN
 WESTERN STATES LEGISLATIVE
 FORESTRY TASK FORCE
 SENATE
 INSURANCE
 NATURAL RESOURCES AND WILDLIFE
 LIBERATION
 INSURANCE SUBCOMMITTEE ON
 HEALTHCARE REFORM

Senate

California Legislature



TIM LESLIE
 SENATOR, FIRST DISTRICT

SENATE COMMITTEES
 LABOR ALLOCATION AND
 CLASSIFICATION
 LEGISLATIVE BUDGET
 PRISON CONSTRUCTION
 AND OPERATIONS
 SENATE COMMITTEES
 CALIFORNIA WINE INDUSTRY
 GROWERS AND PRODUCERS

July 24, 1997

CALFED Bay Delta Program
 1416 9th Street, Suite 1155
 Sacramento, CA 95814

To Whom it May Concern:

I am writing in regard to a proposal submitted by Ms. Gerri Cassinelli, Mr. Donald Mondani and Mr. Douglas Mondani, owners of the former Newton Copper Mine site in Amador County, California.

The Newton Mine, adjacent to Highway 88 between the towns of Jackson and Ione, was established in the 1860's as a source for copper during periods of war. The mine was last worked in 1947. In 1994, the owners were requested to clean up the water drainage through the mine by the California Regional Water Quality Board. A consultant was hired, developing a site report, and performed runoff testing during the winters of 1995-1996.

The concluding report presented reclamation efforts beyond the ability of the present owners to complete. The owners, in conjunction with the Soils Agency and Amador County Board of Supervisors, are submitting a proposal requesting Proposition 204 funding for engineering and reclamation of the mine site.

The owners have diligently worked to develop an acceptable plan, but are financially unable to proceed. I would ask that CALFED give this proposal every possible consideration. Tim Murphy in my Roseville district office has been assigned this issue. If you have any questions or comments, please feel free to contact Tim directly. He can be reached by telephone at (916) 969-8232 or in writing at 1200 Melody Lane, Suite 110, Roseville, CA 95678.

Thank you for your prompt attention to this most important matter.

Sincerely,

TIM LESLIE
 Senator, First District

TL/tm
 cc: Ms. Gerri Cassinelli

SACRAMENTO OFFICE - STATE CAPITOL - SACRAMENTO, CA 95833 - (916) 445-1788
 ROSEVILLE OFFICE - 1200 MELODY LANE, SUITE 110 - ROSEVILLE, CA 95678 - (916) 969-8232 / (916) 969-8233 / (916) 969-8234 / (916) 969-8235 / (916) 969-8236 / (916) 969-8237 / (916) 969-8238 / (916) 969-8239 / (916) 969-8240 / (916) 969-8241 / (916) 969-8242 / (916) 969-8243 / (916) 969-8244 / (916) 969-8245 / (916) 969-8246 / (916) 969-8247 / (916) 969-8248 / (916) 969-8249 / (916) 969-8250 / (916) 969-8251 / (916) 969-8252 / (916) 969-8253 / (916) 969-8254 / (916) 969-8255 / (916) 969-8256 / (916) 969-8257 / (916) 969-8258 / (916) 969-8259 / (916) 969-8260 / (916) 969-8261 / (916) 969-8262 / (916) 969-8263 / (916) 969-8264 / (916) 969-8265 / (916) 969-8266 / (916) 969-8267 / (916) 969-8268 / (916) 969-8269 / (916) 969-8270 / (916) 969-8271 / (916) 969-8272 / (916) 969-8273 / (916) 969-8274 / (916) 969-8275 / (916) 969-8276 / (916) 969-8277 / (916) 969-8278 / (916) 969-8279 / (916) 969-8280 / (916) 969-8281 / (916) 969-8282 / (916) 969-8283 / (916) 969-8284 / (916) 969-8285 / (916) 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OFFICE OF
BOARD OF SUPERVISORS

500 ARGONAUT LANE • JACKSON, CA 95842-9534 • (209) 223-8470



July 28, 1997

Mrs. Geraldine Cassinelli
P.O. Box 6648
Tahoe City, CA 96145

Re: Newton Copper Mine
Sunnybrook, Ione

Dear Gerri:

As Supervisor of District II, I support your efforts in attempting to alleviate any harmful substances which may originate from the Newton mine, which is located on your property approximately six (6) miles west of Jackson on Highway 88. Under CalFed Bay-Delta Program, Category 3, the mine is in need of funding assistance for remediation of the property which will improve water quality in the surrounding area.

Your family acquired this property after it had been mined and it has been inactive since the acquisition, therefore, you are not the responsible party and I feel this is a proper use of State funds for remediation.

If additional documentation is required for securing the available funding, please contact me at the number listed above and I will provide as much assistance as possible. This matter will also be placed on the Amador County Board of Supervisors August 5, 1997 agenda requesting full Board support of your efforts.

Sincerely,

A handwritten signature in cursive script, appearing to read "E. Bamert".

Edward T. Bamert
Chairman

ETB/lmbd

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION1143 Roubier Road, Suite A
Sacramento, CA 95827-3098
PHONE: (916) 255-3000
FAX: (916) 255-3015

15 May 1995

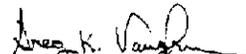
Ms. Gerri Cassinelli
10191 Firwood Drive
Cupertino, CA 95014CERTIFIED MAIL
Z 079 346 016**REQUEST FOR TECHNICAL REPORT, NEWTON MINE, AMADOR COUNTY**

Our records show that you, Mr. Douglas Mondani, and Mr. Donald Mondani are owners of property in Amador County near Ione along Highway 88 on which is located an inactive mine known as the Newton Mine. The Newton Mine continues to pollute waters of the State from adit discharges and waste rock contact with stormwater and surface water.

During your meeting with staff at this office on 11 April 1994 possible clean-up strategies and the timing of pollution abatement work for the inactive Newton Mine were discussed. Although you were in the early stages of working toward a solution, you and staff tentatively agreed on a workplan submittal during the fall of 1994 to prepare for construction/abatement activities the following summer. Your letters of 28 April 1994, 6 September 1994 and 26 January 1995 outlined your progress toward soliciting a consultant to provide a work plan to abate the discharge of acid mine drainage to Copper Creek. However to date we have not received the agreed on mine abatement work plan nor do we have any evidence that you intend to retain a qualified professional to prepare such a plan.

Due to this lack of progress, you are hereby required to submit a technical report by 15 June 1995, prepared by a qualified person, describing the measures you will take to mitigate the ongoing waste discharge to surface waters of the state. Authority for this request of a technical report is Section 13267 of the California Water Code (Porter-Cologne Water Quality Control Act). Failure or refusal to furnish technical reports may expose you to civil liability imposed administratively by the Regional Board in an amount of \$1,000 for each day of violation.

If you would like to meet or discuss this request for a technical report, please call James Brathovde at (916) 255-3137.


GREG K. VAUGHN
Senior Engineer

JEB:lb

cc: Mr. Gary Clark, Amador County Planning Department, Jackson
Ms. Margaret Blood, Amador County Environmental Health, Jackson
Mr. Donald Mondani, Plymouth (CERTIFIED MAIL: # Z 079 346 017)
Mr. Douglas Mondani, Ione (CERTIFIED MAIL: # Z 079 346 018)

**NEWTON MINE
SURFACE WATER SAMPLING**

Sampling Station : Bridge		Sampling Dates			Water Quality Goal
Parameter	Units	11-02-95	12-30-95	01/30/96	(Note 1)
Alkalinity	mg/l	140	56	76	20 (max)
Acidity	mg/l	-	-	-	No listed goal
Specific Conductance	umho/cm	314	326	274	700
Foaming Agents	mg/l	<0.1	<0.1	<0.1	No listed goal
TDS	mg/l	270	240	220	450
pH	unit	6.5	7.1	7.2	6.5
Hardness	mg/l	190	140	120	No listed goal
Chloride	mg/l	8	18	11	106
Nitrate-N	mg/l	-	10	-	10
Nitrite-N	mg/l	<0.05	<0.02	<0.02	No listed goal
Sulfate	mg/l	34	60	28	250
Calcium	mg/l	38	20	17	No listed goal
Sodium	mg/l	13	12.7	12	No listed goal
Copper	mg/l	0.47	0.38	0.05	0.2
Iron	mg/l	640	2.42	0.26	5
Magnesium	mg/l	20.2	22	19	No listed goal
Manganese	mg/l	1.2	<0.03	<0.03	0.2
Zinc	mg/l	0.11	<0.05	<0.05	2

Sampling Station : Stream Prior		Sampling Dates			Water Quality Goal
Parameter	Units	11-02-95	12-30-95	01/30/96	(Note 1)
Alkalinity	mg/l	60	-	46	20 (max)
Acidity	mg/l	-	360	-	No listed goal
Specific Conductance	umho/cm	391	1310	313	700
Foaming Agents	mg/l	<0.1	<0.1	<0.1	No listed goal
TDS	mg/l	300	760	250	450
pH	unit	6.9	2.9	6.7	6.5
Hardness	mg/l	210	180	140	No listed goal
Chloride	mg/l	5.8	16	13	106
Nitrate-N	mg/l	-	7.6	-	10
Nitrite-N	mg/l	<0.05	<0.02	<0.02	No listed goal
Sulfate	mg/l	140	520	63	250
Calcium	mg/l	33.3	33	21	No listed goal
Sodium	mg/l	13	12.9	12	No listed goal
Copper	mg/l	4	3.88	0.41	0.2
Iron	mg/l	36	112	8.44	5
Magnesium	mg/l	25.6	24	21	No listed goal
Manganese	mg/l	0.83	0.33	0.07	0.2
Zinc	mg/l	0.24	0.27	<0.05	2

Note 1 - Water quality goals are based upon the California Regional Water Quality Control Board (Central Valley) Staff Report "A Compilation of Water Quality Goals", Sept. 1991 (Organics, Page 2). Where multiple goals are offered, the Agricultural Water Quality Goal has been utilized.

**NEWTON MINE
SURFACE WATER SAMPLING
(CONTINUED)**

Sampling Station : Western Culvert		Sampling Dates			Water Quality Goal
Parameter	Units	11-02-95	12-30-95	01/30/96	(Note 1)
Alkalinity	mg/l	--	--	--	20 (max)
Acidity	mg/l	340	850	100	No listed goal
Specific Conductance	umho/cm	1420	2180	620	700
Foaming Agents	mg/l	<0.1	<0.1	<0.1	No listed goal
TDS	mg/l	1000	1600	380	450
pH	unit	2.9	2.7	3.5	6.5
Hardness	mg/l	470	290	150	No listed goal
Chloride	mg/l	9.2	50	11	106
Nitrate-N	mg/l	--	5.6	--	10
Nitrite-N	mg/l	<0.05	<0.02	<0.02	No listed goal
Sulfate	mg/l	690	1200	220	250
Calcium	mg/l	69.3	57	23	No listed goal
Sodium	mg/l	15	14.5	12	No listed goal
Copper	mg/l	12.4	12.5	2.97	0.2
Iron	mg/l	32	221	3.69	5
Magnesium	mg/l	52.5	36	22	No listed goal
Manganese	mg/l	3.76	1.04	0.34	0.2
Zinc	mg/l	1.27	1.07	0.28	2

Sampling Station : Tailing Pile		Sampling Dates			Water Quality Goal
Parameter	Units	11-02-95	12-30-95	01/30/96	(Note 1)
Alkalinity	mg/l	--	--	--	20 (max)
Acidity	mg/l	1600	3100	2100	No listed goal
Specific Conductance	umho/cm	3600	5400	4200	700
Foaming Agents	mg/l	<0.1	<0.1	<0.1	No listed goal
TDS	mg/l	2900	5100	3700	450
pH	unit	2.4	2.3	2.3	6.5
Hardness	mg/l	570	600	64	No listed goal
Chloride	mg/l	9.2	25	16	106
Nitrate-N	mg/l	--	1.5	--	10
Nitrite-N	mg/l	<0.05	<0.02	0.03	No listed goal
Sulfate	mg/l	2600	3900	2200	250
Calcium	mg/l	89	118	14	No listed goal
Sodium	mg/l	17	19.4	13	No listed goal
Copper	mg/l	35	50	36	0.2
Iron	mg/l	293	814	478	5
Magnesium	mg/l	61.2	75	7.1	No listed goal
Manganese	mg/l	2.89	2.41	1.94	0.2
Zinc	mg/l	4.19	4.58	3.1	2

Note 1-- Water quality goals are based upon the California Regional Water Quality Control Board (Central Valley) Staff Report "A Compilation of Water Quality Goals", Sept. 1991 (Organics, Page 2). Where multiple goals are offered, the Agricultural Water Quality Goal has been utilized.

**Newton Mine
Field Parameters--Four Surface Water Stations**

Station and Parameter	Units	Sampling Dates		
		11-02-95	12-30-95	01-30-96
Bridge				
pH	units	6.5	6.42	6.9
Conductivity	umho/cm	353	323	295
Temperature	F	60.1	59	53.5
Stream Prior				
pH	units	6.95	3.01	6.56
Conductivity	umho/cm	390	5950	318
Temperature	F	69.7	63.2	54.4
Western Culvert				
pH	units	3.04	2.73	3.9
Conductivity	umho/cm	1500	2260	583
Temperature	F	64.3	62.2	54.9
Tailing Pile				
pH	units	2.51	2.2	2.37
Conductivity	umho/cm	3310	6240	4130
Temperature	F	66.1	61.7	59.2
Precipitation				
season to date, inches		0	7.3	15.2

1-004079

1-004079

**SIERRA
FOOTHILL LABORATORY**

REPORT

2 S. HWY. 49
PO BOX 1268 • JACKSON, CA 95642
(916) 223-2800

Page 1 of 2
TEST REPORT: 437722

Belt Engineering & Scientific
22049 Yerba Santa Dr
Sonoma, CA 95370-
Attention: Bob Belt

Sample Identification: Downstream CalTrans R/W
Collected By: R Belt
Date & Time Taken: 04/17/97 1815

Other Data: G W I L P
Sample Matrix: Liquid
Report Date: 04/25/97

Received: 04/22/97

Client: BEL3

PARAMETER	RESULTS	UNITS	ANALYZED	EQL	METHOD	BY
Sulfate, Turbidimetric	150	mg/L	0935 04/24/97	0.5	EPA375.4	GK
pH	5.5	unit	1405 04/22/97	0.1	EPA150.1	GK
Copper, FAA	103	mg/L	1105 04/23/97	0.03	EPA220.1	TN
Iron, FAA	920	mg/L	1515 04/22/97	0.05	EPA236.1	TN
Zinc, FAA	0.73	mg/L	1400 04/23/97	0.05	EPA289.1	TN

Sample Preparation Steps for 437722

Nitric Acid Digestion	04/22/97	Date	1400 04/22/97	SM3030E	TN
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Quality Assurance for the SET with Sample 437722

Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
Sulfate, Turbidimetric									
	Standard	140	mg/L	150		93	0935	04/24/97	GK
437722	Duplicate	150	mg/L	150		0	0935	04/24/97	GK
437722	Spike		mg/L		28	94	0935	04/24/97	GK
437722	Spike		mg/L		28	100	0935	04/24/97	GK
pH									
	Standard	7.4	unit	7.4		100	1405	04/22/97	GK
437717	Duplicate	6.6	unit	6.6		0	1405	04/22/97	GK
Copper, FAA									
	Blank	<0.03	mg/L				1105	04/23/97	TN
	Standard	39.5	mg/L	40.2		98	1105	04/23/97	TN
	Standard	39.9	mg/L	40.2		99	1105	04/23/97	TN
437421	Duplicate	0.04	mg/L	0.04		0	1105	04/23/97	TN
437716	Spike		mg/L		0.50	94	1105	04/23/97	TN
Iron, FAA									

Continued

SIERRA FOOTHILL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA DEPT. HEALTH SERVICES
FOR DRINKING WATER, WASTEWATER, HAZARDOUS WASTE TESTING, HAZARDOUS WASTE BIOASSAY

SIERRA
FOOTHILL LABORATORY

REPORT

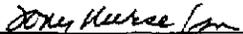
18 HWY 99
BOX 1266 • JACKSON, CA 95640
TEL: 223-2800

04/25/97

437722 Continued

Page 2 of 2

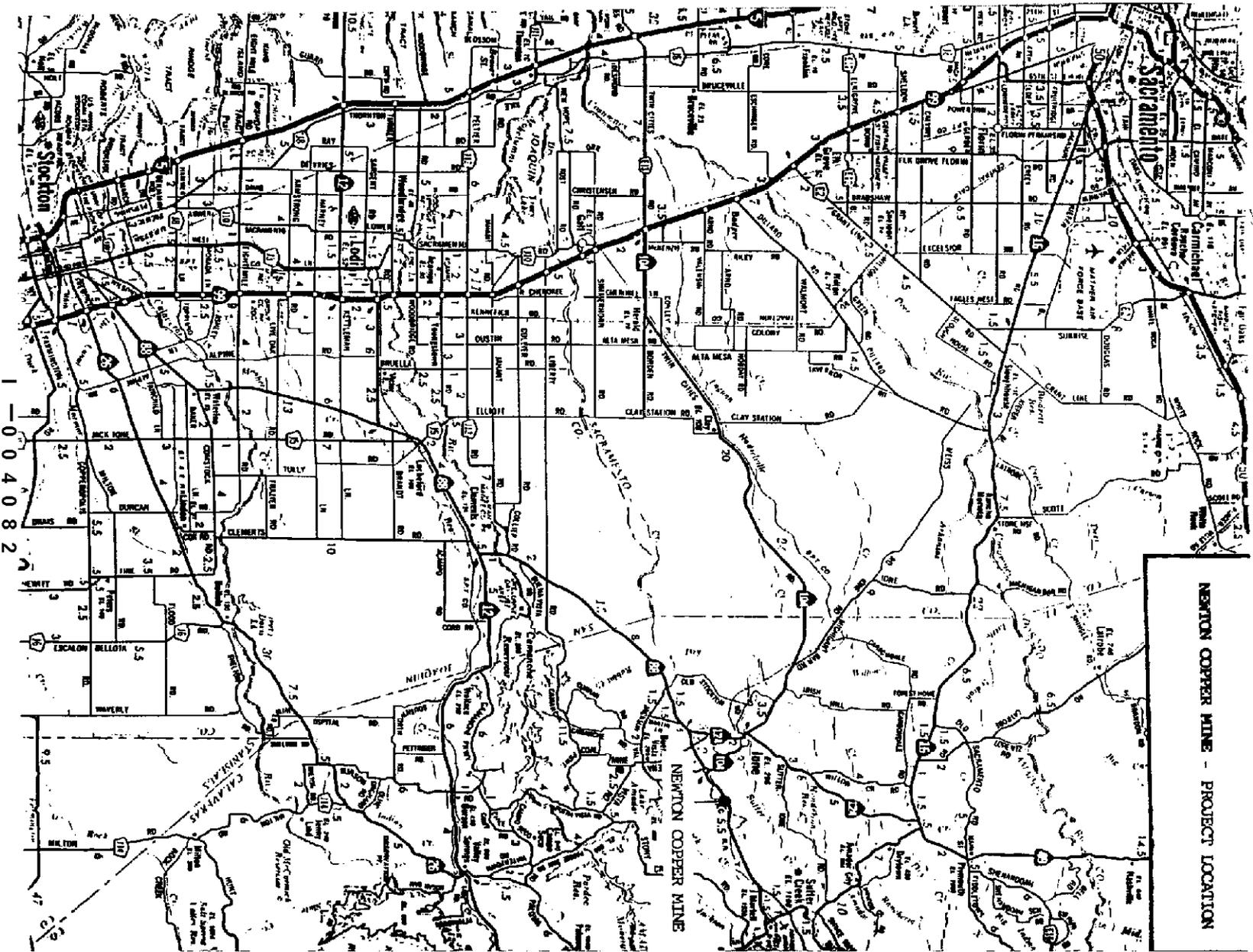
Sample #	Description	Result	Units	Dup/Std Value	Spk Conc.	Percent	Time	Date	By
	Blank	<0.05	mg/L				1515	04/22/97	TN
	Standard	41.4	mg/L	40.0		104	1515	04/22/97	TN
	Standard	42.2	mg/L	40.0		106	1515	04/22/97	TN
437718	Duplicate	0.06	mg/L	0.05		18	1515	04/22/97	TN
437704	Spike		mg/L		0.50	97	1515	04/22/97	TN
Zinc, FAA									
	Blank	<0.05	mg/L				1400	04/23/97	TN
	Standard	40.2	mg/L	40.8		99	1400	04/23/97	TN
	Standard	40.8	mg/L	40.8		100	1400	04/23/97	TN
437721	Duplicate	<0.05	mg/L	<0.05		0	1400	04/23/97	TN
437716	Spike		mg/L		0.50	102	1400	04/23/97	TN


Tony Nurse, Owner/Analyst

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I - 0 0 4 0 8 1

I-004081

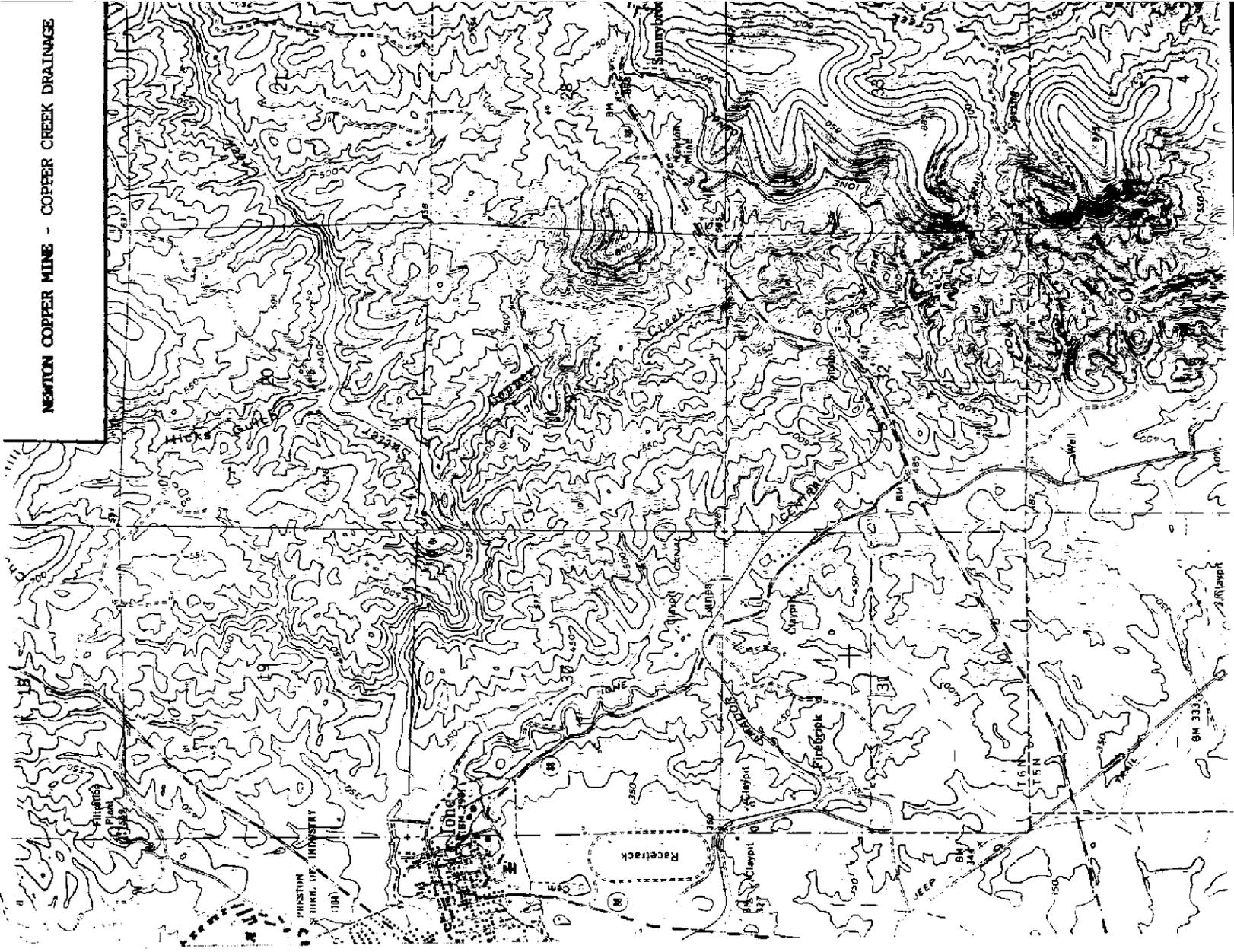


NEWTON COPPER MINE - PROJECT LOCATION

1-004082

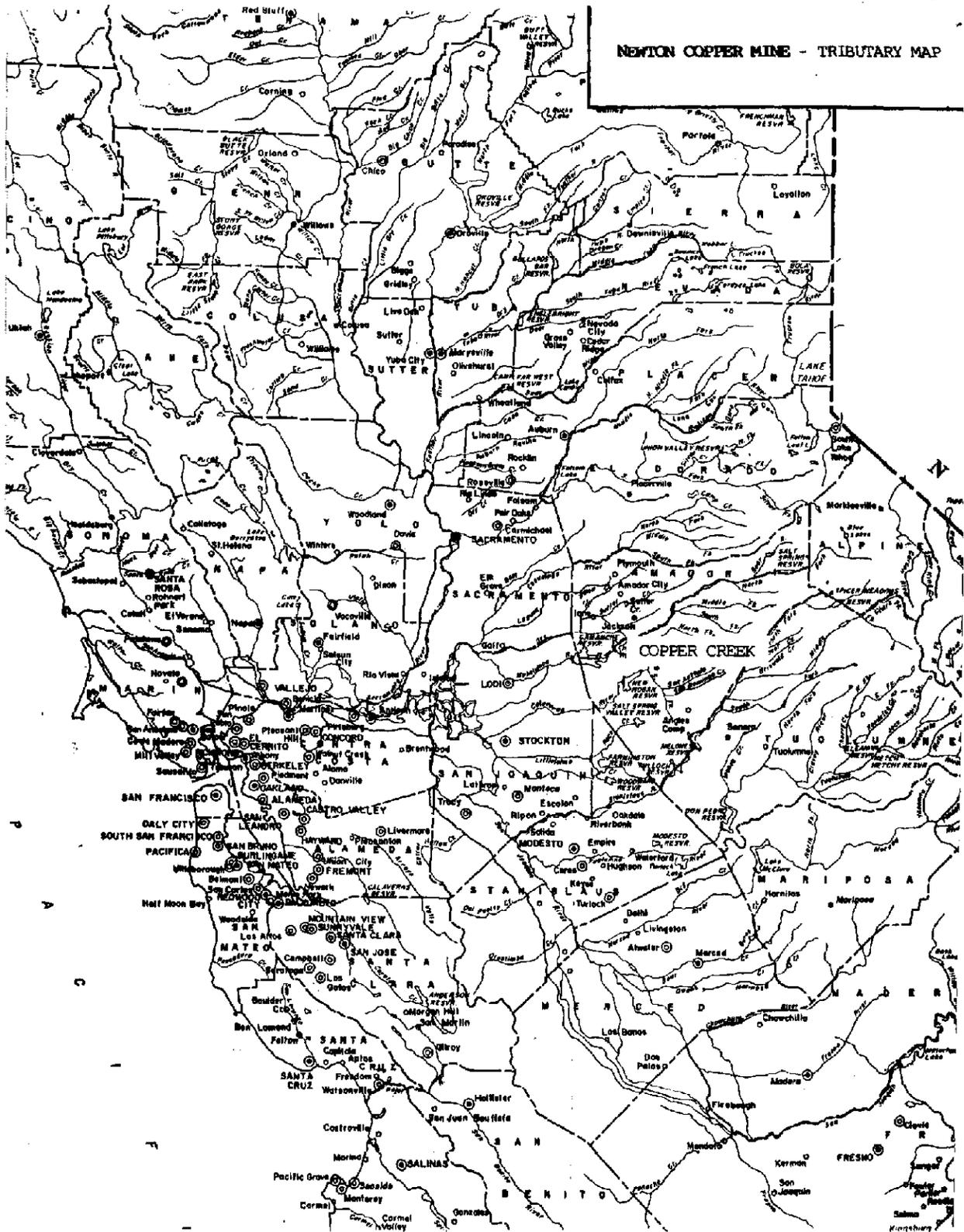
1-004082

NEWTON COPPER MINE - COPPER CREEK DRAINAGE



I - 0 0 4 0 8 3

NEWTON COPPER MINE - TRIBUTARY MAP



I - 004084

I-004084