7.0 REFERENCES

ALERT Data System, 2003 and 2004. On-line Retrieval System of the Santa Clara Valey Water District. (<u>http://alert/valleywater.org</u>)

Alpers, C.N. and M.P. Hunerlach, 2000. Mercury Contamination from Historic Gold Mining in California. USGS Fact Sheet FS-061-00, 6 p.

Ashley, R. P., J. J. Rytuba, R. Rogers, B.B. Kotlyar, and D. Lawler, 2002. Preliminary Report on Geochemistry of Placer Gold Dredge Tailings, Sediments, Bedrock, and Waters in the Clear Creek Restoration Area, Shasta County, California. USGS Open-File Report 02-401, 46 p.

Bailey, E.H. and D.L. Everhart, 1964. Geology and Quicksilver Deposits of the New Almaden District, Santa Clara County, California. US Geological Survey Professional Paper 360.

Benoit, J.M., C.C. Gilmour, and R.P. Mason, 2001. The influence of sulfide on solid phase mercury bioavailability for methylation by pure cultures of *Desulfobulbus propionicus* (1pr3). Environmental Science & Technology 35:127-132.

Benoit, J.M., C.C. Gilmour, R.P, Mason, and A.P. Heyes, 1999. Sulfide control on mercury specification and bioavailability to methylating bacteria in sediment porewaters. Environmental Science & Technology 33:951-957.

Bhattacharyya, Gouri and Richard Johnson. 1977. Statistical Concepts and Methods. John Wiley & Sons, New York, 639 pages.

Bloom, N.S., G.A. Gill, S. Cappellino, 1999. Speciation and cycling of mercury in Lavaca Bay, Texas. Sediments. Environmental Science & Technology 33:7-13.

Bloom, NS, E Preus, J Katon, and M Hittner, 2003. Selective extractions to assess the biogeochemically relevant fractionation of inorganic mercury in sediment and soils. Analytica Clinica Acta 479 (233-278).

Camp, Dresser, and McKee (CDM), 1992. Final Report: Risk Assessment. Almaden Quicksilver County Park. Volume I – Text. Prepared for the Santa Clara County Parks and Recreation Department. Los Gatos, CA.

City of San Jose (Parks, Recreation and Neighborhood Services), 2004. Almaden Lake Park brochure

Compeau, G.C. and R. Bartha, 1985. Sulfate-reducing bacteria: principle methylator of mercury in anoxic estuarine sediment. Applied and Environmental Microbiology, 50:498-502.

Cox, M., 2000. Mines and History of New Almaden Mining District. Santa Clara Basin Watershed Management Initiative, 2000. Guadalupe River Mercury TMDL Workgroup's Recommended Interim Sampling and Monitoring Plan Attachment A: Data from USGS MRDS Database Modified by M. Cox.

Dames and Moore, 1989. Environmental Mercury Assessment, Phase 3 Almaden Quicksilver County Park for the County of Santa Clara.

Department of Toxic Substances Control (DTSC), 2002. Five-year Review Hacienda Furnace Yard, Almaden-Quicksilver County Park, San Jose, California.

Domagalski, J., 2001. Mercury and methylmercury in water and sediment of the Sacramento River Basin, California. Applied Geochemistry 16: 1677-1691.

Domagalski, J., 1998. Occurrence and transport of total mercury and methyl mercury in the Sacramento River Basin, California. Journal of Geochemical Exploration 64: 277-291.

Ganguli, P.M., R.P. Mason, K.E. Abu-Saba, R.S. Anderson, and A.R. Flegal. 2000. Mercury speciation in drainage from the New Idria Mercury Mine, California. Environmental Science & Technology, vol. 34, no. 22, pp. 4773-4779.

Gilmour, C.C., D.P. Krabenhodt and W.O. Orem, 2003. Mesocosm Studies to Quantify How Methylmercury in the Everglades Responds to Changes in Mercury, Sulfur and Nutrient Loading: Aquatic Cycling of Mercury in the Everglades (ACME) Team Appendix 2B-3 in Everglades Consolidated Report, South Florida Water Management District, West Palm Beach, Florida.

Gilmour, C,C, and G.S. Riedel, 1995. Measurement of Hg Methylation in Sediments Using High Specific Activity ²⁰³Hg and Ambient Incubation. Water, Air, and Soil Pollution 80:747-756.

Golding, G.R., C.A. Kelly, R. Sparling, 2002. Evidence for facilitated uptake of Hg(II) by *Vibrio angullarum* and *Escherichia Coli* under anaerobic and aerobic conditions. Limnology and Oceanography 47:967-975.

Gorski, P. R., R. C. Lathrop, et al. 1999. Temporal mercury dynamics and diet composition in the mimic shiner. Transactions of the American Fisheries Society 128(4): 701-712.

Grigal, D.F., 2002. Inputs and outputs of mercury from terrestrial watersheds: A review. National Research Council of Canada, Environmental Reviews, Vol. 10, No. 1, pp. 1-39.

Heim, W.A., K. Coale, and M. Stephenson, 2002. Methyl and Total Mercury SPatial and Temporal Trends in Surficial Sediments of the San Francisco Bay-Delta (Part of the CALFED "Assessment of Ecological and Human Health Impacts of Mercury in the Bay-Delta Watershed" Report.

http://loer.tamug.edu.calfed/Report/Final/MLML%20Final%20Report%20Appendix %20B%20Raw%20sediment%20sampling%20data.pdf

Henry, E.A., et al. 1995. Total Mercury and Methylmercury Mass Balance in an Alkaline Hypereutrophic Urban Lake (Onondaga Lake, NY). Water, Air, and Soil Pollution 80:509-518.

Herrin, R. T., R. C. Lathrop, et al. 1998. Hypolimnetic methylmercury and its uptake by plankton during fall destratification: A key entry point of mercury into lake food chains? Limnology and Oceanography 43(7): 1476-1486.

Hines, M.E., M. Horvat, J. Faganeli, 2000. Mercury biogeochemistry in the Idrija River, Slovenia, from above the mine into the Gulf of Trieste. Environmental Research 83:129-139.

Hunerlach, M.P., J. J. Ryutuba, and C.N. Alpers, 1999. Mercury Contamination from Hydraulic Placer-Gold Mining in the Dutch Flat Mining District, California, USGS Water Resources Investigations Report 99-4018B, p. 179-189.

Kelly, C.A., J.W.M. Rudd, M.H. Holoka, 2003. Effect of pH on mercury uptake by an aquatic bacterium: Implications for Hg cycling. Environmental Science & Technology 37:2941-2946.

Kim, J. P. and S. Burggraaf. 1999. Mercury bioaccumulation in rainbow trout (Oncorhynchus mykiss) and the trout food web in Lakes Okareka, Okaro, Tarawera, Rotomahana and Rotorua, New Zealand. Water, Air and Soil Pollution 115(1-4): 535-546.

King, J.K., J.E. Kostka, M.E. Frischer, 2001. A quantitative relationship that demonstrates mercury methylation rates in marine sediments are based on the

community composition and activity of sulfate-reducing bacteria. Environmental Science & Technology 35:2491-2496.

Kinnetic Laboratories, 2002. Joint Stormwater Agency Project to Study Urban Sources of Mercury and PCBs and Organo-chlorine Pesticides. Kinnetic Laboratories, Santa Cruz, CA.

Krabbenhoft, D.P., J.G. Wiener, W.G. Brumbaugh, M.L. Olson, J.F. DeWild, and T.J. Sabin, 1999. A National Pilot Study of Mercury Contamination of Aquatic Ecosystems along Multiple Gradients. US Geological Survey Toxic Substances Hydrology Program – Proceedings of the Technical Meeting, Charleston, S. Carolina, March 8-12, 1999. Vol. 2, p. 147-160.

Kuwabara, J. S., B. R. Topping, G. E. Moon, P. Husby, A. Lincoff, J. L. Carter, and M-N. Croteau. 2005. Mercury accumulation by lower trophic-level organisms in lentic systems within the Guadalupe River Watershed, California. Scientific Investigations Report 2005-5037. U.S. Geological Survey, Menlo Park, CA. *http://pubs.water.usgs.gov/sir2005-5037*

Lean, D.R.S. and S.D. Siciliano, 2003. Production of methylmercury by solar radiation. Journal de Physique IV 107:743-747.

Marvin-DiPasquale, M., J. Agee, C. McGowan, R.S. Oremland, M. Thomas, D. Krabbenhoft, and C.C. Gilmour, 2000. Methylmercury degradation pathways: A comparison among three mercury-impacted ecosystems. Environmental Science and Technology, vol. 34, no. 23, pp. 4908-4916.

McKee, L., J. Leatherbarrow, R. Eads, and L. Freeman, 2004. Concentrations and Loads of PCBs, OC Pesticides, and Mercury Associated with Suspended Particles in the Lower Guadalupe River, San Jose, California. San Francisco Estuary Institute (SFEI) Richmond, CA.

McLaughlin, R.J., J.C. Clark, E.E. Brabb, E.J. Helley, and C.J. Colon, 2001, Geologic maps and structure sections of the southwestern Santa Clara Valley and southern Santa Cruz Mountains, Santa Clara and Santa Cruz Counties, California, Pamphlet to accompany USGS Miscellaneous Field Studies Map MF-2373, 13 p.

Moye, H. A., C. J. Miles, et al. 2002. Kinetics and uptake mechanisms for monomethylmercury between freshwater algae and water. Environmental Science & Technology 36(16): 3550-3555.

Moyle, P. B., 2002. Inland Fishes of California, University of California Press, Ltd.

National Research Council (NRC), 2001. Assessing the TMDL approach to water quality management. Report to the Committee to Assess the Scientific Basis of the

Total Maximum Daily Load Approach to Water Pollution Reduction. National Research Council. National Academy Press. Washington, D.C.

Paquette, K.E. and G.R. Helz, 1997. Inorganic speciation of mercury in sulfidic waters: The Importance of Zero-valent Sulfur. 31:2148-2153.

Ravichandran, M., G.R. Aiken, M.M. Reddy, and J.N. Ryan, 1998. Enhanced dissolution of cinnabar (mercuric sulfide) by dissolved organic matter isolated from the Florida Everglades. Environmental Science & Technology 32:3305-3311. RWQCB, 2003a. Memorandum of Understanding between the Santa Clara Valley Water Management District and the Regional Boards regarding development of a mercury TMDL for the Guadalupe River Watershed. Regional Board Meeting Date: March 19, 2003.

RWQCB, 2003b. Mercury in San Francisco Bay. Total Maximum Daily Load (TMDL) Project Report for the Guadalupe River Watershed. California Regional Water Quality Board, San Francisco Bay Region. June 6, 2003.

Rytuba, J.J. and D.A. Enderlin, 1999. Geology and Environmental Geochemistry of Mercury and Gold Deposits in the Northern Part of the California Coast Range Mercury Mineral Belt. In: Geologic Field Trips in Northern California. USGS Special Publication 119. Wagner, D.L. and S.A. Graham (editors). p. 214-234.

Rytuba, J.J., 2000. Mercury mine drainage and processes that control its environmental impact. The Science of the Total Environment 260:57-71.

Rytuba, J.J., 2005. Environmental Assessment of the Release of Mercury Mining from the New Idria Mercury District. Talk for California Department of Conservation California Abandoned Mine Lands Forum, Held in Sacramento, CA Feb 23, 2005.

Rytuba, J.J., D Enderlin, R. Ashley, R. Seal, and M.P. Hunerlach, 2000. Evolution of the McLaughlin Gold Mine Pit Lakes, California. Proceedings from the Fifth International Conference on Acid Rock Drainage May 21-24, 2000 Denver, CO. Volume 1 p 1-9.

Sellers, P., C. A. Kelly, et al. 2001. Fluxes of methylmercury to the water column of a drainage lake: The relative importance of internal and external sources. Limnology and Oceanography 46(3): 623-631.

Slotton, D. G., J. E. Reuter, et al. 1995. Mercury Uptake Patterns of Biota in a Seasonally Anoxic Northern California Reservoir. Water, Air, and Soil Pollution 80(1-4): 841-850.

Slotton, D.G., S.M. Ayers, T.H. Suchanek, R.D. Weyand, and A.M.Liston, 2003. Mercury Bioaccumulation and Trophic Transfer in the Cache Creek Watershed, California, in Relation to Diverse Aqueous Mercury Exposure Conditions – Data Appendix. University of California – Davis, Davis, CA.http://loer.tamug.edu.calfed/Report/Final/UCDavis_Cache_Bio_Appendix.pdf.

St. Louis, V.L., J.W.M. Rudd, C.A. Kelly, and L.A. Barrie, 1995. Wet Deposition of Methyl Mercury in Northwestern Ontario Compared to Other Geographic Locations, Water, Air, and Soil Pollution 80: 405-414.

San Francisco Estuary Institute (SFEI), 2001. San Francisco Bay Atmospheric Deposition Pilot Study. Part 1: Mercury, Technical Report. Prepared by SFEI, Richmond, CA.

Santa Clara Parks and Recreation Department, 2003. 2002-2003 Annual Report for Stormwater Discharges. County of Santa Clara.

Santa Clara Parks and Recreation Department, 2004. 2003-2004 Annual Report for Stormwater Discharges. County of Santa Clara.

SCVWD, 2004. Stream fish tissue collection and analysis report for total mercury content in Lavinia symmetricus 2004, Santa Clara Valley Water District.

SCVWD, 2002. Data files for Historical and Planned Sediment Removal Operations in Guadalupe River Watershed, Santa Clara Valley Water District.

SFBRWQCB, 2004. Surface Water Ambient Monitoring Program (SWAMP) San Francisco Bay Region. Chemical concentrations in fish tissues from selected reservoirs and coastal areas. Draft Report, San Francisco Bay Regional Water Quality Control Board.

Santa Clara Watershed Management Initiative, 2000. Watershed Management Plan. Volume One: Watershed Characteristics Report.

Slotton, D.G, S.M. Ayers, T.H. Suchanek, R.D. Weyand, and A.M. Liston. 2003. Mercury Bioaccumulation and Trophic Transfer in the Cache Creek Watershed, California, in Relation to Diverse Aqueous Mercury Exposure Conditions – Data Appendix. University of California – Davis, Davis, CA. http://loer.tamug.tamu.edu/calfed/Report/Final/UCDavis Cache Bio Appendix.pdf

Suchanek, T.H., L.H. Mullen, B.A. Lamphere, P.J. Richerson, C.E. Woodmansee, D. G. Slotton, E.J. Harner, and L.A. Woodward, 1998. Redistribution of Mercury from Contaminated Lake Sediments of Clear Lake, California. Water, Air, and Soil Pollution 104: 77-102.

Tetra Tech. 2003a. Technical Memorandum 7.1.2 Phase I Project Management Plan. Guadalupe River Watershed Mercury TMDL Project. Prepared for Santa Clara Valley Water District. June 13, 2003.

Tetra Tech. 2003b. Technical Memorandum 1.2 Preliminary Problem Statement. Guadalupe River Watershed Mercury TMDL Project. Prepared for Santa Clara Valley Water District. June 13, 2003.

Tetra Tech. 2003c. Technical Memorandum 2.1.2 Synoptic Survey Plan. Guadalupe River Watershed Mercury TMDL Project. Prepared for Santa Clara Valley Water District. July 30, 2003.

Tetra Tech. 2003d. Technical Memorandum 2.2 Synoptic Survey Report. Guadalupe River Watershed Mercury TMDL Project. Prepared for Santa Clara Valley Water District. September 8, 2003.

Tetra Tech, 2004a. Technical Memorandum 4.3 Draft Final Conceptual Model Report Guadalupe River Watershed Mercury TMDL Project. Prepared for Santa Clara Valley Water District.

Tetra Tech, 2004b. Technical Memorandum 5.2.3 Data Collection Plan: Guadalupe River Watershed Mercury TMDL Project. Prepared for Santa Clara Valley Water District. February 20, 2004

Tetra Tech, 2005a. Technical Memorandum 5.3.2 Data Collection Report. Guadalupe River Watershed Mercury TMDL Project. Prepared for Santa Clara Valley Water District.

Tetra Tech, 2005b. Guadalupe River Watershed Reservoir Sediment Sampling. Prepared for San Francisco Regional Water Quality Control Board.

Thomas, M.A, C.H. Conway, D.J. Steding, M. Marvin-DiPasquale, K.E. Abu-Saba and A.R. Flegal. 2002. Mercury Contamination from Historic Mining in Water and Sediment, Guadalupe River and San Francisco Bay, California. Geochemistry: Exploration, Environment, and Analysis. 2: 1-7.

Tremblay, G., P. Legendre, et al., 1998. The use of polynomial regression analysis with indicator variables for interpretation of mercury in fish data. Biogeochemistry 40: 189-201.

US Army Corps of Engineers (ACOE), 2004. Final Guadalupe River Project Mercury Monitoring Report Downtown San Jose, California.

USEPA. 2004. Guadalupe Watershed Reservoir Fish Sampling Plan, Draft 5/18/04, U. S. Environmental Protection Agency, Region 9.

U.S. EPA. 2001. Better Assessment Science Integrating Point and Nonpoint Sources, BASINS Version 3.0., User's Manual. EPA-823-B-01-001. Office of Water, U.S. Environmental Protection Agency. Available online at http://www.epa.gov/waterscience/basins/bsnsdocs.html.

United States Geological Survey (USGS). 2004. Online Data - Mercury Data for Water, Sediment, and Biota from Abandoned Mine Sites in the Upper Greenhorn Creek Drainage, Bear River Watershed, Nevada County, California. http://ca.water.usgs.gov/mercury/bear-yuba/greenhorncreek/index.html

United States Geological Survey (USGS). 2004. Mercury in the Walker River Basin, Nevada and California – Sources, Distribution, and Potential Effects on the Ecosystem. U.S. Geological Survey, Scientific Investigations Report 2004-5147, Denver, CO. <u>http://water.usgs.gov/pubs/sir/2004/5147/sir2004-5147.pdf</u>

United States Geological Survey (USGS). 2003. Sediment-Water Interactions Affecting Dissolved Mercury Distribution in Camp Far West Reservoir, California. U.S. Geological Survey, Water Resources Investigations Report 03-4140, Denver, CO. <u>http://water.usgs.gov/pubs/wri/wri034140/pdf/WRI034140.pdf</u>

United States Geological Survey (USGS). 2002. Preliminary Report on Mercury Geochemistry of Placer Gold Dredge Tailings, Sediment, Bedrock, and Waters in the Clear Creek Restoration Area, Shasta County, California. U.S. Geological Survey, Open-File Report 02-401, Menlo Park, CA. <u>http://geopubs.wr.usgs.gov/open-file/of02-401/of02-401.pdf</u>

United States Geological Survey (USGS). 2000. Online NAWQA Data - Water-Quality Assessment of the Sacramento River Basin, California: Water-Quality, Sediment and Tissue Chemistry, and Biological Data, 1995-1998 - Sacramento River Trace Metals Study. <u>http://ca.water.usgs.gov/sac_nawqa/sacmetals.html</u>

United States Geological Survey (USGS). 1999. Online Data - Mercury Data for Water and Sediment from the Dutch Flat Mining District, California. http://ca.water.usgs.gov/mercury/dutch/index.html

Watras, L.J., N.S. Bloom, S.A. Claas, 1995. Methylmercury production in the anoxic hypolimnion of the dimictic seepage lake. Water, Air, and Soil Pollution 80:735-745.

Woodward-Clyde Consultants (WCC), 1992. Assessment of Mercury in Water and Sediments of Santa Clara Valley Streams and Reservoirs. Prepared for Santa Clara Valley Nonpoint Source Pollution Control Program.

Whyte, D.C. and J.W. Kirchner. 2000. Assessing water quality impacts and cleanup effectiveness in streams dominated by episodic mercury discharges. The Science of the Total Environment, vol. 60, pp. 1-9.