

of the seasonal nature of large precipitation events. In winter, rain events fill Dunn Creek resulting in a dilution of the waters flowing from the Site. Flow from the Site is greatly reduced during the generally dry summer months, though there is typically no baseflow in Dunn Creek to dilute it. However, across the range of flows that have been sampled during this site investigation, no mercury (total or dissolved) or arsenic have been detected at concentrations that have exceeded the freshwater criteria. Freshwater criteria that have been exceeded by waters from sample location SW-07 include methyl mercury, alkalinity, total dissolved solids, chloride, iron, and nickel. With the exception of methyl mercury, all of these compounds were also found at concentrations exceeding the freshwater criteria in the samples collected from the Park Spring sample location (SW-04). The Park Spring is an offsite source of water with no known connection to the Mine. The waters from this spring are reflective of natural chemistry of waters that would flow from the area around the mine. Park Spring water contains concentrations in excess of the freshwater criteria of similar constituents to that of Dunn Creek immediately downgradient of the Site, which indicates that these exceedences would occur independent of any impacts caused by former Mine operations.

5.0 INVESTIGATION SUMMARY AND CONCLUSIONS

The investigation activities described in this report have included the following:

- Additional background site mapping using a topographic survey;
- Installation and sampling of wells completed within the former tunnel systems of the Bradley 165-level and the DMEA 360-level; and
- Surface water sampling at a total of sixteen locations.

The data collected during this phase of investigation have enabled a more complete understanding of the relationships between different water sources and overland flow patterns at the Site. Specifically, water sampling results from the two monitoring wells (ADIT-1 and DMEA-1) has enabled comparison of these results to the surface water sampling events that have been carried out in 2010 and 2011. This comparison and evaluation has resulted in more holistic understanding of the sources of surface water present at the Site, which specifically falls into three general categories: water sourced from underground mine workings (i.e. the Bradley mine workings); water sourced from overland flow through mine tailings and waste rock; and surface water which does not come in contact with mine tailings.

As described in Section 4.1.1.3 the chemical signatures of the water present in DMEA-1 and ADIT-1 are generally similar to one another, with the exception that DMEA-1 contains no mercury. Both wells contain arsenic. A dissimilarity in chemical signature between the wells was noted during the July 2011 well sampling compared to the June 2011 sampling, indicating that water present in the 165-level Adit had not been significantly affected by the 360-level. This observation suggests that the connection between the two systems is likely muted and being overwhelmed by the other sources of water flowing into the 165-level Adit level, specifically the brecciated source rocks and the saturated zone of the nearby fault. Therefore, the contribution of groundwater flow directly from the 360-level to the 165-level is likely small and insignificant, with the majority of water emanating from Adit Spring sample location (SW-15) being sourced from the natural fractures and saturated fault zone present near the mine workings, and independent of the Cordero tunnel systems.

Water flowing across the Site is either sourced from springs (including the Adit Spring) or from rainwater. These sources result in the three flow patterns described in Section 4.4 which include water sourced from the former underground mine workings, water that is sourced from precipitation which travels through the Bradley tailings and waste rock, and background water sources that generally do not contact mine tailings or waste rock. Water sampling along the pathway from the Adit Spring to the pond indicate that mercury concentrations increase the longer they are in contact with the mine tailings, and are highest in the lower pond, after the most time in contact with the tailings. Arsenic concentrations generally decrease, indicating the tailings are not a source of additional arsenic in water at the Site. Rainwater which percolates into the tailings piles also picks

up mercury and other compounds in its way to the pond. Sample locations SW-02 and SW-03 are representative of this pathway, but are similar in chemistry to SW-15. This observation shows they are all in contact with similar material, although not sourced from the same water. Water sampling locations SW-12, SW-16, and SW-4 are indicative of water that does not come into contact with former mine tailings. Samples collected from these locations are considered background concentrations and represent pre-mining site surface water conditions.

Surface sample location SW-07 is collected in Dunn Creek, downstream of surface water from the Site, and is considered a point-of-compliance sampling point. As such, the analytical results from this sampling location and all other surface sampling locations were compared to water quality criteria developed for bodies of freshwater by the CVRWQCB and the USEPA. The comparisons indicated several key points including:

- Mercury and arsenic are not present in location SW-07 above water quality criteria;
- Freshwater criteria are exceeded by waters from sample location SW-07 including methyl mercury, alkalinity, total dissolved solids, chloride, iron, and nickel; and
- With the exception of methyl mercury, all of these compounds are also detected at concentrations exceeding the freshwater criteria in the samples collected from the background Park Spring sample location (SW-04).

This point of compliance and water quality criteria evaluation shows that water downgradient of the Site exceeds water quality criteria only for compounds present in background samples above water quality criteria. Although mercury and other compounds from the mine are travelling into Dunn Creek, the contribution of the water from these sources is so small compared to other sources (i.e. Park Spring, runoff that does not come in contact with tailings), the presence of these compounds are reduced to background or near background levels at point of compliance sampling location SW-07.

The additional surface water samples collected have confirmed the results of previous samples collected earlier in 2010 and the Slotonin data. These similar results support the conclusions of the Characterization Report that the majority (94.3 percent based on Slotonin, 1995 calculations) of the mercury mass loading from the Site into Dunn Creek originates via surface runoff through the Bradley tailings piles, into the Lower Pond, and then into Dunn Creek.

The Site surface water sampling locations associated with runoff of surface water through the Bradley tailings piles and into the Lower Pond (SW-15, SW-02, SW-03, SW-05 and SW-09) fairly consistently exceeded water quality criteria for total and dissolved mercury, nickel, lead, and zinc, and less consistently exceeded the same criteria for methyl mercury, arsenic and chromium (e.g., Lower Pond sample location SW-09 had no methyl mercury, arsenic or chromium exceedences).

Data collected to date, including historical and current data, indicate that 1) the 360-level Cordero workings have little to no impact on the flow of water from the 165-level Adit workings that were mined by Bradley; 2) water emanating from the 165-level at sample location SW-15 and in ADIT-1 contains mercury concentrations above freshwater CVRWQCB and USEPA criteria, but does not contribute a significant enough flow into Dunn Creek to result in downgradient concentrations above the criteria; and 3) other compounds present in SW-07 (Dunn Creek) above these criteria area are also present in background water samples above water quality criteria. Data collected support conclusions by previous investigations that the key remedial focus at the Site is mitigating contact of surface and mine water with the Bradley tailings piles through removal and/or capping.

6.0 REFERENCES

- California Division of Mines, 1956, Interim Report, Docket No. DMEA-2448 (Mercury), March 6.
- California Division of Mines, 1958, California Journal of Mines and Geology, Mercury in Contra Costa County, Vol. 54, No. 4, October 1958, pp.530-535.
- CVRWQCB. 2008. Central Valley Regional Water Quality Control Board, A Compilation of Water Quality Goals. July.
- CVRWQCB. 2009. Revised Order to Sunoco Inc. To Submit Investigative Reports Pursuant to Water Code Section 13267, Mount Diablo Mine, Contra Costa County. December 30.
- Knox, Newton Booth, May, 1938, University of California Thesis, The Geology of the Mt. Diablo Mine.
- Iovenitti, J.L., Weiss Associates, and Wessman, J. 1989. Mount Diablo Mine Surface Impoundment Technical Report. June 30.
- Pampeyan, E. H. and Sheahan B. H. 1957. Final Report DMEA- 2448, Idm-E544 (Mercury), Mt. Diablo Quicksilver Mine, Contra Costa County, California.
- Pampeyan, E. H. 1963. Geology and Mineral Deposits of Mount Diablo, Contra Costa County, California, United States Geological Survey, Special Report 80, California Division of Mines and Geology.
- Ross C. P. 1940. Quicksilver Deposits of the Mount Diablo District, Contra Costa County, California .U.S. Geo. Survey Bull. 922-B.
- Schuette, C. N. 1954. Letter to DMEA dated March 5, 1954.
- Sheahan, B. H. 1956. Interim Report DMEA-2448 (Mercury), Mt. Diablo Quicksilver Mine, Contra Costa County, California. March 6.
- Slotton, Darell G., Ayers, Shaun M., and Reuter, John E. 1996. Marsh Creek Watershed 1995 Mercury Assessment Project, Final Report, 66 pgs. March
- Slotton, Darell G., Ayers, Shaun M., and Reuter, John E. 1997. Marsh Creek Watershed Mercury Assessment Project – Second Year (1996) Baseline Data Report, 31 pgs. July.
- Slotton, Darell G., Ayers, Shaun M., and Reuter, John E. 1998. Marsh Creek Watershed Mercury Assessment Project – Third Year (1997) Baseline Data Report with 3-Year Review of Selected Data, 62 pgs. June.
- Smith, Ronnie B., 1951, Letter to Arthur J. Inerfield, Assistant Executive Officer, Central Valley Water Pollution Control Board. December 8.
- The Source Group, Inc. (SGI). 2010a. Site Characterization Report. August 2.

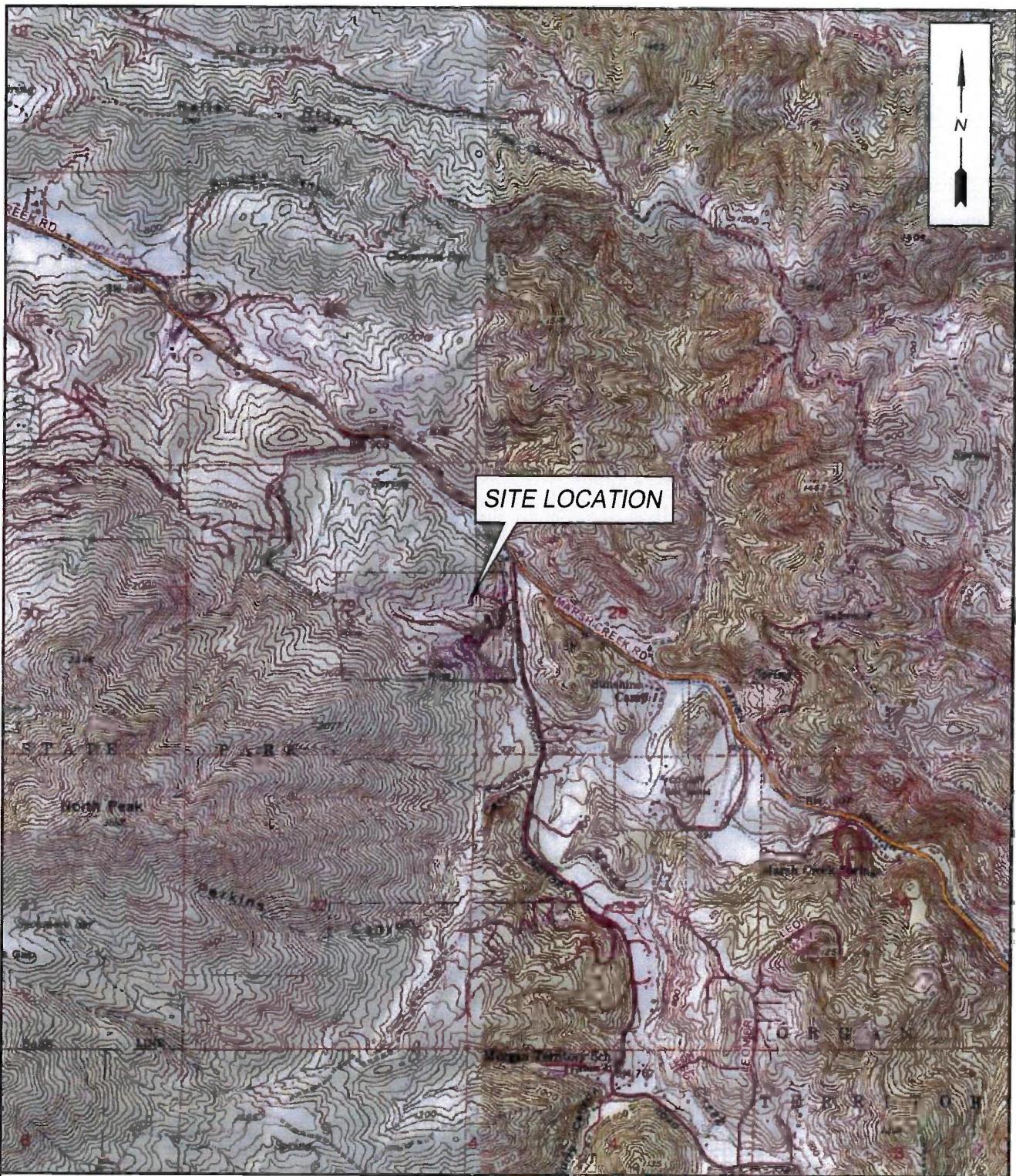
The Source Group, Inc. (SGI). 2010b. Additional Characterization Work Plan. October 18.

U.S. Environmental Protection Agency (USEPA). 2009. National Recommended Water Quality Criteria. Office of Water. Office of Science and Technology.

WPCB. 1955. Activity Report – Mt. Diablo Mine, Arthur J. Inerfield (A.J.I.) and W.D.B. April 8.

FIGURES

FIGURES



THE
SOURCE GROUP, INC.

3451 C VINCENT ROAD
PLEASANT HILL, CA 94523

MAP SOURCE: U.S.G.S.

SCALE:

0 MILES 0.5

SITE LOCATION MAP

SITE:

SUNOCO
MT. DIABLO MERCURY MINE

DATE:

12/05/08

LOCATION:

2430 MORGAN TERRITORY ROAD
CLAYTON, CALIFORNIA

FIGURE:

1-1



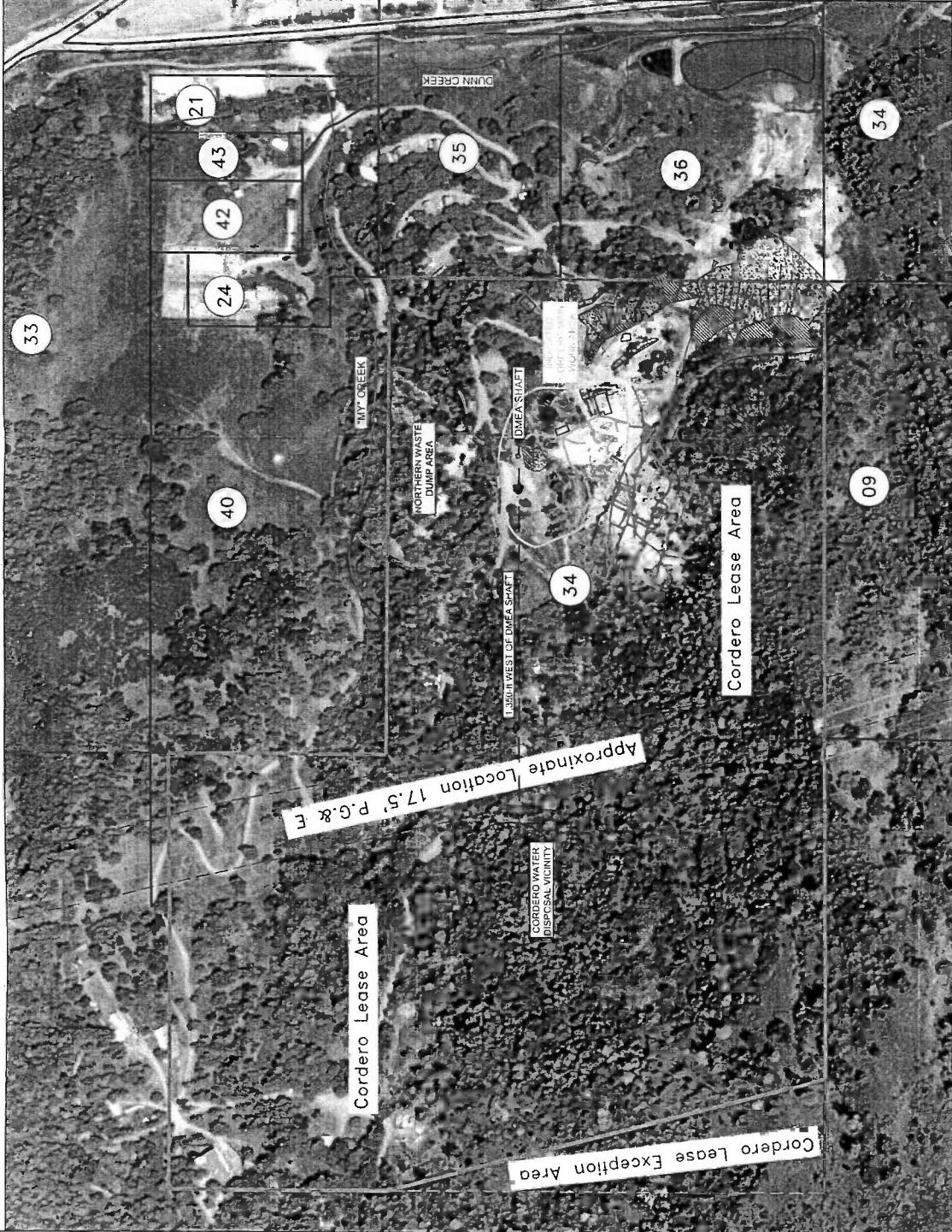
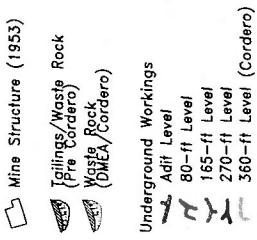
LEGEND
Mine Structure (1953)
Spring
Pond (2004 Outline)

THE
SGI SOURCE GROUP, INC.
environmental
3451 C VINCENT ROAD
PLEASANT HILL, CA 94523

2004 AERIAL PHOTO OF
MT. DIABLO MERCURY MINE
(2004 AERIAL)

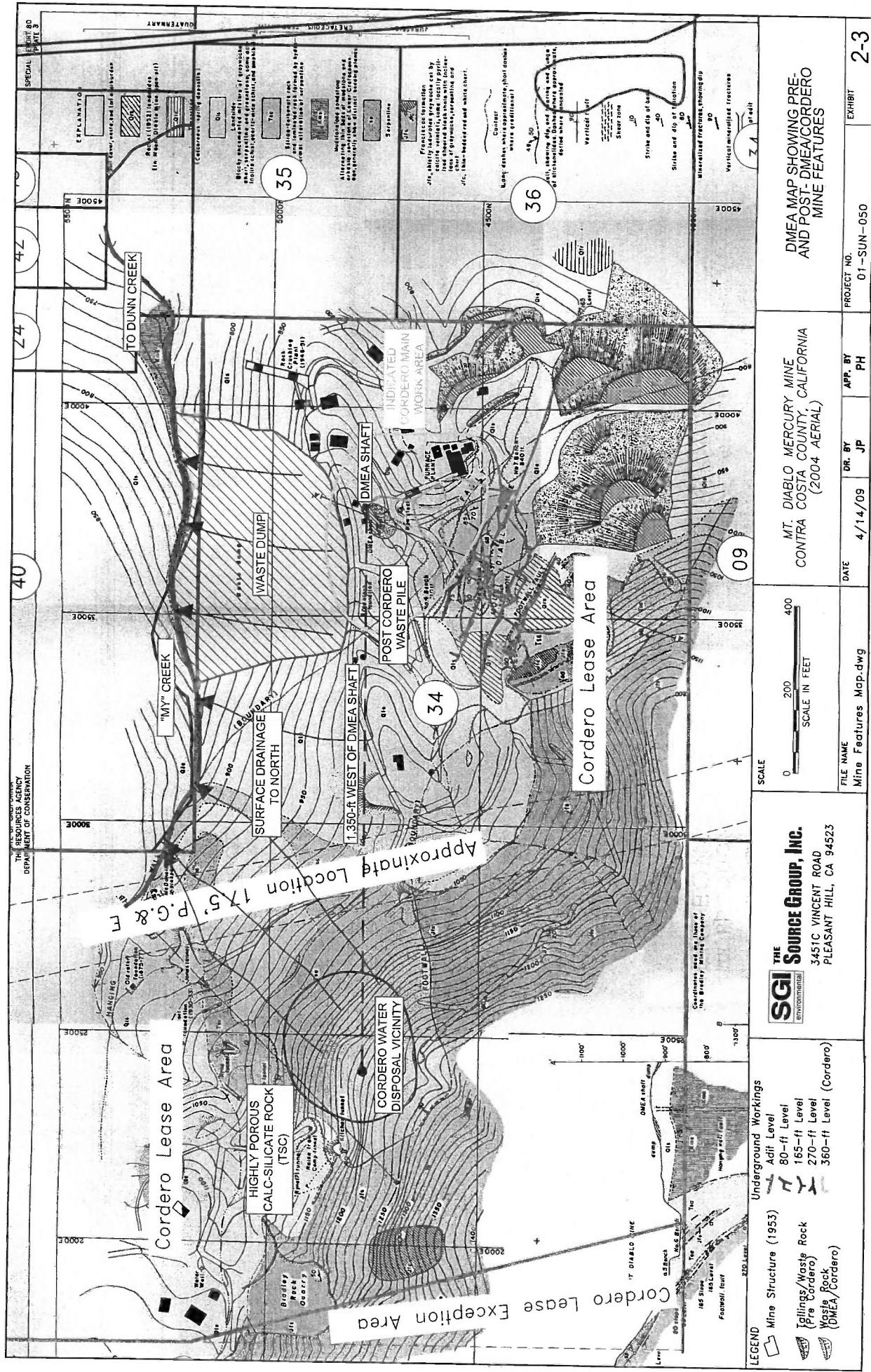
SCALE	0	150	300	SCALE IN FEET
FILE NAME	MT. DIABLO MERCURY MINE CONTRA COSTA COUNTY, CALIFORNIA (2004 AERIAL)	DATE	5/4/09	DR. BY JP
Mine Features Map.dwg		APP. BY PH		PROJECT NO. 01-SUN-050
				FIGURE NO. 2-1

LEGEND



SGI THE Source Group, Inc.
environmental
3451-C VINCENT ROAD
PLEASANT HILL, CA 94523

FIGURE:
2-2

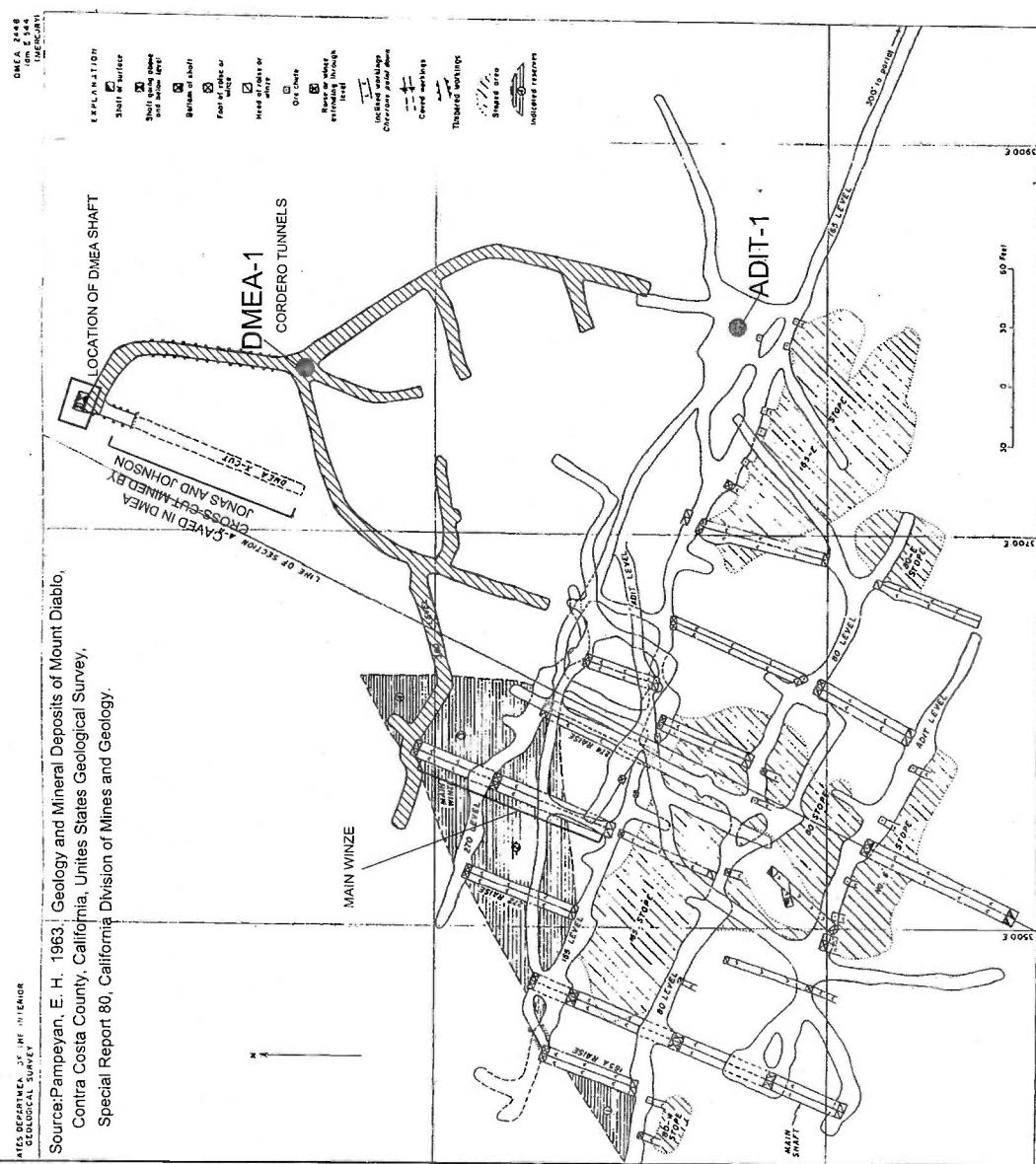






U.S. DEPARTMENT OF THE INTERIOR
Geological Survey
Source: Pamperian, E. H. 1963. Geology and Mineral Deposits of Mount Diablo, Contra Costa County, California. United States Geological Survey, Special Report 80, California Division of Mines and Geology.

Source:Pampeyan, E. H. 1963. Geology and Mineral Deposits of Mount Diablo, Contra Costa County, California, United States Geological Survey, Special Report 80, California Division of Mines and Geology



4 COMPOSITE MAP OF MILL WORKINGS, MT DIABLO MINE
CONTRA COSTA COUNTY, CALIFORNIA

3-96/597

ADIT-1 Monitoring Well Location

Cordero Workings

Monitoring Well Location



FIGURE:
3-3

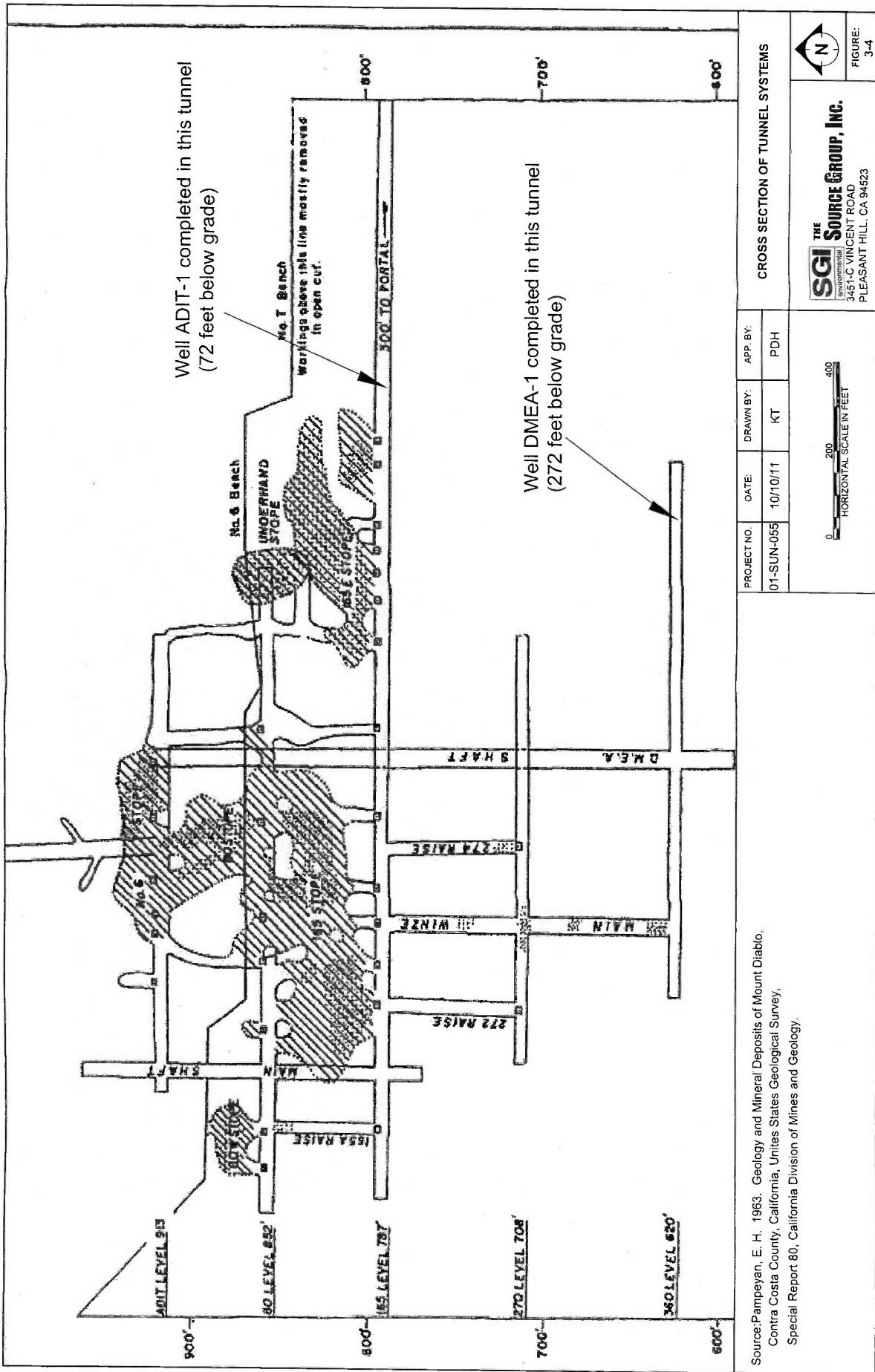


Figure 4-1
Mt Diablo Well Groundwater Elevations, 2011

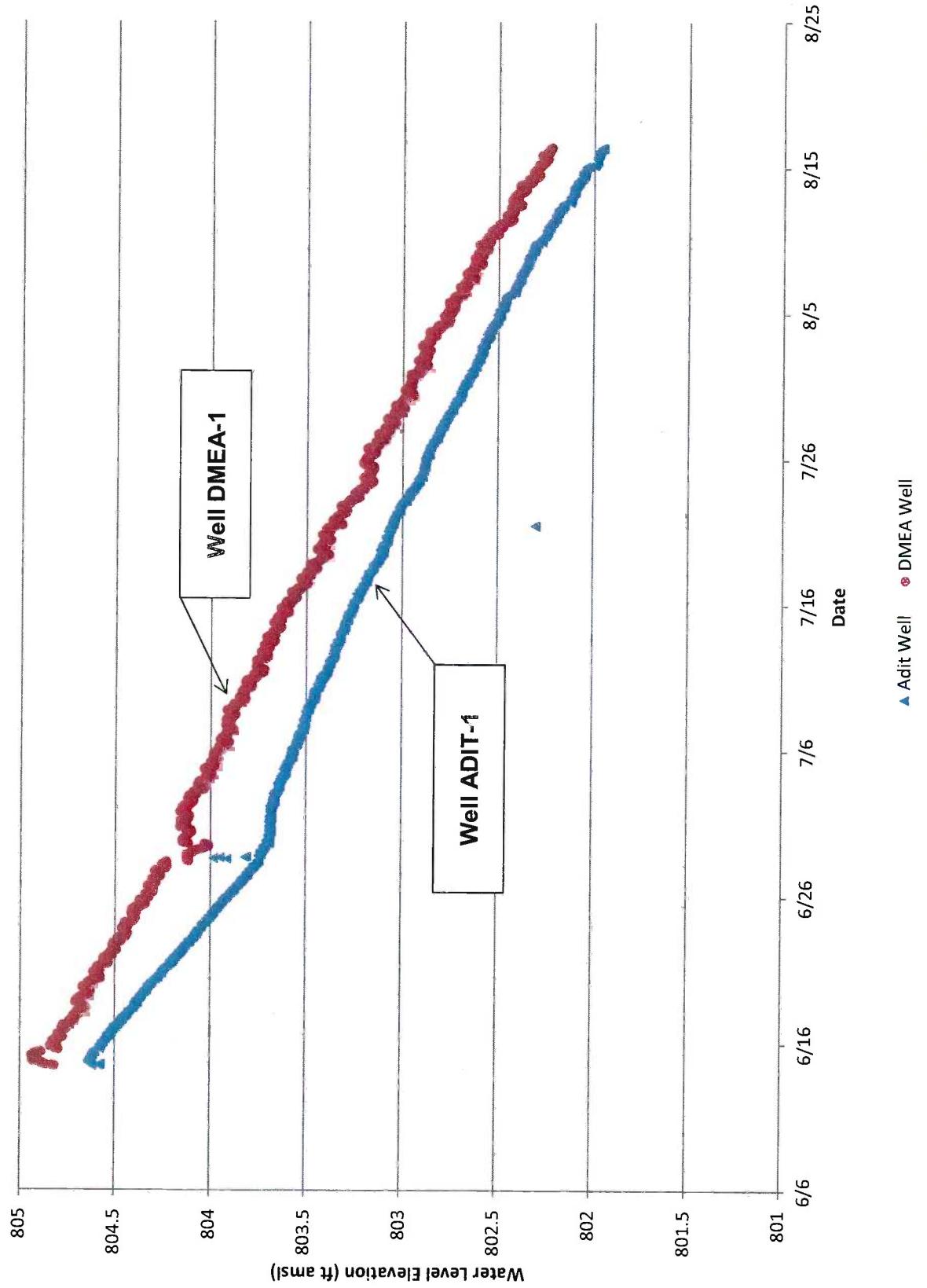
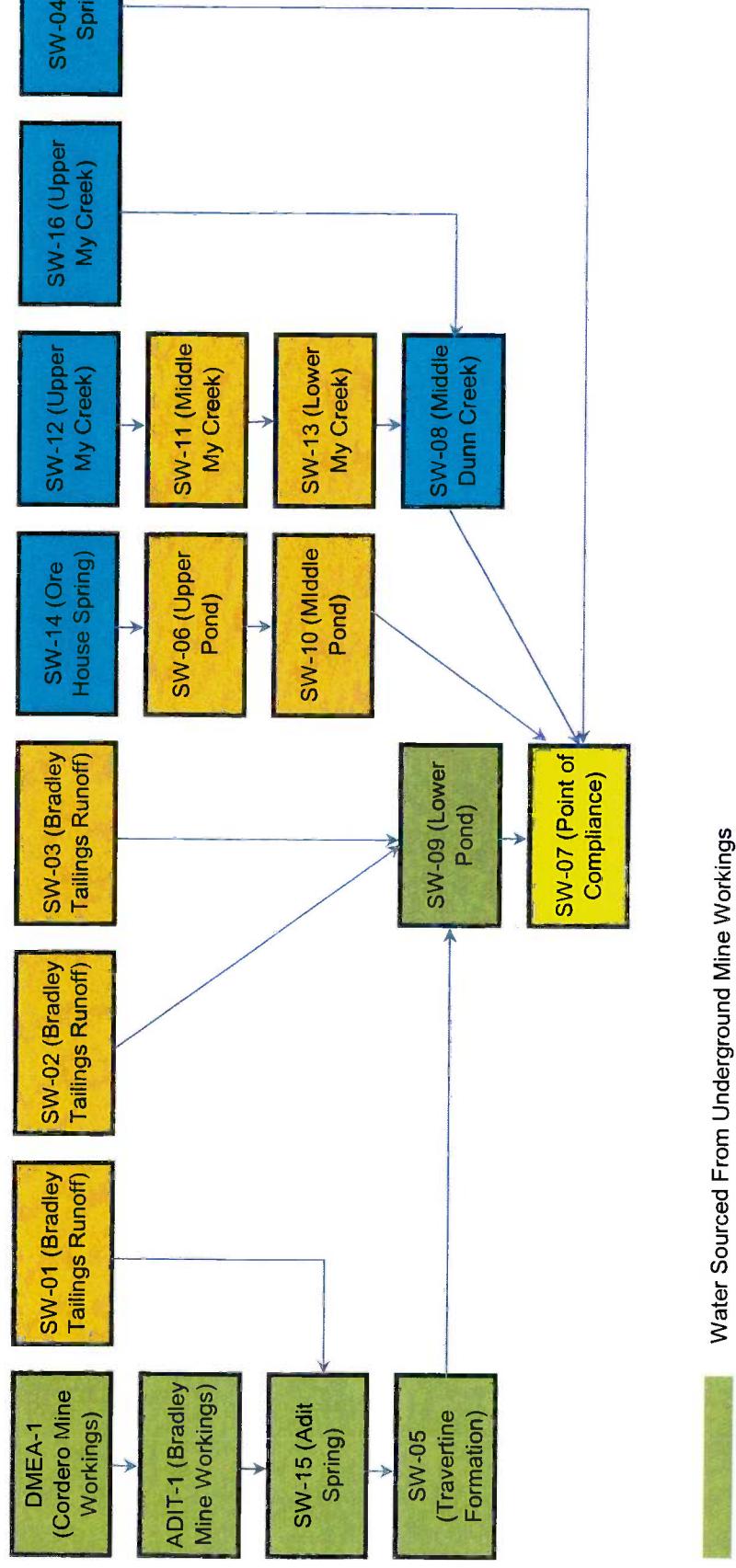


Figure 4-2
Site Water Flow Pathway Schematic



Water Sourced From Underground Mine Workings

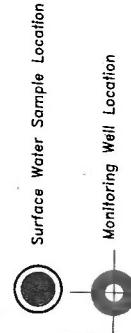
Water Sourced From Precipitation Percolating Through Mine Tailings and Waste Rock

Water Flows Not In Contact With Mine Tailings Or Waste Rock

Point of Compliance Water

LEGEND

Mine Structure (1953)



Hg

Mercury

<0.20 Analyte not detected at or above the laboratory reporting limit of 0.20 µg/L

NOTE
All concentrations reported in micrograms per liter ($\mu\text{g}/\text{L}$)

**SURFACE WATER AND WELL SAMPLING RESULTS,
MERCURY AND pH**

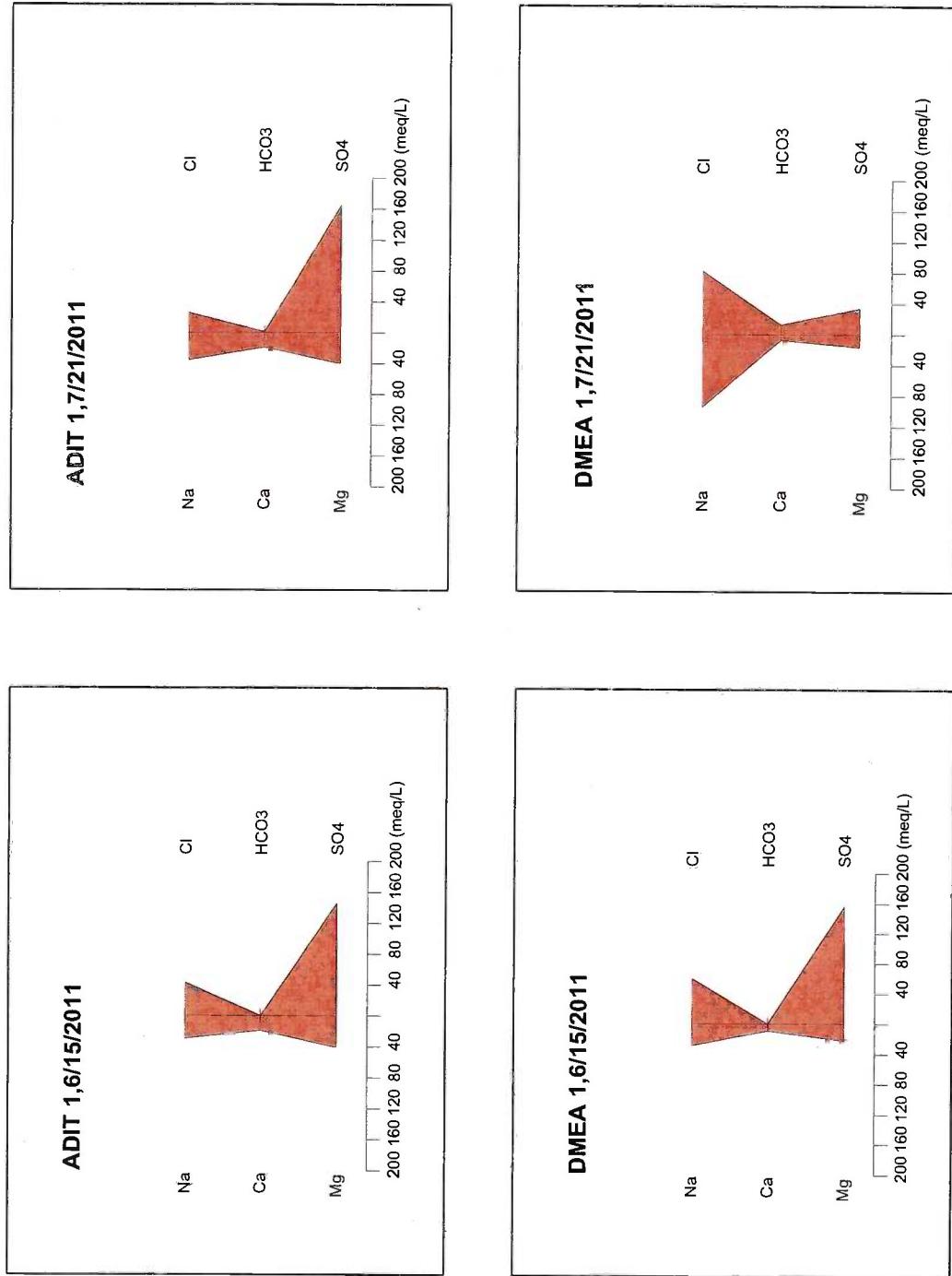
MT. DIABLO MERCURY MINE
CONTRA COSTA COUNTY, CALIFORNIA
(2004 AERIAL)

PROJECT NO. 01-SUN-050 DATE 5/19/10 DRAWN BY: JP PH

SGI THE Source Group, Inc.
environmental
3451-C VINCENT ROAD
PLEASANT HILL, CA 94523

FIGURE
4-3

Figure 4-4
Monitoring Well Stiff Diagram Comparison



TABLES

TABLES

Table 2-1
Production Statistics
Mount Diablo Mercury Mine
Contra Costa County, California

PRODUCTION STATISTICS- MOUNT DIABLO MINE "MILL WORKINGS"						
Operator	Date	Cubic Yards of Ore Milled	Waste rock from tunnels, crosscuts, raises, shafts and stopes (cubic yards)	Dewater volume (acre-feet)	Mercury Produced	Mercury flasks
Welch	1863	shaft and placer	NA	none	NA	NA
Unknown	1875-1877	NA	NA	NA	1000	
Mt. Diablo Quicksilver MC, operator Ericson	1930-1936	NA	NA	NA	NA	739
leased to Bradley MC	1936-1951	78,188 ⁽¹⁾	24,815 ⁽²⁾	161 ⁽³⁾	10,455	
leased Ronnie B. Smith	Sept 1951- June 1953	920 ⁽⁴⁾	NA	NA	NA	125 ⁽⁵⁾
DMEA and Smith	June 1953 - Jan 1954	none	630 ⁽⁶⁾	minor	none	
DMEA, Johnson and Jonas	Jan 1954 - Feb 1954	none	67 ⁽⁷⁾	NA	none	
leased to Cordero MC	Nov 1954 - Dec 1955	none	1,228 ⁽⁸⁾	19.5 ⁽⁹⁾	none	
leased to Nevada Scheelite Corp.	1956	none	see note ⁽¹⁰⁾	see note ⁽¹⁰⁾	none	
Total Cubic Yards of Material Taken Out			105,848 ⁽¹¹⁾			

Notes:

- (1) Table 4, Ross 1958, reported 126,664 tons of ore milled. Converted here to cubic yards above based on conversion of 1.62 tons per cubic yard (cy)
- (2) Total length of workings 4,570 ft (Pampayan 1963, p 25) x 5 feet x 7 feet x bulk factor plus 20% = 7,108 cy less (2) and (3). Included 550 ft of shafts and raises (935 cy) and stopes of 19,000 cy (Pampayan, Plate 5).
- (3) Estimate 10 gpm for 10 years.
- (4) Used the ratio of ore milled to flasks produced for Bradley to estimate the amount of ore milled by Smith. ref doc no. 2-88/384
- (5) DMEA internal memo dated 2/4/57
- (6) 300-ft DMEA shaft 4.5 ft x 8.5 ft (Ross 1958) plus 77 ft of tunnel at 5 ft x 7 ft on the 360 level w/ bulk factor of 20%
- (7) 43 ft of tunnel on the 360 level x 5 feet x 7 feet x bulk factor of 20%.
- (8) 790 ft of crosscuts and drifts on the 350 level (Pampayan, and Sheahan 1957) x 5 feet x 7 feet w/ bulk factor of 20%.
- (9) Best guess; 90 gpm for 27 days to dewater the mine (ref: DMEA payment records to Smith for same) and 200 days at 10 gpm.
- (10) In 1956 the Nevada Scheelite Company leased the mine and installed a deep-well pump to remove water which had risen to a point 112 feet below the collar of the shaft. Since the downstream ranchers objected to the discharge of acid mine water into the creek this work was suspended. Attention was then directed to the open pit where some exploration was done using wagon drills. A small tonnage of retort-grade ore was developed. Since this was not sufficient to satisfy the requirements of the company the lease was relinquished (Division of Mines, 1958).
- (11) Sum of Ore Milled and Waste Rock

Table 2-2
Summary of 1995 Mercury Data Collected by Slotton
 Mount Diablo Mercury Mine
 Contra Costa County, California

Site	Flow (cfs)	Aqueous Total Mercury		Suspended Solids	
		Raw ($\mu\text{g}/\text{L}$)	Filtered ($\mu\text{g}/\text{L}$)	All (TSS) (mg/L)	Solids Hg (dry ppm)
Upper Dunn Creek	5.20	0.0036	0.00273	1.50	0.60
Upper Horse Creek	0.08	0.0255	0.016	1.10	8.64
"My" Creek	2.10	0.381	0.0284	10.90	32.41
OreHouse Spring	0.01	1.94	0.071	11.40	164.00
Trickle coming from tailings	0.03	58.4	54.1	77.20	56.37
South Pond outlet	0.05	59.1	59.1	26.10	0.00
Horse Creek at tailings	0.32	25	21.9	104.00	29.80
Dunn Creek below mine confluence	7.80	0.949	0.226	13.50	53.60

Notes:

Data from study and report by Slotonin et.al. (2006).

cfs = cubic feet per second.

$\mu\text{g}/\text{L}$ = micrograms per liter.

mg/L = milligrams per liter.

ppm = parts per million.

Table 3-1
2010/2011 Surface Water Sample Location Key
 Mount Diablo Mercury Mine
 Contra Costa County, California

Samples	Type	Location Description
SW-01	Precipitation Runoff	Precipitation runoff from Bradley tailings/waste rock piles
SW-02	Precipitation Runoff	Precipitation runoff from Bradley tailings/waste rock piles
SW-03	Precipitation Runoff	Precipitation runoff from Bradley tailings/waste rock piles
SW-04	Spring	Park Spring
SW-05	Surface Flow	Overland flow between Adit Spring and Lower Pond
SW-06	Surface Flow	Upper Pond
SW-07	Surface Flow	Dunn Creek downstream of Site (Point of Compliance Sampling Location)
SW-08	Surface Flow	Dunn Creek upstream of ponds, downstream of confluence with My Creek
SW-09	Surface Flow	Lower Pond
SW-10	Surface Flow	Middle Pond
SW-11	Surface Flow	My Creek adjacent to the Northern Waste Rock Area
SW-12	Surface Flow	Watershed runoff in My Creek upgradient of the Site (Background)
SW-13	Surface Flow	My Creek downstream of the Northern Waste Rock Area
SW-14	Spring	Ore House Spring
SW-15	Spring	Adit Spring (water effluent point from Bradley workings)
SW-16	Surface Flow	Watershed runoff in Dunn Creek upgradient of the Site (Background)

Table 3-2
Summary of Chemical Analyses Results
2010/2011 Surface Water Sampling
Mount Diablo Marcus Mine
Contra Costa County, California

Parameter	Unit	Date	Water Quality Criteria ^a												Sample Location																						
			Background				Springs				My Creek Runoff				Ponds				Surface Water Runoff				Downstream														
			Human Health for Consumption of Water + Organism Only		My Creek		Dun Creek		Park		One House		Adult		Pond		Upper		Lower		Middle		Bradley Tailings Piles		Adt Spring		SW-05		SW-07								
Mercury_Initial(ng)	ng/L	4/12/2010	0.91	0.05	0.051	--	<0.20	<0.20	1.3	1.07	<0.20	<0.20	<0.20	<0.20	22.4	88	0.21	--	179	74	7.9	7.4	--	66.3	0.64	--	41.6	<0.20	41.6	<0.20							
Mercury_Dissolved(ng)	ng/L	5/17/2010	0.77	0.05	0.051	--	<0.20	<0.20	0.63	0.36	8.8	<0.20	<0.20	<0.20	<0.20	3.0	149	--	<0.20	9.5	6.6	5.5	--	49.3	0.57	--	34.5	<0.20	49.3	<0.20							
Methyl_Mercury	ng/L	5/27/2010	3 ^b	0.3 mg/kg	0.3 mg/kg	(fish tissue)	0.104	0.0706	--	1.16	4.86	0.504	--	0.20	<0.20	12.6	85.3	0.42	<0.20	175	35	9.4	9.4	--	39.7	<0.20	--	35.4	<0.20	35.4	<0.20						
pH	su	4/12/2010	6.5 - 9.0	5.0 - 9.0	--	--	<0.20	<0.20	0.31	<0.20	19.2	<0.20	<0.20	<0.20	<0.20	3.5	38.8	<0.20	--	143	--	5.4	--	5.4	--	5.0	--	5.0	--	5.0	--	5.0	--				
Alkalinity_Bicarbonate	mg/L	4/12/2010	--	--	--	--	0.13	0.11	0.62	4.1	5.7	1.3	0.35	0.96	0.56	4.48	1.70	--	0.233	0.057	7.26	2.04	--	1.47	--	1.47	--	1.47	--	1.47	--						
Alkalinity_Carbonate(CO3)	mg/L	5/27/2010	--	--	--	--	223	139	--	--	--	227	--	--	--	169	<5.0	<5.0	<5.0	11.9	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0			
Alkalinity_Totals CaCO3	mg/L	4/12/2010	--	--	--	--	216	932	--	--	--	220	--	--	--	216	54.0	<5.0	<5.0	82.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0			
Fluoride	mg/L	5/27/2010	20	--	--	--	854	182	1,040	120	<5.0	848	247	218	<5.0	212	5.13	6.33	--	7.71	5.11	3.87	3.04	7.04	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--			
Dissolved_Organic_Carbon	mg/L	4/12/2010	--	--	--	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	12	<5.0	<5.0	<5.0	212	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Specific_Conductivity	µmhos/cm	4/12/2010	--	--	--	--	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.12	<0.10	<0.10	<0.10	1.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Specific_Conductivity	µmhos/cm	5/27/2010	--	--	--	--	854	182	1,040	120	<5.0	848	247	218	<5.0	212	5.13	6.33	--	7.71	5.11	3.87	3.04	7.04	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	
Specific_Conductivity	µmhos/cm	10/20/2010	--	--	--	--	216	56.9	56.0	220	54.0	216	54.0	216	<5.0	212	5.13	6.33	--	7.71	5.11	3.87	3.04	7.04	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	
Specific_Conductivity	µmhos/cm	2/17/2011	--	--	--	--	854	182	1,040	120	<5.0	848	247	218	<5.0	212	5.13	6.33	--	7.71	5.11	3.87	3.04	7.04	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	
Specific_Conductivity	µmhos/cm	6/14/2011	--	--	--	--	223	139	--	--	--	227	--	--	--	229	169	<5.0	<5.0	248	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Specific_Conductivity	µmhos/cm	10/20/2010	--	--	--	--	216	56.9	56.0	220	54.0	216	54.0	216	<5.0	212	5.13	6.33	--	7.71	5.11	3.87	3.04	7.04	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	
Specific_Conductivity	µmhos/cm	2/17/2011	--	--	--	--	854	182	1,040	120	<5.0	848	247	218	<5.0	212	5.13	6.33	--	7.71	5.11	3.87	3.04	7.04	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	
Specific_Conductivity	µmhos/cm	6/14/2011	--	--	--	--	223	139	--	--	--	227	--	--	--	233	169	<5.0	<5.0	248	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Specific_Conductivity	µmhos/cm	10/20/2010	--	--	--	--	216	56.9	56.0	220	54.0	216	54.0	216	<5.0	212	5.13	6.33	--	7.71	5.11	3.87	3.04	7.04	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	
Specific_Conductivity	µmhos/cm	2/17/2011	--	--	--	--	854	182	1,040	120	<5.0	848	247	218	<5.0	212	5.13	6.33	--	7.71	5.11	3.87	3.04	7.04	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	
Specific_Conductivity	µmhos/cm	6/14/2011	--	--	--	--	223	139	--	--	--	227	--	--	--	233	169	<5.0	<5.0	248	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Specific_Conductivity	µmhos/cm	10/20/2010	--	--	--	--	216	56.9	56.0	220	54.0	216	54.0	216	<5.0	212	5.13	6.33	--	7.71	5.11	3.87	3.04	7.04	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	
Specific_Conductivity	µmhos/cm	2/17/2011	--	--	--	--	854	182	1,040	120	<5.0	848	247	218	<5.0	212	5.13	6.33	--	7.71	5.11	3.87	3.04	7.04	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	
Specific_Conductivity	µmhos/cm	6/14/2011	--	--	--	--	223	139	--	--	--	227	--	--	--	233	169	<5.0	<5.0	248	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Specific_Conductivity	µmhos/cm	10/20/2010	--	--	--	--	216	56.9	56.0	220	54.0	216	54.0	216	<5.0	212	5.13	6.33	--	7.71	5.11	3.87	3.04	7.04	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	
Specific_Conductivity	µmhos/cm	2/17/2011	--	--	--	--	854	182	1,040	120	<5.0	848	247	218	<5.0	212	5.13	6.33	--	7.71	5.11	3.87	3.04	7.04	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	
Specific_Conductivity	µmhos/cm	6/14/2011	--	--	--	--	223	139	--	--	--	227	--	--	--	233	169	<5.0	<5.0	248	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Specific_Conductivity	µmhos/cm	10/20/2010	--	--	--	--	216	56.9	56.0	220	54.0	216	54.0	216	<5.0	212	5.13	6.33	--	7.71	5.11	3.87	3.04	7.04	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	
Specific_Conductivity	µmhos/cm	2/17/2011	--	--	--	--	854	182	1,040	120	<5.0	848	247	218	<5.0	212	5.13	6.33	--	7.71	5.11	3.87	3.04	7.04	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	
Specific_Conductivity	µmhos/cm	6/14/2011	--	--	--	--	223	139	--	--	--	227	--	--	--	233	169	<5.0	<5.0	248	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Specific_Conductivity	µmhos/cm	10/20/2010	--	--	--	--	216	56.9	56.0	220	54.0	216	54.0	216	<5.0	212	5.13	6.33	--	7.71	5.11	3.87	3.04	7.04	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	
Specific_Conductivity	µmhos/cm	2/17/2011	--	--	--	--	854	182	1,040	120	<5.0	848	247	218	<5.0	212	5.13	6.33	--	7.71	5.11	3.87	3.04	7.04	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	7.57	--	
Specific_Conductivity	µmhos/cm	6/14/2011	--	--	--	--	223	139	--	--	--	227	--	--	--	233	169	<5.0	<5.0	248	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Specific_Conductivity	µmhos/cm	10/20/2010	--	--	--	--	216	56.9	56.0	220	54.0	216	54.0	216	<5.0	212	5.13	6.33	--	7.71	5.11	3.87	3.04	7.04	7												

Table 3-2
Summary of Chemical Analyses Results
2010/2011 Surface Water Sampling
Mount Diablo Mercury Mine
Contra Costa County, California

Parameter	Unit	Date	Water Quality Criteria*												Sample Location								Downstream Dunn Creek SM-07		
			Background				Springs				My Creek Runoff				Ponds		Surface Water Runoff								
			My Creek		Dunn Creek	Park	Ore House	Adit	Pond	Weir	SW-08	SW-13	SW-06	SW-09	Upper	Lower	Middle	Bradley Tailings Pits	Adit Spring	SW-05					
Solids, Total Dissolved (TDS)	mg/L	4/12/2010	250	--	--	261	190	276	9,310	273	301	199	242	6,720	267	224	4,450	16,000	6,790	210	465	9,980	14,700		
		5/27/2010	--	--	--	261	173	4,990	292	374	267	205	611	6,630	200	7,800	447	3,060	--	--	--	--	11,900	14,700	
Turbidity	NTU	4/12/2010	--	--	281	238	10,900	343	8,170	293	356	319	1,970	7,880	945	--	270	111	1,070	28,500	12,100	1,730	250	1,590	12,100
		5/27/2010	--	--	--	1.5	46	--	5.6	2,650	2,77	3.0	27	190	14	125	13	7.7	84	--	--	--	298	13	
Hardness, Total as CaCO ₃	mg/L	4/12/2010	--	--	1.9	1.6	5.2	7.2	97.5	6.1	5.6	293	94.8	186	6.9	6.4	32	--	--	--	--	--	204	24	
		5/27/2010	--	--	--	223	153	3,820	141	3,230	231	240	185	1,140	3,240	151	103	1,170	2,010	2,770	106	1,140	2,770		
Silica, Dissolved (SiO ₂)	mg/L	4/12/2010	--	--	237	191	2,820	199	2,860	230	3,870	231	155	2,240	3,010	3,650	290	290	1,000	--	--	--	3,620	281	
		5/27/2010	--	--	--	16.7	17.4	--	24.8	--	--	16.7	16.5	14.2	52	56.3	52	35.3	17	8.8	64	79.8	75.2		
Chloride (Cl)	mg/L	4/12/2010	--	--	19.9	106	25.9	35.1	45.8	16.8	16.1	153	40.7	41.7	19.5	173	173	51.3	51.8	113	12.7	25.7	16.4		
		5/27/2010	--	--	19.3	14.2	65.5	34.4	91.5	20.5	19.3	14.8	63.5	41.7	11.9	--	--	--	131	60.7	13.1	143	6,350		
Bromide (Br)	mg/L	4/12/2010	230	--	--	9.6	6.2	--	14.8	1,570	9.7	10.2	10.8	102	1,750	27.5	--	--	51.5	199	83.9	3,360	735		
		5/27/2010	--	--	9.7	4.5	1,100	116	41.1	9.4	10.5	6.1	35.5	1,480	26.40	1,980	--	333	--	--	--	--	2,770	20.7	
Nitrogen, Nitrate (NO ₃)	mg/L	4/12/2010	--	--	15.4	12.2	2,970	20.3	1,010	16.5	16.1	23.1	130	1,310	96	--	70.1	2	6.6	6.1	201	1,201	2,320		
		5/27/2010	--	--	--	4.7	<20	--	--	--	--	<20	<20	4.6	<20	<20	18.7	1,220	1,1	163	53.5	1,190	6,5		
Sulfate (SO ₄)	mg/L	4/12/2010	--	--	<10	10.5	--	4.1	4.3	--	<20	<20	<20	5.9	<20	<20	17.8	1,750	1,92	1,92	1,92	1,92	8.7		
		5/27/2010	--	--	<20	3.4	<20	9.9	<40	3.7	<20	<20	<20	5.0	<20	<20	5.0	1,480	21	<20	<20	<20	2,770		
Antimony (Sb)	ug/L	4/12/2010	5.6	640	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	61.5	35.4	10.1	19.3	11.0	<10		
		5/27/2010	--	--	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	62	10.4	--	21.9	--	<10		
Arsenic (As)	ug/L	4/12/2010	0.018	0.14	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	182	182	10	47.6	<10	<10		
		5/27/2010	--	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	164	164	<10	<10	<10	<10		
		10/20/2010	--	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	162	162	<10	<10	<10	<10		
		2/17/2011	--	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	19	19	<10	<10	<10	<10		
		6/14/2011	--	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	12.6	12.6	<10	<10	<10	<10		
		6/14/2011	--	--	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	12.6	12.6	<10	<10	<10	<10		

Table 3-2
Summary of Chemical Analyses Results
2010/2011 Surface Water Sampling
Mount Diablo Mercury Mine
Contra Costa County, California

Parameter	Water Quality Criteria ^a												Sample Location														
	Background				Springs				My Creek Runoff				Ponds				Surface Water Runoff				Downstream						
	My Creek		Dunn Creek		Park		One House		Pond		Weir		Upper		Lower		Middle		Bradley Tailings Piles		Adit Spring		Dunn Creek				
Beryllium (Be)	μg/L	4/12/2010	-	-	-	-	-	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0		
Boron (B)	μg/L	5/27/2010	-	-	-	-	-	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0		
Cadmium (Cd)	μg/L	4/12/2010	0.25	-	-	-	-	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		
Calcium (Ca)	μg/L	5/27/2010	-	-	-	-	-	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		
Chromium (Cr)	μg/L	4/12/2010	-	-	-	-	-	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		
Copper (Cu)	μg/L	4/12/2010	-	-	-	-	-	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0		
Iron (Fe)	μg/L	4/12/2010	1000	-	-	-	-	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0		
Lead (Pb)	μg/L	5/27/2010	2.5	-	-	-	-	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0		
Magnesium (Mg)	μg/L	4/12/2010	-	-	-	-	-	-	25.700	13.900	20.400	567,000	26,100	28,200	19,800	195,000	482,000	34,000	24,500	13,700	205,000	414,000	400,000	12,300	36,700	110,000	
Manganese (Mn)	μg/L	5/27/2010	-	-	-	-	-	-	25.600	15,000	23,900	715,000	25,700	28,500	27,100	22,800	59,900	377,300	56,700	42,000	24,000	32,500	76,500	58,900	11,000	78,200	10,000
Silver (Ag)	μg/L	4/12/2010	-	-	-	-	-	-	<10	13.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Zinc (Zn)	μg/L	5/27/2010	-	-	-	-	-	-	27.600	11.000	20.000	565,000	27,700	31,600	27,000	22,800	59,900	377,300	56,700	42,000	24,000	32,500	76,500	58,900	11,000	78,200	10,000

Table 3-3
Monitoring Well Construction Details
Mount Diablo Mercury Mine
Contra Costa County, California

Well	Construction Date	Development Date	Survey Data ¹			Construction Details ²		
			Northing	Easting	Top of Casing Elevation	Total Depth	Screen Interval	Top of Filter Pack
DMEA-1	5/6/2011	5/24/2011	2153804.33	6164062.04	331.50	275	240-265	NA
ADIT-1	5/5/2011	5/24/2011	2153602.60	6164086.06	332.02	85	65-80	56

Notes:

Wells were constructed of 4 - inch schedule 40 (ADIT-1) or schedule 80 (DMEA-1) PVC.

1 Elevations are in feet above mean sea level (msl).

2 Depths in feet below ground surface (bgs).

Table 3-4
Summary of Chemical Analyses Results-Monitoring Well Sampling
Mt. Diablo Mercury Mine
Contra Costa County, California

		Well ID	Water Quality Criteria ^a			ADIT-1	DMEA-1		
			Freshwater	Human Health for Consumption of					
				Water + Organism	Organism Only				
Mercury_total (Hg)	ug/l	6/15/2011 7/21/2011	0.91	0.05	0.051	22.7 7.4	<0.20 <0.20		
Mercury_Dissolved (Hg)	ug/l	6/15/2011 7/21/2011	0.77	0.05	0.051	<0.20 <0.20	<0.20 <0.20		
Methyl Mercury	ng/l	6/15/2011 7/21/2011	3 ^b	0.3 mg/kg (fish tissue)	0.3 mg/kg (fish tissue)	0.35 0.70	<0.05 <0.05		
pH	su	6/15/2011 7/21/2011	6.5 - 9.0	5.0 - 9.0	--	5.47 6.19	4.63 6.74		
Alkalinity, Bicarbonate	mg/l	6/15/2011 7/21/2011	--	--	--	<5.0 64.0	<5.0 776		
Alkalinity, Carbonate (CO3)	mg/l	6/15/2011 7/21/2011	--	--	--	<5.0 <5.0	<5.0 <5.0		
Alkalinity, Total as CaCO3	mg/l	6/15/2011 7/21/2011	20	--	--	<5.0 64.0	<5.0 776		
Fluoride	mg/l	6/15/2011 7/21/2011	--	--	--	1.4 0.76	0.81 0.76		
Dissolved Organic Carbon	mg/l	6/15/2011 7/21/2011	--	--	--	2.8 2.4	1.4 1.4		
Specific Conductivity	umhos/cm	6/15/2011 7/21/2011	--	--	--	11,600 13,500	13,500 13,600		
Solids, Total Dissolved (TDS)	mg/l	6/15/2011 7/21/2011	250	--	--	12,600 12,700	9,960 8,320		
Turbidity	NTU	6/15/2011 7/21/2011	--	--	--	108 95.5	36.4 76.5		
Hardness, Total as CaCO3	mg/l	6/15/2011 7/21/2011	--	--	--	3,000 2,950	1,550 1,930		
Silica, Dissolved (SiO2)	mg/l	6/15/2011 7/21/2011	--	--	--	237 13.0	11 39.1		
Chloride (Cl)	mg/l	6/15/2011 7/21/2011	230	--	--	1,530 912	2,130 2,920		
Bromide (Br)	mg/l	6/15/2011 7/21/2011	--	--	--	2.4 3.3	7.5 10		
Nitrogen, Nitrate (NO3)	mg/l	6/15/2011 7/21/2011	--	10	--	<0.50 <0.50	<0.50 <0.50		
Sulfate (SO4)	mg/l	6/15/2011 7/21/2011	--	--	--	6,990 7,920	7,490 1,620		
Antimony (Sb)	ug/l	6/15/2011 7/21/2011	--	5.6	640	206 <30	<12 <18		
Arsenic (As)	ug/l	6/15/2011 7/21/2011	150	0.018	0.14	1,720 1,440	1,570 416		
Dissolved Arsenic (As)	ug/l	6/15/2011 7/21/2011	150	0.018	0.14	457 312	387 29.2		
Beryllium (Be)	ug/l	6/15/2011 7/21/2011	--	--	--	<25 <25	<10 <15		
Boron (B)	ug/l	6/15/2011 7/21/2011	--	--	--	89,000 99,200	143,000 169,000		
Cadmium (Cd)	ug/l	6/15/2011 7/21/2011	0.25	--	--	<40 <10	<100 33.7		

Table 3-4
Summary of Chemical Analyses Results-Monitoring Well Sampling
 Mt. Diablo Mercury Mine
 Contra Costa County, California

	Well ID		Water Quality Criteria ^a			ADIT-1	DMEA-1		
			Freshwater	Human Health for Consumption of					
				Water + Organism	Organism Only				
Calcium (Ca)	ug/l	6/15/2011 7/21/2011	--	--	--	385,000 380,000	180,000 141,000		
Chromium (Cr)	ug/l	6/15/2011 7/21/2011	74	--	--	619 139	611 149		
Copper (Cu)	ug/l	6/15/2011 7/21/2011	--	1300	--	<50 <100 <100	<100 <30		
Iron (Fe)	ug/l	6/15/2011 7/21/2011	1000	--	--	2,000,000 1,780,000	1,990,000 265,000		
Lead (Pb)	ug/l	6/15/2011 7/21/2011	2.5	--	--	<50 <50	40.7 30.4		
Magnesium (Mg)	ug/l	6/15/2011 7/21/2011	--	--	--	496,000 487,000	267,000 196,000		
Manganese (Mn)	ug/l	6/15/2011 7/21/2011	--	--	100	17,000 15,700	18,200 2,940		
Nickel (Ni)	ug/l	6/15/2011 7/21/2011	52	610	4600	33,000 23,600	31,300 9,640		
Potassium (K)	ug/l	6/15/2011 7/21/2011	--	--	--	<50,000 50,800	44,300 89,200		
Selenium (Se)	ug/l	6/15/2011 7/21/2011	5.0	170	4200	<50 <50	<100 <30		
Silicon (Si)	ug/l	6/15/2011 7/21/2011	--	--	--	5,690 6,100	5,150 6,090		
Silver (Ag)	ug/l	6/15/2011 7/21/2011	--	--	--	<100 <130	<250 <15		
Sodium (Na)	ug/l	6/15/2011 7/21/2011	--	--	--	677,000 814,000	662,000 2,170,000		
Thallium (Tl)	ug/l	6/15/2011 7/21/2011	--	0.24	0.47	<50 <50	<20 <30		
Zinc (Zn)	ug/l	6/15/2011 7/21/2011	120	7400	26000	680 447	1430 303		

Notes:

^a Values represent the lesser of the water quality criteria available from CRWQCB (2008b) and USEPA (2009).

b Value from CRWQCB – San Francisco Bay water quality criteria for methyl mercury in freshwater (CRWQCB, 2008a).

Values were not available from CRWQCB (2008b) and USEPA (2009).

µg/L = microgram per liter.

µmho/cm = micromhos per centimeter.

su = standard units

NTU = nephelometric turbidity unit.

ng/L = nanogram per liter.

mg/L = milligram per liter.

References:

CRWQCB. 2008a. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater. Interim Final. May.

CRWQCB. 2008b. Central Valley Regional Water Quality Control Board, A Compilation of Water Quality Goals. July.

USEPA. 2009. National Recommended Water Quality Criteria. Office of Water. Office of Science and Technology.

APPENDIX A

APPENDIX A

LABORATORY ANALYTICAL REPORTS

(PROVIDED IN ELECTRONIC FORMAT)

ADDITIONAL CHARACTERIZATION REPORT

Mount Diablo Mercury Mine
2430 Morgan Territory Road
Contra Costa County, California

December 7, 2011



APPENDIX B

APPENDIX B

BORING/WELL LOGS



**THE
SOURCE GROUP, INC.**

BORING/WELL ID:

ADIT-1

PROJECT NAME AND ADDRESS:	Mt. Diablo Mine, 2430 Morgan Territory Road, Clayton, CA			Project No.: 01-SUN-055
BORING LOCATION (AT SITE):				Logged By: Kristene Tidwell
CONTRACTOR AND EQUIPMENT:	Boart Longyear			
SAMPLING METHOD:	Core Barrel	MONITORING DEVICE:	N/A	
START DATE:	5/5/11	FINISH DATE:	5/6/11	
FIRST WATER (BGS):	65'	STABILIZED WATER LEVEL:	65'	
SURFACE ELEVATION:		CASING TOP ELEVATION:		
TOTAL BORING DEPTH(S):	85'	BORING DIAMETER/DEPTH:	8" - 85'	

Time	Water Level	Sample Interval	Recovery (%)	Depth (feet)	LITHOLOGIC DESCRIPTION		Well construction details
					(classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED		
				0	Weathered muddy sand, grey with red mottling. Mixture of sand, silt, gravel, clay; dry.		
			100	2			
			100	4			
			100	6			
			100	8	Color change to dark grey.		
			100	10			
			100	12			
			100	14			
			100	16	Dark grey, mudstone mixd with large chunks of silica carbonate.		
			100	18			
			100	20	Grey mudstone with pieces of silica carbonate.		
			100	22			
			100	24			
			100	26	No silica carbonate.		
			100	28			
			100	30			
			100	32			
			100	34			
			100	36	Weathered serpeninite, light grey in fine powder matrix.		
			100	38			
				40			

Cement



**THE
SOURCE GROUP, INC.**

BORING/WELL ID:

ADIT-1

PROJECT NAME AND ADDRESS:	Mt. Diablo Mine, 2430 Morgan Territory Road, Clayton, CA		Project No.: 01-SUN-055
BORING LOCATION (AT SITE):			Logged By: Kristene Tidwell
CONTRACTOR AND EQUIPMENT:	Boart Longyear		
SAMPLING METHOD:	Core Barrel	MONITORING DEVICE:	N/A
START DATE:	5/5/11	FINISH DATE:	5/6/11
FIRST WATER (BGS):	65'	STABILIZED WATER LEVEL:	65'
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	85'	BORING DIAMETER/DEPTH:	8" - 85'

Time	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED		Well construction details
				40		Grey mudstone		
			100	42				
			100	44				
			100	46				
			100	48				
			100	50				
			100	52		Some sheared pieces of serpeninite in mudstone matrix.		
			100	54		Harder mudstone, possibly sheared.		
			100	56				
			100	58				
			100	60				
			100	62				
			100	64				
			100	66				
			100	68				
			100	70		Rubble-muddy matrix with large cables composed of serpeninite, mudstone, coarse grained sand, large pieces of serpeninite with evidence of metacinnabar, wet.		
			100	72				
			100	74				
			100	76				
			100	78		Sebeninite rock, somewhat broken up with mud.		
				80				



**THE
SOURCE GROUP, INC.**

BORING/WELL ID:

ADIT-1

PROJECT NAME AND ADDRESS:	Mt. Diablo Mine, 2430 Morgan Territory Road, Clayton, CA		Project No.: 01-SUN-055
BORING LOCATION (AT SITE):			Logged By: Kristene Tidwell
CONTRACTOR AND EQUIPMENT:	Boart Longyear		
SAMPLING METHOD:	Core Barrel	MONITORING DEVICE:	N/A
START DATE:	5/5/11	FINISH DATE:	5/6/11
FIRST WATER (BGS):	65'	STABILIZED WATER LEVEL:	65'
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	85'	BORING DIAMETER/DEPTH:	8" - 85'

Time	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED		Well construction details
						Sepeninite rock, somewhat broken up with mud.		
			100	80				
			100	82				
			100	84				
				86				
				88				
				90				
				92				
				94				
				96				
				98				
				100				
				102				
				104				
				106				
				108				
				110				
				112				
				114				
				116				
				118				
				120				



**THE
SOURCE GROUP, INC.**

BORING/WELL ID:

DMEA-1

PROJECT NAME AND ADDRESS:	Mt. Diablo Mine, 2430 Morgan Territory Road, Clayton, CA			Project No.: 01-SUN-055
BORING LOCATION (AT SITE):				Logged By: Kristene Tidwell
CONTRACTOR AND EQUIPMENT:	Boart Longyear			
SAMPLING METHOD:	Core Barrel		MONITORING DEVICE:	N/A
START DATE/ TIME:	5/2/11 14:15		FINISH DATE/ TIME	5/5/11
FIRST WATER (BGS):				STABILIZED WATER LEVEL:
SURFACE ELEVATION:				CASING TOP ELEVATION:
TOTAL BORING DEPTH(S):	275'		BORING DIAMETER/DEPTH:	8" - 275'

Time	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
			100	0		Fill dirt from earthwork.	
			100	2		Sitstone with sand with gravel, (15,65,5,15), reddish brown, dry, low plasticity, low to moderate permeability, angular to subangular gravel, highly weathered mudstone. Lesser clay content, more sand (0,50,35,15).	
			100	4			
			100	6			
			100	8			
			100	10		Slight moisture increase in gravel (0,50,15,55), increase in gravel size to 2" diameter, subangular gravel pieces.	
			100	12			
			100	14		Color change to greenish grey, increase in clay and silt, decrease of gravel and sand (20,60,5,15).	
			100	16		Reddish brown mottling, decrease in gravel and increase in Clay (25,60,5,10), decrease in gravel size, subrounded.	
			100	18		Greenish gray mottling.	
			100	20			
			100	22		Decrease in gravel size.	
			100	24			
			100	26		Color change to grey, mudstone, no gravel (10,80,10,0), dry.	
			100	28			
			100	30			
			100	32			
			100	34			
			100	36			
			100	38			
				40			

Cement



**THE
SOURCE GROUP, INC.**

BORING/WELL ID:

DMEA-1

PROJECT NAME AND ADDRESS:	Mt. Diablo Mine, 2430 Morgan Territory Road, Clayton, CA		
BORING LOCATION (AT SITE):			
CONTRACTOR AND EQUIPMENT:	Boart Longyear		
SAMPLING METHOD:	Core Barrel	MONITORING DEVICE:	N/A
START DATE/ (TIME):	5/2/11 14:15	FINISH DATE/ TIME:	5/5/11
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	275'	BORING DIAMETER/DEPTH:	8" - 275'

Time	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
						Cement	
				40		Looser, less consolidated, dry, color change to greyish brown.	
			100	42			
			100	44			
			100	46			
			100	48			
			100	50			
			100	52		Slight increase in clay, color change to grey.	
			100	54			
			100	56			
			100	58		Increase in sand and gravel in thin layers with moisture.	
			100	60			
			100	62		Dry, no sand/gravel, decrease in clay content.	
			100	64		Dry, no sand, remains grey mudstone.	
			100	66			
			100	68			
			100	70			
			100	72			
			100	74			
			100	76			
			100	78			
				80			



**THE
SOURCE GROUP, INC.**

BORING/WELL ID:

DMEA-1

PROJECT NAME AND ADDRESS:	Mt. Diablo Mine, 2430 Morgan Territory Road, Clayton, CA		
BORING LOCATION (AT SITE):			
CONTRACTOR AND EQUIPMENT:	Boart Longyear		
SAMPLING METHOD:	Core Barrel	MONITORING DEVICE:	N/A
START DATE/ TIME:	5/2/11 14:15	FINISH DATE/ TIME:	5/5/11
FIRST WATER (BGS):		STABILIZED WATER LEVEL:	
SURFACE ELEVATION:		CASING TOP ELEVATION:	
TOTAL BORING DEPTH(S):	275'	BORING DIAMETER/DEPTH:	8" - 275'

Time	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
			0	80			
			0	82			
			0	84			
			100	85			
			100	88			
			100	90			
			100	92			
			100	94		Intermittent sandy/gravel zones from 93 - 98'. Interbedded with mudstone, moist.	
			100	96			
			100	98		Mudstone as before, grey.	
			100	100			
			100	102			
			100	104		Thin gravel layer, rounded to subrounded gravel up to 1mm, well sorted, appears dry.	
			100	106		Mudstone as before. More competent.	
			100	108			
			100	110			
			100	112			
			100	114			
			100	116			
			100	118			
				120			

Cement



**THE
SOURCE GROUP, INC.**

BORING/WELL ID:

DMEA-1

PROJECT NAME AND ADDRESS:	Mt. Diablo Mine, 2430 Morgan Territory Road, Clayton, CA			Project No.: 01-SUN-055
BORING LOCATION (AT SITE):				Logged By: Kristene Tidwell
CONTRACTOR AND EQUIPMENT:	Boart Longyear			
SAMPLING METHOD:	Core Barrel	MONITORING DEVICE:	N/A	
START DATE/ (TIME):	5/2/11 14:15	FINISH DATE/ TIME	5/5/11	
FIRST WATER (BGS):		STABILIZED WATER LEVEL:		
SURFACE ELEVATION:		CASING TOP ELEVATION:		
TOTAL BORING DEPTH(S):	275'	BORING DIAMETER/DEPTH:	8" - 275'	

Time	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED		Well construction details
						Mudstone as before.		
			100	120				
			100	122				
			100	124				
			100	126				
			100	128				
			100	130				
			100	132				
			100	134				
			100	136				
			100	138				
			100	140				
			100	142				
			100	144				
			100	146				
			100	148				
			100	150				
			100	152				
			100	154				
			100	156				
			100	158				
				160				

Cement



**THE
SOURCE GROUP, INC.**

BORING/WELL ID:

DMEA-1

PROJECT NAME AND ADDRESS:	Mt. Diablo Mine, 2430 Morgan Territory Road, Clayton, CA			Project No.: 01-SUN-055
BORING LOCATION (AT SITE):				Logged By: Kristene Tidwell
CONTRACTOR AND EQUIPMENT:	Boart Longyear			
SAMPLING METHOD:	Core Barrel	MONITORING DEVICE:	N/A	
START DATE/ (TIME):	5/2/11 14:15	FINISH DATE/ TIME	5/5/11	
FIRST WATER (BGS):		STABILIZED WATER LEVEL:		
SURFACE ELEVATION:		CASING TOP ELEVATION:		
TOTAL BORING DEPTH(S):	275'	BORING DIAMETER/DEPTH:	8" - 275'	

Time	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
				160		Mudstone as before.	
			100	162			
			100	164			
			100	166			
			100	170			
			100	170			
			100	172			
			100	174		Color change to brownish grey.	
			100	176			
			100	178			
			100	180		Color change to grey.	
			100	182			
			100	184			
			100	186			
			100	188			
			100	190		Transitional fault zone, pieces of silica carbonate, angular with muddy grey mudstone.	
			100	192		Silica carbonate, white/grey with green mineralization.	
			100	194			
			100	196		Same as above.	
			100	198			
				200			

Cement



**THE
SOURCE GROUP, INC.**

BORING/WELL ID:

DMEA-1

PROJECT NAME AND ADDRESS:	Mt. Diablo Mine, 2430 Morgan Territory Road, Clayton, CA			Project No.: 01-SUN-055
BORING LOCATION (AT SITE):				Logged By: Kristene Tidwell
CONTRACTOR AND EQUIPMENT:	Boart Longyear			
SAMPLING METHOD:	Core Barrel	MONITORING DEVICE:	N/A	
START DATE/ TIME:	5/2/11 14:15	FINISH DATE/ TIME	5/5/11	
FIRST WATER (BGS):				STABILIZED WATER LEVEL:
SURFACE ELEVATION:				CASING TOP ELEVATION:
TOTAL BORING DEPTH(S):	275'	BORING DIAMETER/DEPTH:	8" - 275'	

Time	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
				200			
			100	200		Grey mudstone.	
			100	202			
			100	204			
			100	206			
			100	208			
			100	210			
			100	212			
			100	214			
			100	216			
			100	218			
			100	220			
			100	222			
			100	224			
			100	226			
			100	228		Medium to coarse sandstone.	
			100	230			
			100	232		Silica carbonate, same as 190', with mud stain at 233-240'.	
			100	234			
			100	236			
			100	238		Soft drilling at 240-244'.	
				240			



**THE
SOURCE GROUP, INC.**

BORING/WELL ID:

DMEA-1

PROJECT NAME AND ADDRESS:	Mt. Diablo Mine, 2430 Morgan Territory Road, Clayton, CA			Project No.: 01-SUN-055
BORING LOCATION (AT SITE):				Logged By: Kristene Tidwell
CONTRACTOR AND EQUIPMENT:	Boart Longyear			
SAMPLING METHOD:	Core Barrel	MONITORING DEVICE:	N/A	
START DATE/ TIME:	5/2/11 14:15	FINISH DATE/ TIME	5/5/11	
FIRST WATER (BGS):				STABILIZED WATER LEVEL:
SURFACE ELEVATION:				CASING TOP ELEVATION:
TOTAL BORING DEPTH(S):	275'	BORING DIAMETER/DEPTH:	8" - 275'	

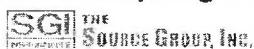
Time	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) ALL PERCENTAGES ARE APPROXIMATE UNLESS OTHERWISE STATED	Well construction details
14:30			100	240		Dark grey, very weak at 240-246'.	
			0	242		Lost all circulation at 243'.	
			0	244			
			0	246		247-266' total 9' recovery. Grey mud, sand gravel poorly sorted, appears very disturbed, perhaps cave in.	
			0	248			
			0	250		Gravel pieces and cobbles, rounded to angular, consisting of mudstone and some silica carbonate.	
			0	252			
			0	254			
			0	256			
			0	258			
			0	260			
			0	262			
			0	264			
			100	266		Fractured silica carbonate, hard.	
			100	268			
			100	270			
			100	272		Less fractured.	
			100	274			
				276			
				278			
				280			
						Bottom of Boring 275 feet	

APPENDIX C

APPENDIX C

FIELD DATA SHEETS

Groundwater Monitoring Well Field Sampling Form



PROJECT NAME: _____

PROJECT NO.: _____

TASK NO.: _____

WELL ID: ADIT - 1

PURGE DATE: 07-7-2016

SAMPLE TIME: 12:15

SAMPLE DATE: 7/20/16

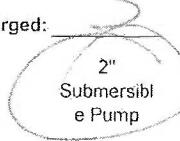
PERSONNEL: Derrick Kainz Kristene Tilman

PURGE LOG: _____ (circle) (check units!)

DTW	Time (24 hr)	No. Gallons	pH	EC (µS/cm)	Temp. (C)	Disolved Oxygen (mg/l)	REDOX (-)	Color	Turbidity	Other Observations
1203	0	5.45	11578	24.15	0.29	-12.3	clr	92.1		
1205	1	5.16	1403	23.90	0.81	-11.8	clr	34.8		
1209	2	5.14	11645	23.91	0.99	-10.4	clr	39.2		
1214	3	5.13	11058	23.93	0.98	-11.0	clr	40.8		

Total Gallons Purged: 3

Purging
Method



2"
Submersibl
e Pump

12 Volt
Pump

Peristaltic
Pump

Bailer

WELL SAMPLING:

DTW at Time of Sampling: 72.65

Sampling
Method

2"
Submersibl
e Pump

12 Volt
Pump

Peristaltic
Pump

Bailer

SAMPLE ID: ADIT - 1

QA/QC SAMPLING:

WAS QA/QC SAMPLE COLLECTED AFTER THIS WELL?

YES / NO

IF SO, SAMPLE ID: _____

TYPE: Rinsate Blank

Duplicate Field Blank

PROPER DECON: Yes No

EQUIPMENT CALIBRATED: Yes No

DRIFT: Yes No

(If YES, comment below)

COMMENTS:

Transducer = 5.769
DTW-Meter = 72.65

GROUNDWATER MONITORING WELL
FIELD SAMPLING FORM

JOB NAME: MAP
 TSG JOB NO.: 01-SOM-055
 TASK NO.: 3
 PERSONNEL: K.T. durrell

WELL ID: MOT-1
 PURGE DATE: 6/15/11
 SAMPLE TIME: 1320
 SAMPLE DATE: 6/15/11

INITIAL DTW (ft) 71.12
 DEPTH TO BOTTOM (ft) 90.05
 WELL DIAM. (in)
 3 VOLUMES (gals)
 $\pi \cdot 30.064 (1.25^{\prime\prime}) \cdot 30 (6.25^{\prime\prime}) \cdot 30.26 (2.5^{\prime\prime}) \cdot 30.65 (4^{\prime\prime})$
 FINAL DTW (ft)

DTW	Time (24 hr)	No. Gallons	pH	EC (µ)	Temp (°)	EL (.)	OX Redox (.)	DO (.)	Turbidity (check unit(s))	Color	Other Observations
71.3	0	0	9.77	9294	27.20	23.7	6.15	728.0	clr		
71.7	0.5	4.25	9.75	9751	24.16	8.19	6.03	726.1	clr		
71.8	0.75	4.73	9.73	9751	24.17	8.1	6.05	726.0	clr		
72.0	1	4.75	9.79	9478	24.10	6.03	6.10	119.3	clr		
72.2	1.15	4.86	9.86	9476	24.11	6.04	6.11	117.7	clr		
72.3	1.25	4.87	9.87	9476	24.11						

Totalizer End 1.25
 Totalizer Start 0
 Total Gallons 1.25

Purging Method
Submersible Pump

Sampling Method
Submersible Pump

WAS QA/QC SAMPLE COLLECTED AFTER THIS WELL?

IF SO:

Sample ID _____
 Type _____
 Rinsate Blank
 Duplicate
 Field Blank

COMMENTS _____

GROUNDWATER MONITORING WELL
FIELD SAMPLING FORM

JOB NAME: M.A.D
 TSG JOB NO.: 0-5445-555
 TASK NO.: 3
 PERSONNEL: P.L. Goss

WELL ID: WELL A-1
 PURGE DATE: 4/15/11
 SAMPLE TIME: _____
 SAMPLE DATE: _____

INITIAL DTW (ft) 98.12
 DEPTH TO BOTTOM (ft) 84.71
 WELL DIAM. (in) 4"
 3 VOLUMES (gals) 14.166 Gallons
 ft³ to gals (1.25) 17.5015 (27.5000)
 FINAL DTW (ft) 98.10

DTW	Time (24 hr)	No. Gallons	pH	EC (µ)	Temp (°)	FL ()	OX Redox ()	DO ()	Turbidity	Color	Other Observations
12.1	0	0	7.5	1250	55	-	-	-	-	-	-
12.8	1	12.8	7.1	1250	55	-	-	-	-	-	-
12.3	2	12.3	7.0	1250	55	-	-	-	-	-	-
12.3	3	12.3	7.0	1250	55	-	-	-	-	-	-
12.8	4	12.8	7.0	1250	55	-	-	-	-	-	-
12.8	5	12.8	7.0	1250	55	-	-	-	-	-	-
12.8	6	12.8	7.0	1250	55	-	-	-	-	-	-
12.8	7	12.8	7.0	1250	55	-	-	-	-	-	-
12.8	8	12.8	7.0	1250	55	-	-	-	-	-	-
12.8	9	12.8	7.0	1250	55	-	-	-	-	-	-
12.8	10	12.8	7.0	1250	55	-	-	-	-	-	-
12.8	11	12.8	7.0	1250	55	-	-	-	-	-	-
12.8	12	12.8	7.0	1250	55	-	-	-	-	-	-
12.8	13	12.8	7.0	1250	55	-	-	-	-	-	-
12.8	14	12.8	7.0	1250	55	-	-	-	-	-	-
12.8	15	12.8	7.0	1250	55	-	-	-	-	-	-
12.8	16	12.8	7.0	1250	55	-	-	-	-	-	-
12.8	17	12.8	7.0	1250	55	-	-	-	-	-	-
12.8	18	12.8	7.0	1250	55	-	-	-	-	-	-

Totalizer End

Totalizer Start

Total Gallons

Purging
Method

2"
Submersible
Pump

12 Volt Pump; Peristaltic Pump
Baller

Sampling
Method

2"
Submersible
Pump

12 Volt Pump; Peristaltic Pump
Baller

WAS QA/QC SAMPLE COLLECTED AFTER THIS WELL?
IF SO:

Sample ID: 11-105

Type: Rinsate Blank

Duplicate

Field Blank

COMMENTS

Sampling

THE SOURCE GROUP, INC.

APPENDIX D

APPENDIX D
SURVEYORS REPORTS

Virgil Chavez Land Surveying

721 Tuolumne Street

Vallejo, California 94590

(707) 553-2476 • Fax (707) 553-8698

April 15, 2011

Project No.: 3096-03

Kristene Tidwell
The Source Group, Inc.
3451-C Vincent Road
Pleasant Hill, Ca 94523

Subject: Monitoring Well Survey
Former Morgan Territory Mine
2430 Morgan Territory Road
Clayton, CA



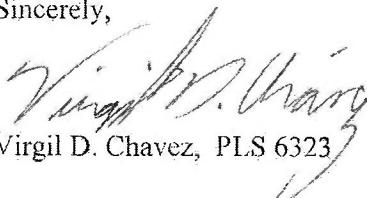
Dear Kristene:

This is to confirm that we have proceeded at your request to locate several points at the above referenced location. The survey was completed on April 7, 2011. The benchmark for this survey is known as PID AA3809, stamped PT 25 LS 5672 1990, located 0.15 Mi. southeast of the intersection of Marsh Creek Road and Morgan Territory Road. The latitude, longitude and coordinates are for top of casings and are based on the Calif. State Coordinate System, Zone III (NAD83). Benchmark Elev. = 781.00 feet (NAVD 88).

<u>Latitude</u>	<u>Longitude</u>	<u>Northing</u>	<u>Easting</u>	<u>Elev.</u>	<u>Desc.</u>
37.9011277	-121.8775226	2153508.40	6164223.50	---	ADIT2
37.9009353	-121.8768552	2153435.49	6164415.00	---	ADIT3
37.9019500	-121.8781100	2153810.28	6164058.44	900.22	DMEA2
37.9017800	-121.8779500	2153747.70	6164103.68	---	DMEA3
37.9017669	-121.8779376	2153742.87	6164107.19	875.72	6' O/S
37.9017153	-121.8790697	2153728.89	6163780.32	---	BLDG COR
37.9017675	-121.8790905	2153748.00	6163774.57	---	BLDG COR
37.9016821	-121.8792007	2153717.38	6163742.33	---	BLDG COR



Sincerely,


Virgil D. Chavez, PLS 6323

Virgil Chavez Land Surveying

721 Tuolumne Street

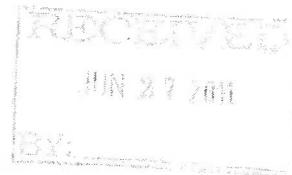
Vallejo, California 94590

(707) 553-2476 • Fax (707) 553-8698

June 21, 2011

Project No.: 3096-03

Kristene Tidwell
The Source Group, Inc.
3451-C Vincent Road
Pleasant Hill, Ca 94523



Subject: Monitoring Well Survey
Former Morgan Territory Mine
2430 Morgan Territory Road
Clayton, CA

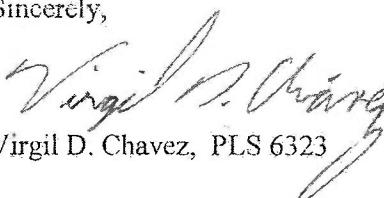
Dear Kristene:

This is to confirm that we have proceeded at your request to perform a survey at your request at the above referenced location. The survey was completed on June 14, 2011. The benchmark for this survey is known as PID AA3809, stamped PT 25 LS 5672 1990, located 0.15 Mi. southeast of the intersection of Marsh Creek Road and Morgan Territory Road. The latitude, longitude and coordinates are for top of casings and are based on the Calif. State Coordinate System, Zone III (NAD83). Benchmark Elev. = 781.00 feet (NAVD 88).

<u>Latitude</u>	<u>Longitude</u>	<u>Northing</u>	<u>Easting</u>	<u>Elev.</u>	<u>Desc.</u>
37.9013809	-121.8780037	2153602.60	6164086.06	872.75 875.70 900.57	GRD ADIT-1 TOC ADIT-1 GRD DMEA-1
37.9019338	-121.8780972	2153804.33	6164062.04	902.98	TOC DMEA-1



Sincerely,


Virgil D. Chavez, PLS 6323

APPENDIX E

APPENDIX E

WASTE MANIFESTS

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

DJ3759671

SC PPW 3/3/2011

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NON REQUIRED CAC022675268	2. Page 1 of <u>1</u>	3. Emergency Response Phone (800) 483-3713	4. Manifest Tracking Number 003990850 FLE			
5. Generator's Name and Mailing Address Former Mount Diablo Mercury Mine 2430 Morgan Territory Road City of Mt. CA 94517 (925) 944-2856		Generator's Site Address (if different than mailing address) SAME						
6. Transporter 1 Company Name Clean Harbors Environmental Services Inc		U.S. EPA ID Number MAD039322250						
7. Transporter 2 Company Name		U.S. EPA ID Number						
8. Designated Facility Name and Site Address Clean Harbors Buttonwillow LLC 2500 West Loker Road Buttonwillow, CA 93206		U.S. EPA ID Number CAD980675276						
Facility's Phone: (661) 762-6200								
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) 1. NON-RCRA HAZARDOUS WASTE, SOLID, (METALS)	10. Containers No. Type		11. Total Quantity	12. Unit Wt/Vol.	13. Waste Codes	
		01	CM	15Y		611		
14. Special Handling Instructions and Additional Information L1H5024PBE								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generators/Offeror's Printed/Typed Name Kristene Tidwell		Signature <i>Kristene Tidwell</i>		Month	Day	Year		
16. International Shipments <input checked="" type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit:						
Transporter signature (for exports only):								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Richard Blankenship		Signature <i>Richard Blankenship</i>		Month	Day	Year		
Transporter 2 Printed/Typed Name		Signature		Month	Day	Year		
TRANSPORTER	18. Discrepancy							
	18a. Discrepancy Indication Space		<input type="checkbox"/> Quantity	<input type="checkbox"/> Type	<input type="checkbox"/> Residue	<input type="checkbox"/> Partial Rejection	<input type="checkbox"/> Full Rejection	
	18b. Alternate Facility (or Generator)		Manifest Reference Number:					
	Facility's Phone:		U.S. EPA ID Number					
	18c. Signature of Alternate Facility (or Generator)		Month Day Year					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a								
Printed/Typed Name Ron E Johns		Signature <i>Ron E Johns</i>		Month	Day	Year		

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping