4314 Tuliyani Drive Chico, CA 95973 October 1, 2017

AquaAlliance Barbara Vlamis, Executive Director P.O. Box 4024 Chico, CA 95927

Since your organization has expressed interest in the proposed Sites Reservoir project west of Maxwell, California, I am providing to you the comments that I have submitted in response to the Draft Environmental Impact Report/Environmental Impact Statement for the Sites Reservoir Project, State Clearinghouse #2001112009.

The draft EIR/EIS fails to discuss the high concentrations of a number of metals in the source waters to the proposed project, and, even more important, does not discuss water quality in the proposed reservoir. Water quality in the proposed reservoir will mimic that of the source waters, and hence the reservoir will have concentrations of a large number of metals that exceed many water quality criteria and standards. The high concentrations of metals likely to occur in the proposed reservoir will impact most, if not all, beneficial uses of the proposed project, including agricultural water supply, wildlife and fisheries, and drinking water supplies for communities that divert water from the Sacramento River, making the project potentially infeasible.

I am qualified to provide these comments since my background is in water quality, as former Chief of the Water Quality and Biology Section of the Northern District of DWR in Red Bluff.

If you have any questions, please contact me via email at chicojerry@yahoo.com.

Sincerely,

Jerry Boles

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4314 Tuliyani Drive Chico, CA 95973 November 17, 2017

Bureau of Reclamation Attn: Michael Dietle Draft EIR/EIS Comments 2800 Cottage Way, W-2830 Sacramento, CA 95825 Sites Project Office Attn: Rob Thomson Draft EIR/EIS Comments P.O. Box 517 Maxwell, CA 95955

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The water quality section (Chapter 7) must be completely rewritten with an objective analysis of the data and potential adverse impacts to water quality both within the reservoir and to downstream resources in the Sacramento River. Subsequently, the aquatic biological resources (chapter 12), terrestrial biological resources (chapter 14), recreation resources (chapter 21), public health and environmental hazards (chapter 28), and cumulative impacts (chapter 35) sections of the draft EIR/EIS must reassess impacts from the adverse water quality expected from the proposed project. Following these re-analyses, re-circulation of the draft EIR/EIS is necessary with appropriate disclosure information about the potential impacts from metals to water quality and its effects on agricultural water supply, wildlife and fisheries, and drinking water supplies.

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# Comments on Draft EIR Sites Reservoir Project: Chapter 7 Surface Water Quality

An EIR is supposed to be a disclosure document that provides information on the benefits as well as potential impacts from a proposed project. Section 7 - Surface Water Quality does not disclose potential significant adverse issues which have serious ramifications for the viability of the proposed project, but rather ignores or misconstrues available data and reports to incorrectly conclude that there are no significant water quality impacts associated with the proposed project. The EIR claims to have evaluated post-project impacts to the Sacramento River, but there are no analyses provided that indicate that this was done. It is apparent that the preparers of the EIR failed to examine or simply ignored the available data that would show potential significant adverse impacts from the proposed project.

The analyses in Section 7 completely left out any evaluation or projection of water quality that may result in Sites Reservoir from diverting high winter flows from the Sacramento River. The EIR fails to point out that due to metals loads in the various source waters, water in the proposed reservoir may not be suitable for the beneficial uses stated for the proposed project, including enhanced water management flexibility, agricultural and urban water supply, water quality improvement, and ecosystem improvement for fish protection, habitat management, and other environmental needs.

A factual evaluation of the available data is presented below, which shows significant potential adverse impacts associated with the proposed project. Some comments on specific sections of Chapter 7 of the EIR are also presented.

## **Available Data**

The EIR cites the DWR Water Data Library (WDL) online database as the source for water quality data used to determine impacts from the proposed project. However, very limited data from the WDL are available for evaluating water quality in source waters for the proposed project. The major source water for the proposed project is the Sacramento River, with potential diversion occurring at the Tehama-Colusa Canal, Glenn-Colusa Irrigation District Main Canal, and at Moulton Weir.

The Sacramento River below the Red Bluff Diversion Dam monitoring station of DWR provides information on the quality of water that would be diverted to the proposed project through the Tehama-Colusa Canal. Metals data are available in the WDL for the Sacramento River below the Red Bluff Diversion Dam beginning in February 2006 (Table 1). However, only 33 samples have been collected since 2006, and only nine of these were from the months in which higher flows most typically occur (December through March) and from which diversions to the proposed project would occur.

Cottonwood Creek contributes the most significant input to the Sacramento River during high runoff events. The Chico-Enterprise Record in an editorial published December 28, 2016 underscored the impact of tributaries on water quality in the Sacramento River. The newspaper stated that of the 100,000 cfs flowing in the river earlier in the month,

only 5,000 cfs was coming from Keswick Dam below Shasta Dam – the rest of the 100,000 cfs (95,000 cfs) was coming from tributaries downstream from Keswick Dam, of which Cottonwood Creek provides the dominant flows.

Data from Cottonwood Creek near Cottonwood are even more sporadic than those for the Sacramento River. Data are available for this station in WDL beginning in October 2004, with only seven samples collected from the Cottonwood Creek monitoring station since 2006, and only four of which were collected during the months of expected higher flows of December through March (Table 2). Data available in the WDL show that only one sample was collected (March 2006) during the same period from both Cottonwood Creek and the Sacramento River below the Red Bluff Diversion Dam since 2006. This one sample shows that metal loads in the Sacramento River are similar to those found in Cottonwood Creek, showing that Cottonwood Creek significantly affects water quality in the Sacramento River. Water quality in Cottonwood Creek will have a significant impact on diversions to the proposed reservoir and water quality data from Cottonwood Creek can be used to approximate and supplement data from the Sacramento River, though the total number of samples from both sites combined are still exceptionally low for a project of this magnitude and potential for adverse effects.

The water quality monitoring station on the Sacramento River at Hamilton City is just downstream from the GCID Main Canal. Data from the WDL is somewhat more extensive at the Hamilton City monitoring site, with metals data available in the WDL beginning in late 2003 to early 2017, though still sporadic with only 78 samples collected in the span of a little more than 13 years (159 months), and only 23 of those collected sometime during the months of expected higher flows of December through March (Table 3). Samples were collected in each of these months only twice, with the rest of the samples during these months only collected in February months each year since 2008.

The WDL shows that metals data are available for the Sacramento River opposite Moulton Weir monitoring station from mid 2003 to early 2011, for a total of 80 samples, with 27 of those from the expected higher flow months (Table 4).

Water quality sampling during the expected months of higher flows of December through March did not target high flow periods (the periods during which diversions to the proposed project would occur) but were based on a rigid and fixed monthly or semimonthly schedule. Monitoring did not provide any information on the variation in concentrations of metals over the runoff hydrograph. Even higher concentrations of metals would likely occur during the higher flow periods during these months, but were not targeted by the limited monitoring. The relatively low number of samples and lack of samples targeting critical flows (i.e., high runoff events) are nonetheless sufficient to indicate potential significant adverse water quality impacts with the proposed project. These data illustrate the need to collect additional data during appropriate time periods (i.e., during the high flow periods when diversions from the Sacramento River would be occurring) and re-evaluate the potential adverse water quality impacts from the proposed project.

# Data Analyses

Some of the analytical results shown in the WDL for metals are reported as "dissolved" and other results as "total" (or total recoverable). "Total" concentrations, which include both dissolved and particulate forms of an analyte, are probably a better representation for the concentrations of metals that will affect water quality in the proposed reservoir. As well, the State Water Resources Control Board makes no distinction between dissolved or total recoverable concentrations when considering whether a criterion is exceeded (SWRCB 2011). The proposed reservoir will thermally stratify and will also be biologically productive due to nutrients brought in from source waters. This in-situ productivity, as well as organic material brought in with the source waters, will result in anoxic conditions (i.e., lack of oxygen) in the hypolimnion (i.e., bottom water layer). While dissolved forms of metals are generally the most bioavailable, the particulate fraction of total recoverable forms will undergo chemical transformation to dissolved forms under the anoxic conditions expected in the hypolimnion of the proposed reservoir. Transformed metals will be mixed throughout the reservoir water column during turnover events, or released downstream with anoxic water from the lower depths during the summer months.

Data from the WDL (Table 1) show that aluminum, arsenic, cadmium, chromium, iron, lead, manganese, and mercury in water samples from the Sacramento River below the Red Bluff Diversion Dam exceed various criteria and standards established to protect beneficial uses, including drinking water, public health, taste and odor for agriculture, and freshwater organisms, which includes fish. Maximum concentrations of some of these metals are many times higher than the corresponding criteria or standard. For example, aluminum, in addition to exceeding the SWRCB Basin Plan Primary Maximum Contaminant Level (MCL) for drinking water by one and half times, also exceeds the secondary drinking water standard in the Basin Plan by seven times and the US Environmental Protection Agency Secondary MCL by 30 times. Even the minimum concentration of arsenic reported in WDL exceeds by more than 10 times nearly all the criteria and standards for protection of human health. The least reported concentration of cadmium from river water samples exceed by five times the incremental cancer risk for drinking water. The least concentration of chromium reported in WDL exceeds the California Public Health Goal by 16 times and incremental cancer risk for drinking water by five times. The maximum concentration of iron that was reported in WDL exceeds the secondary drinking water maximum concentration level in the Basin Plan, as well as National Recommended Water Quality Criteria for taste and odor or welfare by nearly three times. The maximum concentration of lead that was reported exceeds the California Public Health Goal and California Proposition 65 maximum allowable dose level for reproductive toxicity by over four times. The maximum reported concentration of manganese exceeds the National Recommended Water Quality Criteria for taste and odor or welfare by one and a half times. The maximum concentration reported for mercury exceeds the National Recommended Water Quality Criteria for Freshwater Aquatic Life Continuous Concentration by nearly four times, and the Freshwater Aquatic Life Maximum Concentration by two times. An additional concern with these metals is that some metals are taken up by crops (such as arsenic by rice), making the crops

potentially unsuitable for consumption. Plant uptake of metals in the water supply not only affect crops grown for human consumption, but also plants grown for support of wildlife, such as in refuges.

Similarly, data from the WDL for Cottonwood Creek near Cottonwood show that aluminum, arsenic, cadmium, iron, lead, manganese, and nickel exceed various criteria and standards established to protect beneficial uses (Table 2). Similar to the Sacramento River, maximum concentrations of some of these metals are many times higher than the corresponding criteria or standards. Aluminum concentrations exceed the Basin Plan drinking water primary standard MCL by 14 times, the secondary drinking water secondary standard MCL by 70 times, the California Public Health Goal by over 20 times, the National Academy of Sciences Health Advisory and Agriculture Water Quality Goals for taste and odor threshold by nearly three times, the National Recommended Water Quality Criteria for human health and welfare for water and fish consumption by nearly 30 times, and the National Recommended Water Quality Criteria for freshwater aquatic life maximum concentration by 20 times. As with the Sacramento River, even the minimum concentration of arsenic reported in WDL exceeds nearly all the criteria and standards for protection of human health by up to 167 times. The minimum concentration of cadmium reported exceeds the incremental cancer risk for drinking water by over three times, while the maximum concentration is over twice as high as the California Public Health Goal. As with the Sacramento River, the California Public Health Goal is exceeded by the least concentration of chromium reported by 16 times and the incremental cancer risk for drinking water by five times. Iron exceeds the Basin Plan drinking water standard secondary MCL by over five times, the Agricultural Water Quality Goals for taste and odor threshold by nearly five times, the National Recommended Water Quality Criteria for taste and odor or welfare by 78 times, and the National Recommended Water Quality Criteria for freshwater aquatic life maximum concentration by over 23 times. Reported lead concentrations are two and a half times higher than the California Public Health Goal, up to twice as high as the California Proposition 65 maximum allowable dose level for reproductive toxicity, and almost twice as high as the incremental cancer risk estimate for drinking water. Manganese concentrations reported from Cottonwood Creek exceed the Basin Plan Drinking Water Standards secondary MCL by a factor of 10, are nearly twice as high as the USEPA Health Advisory for drinking water, three times as high as the Agricultural Water Quality Goals for taste and odor threshold, and over 10 times higher than the National Recommended Water Quality Criteria for taste and odor or welfare. Reported maximum mercury concentrations exceed the National Recommended Water Quality Criteria for Freshwater Aquatic Life Continuous Concentration by nearly two times, while even the lowest reported concentration is nearly equal to the recommended criterion. Nickel exceeds the California Public Health Goal by nearly five times.

The GCID Main Canal intake is slightly upstream from the Sacramento River at Hamilton City water quality monitoring station. Therefore, water quality in the GCID Main Canal will be similar to that found at the Sacramento River at Hamilton City monitoring station. Metals data for this monitoring station can be found in the WDL from November 2003 to February 2017. Similar to the upstream monitoring station on the

Sacramento River below Red Bluff, the Sacramento River at Hamilton City water quality monitoring station has been identified to contain high levels of aluminum, arsenic, cadmium, chromium, copper, iron, lead, manganese, mercury, nickel, selenium, silver, and zinc (Table 3), which exceed a large number of criteria and standards similar to those upstream at the monitoring station below the Red Bluff Diversion Dam.

High levels of metals have also been identified at the water quality monitoring station opposite the Moulton Weir, including aluminum, arsenic, cadmium, chromium, copper, iron, lead, manganese, mercury, nickel, selenium, silver, and zinc (Table 4). As with the water quality monitoring station on the Sacramento River below the Red Bluff Diversion Dam, concentrations of metals from the Sacramento River monitoring station at the Moulton Weir exceed a large number of water quality criteria designed to protect beneficial uses.

As discussed earlier, Cottonwood Creek is the major source of water to the Sacramento River during higher flow periods, but other tributaries also contribute high levels of metals to the Sacramento River. In addition, local creeks directly tributary to the proposed reservoir, such as Funks Creek and Stone Corral Creek, also carry metals concentrations that will contribute to the metals loading. Leaching from soils beneath the reservoir will also contribute additional metals, as well as nutrients.

The Basin Plan lists other chemicals that adversely affect water quality in the Sacramento River, including chlorpyrifos and diazinon. The California State Water Resources Control Board lists a number of other "constituents of concern" in the study area, including chlordane, DDT, mercury, PCBs, and dieldrin. In addition, sewer outfalls from the cities of Redding and Red Bluff contribute other contaminants, such as pharmaceuticals, to the Sacramento River. No information is provided in the EIR about effects to the proposed project from these chemical contaminants.

## Discussion

The data in the WDL for the Sacramento River and Cottonwood Creek demonstrate that high concentrations of metals can be expected during the high flow months of winter (December through March) when diversions would be occurring to the proposed Sites Reservoir. Higher concentrations of metals are likely during the higher flows that can occur during these months. Such higher flows were not targeted by the limited sampling effort presented in the WDL. The high concentrations of metals in the source water will adversely impact water quality in the proposed reservoir for most, if not all, the proposed beneficial uses of the stored water.

Some metals from both the Sacramento River and Cottonwood Creek, whose concentrations did not exceed criteria in the limited sampling effort, had concentrations that nearly exceed the criteria and standards. These and other metals whose concentrations did not exceed the criteria may have higher concentrations during the higher flow periods that the proposed project would be diverting. Again, these higher flow periods were not targeted during the limited sampling effort.

Even some of the minimum concentrations of metals found in the source waters exceed criteria and standards, which means that the source waters never meet these goals and standards – the criteria are always exceeded and the water is never suitable for the beneficial use or uses the criteria or standards were designed to protect. Water quality in the proposed reservoir for these parameters will exceed the criteria and standards all the time.

Since water quality in the proposed reservoir will reflect that of the source waters, the reservoir will have concentrations of numerous metals, including aluminum, arsenic, cadmium, chromium, copper, iron, lead, manganese, mercury, nickel, selenium, silver, and zinc, that exceed a number of criteria and standards developed to protect beneficial uses. In addition, other metals that may not exceed criteria and standards in the source waters may adversely affect reservoir water quality due to synergistic effects. The State Water Resources Control Board (SWRCB 2011) states that "when multiple constituents have been found together in groundwater or surface waters, their combined toxicity should be evaluated" and that "theoretical risks from chemicals found together in a water body shall be considered additive for all chemicals having similar toxicologic effects or having carcinogenic effects." Thus, the adverse effects from the metals delivered to the proposed reservoir from the source waters may have an even greater adverse impact and pose an unacceptable level of risk. Beneficial uses potentially impacted by metals in the proposed reservoir include agricultural water supply (direct toxicity or uptake by crops making the crops unsuitable for use), wildlife (such as fisheating birds), fisheries, recreation (including sport fishing and water contact activities such as swimming), and drinking water supplies for communities that divert water from the Sacramento River.

Releases from the proposed reservoir would occur during the summer when metals concentrations in the Sacramento River are much lower due to the majority of flow being from Shasta Reservoir, with much better water quality, though still carrying a metals load. High metals concentrations in the proposed reservoir releases could adversely affect water quality in the Sacramento River during the summer months by increasing metals loads beyond acceptable limits and adversely impact beneficial uses.

Though high concentrations of metals that exceed water quality criteria exist in source waters to the proposed project, they cannot be regulated by governmental entities since they are natural occurrences. However, once contained artificially in a reservoir, they are subject to jurisdictional control by regulatory agencies. Any releases of water from the proposed reservoir will likely be subject to review by water quality regulatory agencies to ensure that such releases do not adversely affect downstream resources due to the heavy metals loads in the releases. The SWRCB has an antidegradation policy that prohibits discharges that would degrade water quality to a level below water quality objectives because no capacity would exist for degradation that will be caused by the next downstream or downgradient uses – the ability to beneficially use the water would have been impaired, even though water quality objectives would not yet have been exceeded (SWRCB 2011). The contribution of additional metal loads from releases from the proposed Sites Reservoir during the summer could cause

concentrations of metals in the Sacramento River to exceed criteria and standards or at least be subject to the antidegradation policy due to an incremental increase in metals in the Sacramento River from the proposed project. Thus, the proposed project may face prohibition of releases if stored water does not meet water quality criteria or standards or if releases can cause criteria or standards to be exceeded by downstream inputs (i.e., antidegradation poicy).

During dry years, the adverse impacts associated with the project can be expected to be even greater. Flows in the Sacramento River from upstream reservoirs on the Sacramento River (i.e., Shasta Reservoir, Whiskeytown Reservoir) will be minimized during the winter months in an effort to restore water storage levels in those reservoirs. Likewise, during wet or even normal runoff years, releases from the upstream reservoirs during the winter will be curtailed during high runoff periods to prevent downstream flooding. In any of these scenarios, tributary influences, such as Cottonwood Creek, on water quality in the Sacramento River will be much greater. The proposed project would still attempt to capture as much runoff from the Sacramento River as possible, but the water diverted to the proposed project will have even greater concentrations of metals due to the majority of flow being from tributary streams (e.g., Cottonwood Creek) during dry and possibly even wet or normal runoff years.

Similarly, during the summer in dry years, releases from upstream reservoirs (i.e., Shasta Reservoir, Whiskeytown Reservoir) will be minimized. Releases to the Sacramento River from the proposed project will have a greater impact on water quality in the Sacramento River due to less dilution being available due to curtailed flows in the river from upstream reservoirs (i.e., Shasta and Whiskeytown reservoirs).

# Conclusion

The proposed project is, at best, premature. Little or no data have been collected to determine the metals loads in the higher flows of the Sacramento River that would be diverted to the proposed reservoir. An extremely small amount of data have been collected during the months in which higher flows can be expected (December through March), but higher flows during these months were not targeted in the water quality sampling. None the less, the limited data presented in the WDL show high concentrations of a number of metals which exceed numerous water quality criteria and standards in the source waters for the proposed reservoir. Extremely high concentrations of metals are present in the small streams in the reservoir footprint, which occur due to the nature of the soils in the area of the proposed reservoir. Sites Reservoir would inundate these soils resulting in leaching of metals and further incremental loading of metals to the proposed reservoir. There is no discussion in the EIR about the potential impacts of metals leaching from the soils that would be inundated by the proposed reservoir. Prior to moving forward with the project, much additional data are needed during the high flow periods in which diversions would occur from the Sacramento River, metals loading from the smaller tributaries that flow directly into the proposed reservoir, and effects from leaching of metals from soils inundated by the proposed reservoir.

The limited data that are available are sufficient to show that water quality in the proposed reservoir will have concentrations of a large number of metals that exceed many water quality criteria and standards, including those established for the protection of agricultural water supply, wildlife and fisheries, and drinking water. Metals bioaccumulation in the reservoir food web could produce adverse impacts to fish-eating birds and other animals, as well as humans, and adversely affect any potential recreational benefit from the project. Releases from the proposed reservoir could adversely affect downstream resources, including agricultural water supply, wildlife and fisheries, and drinking water supplies for communities that divert water from the Sacramento River.

Also, the EIR does not discuss the physical conditions that can be expected to occur in the proposed reservoir. Like other nearby reservoirs, the proposed reservoir will thermally stratify during the summer months, with a warm upper water layer and a cooler lower water layer. The proposed reservoir will also be biologically productive due to nutrients brought in with source waters. The biological productivity will lead to anoxic conditions (i.e., lack of oxygen) in the hypolimnion (i.e., bottom water layer). Depending on the depth from which downstream releases are made from the proposed reservoir, water released will either be warm and unsupportive of cold water fisheries in the Sacramento River (i.e., migrating salmon) or cooler but devoid of oxygen. As releases from the reservoir progress during the summer, or in years in which the reservoir is not completely filled, the reservoir will be warm from surface to bottom as the cooler lower water strata is depleted from releases or wind mixing of the upper warm water layer. Under these conditions, only warm water would be available for release from the proposed reservoir, which would not be supportive of the cold water fishery in the Sacramento River.

An EIR is a disclosure document meant to disclose pertinent project information to planners, regulatory agencies, and other interested parties and the public. This EIR did not disclose the potential impacts from metals, other contaminants, nor the physical conditions likely to exist in the proposed reservoir. The little analyses presented in the EIR misconstrues, misinterprets, and ignores water quality data that amply demonstrate significant potential adverse impacts from the proposed project. The water quality section (Chapter 7) must be completely rewritten with an objective analysis of the data and potential adverse impacts to water quality both within the reservoir and to downstream resources in the Sacramento River. Subsequently, the aquatic biological resources (chapter 12), terrestrial biological resources (chapter 14), recreation resources (chapter 21), public health and environmental hazards (chapter 28), and cumulative impacts (chapter 35) sections of the EIR must reassess impacts from the adverse water quality expected from the proposed project. Whether any of the projected beneficial uses from the proposed project can be realized, and its feasibility to meet project objectives, purpose, and need, also needs to be reconsidered in light of the potential significant adverse water quality impacts from metals. Following these reanalyses, re-circulation of the EIR is necessary with appropriate disclosure information about the potential impacts from metals to water quality and its effects on agricultural

water supply, wildlife and fisheries, and drinking water supplies for communities that divert water from the Sacramento River.

#### EIR Needs:

- Obtain additional metals data from source waters targeting high flows from which diversions would occur
- Provide information on the water quality impacts from other chemical contaminants that adversely affect water quality in the Sacramento River (including chlorpyrifos, diazinon, chlordane, DDT, mercury, PCBs, and dieldrin) and contaminants in sewer outfalls (such as pharmaceuticals) and other discharges (such as industrial discharges)
- Evaluate the contributions of metals from local tributaries (i.e., Funks Creek and Stone Corral Creek) to the proposed reservoir
- Provide information on the contribution from leaching of metals from the inundation area of the proposed reservoir
- Evaluate effects of metals to beneficial uses within the proposed reservoir
  - o fisheries.
  - wildlife (including state and federal species listed as threatened or endangered),
  - o recreation
- Evaluate effects of metals to beneficial uses due to releases from the reservoir
  - o agricultural supply water,
  - effects of metals on crops including incorporation of metals by crops (e.g., arsenic uptake in rice),
  - effects of metals on plants grown for support of wildlife (such as in wildlife refuges),
  - o drinking water supplies,
  - o fisheries.
  - wildlife (including state and federal species listed as threatened or endangered),
- Evaluate combined toxicity of multiple metals
- Evaluate contributions of metals in reservoir releases related to the SWRCB antidegradation policy
- Evaluate impacts from mercury bioaccumulation in aquatic life (especially fish) in the proposed reservoir, and effects to wildlife that feed on fish from the reservoir and recreational opportunities (i.e., sport fishing)
- Evaluate physical conditions expected in the reservoir, including thermal stratification and hypolimnetic anoxia, and effects on reservoir and downstream aquatic resources
- Conduct re-analysis of impacts due to metals, other contaminants, and physical conditions in the proposed reservoir on:
  - o water quality (chapter 7),
  - o aquatic biological resources (chapter 12),
  - o terrestrial biological resources (chapter 14),
  - o recreation resources (chapter 21),

- o public health and environmental hazards (chapter 28), and
- o cumulative impacts (chapter 35).

# Comments on Specific Sections of EIR

# 7.2.1.5 Other Heavy Metals

"In addition to mercury and selenium, other heavy metals, including cadmium, copper, and zinc, impair beneficial uses of water bodies. Cadmium, copper, and zinc enter the water bodies with the sediment from eroded soils and discharges from abandoned mines, and in stormwater runoff from municipal areas (SWRCB, 2011a). The primary source in the Central Valley appears to be tailing piles located at abandoned mine sites. Many of these mines are located upstream of reservoirs; therefore, the sediment that includes the heavy metal constituents is generally captured upstream of the dam. Heavy metals appear to cause health concerns in aquatic resources and in humans that consume the fish from these water bodies."

Abandoned mines, which contribute heavy metals to area streams, are also found downstream from Shasta and Keswick dams. In addition, natural erosion and soil leaching also contribute to metals loads found in area streams, such as Cottonwood Creek, which make up the bulk of the flow in the Sacramento River during high runoff events during which flows would be diverted to the proposed reservoir. It is not that "heavy metals appear to cause health concerns in aquatic resources and humans," it is well known that they do.

# 7.2.4 Primary Study Area 7.2.4.1 Overview and Methodology

"DWR began monthly sampling of streams in the Primary Study Area in 1997, including physical parameters, nutrients, minerals, and metals in the water column (DWR, 2012), as well as mercury analysis of sport fish tissues collected from nearby existing reservoirs, including East Park, Stony Gorge, and Black Butte (DWR, 2007a). Routine water quality monitoring by DWR was periodically suspended due to funding limitations during portions of 2008 and 2009, and ended following the January 2010 monitoring run. Sampling results were then compared to Central Valley Basin Plan water quality criteria (CVRWQCB, 2011) (Appendix 7A California State Water Resources Control Board Constituents of Concern of Water Bodies in the Study Area) and USEPA ambient water quality criteria to prevent nuisance algal growth in streams (USEPA, 2001b)."

DWR does not indicate any data for metals in its Water Data Library until 2006 for the Sacramento River below the Red Bluff Diversion Dam, and 2003 for the Sacramento River at Hamilton City and opposite the Moulton Weir, as well as Stone Corral Creek. Funding for water quality monitoring by DWR was curtailed shortly after the 1997 date indicated in the EIR, after the project manager in the Red Bluff office was informed of potential adverse impacts from metals by the then Chief of the Water Quality and Biology Section. If additional data are available, that data should be made available in the WDL so that reviewers of this EIR can verify claims about lack of water quality issues made in the EIR. However, the data that are in the WDL adequately demonstrate significant adverse water quality issues with the proposed project. Any additional data that has not been shared will just confirm these issues.

Appendix 7A - California State Water Resources Control Board Constituents of Concern of Water Bodies in the Study Area – lists a large number of parameters for which no information is contained in this EIR. For example, chlorpyrifos, diazinon, chlordane, DDT, mercury, PCBs, and dieldrin are constituents of concern from Keswick Dam to the Delta. The EIR should assess how these constituents will impact water quality in the proposed reservoir.

## 7.2.4.2 East Park and Stony Gorge Reservoirs

"East Park and Stony Gorge reservoirs were sampled during the summer of 2000 to evaluate the extent of mercury contamination in fish because these reservoirs are representative of conditions that could be expected in the proposed Sites Reservoir. DWR analyses of total recoverable mercury indicate that levels in samples collected near the bottom of the water column at Stony Gorge and Black Butte reservoirs, exceeded the California Toxics Rule for protection of human health.

Fish tissue samples were collected by DWR from East Park and Stony Gorge reservoirs during 2000 to 2001. Neither catfish nor bass composites collected from East Park Reservoir exceeded the OEHHA screening value or USEPA criterion, although mercury levels in the small-sized bass approached these values, and a very large channel catfish that was analyzed individually contained tissue mercury at over twice the level of the screening value and criterion limits. Mercury concentrations in tissues of channel catfish collected from Stony Gorge Reservoir contained levels less than the screening value and criterion (DWR, 2007a)."

Mercury sampling in fish from East Park and Stony Gorge reservoirs was conducted to contribute to the knowledge of mercury contamination in a number of northern California lakes and reservoirs, not simply because these reservoirs are representative of conditions that could be expected in the proposed Sites Reservoir, though they well might. As noted, the bass from East Park Reservoir that were used for the composite analysis were small in size (about one foot long), yet approached the screening value and criterion. Larger fish can be expected to exceed these values since mercury is accumulated and magnified in fish tissues. The large catfish which contained mercury at over twice the screening value and criterion is probably representative of mercury concentrations that can be found in this species.

The EIR fails to mention that mercury contamination exceeded the screening value and criterion in a relatively small largemouth bass collected from Stony Gorge Reservoir. Though the catfish analyzed from Stony Gorge Reservoir did not exceed the screening value and criterion, the cited report states that "larger channel catfish from Stony Gorge Reservoir, therefore, may be expected to contain mercury concentrations that exceed the screening value and criterion."

Since mercury contamination in excess of criteria occurs in lakes that the EIR states are representative of conditions that could be expected in the proposed Sites Reservoir, the EIR should discuss the probability of mercury contamination in the proposed reservoir and ramifications to recreational fishing and wildlife that would consume fish from the reservoir.

#### 7.2.4.3 Salt Lake

"Saline water has been observed to seep from underground salt springs in the vicinity of the Salt Lake fault along the slopes above the valley and along the valley floor within the proposed inundation area of Sites Reservoir. These areas are generally located in the Funks Creek watershed. The water from the underground springs accumulates along the trough of the valley and forms Salt Lake (USGS, 1915). The size of Salt Lake and adjacent seasonal brackish wetlands varies with time. The wetted area appears to vary from 0 to 30 acres. The deeper water appears to be approximately 15 acres based on observations in 2017. The depth of the water has not been monitored.

Salt Lake was only sampled on a few occasions from 1997 to 1998. In August 1997, the Salt Lake was dry. In September 1997, the springs were bubbling and the EC was 194,100 micromhos per centimeter (µmhos/cm) as compared to 3,490 µmhos/cm for the nearby Stone Corral Creek. In January 1998, there was less than 1 cfs of flow from the springs, and the EC was 7,200 µmhos/cm as compared to 540 µmhos/cm for the nearby Stone Corral Creek. From these samples, it was found that waters from this location are extremely high in minerals. The EC value on one occasion reached 194,100 micromhos per centimeter. The TDS measurement at this time was 258,000 mg/L. EC, TDS, sodium, and boron exceeded all Central Valley Basin Plan criteria. A few metals also were noted at very high concentrations (aluminum, iron, and manganese) and exceeded all criteria, and a few others exceeded some criteria (arsenic, copper, lead, and nickel). Levels of ammonia and orthophosphate also were noted at high levels and exceeded criteria. Temperatures from this site were variable, and probably depend on seasonal conditions. Concentrations present in water from this site likely depend on the season and flow."

Though the EIR states that water quality data used in the analyses are available in the WDL, data for Salt Lake could not be found. However, the EIR states that several metals (aluminum, iron, and manganese) were found in concentrations that exceed all Basin Plan criteria, while others (arsenic, copper, lead, and nickel) exceed some criteria. These metals from the springs feeding Salt Lake will add to the metals load in the proposed reservoir.

#### 7.2.4.4 Funks Creek

Funks Creek originates at approximately 850 feet elevation in the foothills west of Antelope Valley. The banks of this intermittent stream are heavily eroded and the gravel bed is highly disturbed and compacted by cattle. Along the north end of Antelope Valley, Funks Creek receives underground drainage from Salt Lake. Funks Creek widens as it cuts through Logan Ridge and enters the western side of the Sacramento Valley, although flows are still intermittent. Approximately 1 mile downstream of Logan Ridge, Funks Creek is impounded by Funks Reservoir. This reservoir is fed mainly from waters of the Tehama-Colusa Canal. Downstream of the reservoir, Funks Creek is bordered by agricultural lands, and much of this reach is channelized before emptying into Stone Corral Creek. This portion of Funks Creek likely has some flow year round, due to leakage from the dam at Funks Reservoir.

DWR observed aluminum, arsenic, copper, iron, manganese, mercury, nickel, and phosphorus in Funks Creek at the Glenn-Colusa Irrigation District (GCID) Main Canal station during intermittent water quality sampling. The concentrations appeared to be higher during and immediately following storm events."

As with Salt Lake, data for Funks Creek could not be found in the WDL. The data used in the analyses in the EIR must be made available for review. It is likely that the reported metals exceed various criteria, as with Salt Lake, and thus add to the metals load in the proposed reservoir.

#### 7.2.4.5 Stone Corral Creek

"Stone Corral Creek originates at approximately 700 feet elevation in the foothills west of Antelope Valley. As the intermittent stream flows into the grasslands of Antelope Valley, the channel is narrow and the banks eroded. The much larger Antelope Creek flows into Stone Corral Creek from the south near the town of Sites. Stone Corral Creek flows through the gap in the foothills and into the western Sacramento Valley.

DWR observed aluminum, arsenic, copper, iron, manganese, nickel, and phosphorus during intermittent sampling in Stone Corral Creek near Sites station during intermittent water quality sampling. The concentrations appeared to be higher during and immediately following storm events."

Data for Stone Corral Creek are available in the WDL. These data show that not only are high concentrations of aluminum, arsenic, copper, iron, manganese, and nickel present, as reported in the EIR, but also cadmium, chromium, lead, mercury, selenium, silver, and zinc, as well as boron (Table 5). The EIR does not disclose the fact that, not only are the concentrations higher during and immediately following storm events, the resulting metals concentration in Stone Corral Creek exceed a large number of criteria and standards including those to protect drinking water, public health, freshwater aquatic life, and agricultural uses. These metals will also contribute to the metals load in the proposed reservoir.

The metals concentrations found in Stone Corral Creek, Salt Lake, and Funks Creek are a result of leaching from the soils through which these water bodies flow. Inundation of these soils by the proposed reservoir will result in an additional metals load to the reservoir.

#### 7.2.4.6 Tehama-Colusa Canal

"The intake for the Tehama-Colusa Canal occurs at the southeast end of the City of Red Bluff at River Mile (RM) 243. The intake occurs downstream of the mouth of Red Bank Creek. The Tehama-Colusa Canal is approximately 111 miles long and extends from Red Bluff in Tehama County to downstream of Dunnigan in Yolo County. Funks Reservoir is approximately 66 canal miles downstream of the intake at the Sacramento River.

DWR observed aluminum, arsenic, cadmium, and iron during intermittent sampling in the Tehama-Colusa Canal downstream of the siphon under Stony Creek during intermittent water quality sampling."

The intake for the Tehama-Colusa Canal is at the Sacramento River below Red Bluff Diversion Dam water quality monitoring station. Therefore, water quality in the Tehama-Colusa Canal will be exactly that found at the Sacramento River below Red Bluff Diversion Dam monitoring station. Data for this monitoring station can be found in the WDL.

This is another example where the EIR is less than forthcoming. Not only are aluminum, arsenic, cadmium, and iron present in water diverted from the river into the canal, but, as discussed earlier, so are chromium, copper, lead, manganese, mercury, nickel, selenium, and zinc (Table 1). The highest concentrations were found during the higher flow months (December through March). As discussed earlier, many of these metals exceed a large number of criteria and standards, including those developed to protect drinking water, public health, freshwater aquatic life, and agricultural uses. Water quality in the proposed reservoir will reflect that in the Sacramento River below the Red Bluff Diversion Dam and other source waters, and exceed many of the criteria developed to protect beneficial uses of the water.

# 7.2.4.7 Glenn-Colusa Irrigation District Main Canal

"The intake for the GCID Main Canal is on a side channel off the Sacramento River at RM 205.5, north of the town of Hamilton City. GCID's Hamilton City pump station, located at the intake, diverts water into the GCID Main Canal from the Sacramento River for distribution within the GCID service area. The canal is an unlined earthen channel that stretches approximately 65 miles from the system diversion point near Hamilton City to its downstream southern terminus at the CBD near Williams, in Colusa County.

DWR observed aluminum, arsenic, cadmium, copper, iron, mercury, manganese, and phosphorus during intermittent sampling in the GCID Main Canal intake during intermittent water quality sampling."

The intake for the GCID Main Canal is slightly upstream from the Sacramento River at Hamilton City water quality monitoring station. Therefore, water quality in the GCID Main Canal will be similar to that found at the Sacramento River at Hamilton City monitoring station. Data for this monitoring station can be found in the WDL.

Not only are aluminum, arsenic, cadmium, copper, iron, manganese, and mercury present in the Sacramento River in the vicinity of the diversion into the GCID Main Canal, but so are chromium, lead, nickel, selenium, silver, and zinc (Table 3). Aluminum, arsenic, cadmium, iron, lead, manganese, mercury, and nickel are present in concentrations that exceed various criteria and standards. The highest concentrations are generally found during the higher flow months of December through March, when the proposed project may be diverting water from this area of the Sacramento River.

# 7.2.4.9 Sacramento River Opposite Moulton Weir

"DWR monitored water quality at the Sacramento River along the western bank opposite Moulton Weir station from 2000 to 2010. The water quality samples included aluminum, arsenic, copper, iron, mercury, manganese, lead, and phosphorus. Total aluminum levels in the Sacramento River at this location frequently exceeded aquatic life criteria during associated high flow conditions in the river, but rarely exceeded drinking water criteria and the agricultural goal. Arsenic levels exceeded human toxicity thresholds in all samples collected, and the criterion for protection of aquatic life for cadmium was occasionally exceeded. Copper levels frequently exceeded hardness-dependent aquatic life protection criteria during high flow conditions in the river, and iron levels frequently exceeded drinking water and aquatic life protection criteria, as well as the agricultural goal during the same river conditions. Dissolved iron levels exceeded the Central Valley Basin Plan level occasionally. Mercury levels approached, but did not exceed, the CTR criterion during the highest flows in the river. Manganese levels

occasionally exceeded drinking water standards and the agricultural goal, and lead levels rarely exceeded drinking water criteria. All samples contained total phosphorus at levels at or above the recommended criteria range to prevent nuisance algal growth in streams."

Monitored metals also included cadmium, chromium, nickel, selenium, silver, and zinc (Table 4). Contrary to the statement in the EIR, aluminum concentrations frequently exceed drinking water criteria and on several occasions the agricultural goal during the high flow months of December through March. With reported concentrations up to 38 ug/L, mercury not only approached but greatly exceeded the California Toxics Rule (CTR) criterion (0.05 ug/L) for sources of drinking water as well as the National Recommended Water Quality for freshwater aquatic life continuous concentration (0.77 ug/L) and maximum concentration (1.8 ug/L). Reported lead concentrations frequently exceed the California Public Health Goal of 0.02 ug/L, and had a median value of 0.058 ug/L. Reported nickel concentrations also exceed the California Public Health Goal.

# Environmental Impacts/Environmental Consequences

# 7.3.1 Section 303 Evaluation Criteria and Significance Thresholds

"Significance criteria represent the thresholds that were used to identify whether an impact would be potentially significant. Appendix G of the CEQA Guidelines suggests the following evaluation criteria for water quality:

# Would the Project:

- Violate any water quality standards or waste discharge requirements?
- Create or contribute runoff water that would exceed the capacity of existing or planned stormwater

drainage systems or provide substantial additional sources of polluted runoff?

• Otherwise substantially degrade water quality?

The evaluation criteria used for this impact analysis represent a combination of the Appendix G criteria and professional judgment that considers current regulations, standards, and/or consultation with agencies, knowledge of the area, and the context and intensity of the environmental effects, as required pursuant to NEPA. For the purposes of this analysis, an alternative would result in a potentially significant impact if it would cause the following:

\* A violation of any water quality standard or waste discharge requirement, or otherwise substantially degrade water quality

If a water quality constituent declines under the action alternatives as compared to the Existing Conditions/No Project/No Action Condition, the changes are not considered to be adverse.

# **Qualitative Analysis of Constituents**

The qualitative analysis of changes in other constituents (e.g., mercury, selenium, nutrients) was based upon an analysis of potential changes in loadings from sources of the constituent and related changes in flows that would occur from implementation of the Project as compared to the Existing Conditions/ No Project/No Action Condition. For example, the qualitative analysis of changes in mercury is based upon changes in flow patterns from the major sources of mercury in the Sacramento River watershed (e.g., tributaries to the Sacramento River)."

What the heck does this last paragraph mean? It makes absolutely no sense. The analysis of potential impacts should be based on an assessment of the expected water quality in the proposed reservoir, whether that water quality exceeds any criteria or standards, and the adverse effects that would occur if criteria or standards are exceeded, both within the reservoir and in downstream areas subject to releases from the reservoir.

# 7.3.4 Section 303 Impacts Associated with Alternative A

Shasta Lake and Sacramento River from Shasta Lake and Keswick Reservoir to Freeport

Impact SW Qual-1: A Violation of Any Water Quality Standard or Waste Discharge Requirement, or Otherwise Substantially Degrade Surface Water Quality

# Mercury and Other Heavy Metals

"As described in Section 7.2, the sources of mercury and other heavy metals in Shasta Lake are located upstream of the lake and accumulate within Shasta Lake. Mercury in the Sacramento River downstream of Keswick Reservoir is generated along the tributaries to the Sacramento River. The generation rate and the accumulation rates of mercury and other heavy metals in Shasta Lake or along the Sacramento River would not be affected by implementation of Alternative A because there would be no new facilities constructed upstream of Shasta Lake or along the tributaries. Operations of Shasta Lake under Alternative A, as reflected by end-of-month Shasta Lake storage, would be similar to conditions under the Existing Conditions/No Project/No Action Condition, as described in Chapter 6 Surface Water Resources."

Accumulation of mercury would indeed be affected by Alternative A (and all the other alternatives) since water from the Sacramento River, containing mercury concentrations in excess of various criteria, would be diverted into the proposed reservoir. Releases from the reservoir could adversely affect downstream resources and beneficial uses due to the mercury contained in the reservoir. In addition, fisheries, wildlife, and recreation that utilize the reservoir could be adversely affected from mercury accumulation in the reservoir food web.

#### Summary

"Concentrations of mercury, other heavy metals, and salinity would be similar in the Sacramento River under Alternative A as compared to the Existing Conditions/No Project/No Action Condition; therefore, there would be no impact related to these constituents."

Again, there are potential very significant adverse impacts associated with diverting water from the Sacramento River during higher flow periods to the proposed reservoir. The Sacramento River contains concentrations of a large number of metals, including aluminum, arsenic, cadmium, chromium, iron, lead, manganese, and mercury, that significantly exceed various criteria and standards designed to protect beneficial uses. Water in the reservoir will reflect that of the water diverted from the Sacramento River, and will also exceed a number of criteria developed to protect beneficial uses. The metals may adversely affect aquatic resources in the reservoir and terrestrial resources that may utilize the reservoir (such as fish-eating birds), as well as reservoir recreation.

The metals in releases from the reservoir may adversely affect downstream resources, including drinking water supply, agricultural supply, wildlife, and fisheries, and may violate the SWRCB antidegradation policy. These are definite "impacts related to these constituents," contrary to what is stated above in this EIR. All the alternatives suffer from the exact same significant adverse impacts due to metals in the source waters.

#### 7.4 Mitigation Measures

"Because no potentially significant direct water quality impacts were identified, no mitigation is required or recommended."

The EIR failed to identify any impacts, though significant potential adverse impacts are painfully obvious. The EIR completely ignores any assessment of the proposed project - Sites Reservoir, as well as any assessment of the adverse impacts the reservoir may pose to beneficial uses within the reservoir (i.e., fisheries, wildlife, recreation) and those adverse impacts attributable to releases from the reservoir (i.e., drinking water supply, agricultural water supply, fisheries, wildlife, recreation). As shown throughout this discussion, a number of metals significantly exceed water quality criteria and standards in the water sources to the proposed reservoir. The EIR completely ignores potential chemical contaminants (such as chlorpyrifos, diazinon, chlordane, DDT, mercury, PCBs, and dieldrin). Water quality in the reservoir will reflect that of the source waters. Therefore, the reservoir will contain a number of metals, including aluminum, arsenic, cadmium, chromium, iron, lead, manganese, and mercury, and possibly other chemical contaminants that exceed a number of water quality criteria designed to protect beneficial uses. Both water resources within the reservoir and downstream resources that receive reservoir releases may be adversely affected by the metals and chemical contaminants. The EIR also fails to address the physical properties that will exist in the reservoir (such as thermal stratification and hypolimnetic anoxia), and how they will affect both reservoir and downstream resources. The EIR needs to address how these significant adverse impacts are going to be mitigated.

# References

SWRCB 2011. State Water Resources Control Board. A Compilation of Water Quality Goals, 16<sup>th</sup> Edition. April 2011.

Table 1. Sacramento River below Red Bluff Diversion Dam, Part 1 of 2

TODIC 1. JOSE CHICKING THAT SECOND INC. CONT. DESCRIPTION OF CONT.		Discolved	Ťata	Dinalyan.	T 2	- 1 2 1	Dissolved	Total	Discolved	Total	Discolved	בל <u>ת</u>
	~	Lead	Lead	Manganese	Manganese	Mercury	Nickel	Nickel	Selenium	Selenium	Zinc	Zinc
Station Name	Sample Date	µg/L	1/84	µg/∟	μg/L	ng/L	µg/L	µg/L	µg/L	нв/г	л/Вт	µg/L
SACRAMENTO R BL RED BLUFF DIV DM	2/21/06 10:45	<0.045	0.049	2.37	5.71	N/A	1.53	1.62	<0.149	0.15	1.45	1.89
SACRAMENTO R BL RED BLUFF DIV DM	3/1/06 11:00	0.274	1.1	13.5	78.9	N/A	2.84	8.57	<0.149	0.16	4.49	13.2
SACRAMENTO R BL RED BLUFF DIV DM	4/18/06 9:25	0.086	0.271	6.94	19.6	N/A	1.69	2.84	0.24	0.31	2.95	5.81
SACRAMENTO R BL RED BLUFF DIV DM	5/16/06 6:45	<0.04	0.075	1.64	7.63	N/A	1.14	1.34	<0.2	<0.2	0.49	1.78
SACRAMENTO R BL RED BLUFF DIV DM	6/26/06 10:05	<0.04	0.092	1	7.92	N/A	1.6	2.1	<0.2	<0.2	0.72	2.31
SACRAMENTO R BL RED BLUFF DIV DM	7/25/06 8:20	<0.04	0.15	1.49	11.7	1.7	1.8	3.01	<0.2	0.26	1.02	4.39
SACRAMENTO R BL RED BLUFF DIV DM	8/21/06 13:30	<0.04	0.102	1.65	5.98	0.89	1.84	2.55	<0.2	<0.2	1.51	3.22
SACRAMENTO R BI BED BILIEF DIV DM	10/75/06 13:30	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	201.0	1.88	6 03	0.58	1.88	2.85	\$ 60.2 20.2	0.24	0.60	7.92
SACRAMENTO R BL RED BLUFF DIV DM	12/13/06 9:20	0.103	0.546	3.08	38.6	0.84	1.3	2.32	<0.2	0.24	2.07	9.17
SACRAMENTO R BL RED BLUFF DIV DM	1/10/07 12:25	<0.04	<0.04	1.37	3.13	0.59	0.97	1.02	<0.2	<0.2	0.71	2.82
SACRAMENTO R BL RED BLUFF DIV DM	2/26/07 10:45	0.149	0.234	6.41	10.2	2.6	1.14	1.49	0.2	0.28	3.09	5.68
SACRAMENTO R BL RED BLUFF DIV DM	3/21/07 10:30	<0.04	0.04	1.27	4.8	0.9	0.84	0.97	<0.2	0.2	0.38	3.58
SACRAMENTO R BL RED BLUFF DIV DM	4/17/07 10:30	<0.04	<0.04	1.71	5.08	1.2	0.57	0.72	<0.2	<0.2	0.48	3.46
SACRAMENTO R BL RED BLUFF DIV DM	5/29/07 9:45	6.04	<0.04	0.39	2.95	N/A	0.65	0.76	<0.2	0.23	0.31	3.01
SACRAMENTO R BL RED BLUFF DIV DM	7/18/07 10:10	<0.04	<0.04	0.2	4.47	0.98	0.76	1.08	<0.2	<0.2	0.31	3.37
SACRAMENTO R BL RED BLUFF DIV DM	8/27/07 12:10	<0.04	<0.04	0.33	3.8	N/A	1.25	1,4	<0.2	0.23	2	2.22
SACRAMENTO R BL RED BLUFF DIV DM	9/12/07 10:40	<0.04	0.058	0.18	3	0.58	0.89	<b>—</b>	<0.2	<0.2	0.5	2.34
SACRAMENTO R BL RED BLUFF DIV DM	10/30/07 10:40	<0.04	0.052	0.19	4.66	0.48	0.92	1.2	<0.2	<0.2	0.71	3.12
SACRAMENTO B BI DED BILIEF DIV DM	11/26/07 13:40	^ ^0.0 <b>4</b>	0.078	0.32	4.71	1.2	0.63	0.93	3 6	\ 0.2	0.34	2.59
SACRAMENTO R BL RED BLUFF DIV DM	2/26/08 10:40	<0.04	0.388	0.68	23.4	N/A	1.58	ω	<0.2	0.21	0.97	6.85
SACRAMENTO R BL RED BLUFF DIV DM	3/25/08 7:25	<0.04	<0.04	0.36	6.12	N/A	0.71	0.95	<0.2	0.25	0.44	3.11
SACRAMENTO R BL RED BLUFF DIV DM	4/22/08 13:55	<0.04	0.051	1.48	5.43	N/A	0.72	0.88	0.25	0.26	1.11	3.47
SACRAMENTO R BL RED BLUFF DIV DM	7/23/08 13:50	<0.04	<0.04	0.26	4.64	0.65	1.2	1.24	6.2	<b>60.2</b>	0.51	2.87
SACRAMENTO R BL RED BLUEF DIV DM	4/21/05 13.20 12.20 + 12.20	^^ C	VO 04	0.37	2.22	Z/2	0.80	0.00	۲ (۲ (۲ (۲ (۲ (۲ (۲ (۲ (۲ (۲ (۲ (۲ (۲ (۲	۸۵ کر د ۵۰ ک	0.48	2 28
SACRAMENTO R BL RED BLUFF DIV DM	6/24/09 14:00	<0.04	<0.04	0.3	3.26	N/A	0.91	1.05	0.23	0.27	1.25	3.27
SACRAMENTO R BL RED BLUFF DIV DM	7/27/09 14:07	<0.04	0.063	1.86	6.71	N/A	1.17	1.24	<0.2	<0.2	1.32	4.09
SACRAMENTO R BL RED BLUFF DIV DM	8/25/09 9:55	<0.04	<0.04	0.35	4.54	N/A	1.13	1.21	<0.2	<0.2	0.81	2.67
SACRAMENTO R BL RED BLUFF DIV DM	9/23/09 8:50	<0.04	<0.04	0.32	4.77	N/A	1.01	1.16	<0.2	<0.2	0.63	2.79
SACRAMENTO R BL RED BLUFF DIV DM	10/26/09 13:15	<0.04	0.076	2.55	7.5	N/A	0.97	1.03	<0.2	<0.2	0.94	3.12
and the state of the second control of the s	Maximum	0.274	1.1	13.5	78.9	2.6	2.84	8.57	0.25	0.31	4.49	13.2
and the second second sees to the second	Median	0.126	0.085	111	5.71	0.89	1.01	1.21	0.235	0.245	0.94	3.27
consistent of the contract of	Minimum	0.086	0.04	0.18	2.32	0.48	0.57	0.72	0.2	0.15	0.31	1.78
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California Proposition 65 Safe Harbor Level - Max. Allowable dose level for	level for	0	0.25									
Agriculture Water Quality Goals - Taste and odor threshold			1									
National Recommended WQ Criteria - Taste and Odor or Welfare					50							
National Recommended WQ Criteria - Freshwater Aquatic Life Continuous	mtinuous					0.77						
National Recommended WQ Criteria - Freshwater Aquatic Life Maximum	aximum					ь. Б						

Table 2. Cottonwood Creek near Cottonwood, Part 1 of 2

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		o	sensi ecte <sup>pro</sup> c			was recrease	0.018	0.0	7	87	nd Welfare	National Recommended WQ Criteria - Human Health and Welfare protection - water and fish consumption
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		O esercione e					- Carlo Maria		80	5000		National Academy of Sciences Health Advisory
							0.05	0.1				California Proposition 65 Safe Harbor Level - Max. Allowable dose level for reproductive toxicity
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1	1 0.41	0.41	0.35	0.33	0.007	0.003	0.344	0.3	6.42	1.55	Minimum	approximate the second of the
	7 0.68	0.57	1.38	1.08	0.0195	0.009	0.5865	0.5205	64	18.85	Mean	
17	3 39.2	4.43	36.5	8.2	0.085	0.009	3.04	0.889	14345	2533	Maximum	
2	7 0.62	0.57	1.91	1.38	<0.1	<0.1	0.344	0.3	52.3	47.5	2/20/07 8:45	COTTONWOOD C NR COTTONWOOD
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		0.6	4.58	1.11	<0.1	6.1	0.569	0.394	1225	151	4/24/06 10:03	COTTONWOOD C NR COTTONWOOD
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	0.54	0.5	1.98	1.7	<0.009	<0.009	0.691	0.657	32.9	2.65	8/22/05 11:45	COTTONWOOD C NR COTTONWOOD
. <b>.</b>	3 0.52	0.48	0.78	0.47	<0.004	<0.011	0.72	0.682	7.51	1.55	7/26/05 6:45	COTTONWOOD C NR COTTONWOOD
	0.46	0.42	1.14	1.7	<0.012	<0.009	0.465	0.455	86.1	63.9	6/28/05 7:30	COTTONWOOD C NR COTTONWOOD
	39.2	4.43	36.5	2.94	0.085	<0.058	3.04	0.863	14345	1358	5/18/05 11:20	COTTONWOOD C NR COTTONWOOD
	0.59	0.42	1.52	1.02	<0.009	<0.022	0.484	0.413	88	40.2	4/19/05 8:10	COTTONWOOD C NR COTTONWOOD
	0.67	0.5	1.63	1.6	<0.011	<0.033	0.468	0.46	95.6	34.7	3/10/05 13:50	COTTONWOOD C NR COTTONWOOD
	0.85	0.63	114	1.05	<0.066	<0.011	0.417	0.396	157	87.1	2/2/05 13:00	COTTONWOOD C NR COTTONWOOD
	1.67	1.29	1.9	1.73	<0.007	<0.011	0.549	0.517	448	208	1/10/05 7:35	COTTONWOOD C NR COTTONWOOD
ļ.,		0.66	2.33	2.04	0.081	<0.012	0.612	0.524	31.3	7.02	12/7/04 10:40	COTTONWOOD C NR COTTONWOOD
	8 0.72	0.48	1.75	1.51	<0.007	<0.008	0.723	0.684	6.42	3.98	11/8/04 11:20	COTTONWOOD C NR COTTONWOOD
: <u> </u>	0.58	0.47	0.68	0.65	<0.008	<0.011	0.668	0.662	10.5	5.21	10/5/04 11:30	COTTONWOOD C NR COTTONWOOD
. i'	⊥ µg/L	1/8H	1/8H	μg/L	1/8H	µg/L	1/8m	µg/L	µg/L	µg/L	Sample Date	Station Name
곡		m Copper	Chromiu	Chromium Chromium	Cadmium	3	Arsenic	Arsenic	Aluminum	∃.		
Dissolved	ed Total	Dissalved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved		
											:	

Table 2. Cottonwood Creek near Cottonwood, Part 2	nwood, Part 2 of	f2												
		Dissolved	Total	Dissolved	Total	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total
		Lead	Lead	ese	Manganese	Mercury	Nickel	Nickel	Selenium	Selenium	Silver	Silver	Zinc	Zinc
Station Name	Sample Date	μg/L	µg/L	µg/L	µg/L	ng/L	μg/L	1/8H	нв/Г	µg/L	µg/L	1/8m	µg/L	μg/t
COTTONWOOD C NR COTTONWOOD	10/5/04 11:30	0.008	<0.017	2.58	11.3	N/A	1.34	1.34	0.18	<0.204	<0.077	<0.054	0.19	0.42
COTTONWOOD C NR COTTONWOOD	11/8/04 11:20	<0.001	0.008	3.06	4.36	N/A	0.86	1.53	0.33	0.35	<0.006	<0.063	0.05	0.09
COTTONWOOD C NR COTTONWOOD	12/7/04 10:40	0.012	0.028	0.46	4.09	N/A	1.07	1.2	<0.163	0.28	<0.011	<0.04	0.31	0.65
COTTONWOOD C NR COTTONWOOD	1/10/05 7:35	0.048	0.166	1.79	12.6	N/A	1.59	2.61	0.74	0.81	<0.003	0.006	0.55	1.58
COTTONWOOD C NR COTTONWOOD	2/2/05 13:00	0.017	0.063	2.87	7.91	N/A	1.41	1.93	<0.222	0.18	<0.001	<0.002	0.22	0.73
COTTONWOOD C NR COTTONWOOD	3/10/05 13:50	0.008	0.044	0.79	4.71	N/A	1.28	1.64	<0.245	0.32	<0.001	<0.036	0.16	0.44
COTTONWOOD C NR COTTONWOOD	4/19/05 8:10	0.015	0.034	1.51	5.07	N/A	0.98	1.47	0.31	0.44	<0.003	<0.005	0.2	0.53
COTTONWOOD C NR COTTONWOOD	5/18/05 11:20	0.475	7.26	8.76	563	N/A	3.38	57.9	<0.399	0.39	0.039	0.101	3.31	72
COTTONWOOD C NR COTTONWOOD	6/28/05 7:30	<0.009	<0.027	3.47	3.93	N/A	0.66	1.16	<0.14	<0.354	<0.002	<0.027	0.14	0.36
COTTONWOOD C NR COTTONWOOD	7/26/05 6:45	<0.019	<0.063	0.32	2.51	N/A	0.43	0.82	<0.145	<0.176	<0.002	<0.04	<0.083	0.15
COTTONWOOD C NR COTTONWOOD	8/22/05 11:45	<0.004	0.024	1.05	13.7	N/A	0.79	1.07	<0.227	<0.227	<0.001	<0.001	0.18	0.56
COTTONWOOD C NR COTTONWOOD	9/26/05 11:20	0.006	0.111	0.76	24.9	N/A	1.31	2.36	0.17	0.19	<0.003	<0.003	0.88	1.97
COTTONWOOD C NR COTTONWOOD	10/24/05 8:30	0.008	0.028	1.93	15.4	N/A	1.18	1.45	0.11	0.19	<0.002	<0.002	0.31	0.48
COTTONWOOD C NR COTTONWOOD	11/14/05 9:00	0.01	0.017	1.78	5.95	N/A	1.37	1.38	<0.186	<0.186	<0.009	<0.009	0.39	0.71
COTTONWOOD C NR COTTONWOOD	12/15/05 9:15	0.006	0.008	0.79	2.59	N/A	1.41	1.48	0.16	0.29	<0.001	<0.001	<0.177	<0.177
COTTONWOOD C NR COTTONWOOD	1/24/06 9:10	0.033	0.146	6.19	16.7	N/A	1.95	3.38	0.23	0.28	<0.005	<0.005	0.43	1.44
COTTONWOOD C NR COTTONWOOD	3/1/06 9:15	0.491	1.53	30.8	138	N/A	7.35	20.9	<0.149	0.15	<0.009	<0.009	3.64	13.6
COTTONWOOD C NR COTTONWOOD	4/24/06 10:03	0.04	0.444	2.06	40.8	N/A	1.51	6.9	0.21	0.32	<0.03	<0.03	0.47	4.32
COTTONWOOD C NR COTTONWOOD	8/16/06 11:00	<0.04	<0.04	1.13	5.41	0.72	1.14	1.32	0.42	0.6	<0.03	<0.03	0.14	0.73
COTTONWOOD C NR COTTONWOOD	11/14/06 9:05	<0.04	<0.04	4.82	10.7	N/A	1.56	1.77	0.56	0.63	<0.03	<0.03	<0.1	1.07
COTTONWOOD C NR COTTONWOOD	12/6/06 13:20	<0.04	<0.04	2.55	4.44	N/A	0.87	1.24	0.33	0.59	<0.03	<0.03	0.79	2.02
COTTONWOOD C NR COTTONWOOD	2/20/07 8:45	<0.04	<0.04	ъ	5.57	1.2	0.16	1.66	0.35	0.51	<0.03	<0.03	0.18	1.65
	Maximum	0.491	7.26	30.8	563	1.2	7.35	57.9	0.74	0.81	0.039	0 101	364	77
The state of the s	Mean	0.0135	0.044	1.995	6.93	0.96	1.295	1.505	0.31	0.32	0.039	0.0535	0.31	0.73
	Minimum	0.006	0.008	0.32	2.51	0.72	0.16	0.82	0.11	0.15	0.039	0.006	0.05	0.09
SWRCB Basin Plan - Drinking Water Standards -Primary MCL	ary MCL	Company of the season of the s	e attagle e delectado el citado en escala				9	0.00		-				
SWRCB Basin Plan - Drinking Water Standards -Secondary MCL	ndary MCL	100	- Conferences	50	0		4	100000	Thomas Co.					
Cal EPA/OEHHA - California Public Health Goal		0.2	2				12	2						
USEPA Secondary MCL					of the second second	1000			A CONTRACTOR OF THE CONTRACTOR	100000000000000000000000000000000000000		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The second secon	Choose a management
Cal EPA - One in a million incremental cancer risk estimate for drinking w	timate for drinking w	4.1	i										- Aller and a second	and the same of th
USEPA Health Advisory for drinking water	-			300	5									-
California Proposition 65 Safe Harbor Level - Max.			to the March of the College of the C						- mandacarda a a	:	1		-	
Allowable dose level for reproductive toxicity		0.25	25											
National Academy of Sciences Health Advisory														
Agriculture Water Quality Goals - Taste and odor threshold	reshold			200	0									
National Recommended WQ Criteria - Taste and Odor or Welfare	or or Welfare			50	0	-								
National Recommended WQ Criteria - Human Health and Welfare	h and Welfare													
National Recommended WQ Criteria - Freshwater Aquatic Life	quatic Life					0.77								
National Recommended WQ Criteria - Freshwater Aquatic Life	quatic Life					1.4								

SAMENIC PARAMETERS AND MAN AND AND AND AND AND AND AND AND AND A	ater and fish consumption	- Freshwater Aquatic Life Continuous Con			87	0.	U10								000
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Seminary Association (1977)  **Seminary Association (1978)  **					•	· 0.	004	.		0.0	02				* *
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Seminary					.4										
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Seminary	RAMENTO R A HAMILTON CITY		2/6/17 13:00	136	1020	1.16	1.67	<0.1	<0.1	0.52	3.85	, i'\a			1
INTERIOR SECTION 1979 1979 1979 1979 1979 1979 1979 197	RAMENTO R A HAMILTON CITY RAMENTO R A HAMILTON CITY		11/7/16 11:00	35.3	78	1.97	2.1	<0.1	<0.1	0.41	0.5	1.06	1.29	29.3	
Section   Sect	RAMENTO R A HAMILTON CITY														
Seminary	RAMENTO R A HAMILTON CITY		2/3/16 12:10	39.7	352	1.26	1.49	<0.1	<0.1						
Seminary	RAMENTO R A HAMILTON CITY RAMENTO R A HAMILTON CITY						K						0.94	2.3.6	
Seminary	RAMENTO R A HAMILTON CITY		5/11/15 10:00	21.9	42.4										
SAMPLE OR ALL MAN AND COLOR 12 (1976) 1989 (1976) 1987 (1976) 1989	RAMENTO R A HAMILTON CITY		2/10/15 9:30	21.2	1960	1	2.14	<0.1	<0.1	0.33	5.3	1.96	8		7
SPAINTER  SEMPLE 1000  1127/061919 A MANUSCHICK  1127/061919 A MANUSCH	RAMENTO R A HAMILTON CITY											. 4			
SPANNER  3. SPANNER  3. SPANNER  3. SPANNER  3. SPANNER  4. SPANNE	RAMENTO R A HAMILTON CITY		5/6/14 8:30	4.3	37.2	2.36	2.5	<0.1							
Seminary								<0.1	<0.1	0.52	1.31	0.72	0.85	6.2	
Seminary	RAMENTO R A HAMILTON CITY														
Semble   S			5/7/13 8:05	19.2	29.5	1.74	1.77	<0.1	<0.1	0.53	0.53	1.07			
Seminary													1.32	8.2	
Seminary	AMENTO R A HAMILTON CITY		8/7/12 8:00	10	28.6										
Service   Serv											0.45	1.6	1.62	74.9	
**************************************	AMENTO R A HAMILTON CITY														
**************************************					159	1.41	1.45	<0.1	<0.1	0.65	0.76	1.11	1.36	87.6	
Service Service   Service															
SAMPHONE   Sample Date   Mpf	AMENTO R A HAMILTON CITY		11/2/10 8:30	4.63	67.4	1.97	2.06	<0.1	<0.1	0.66	1.27	1.35	1.58		
Sample Date   Mark   Mg/L   Mg									<0.1	0.47	0.58	1.29	1.35	10.4	
200   Alamem   Sample Date															
Sample   Sample Date	AMENTO R A HAMILTON CITY		11/3/09 7:50	2.94	47	1.87	1.94	<0.1	<0.1	0.38					6
MARINTO A HAMMITON CITY  11/25/09-310 NA  12/8 NA  13/8					***************************************										
100 Alument   Sample Date   Mg/L   M	AMENTO R A HAMILTON CITY		2/24/09 10:40	51.1	3110										
Sample Date   Mp/L					95.6	2.06	2.17	<0.1	<0.1	0.31	0.51	1.49	1.95	16.4	
Sample Date    Sample Date   Mpf.   M						A STATE OF THE PARTY OF THE PARTY.						0.96			
Sample Date   Ng/L   Ng	AMENTO R A HAMILTON CITY		2/20/08 12:15	5.62	85.8	2.04	2.27	<0.1							
Sample Date   Name   Sample Date   Ng/L				·		1.96	2.06	<0.1	<0.1	G.4	0.41	0.64	0.75	<0.1	
SAMPS   SAMPS   SAMPS   DETA   Mg/L															
SAMERIC   MARKETOR A HAMILTON CITY   11/25/03 19.0   N/A   12.8   N/A   19.3   N/A   C.0.05   N/A   O.6.1   N/A   1.78   N/A	AMENTO R A HAMILTON CITY		7/18/07 7:00	10.8	114	1.62	1.69	<0.1	<0.1						
SAMERIC R A HAMILTON CITY   1172/03 1970   N/A   128   N/A   193   N/A   4,005   N/A   0,16   N/A   178   N/A	** *** * ****** ***** *** *** **** *****							<0.1	<0.1	0.52	0.75	1.07	1.39	11.4	
SAMENTO RA HAMILTON CITY   11/25/09 310   N/A   12.8   N/A   1.93   N/A   0.005   N/A   0.06   N/A   1.78   N/A															
SAMENIC R. HAMILTON CITY   11/25/03-910.   N/A   12.8   N/A   19.3   N/A   0.005   N/A   0.61   N/A   1.8   N/A	AMENTO R A HAMILTON CITY	75.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.	3/20/07 6:50	16.1	91.6	2.17									
DRIADNE  Sample Date  JUZ/SA9-10 NA  1/12/SA9-10 NA  1/12/SA9								<0.1	<0.1	1.81	1.91	2.99	3.9	591	
Sample   Sample Oate   µg/L															
ON NAME  AMEMITOR A HAMILITON CITY  11/25/03 9:10 N/A 12.8 N/A 13.9 N/A 2.005 N/A 0.61 N/A 1.78 N/A  AMEMITOR A HAMILITON CITY  3/8/04 13:00 N/A	RAMENTO R A HAMILTON CITY		10/24/06 7:00	36.8	201	0.859	1.37	<0.1	<0.1	0.56	0.83	0.75	1.47		
SAMPLE OR A HAMILTON CITY  11/12/50/39-10.0 N/A  12/12/50/39-10.0		,												814	
Sample On Name  Sample Date  J1/25/03 9:10  N/A  12.8  N/A  1.93  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	RAMENTO R A HAMILTON CITY		540,500,000												
SAMENTO RA HAMILTON CITY 11/25/03 9:10 N/A 12.8 N/A 1.93 N/A <0.005 N/A 0.61 N/A 1.78 N/A	RAMENTO R A HAMILTON CITY		6/27/06 6:30	200	398	1.27	1.4	<0.1	<0.1	0.74	1,26	1.09	1.49	38.8	
Sample Date   mg/L	RAMENTO R A HAMILTON CITY				2										
Sample Date   Mg/L	RAMENTO R A HAMILTON CITY		3/1/06 7:30	2887		1.36									
Sample   Date   Mg/L									0.029	1.18	2.34	1.12	2,55	139	
Sample Date   Mg/L   Mg															ı.
Sample   Data   Name   Sample Date   Mg/L			12/14/05 11:45	6.67	36.7	1.94	2.1	<0.005	0.008	0.79	0.89	0.81	0.84	2.6	
Sample Date   Mg/L   Mg	and the second section of the Section Control								5 1994 a Wester of the Co.						
Sample   Sample Date   Mg/L			9/27/05 10:00	27.7	98.8	1.41	1.43	0.007	0.011	0.54	0.64	0.85	3.14		
Sample Date   Hg/L   Hg	and the state of t								Approximate the second			000.00			
Sample   Sample Date   Mg/L	AMENTO R A HAMILTON CITY		6/28/05 7:15	106	121	1.37	1.58								
Sample Date   Mg/L   Mg															
Sample   Sample Date   Mg/L	AMENTO R A HAMILTON CITY														
Sample Date   Mg/L									<0.066	1.67	1.88	1.53	1.73	71.5	
ON Name   Sample Date   µg/L															
on Name         Sample Date         µg/L			11/9/04 11:40	23.6	36.1	2.49	2.52	<0.008							
On Name Sample Date µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L															
on Name Sample Date μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	RAMENTO R A HAMILTON CITY		5/20/04 15:00	N/A	110	N/A									
on Name Sample Date			3/8/04 13:00	N/A		A speking At the contract was					N/A	N/A	N/Λ	N/A	
			11/25/03 9:10	N/A		· N/A						19725	3.713	1477	

able 3. Sacramento River at Hamilton City, Part 2 of 2		Dissolved	Total	Dissolved	Total	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	То
		Lead	Lead	Manganese		Mercury	Nickel	Nickel	Selenium	Selenium	Silver	Silver	Zinc	Zi
dien Name	Sample Date	μg/L	μg/L	μg/L	μg/L	ng/L	µg/L	μg/L 1.26	μg/L N/A	μg/L <0.061	μg/L N/A	μg/L <0.012	μg/L N/A	μ <sub>4</sub>
PRAMENTO RIA HAMILTON CITY  PRAMENTO RIA HAMILTON CITY	11/25/03 9:10 3/8/04 13:00	N/A N/A	0.118 N/A	N/A N/A	1.61 '	N/A N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
RAMENTO R A HAMILTON CITY	5/20/04 15:00	N/A	0.027	N/A	6.14	N/A	N/A	1.31	N/A	0.12	N/A	<0.034	N/A	1
RAMENTO R A HAMILTON CITY	8/12/04 10:20	N/A	0.08	N/A	6.88	N/A	N/A	1.84	N/A	0.28	N/A	<0.145	N/A	. 2
RAMENTO R A HAMILTON CITY	10/5/04 10:05	0.018	0.067	1.13	6.34	N/A	1.25	1.62	<0.144	<0.204	<0.077	<0.054	0.48	1
A CONTROL OF THE PROPERTY OF T	11/9/04 11:40	0.004	0.024	1.55	5.42	N/A	1.11	1.33 0.59	<0.149 <0.163	0.25 0.28	<0.006	<0.063	0.52 0.35	(
BAMENTO R A HAMILTON CITY	12/7/04 10:40	<0.01 0.064	0.011	0.2 2.22	1.8 12.4	N/A N/A	0.57 1.39	1.98	0.3	0.34	<0.003	<0.002	1.54	`
RAMENTO R A HAMILTON CITY	1/10/05 12:15 2/2/05 7:35	0.029	0.084	2.54	10.6	N/A	1.02	1.53	<0.222	0.27	0.002	0.003	0.95	
RAMENTO R A HAMILTON CITY RAMENTO R A HAMILTON CITY	3/10/05 7:30	0.008	0.049	0.98	6.37	N/A	0.87	1.24	<0.245	<0.19	<0.001	< 0.036	0.36	
RAMENTO R A HAMILTON CITY	4/20/05 12:00	0.01	0.023	3.12	6.03	N/A	0.76	0.94	0.14	0.35	<0.003	<0.005	0.41	
RAMENTO BIA HADALTON CITY	5/19/05 9:30	0.202	3.24	7.33	272	N/A	2.75	30.7	<0.399	< 0.317	0.018	0.041	2.46	
RAMENTO RIA HAMILION CITY	6/28/05 7:15	<0.009	<0.027	4.71	5.17	N/A	0.95	1.41	<0.14	<0.354	<0.002	<0.027	0.8	
RAMENTO R A HAMILION CITY	7/26/05 12:45	<0.019	<0.063	0.16	2.07	N/A	0.85	0.95	<0.145	<0.176	<0.002	<0.04 <0.001	0.36	
RAMENTO R A HAMBLION CITY	8/23/05 11:20	<0.004	0.048	0.58	3.38	N/A	0.81	1.16	<0.227 0.23	0.29 0.23	<0.001 <0.003	<0.001	0.38	
RAMENTO R A HAMILTON CITY	9/27/05 10:00 10/25/05 12:40	<0.004 0.011	0.047	0.51	4.61 2.88	N/A N/A	1.13	1.22	0.11	0.23	<0.002	<0.002	0.52	
	11/15/05 11:00	0.04	0.047	0.98	4.81	N/A	1.02	1.24	<0.186	<0.186	<0.009	<0.009	0.56	
	12/14/05 11:45	0.003	0.023	0.53	4.17	N/A	0.9	1.09	<0.149	0.15	<0.001	<0.001	0.5	
RAMENTO R A HAMILTON CITY	1/4/06 7:30	0.191	1.89	9.75	134	N/A	2.67	15.4	<0.149	0.22	<0.001	0.021	2.24	
RAMENTO RIA HAM!LTON CITY	1/24/06 7:30	0.062	0.306	9.24	32.4	N/A	1.68	3.32	<0.186	0.19	<0.005	<0.005	1.55	-
CRAMENTO R A HAMILTON CITY	2/21/06 12:45	0.046	0.299	5.83	27.5	N/A	1.53	3.32	<0.149	0.3	<0.009	<0.009	1	
ERAMENTO R A HAMILTON CITY	3/1/06 7:30	0.648	2.04	23.2	146	N/A	4.69	15.7	<0.149	0.29	<0.009	<0.009	5.79 2.57	
RAMENTO R A HAMILTON CITY	4/17/06 6:00	0.188	1.01	9.56	70.9 10.1	N/A N/A	1.12	8.02 1.46	0.23 <0.2	0.27 <0.2	<0.03	<0.03	0.67	
RAMENTO RA HAMILTON CITY	5/17/06 6:40	<0.04 <0.04	0.1	2.1 0.69	8.87	N/A	1.29	1.87	<0.2	<0.2	<0.03	0.063	0.41	
CRANCISTO R 4 HAS RETON CITY	6/27/06 6:30 7/25/06 5:40	<0.04	0.094	1.01	9.35	1.8	1.7	2.5	<0.2	<0.2	<0.03	< 0.03	0.77	
CHAMENTO R A HAMILTON CITY CRAMENTO R A HAMILTON CITY	8/22/06 6:40	<0.04	0.077	1.6	7.18	0.89	1.7	2.33	0.25	0.26	<0.03	<0.03	1.02	
CRAMENTO RA HAMILTON CITY	9/20/06 6:30	<0.04	0.111	2.01	14.2	1.5	1.67	2.76	0.23	0.26	<0.03	<0.03	0.65	
CRAMENTO R A HAMILTON CITY	10/24/06 7:00	<0.04	0.078	0.87	9.44	0.28	1.01	2.02	0.25	0.28	<0.03	<0.03	0.16	
CRAMENTO R A HAMILTON CITY	12/12/06 6:40	<0.04	0.186	1.04	16.9	0.72	0.96	1.75	0.25	0.29	<0.03	<0.03	0.55	
CRAMENTO R A HAMILTON CITY	1/9/07 7:15	<0.04	<0.04	2.22	5.24	0.68	1.01	1.08	<0.2	<0.2	<0.03	<0.03	0.64	
CRAMENTO R A HAMILTON CITY	2/26/07 14:00	0.262	0.581	10.3	28.8	2.8	2.22	2.99	<0.2	0.23	<0.03	<0.03	3.68	
CRAMENTO R A HAMILTON CITY	3/20/07 6:50	<0.04	0.056	2.01	8.22	1.6	0.85	1.22	<0.2 0.24	<0.2	<0.03	< 0.03	0.31	
CRAMENTO R A HAMILTON CITY	4/17/07 7:30	<0.04 <0.04	<0.04 0.044	0.36	8.78 5.99	1 N/A	0.8	0.9	<0.2	0.33	<0.03	< 0.03	0.55	
RAMENTO RIA HAMILTON CITY  RAMENTO RIA HAMILTON CITY	5/29/07 12:15 6/26/07 12:30	<0.04	0.066	2.52	7.29	0.59	0.9	1.12	<0.2	0.21	<0.03	<0.03	0.73	
CRAMENTO R A HAMILTON CITY	7/18/07 7:00	<0.04	0.000	0.21	7.42	1.3	0.88	1.27	<0.2	<0.2	<0.03	<0.03	0.3	
CRAMENTO RIA HAMILTON CITY	8/28/07 7:05	<0.04	<0.04	0.46	5.33	N/A	1.07	1.22	<0.2	<0.2	<0.03	<0.03	2	
CIRAMENTO RIA HAMILTON CITY	9/13/07 7:55	< 0.04	0.055	0.33	4.66	1.7	0.89	1.02	<0.2	<0.2	<0.03	2.11	0.36	
E4MENTO R A HAMILTON CITY	11/7/07 10:30	<0.04	<0.04	0.08	3.01	0.32	0.58	0.82	<0.2	<0,2	<0.03	<0.03	0.17	
BAMENTO R A MAMILTON CITY	2/20/08 12:15	<0.04	0.041	0.7	8.15	N/A	0.88	0.95	<0.2	0.22	<0.03	<0.03	0.71	
PRAMENTO R A HAMILTON CITY	5/6/08 13:05	<0.04	0.061	0.27	8.38	N/A	. 1	1.12	<0.2	<0.2	<0.03	<0.03	0.22	
CRAMENTO R A HAMILTON CITY	8/6/08 9:40	<0.04	0.044	0.39	4.98	N/A	1.04	1.2	<0.2	: <0.2	<0.03	<0.03	0.45	
CRAMENTO R A HAMILTON CITY	11/5/08 7:20	<0.04	0.09	0.35	10.4	N/A	1.22	1.6	<0.2	<0.2 0.25	<0.03	<0.03	0.93	
CRAMENTO R A HAMILTON CITY	2/24/09 10:40	<0.04	1.47 0.289	1.28 0.53	10 <b>1</b> 17.7	N/A N/A	2.59 0.85	1.76	<0.2	<0.2	<0.03	<0.03	1.07	
CRAMENTO R A HAMILTON CITY CRAMENTO R A HAMILTON CITY	5/5/09 8:50 8/11/09 8:40	<0.04 <0.04	<0.04	0.22	2.36	N/A	0.74	0.84	<0.2	<0.2	<0.03	<0.03	0.45	
CRAMENTO RA HAMILTON CITY	11/3/09 7:50	<0.04	0.071	0.38	7.29	N/A	0.74	0.93	<0.2	<0.2	<0.03	<0.03	0.65	
CRAMENTO R'A HAMILTON CITY	2/2/10 8:45	<0.04	0.188	1.01	17.1	N/A	1.78	2.08	<0.2	<0.2	< 0.03	<0.03	1.39	
CRAMENTO R A HAMILTON CITY	5/4/10 7:45	<0.04	0.11	0.52	14	N/A	0.79	1.32	<0.2	<0.2	<0.03	<0.03	0.62	
CPAINENTO RIA HAMILTON CITY	8/3/10 11:00	<0.04	<0.04	0.62	4.15	N/A	0.85	1.11	<0.2	<0.2	<0.03	<0.03	0.62	
CRAINENTO RA HAMILTON CITY	11/2/10 8:30	<0.04	0.09	0.73	12.5	N/A	1.34	1.82	<0.2	0.228	<0.03	<0.03	2.32	
CRAMENTO RIA HAMILTON CITY	2/1/11 9:30	<0.04	<0.04	0.67	6.4	N/A	0.71	0.9	<0.2	<0.2	<0.03	<0.03	0.76	
CRAMENTO R A HAMILTON CITY	5/3/11 8:55	<0.04	<0.04	0.49	5.05	N/A	0.6	0.65	<0.2	<0.2 <0.2	<0.03	<0.03	0.28	
CRAMENTO R A HAMILTON CITY	8/2/11 8:10	<0.04	0.061 <0.04	1.47 1.44	6.38 4.4	N/A N/A	1.1 1.37	1.37	<0.2 <0.2	<0.2	<0.03	<0.03	0.59	
CRAMENTO R A HAMILTON CITY CRAMENTO R A HAMILTON CITY	11/1/11 8:45	<0.04	<0.04	1.87	9.58	N/A	0.68	1.11	<0.2	<0.2	<0.03	<0.03	1.17	
CRAMENTO R A HAMILTON CITY	5/8/12 8:30	<0.04	<0.04	5.73	7.97	N/A	0.68	0.79	<0.2	<0.2	<0.03	< 0.03	0.48	
CRAMENTO R A HAME TON CITY	8/7/12 8:00	<0.04	<0.04	0.41	2.81	0.8	0.79	1.36	<0.2	<0.2	< 0.03	<0.03	0.41	
CRAMENTO R A HAMILTON CITY	11/6/12 9:35	<0.04	<0.04	2.19	3.12	3.4	0.96	1.08	<0.2	<0.2	<0.03	< 0.03	0.67	
CRAMENTO R A HAMILTON CITY	2/6/13 9:15	<0.04	<0.04	0.35	5.45	1.3	0.44	0.65	<0.2	<0.2	<0.03	<0.03	0.93	
CRAMENTO R A HAMILTON CITY	5/7/13 8:05	<0.04	<0.04	1.2	3.14	0.9	0.85	1.03	<0.2	<0.2	<0.03	<0.03	0.52	
CRAMENTO R A HAMILTON CITY	8/6/13 7:30	<0.04	<0.04	0.12	2.4	0.6	1.27	1.63	<0.2	<0.2	<0.03	<0.03	<0.1	
CRAMENTO R 3 HAMILTON CITY	11/5/13 9:10	<0.04	<0.04	0.58	3.53	<0.5	0.6	0.89	<0.2	<0.2	<0.03	<0.03	0.45 0.21	
CRAMENTO R A HANILTON CTY	2/4/14 9:05	<0.04	<0.04	0.35	2.17 6.62	0.8 2.5	0.54	0.69 0.7	<0.2 <0.2	0.21 <0.2	<0.03 <0.03	<0.03	0.21	
CRAMENTO RIA HAMILTON CITY CRAMENTO RIA HAMILTON CITY	5/6/14 8:30 8/12/14 9:50	<0.04 <0.04	<0.04	0.74	2.82	2.5 N/A	0.76	0.84	<0.2	<0.2	<0.03	<0.03	0.37	
CRAMENTO RIA HAMELTON CITY	11/5/14 8:50	<0.04	0.173	0.79	9.25	N/A	1.58	7.22	<0.2	<0.2	<0.03	<0.03	0.37	
CRAMENTO R A HAMBLTON CITY	2/10/15 9:30	<0.04	1.52	0.96	59.6	29.1	1.36	6.88	0.26	0.31	<0.03	0.037	0.38	
CRAMENTO RIA HAMILTON CITY	5/11/15 10:00	<0.04	0.048	1.15	6.15	1.1	0.92	1.27	<0.2	<0.2	<0.03	<0.03	0.62	
CRAMENTO R A HAMILTON CITY	8/11/15 10:20	<0.04	<0.04	0.91	3.21	4.4	0.88	1.36	0.34	0.35	<0.03	<0.03	<0.1	
CRAMENTO R A HAMILTON CITY	11/4/15 11:27	<0.04	<0.04	1.16	2.67	<0.5	0.66	0.92	<0.2	<0.2	<0.03	<0.03	0.5	
CRAMENTO R A HAMILTON CITY	2/3/16 12:10	<0.04	0.204	0.62	17.7	3.5	1.26	2.47	0.21	0.28	<0.03	<0.03	0.75	
CRAMENTO R A HAMILTON CITY	5/9/16 12:15	<0.04	0.194	2.28	16.8	N/A	1.05	1.78	<0.2 <0.2	<0.2 0.21	<0.03 <0.03	<0.03	0.49	
CRAMENTO R A HAMILTON CITY	8/8/16 8:15 11/7/16 11:00	<0.04	0.046 <0.04	0.24	4.35 2.91	N/A N/A	1.29	1.63 1.46	<0.2	<0.2	<0.03	<0.03	0.75	
CRAMENTO RIA HAMILTON CITY  CRAMENTO RIA HAMILTON CITY	2/6/17 13:00	<0.04	0.945	3.35	43	N/A	1.08	5.36	0.36	0.37	<0.03	<0.03	0.86	
and the second s	-,-,-,-,-,,		:: <b></b> .	i			1		1		į.,,		- 5	
	Maximum	0.648	3.24	23.2	272	29.1	4.69	30.7	0.36	0.37	0.018	2.11	5.79	
	Mediam	0.043	0.0795	0.97	6.4	1.2	0.995	1.32	0.24	0.26	0.01	0.039	0.575	
	Minimum	0.003	0.011	0.08	1.61	0.28	0.44	0.59	0.11	0.12	0.002	0.003	0.16	
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RCB Basin Plan Drinking Water Standards - Primary MCL		4	ļ	·	i0		i			1				
RCB Busin Plan - Drinking Water Standards - Secondary MCL			0.2				1	2	·	1	·		r	
EPA/OEHHA - California Public Health Goal PA Secondary MCL				1	and a superior of the second	}	}		i jir oʻr samaatiin T	eg meneromana badan	i i i i i i i i i i i i i i i i i i i			
EPA - One in a million incremental cancer risk estimate for drinking water		0	.i				· i				· · · · · · · · · · · · · · · · · · ·		:	
PA Health Advisory for drinking water										1				
EPA IRIS Reference Cose Drinking Water Health Advisories			t			 	i						1	
Ifornia Proposition 65 Safe Harbor Level - Max. Allowable dose level for		g man navn - w	a garage and the test tests to a				1	and the second second second		[			1	
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Riornia Toxics Rule Sources of Drinking Water			ļ			0.05	ļ		ļ	ļ			4	
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ional Academy of Sciences Orinking Water Health Advisories					60									

able 4. Sacramento River op Moulton Weir, Part 1 c	·	Dissolved Aluminum	Total Aluminum	Dissolved Arsenic	Total Arsenic	Dissolved Cadmium	Total Cadmium	Dissolved Chromium	Total Chromium	Dissolved Copper	L Total Copper	Dissolved Iron	To ire
ation Name	Sample Date	μg/L	μg/l	μg/L	μg/L	μg/t.	μg/L	µg/L	μg/L	μg/l	µg/L	μg/L	ия
ACRAMENTO R OPP MOULTON WR	5/14/03 14:15	22.6	584	1.46	1.67	0.01	0.078	1.34	2.25	0.93	3.17	4.1	81
ACRAMENTO R OPP MOULTON WR	6/10/03 9:00	15.8	180	1.83	1.88	<0.031	< 0.031	0.84	0.91	0.71	1.52	<2.08	2.
ACRAMENTO R OPP MOULTON WR	7/10/03 10:40	36.4	116 215	1.58 1.45	1.69 1.5	<0.031	<0.009 <0.049	0.65	0.83	1.29 0.79	1.45	17.1 <2.45	1:31
ACRAMENTO R OPP MOULTON WR ACRAMENTO R OPP MOULTON WR	9/3/03 11:45 9/3/03 12:30	4.42 5.91	304	1.43	1.51	<0.01	<0.01	0.73	1.02	1.23	2.24	3.1	47
ACRAMENTO R OPP MOULTON WR	10/8/03 12:40	33.5	117	0.879	1.3	<0.011	0.009	0.17	0.78	0.97	1.32	25.1	4
ACRAMENTO R OPP MOULTON WR	11/5/03 11:00	64	131	1.47	1.63	<0.02	<0.004	< 0.209	1.9	1.06	1.59	. 61.6	20
ACRAMENTO R OPP MOULTON WR	12/8/03 10:45	1193	3448	1.63	2.84	0.019	0.175	2.23 1.04	9.75	4.25 2.21	7.12	852 193	56 21
ACRAMENTO R OPP MOULTON WR	1/6/04 9:30 2/4/04 12:20	262 1614	1248 1950	1.73	2.13 1.44	<0.008 <0.011	0.045	2.17	5.11	3.82	8.17	1062	27
ACRAMENTO R OPP MOULTON WR ACRAMENTO R OPP MOULTON WR	2/17/04 12:00	2521	8733	1.59	2.8	<0.015	0.232	9.17	24.8	7.64	27.7	2035	130
ACRAMENTO R OPP MOULTON WR	3/8/04 11:40	184	1478	1.44	1.83	0.011	0.053	0.8	4.63	1.93	6.89	135	21
ACRAMENTO R OPP MOULTON WR	4/7/04 9:45	26.9	160	1.61	1.74	0.009	0.013	0.54	1.16	1.46	1.99	16.6	23
ACRAMENTO R OPP MOULTON WR	5/5/04 11:00	6.14	289 302	1.77	1.83 1.84	0.004 0.011	0.027	0.74	1.3 1.53	0.78	2.83	<3.73 : 123	35 34
ACRAMENTO R OPP MOULTON WR ACRAMENTO R OPP MOULTON WR	6/9/04 10:00 7/29/04 10:40	185 100	155	1.75	1.43	0.005	0.013	0.63	0.91	1.06	1.74	52.7	1.6
ACRAMENTO R OPP MOULTON WR	10/5/04 11:00	14.3	89	1.22	1.34	<0.011	<0.008	0.8	0.94	0.73	1.28	9.8	1.5
ACRAMENTO R OPP MOULTON WR	11/9/04 13:00	20	76.2	2.34	2.4	<0.008	<0.007	0.9	0.93	0.89	1.38	14.5	9/9
ACRAMENTO R OPP MOULTON WR	12/7/04 10:20	3.4	82.6	2.25	2.27	<0.012	<0.034	1.86	1.93	0.89	1.07	<4.5	3.3
ACRAMENTO R OPP MOULTON WR	1/10/05 11:00	459	1259	1.36	1.6	<0.011	<0.007	1.81	3.91	2.41	3.21	304 143	1.7 83
ACRAMENTO R OPP MOULTON WR	2/2/05 12:25	170 10.2	582 133	1.51 1.91	1.58	<0.011 <0.033	<0.066	2.02 1.52	2,95 1.74	1.7	1.62	13	2
ACRAMENTO R OPP MOULTON WR ACRAMENTO R OPP MOULTON WR	3/10/05 14:45 4/20/05 10:50	20.7	130	1.97	2.07	<0.022	<0.009	1.08	1.32	1.16	1.48	13.4	3
ACRAMENTO R OPP MOULTON WR	5/19/05 11:15	314	5936	1.34	3.07	<0.058	0.138	1.37	18	1.81	20.9	196	9.1
ACRAMENTO R OPP MOULTON WR	6/28/05 15:05	103	126	1.42	1.65	<0.009	<0.012	0.62	1.1	1.32	1.34	96.3	,1-
ACRAMENTO R OPP MOULTON WR	7/26/05 11:00	7.14	197	1.45	1.46	0.007	0.014	0.48	0.98	0.93	1.42	<3.27	2
ACRAMENTO R OPP MOULTON WR	8/23/05 9:30	8.08	84.1	1.52	1.57	<0.009	<0.009	0.5	0.59 1.31	0.89	1.08 1.16	<4.16 10.6	.1
ACRAMENTO R OPP MOULTON WR	9/28/05 8:30	17.3 21.8	82.5 190	1.41	1.46	0.007	0.017	0 57	1.08	1.06	1.59	13.8	2
ACRAMENTO R OPP MOULTON WR ACRAMENTO R OPP MOULTON WR	10/25/05 10:30 11/14/05 12:00	· <del>}</del>	297	1.93	2.16	0.013	0.033	0.79	1.35	1.22	2.24	15.8	4
ACRAMENTO R OPP MOULTON WR	12/14/05 11:40		71.4	1.84	2.04	0.01	0.017	0.77	1.03	0.92	1.24	5.2	1
ACRAMENTO R OPP MOULTON WR		2779	4845	1.84	2.53	0.024	0.096	6.91	14.1	5.21	14.3	1620	66
ACRAMENTO R OPP MOULTON WR	1/24/06 13:10		1419	1.45	1.85	0.013	0.062	1.53	4.53	1.77	5.63	283 176	26
ACRAMENTO R OPP MOULTON WR	2/22/06 11:40	263	848 6137	1.37	1.68	0.018	0.05 0.105	1 76 6.51	2.94 13.4	1.15 5.76	3.79 14.6	2579	71
ACRAMENTO R OPP MOULTON WR ACRAMENTO R OPP MOULTON WR	3/1/06 12:10 4/17/06 11:10	4357 1232	6132 2222	1.06	1.56	<0.1	<0.1	2.25	5.68	2.73	7.09	782	2
ACRAMENTO R OPP MOULTON WR	5/17/06 11:35	129	511	1.48	1.64	<0.1	<0.1	0.81	1.24	1.18	2.32	98.3	6
CRAMENTO R OPP MOULTON WR	6/27/06 10:25	47.7	677	1.37	1.67	< 0.1	<0.1	1.22	2.05	1.04	1.78	9.9	3
ACRAMENTO R OPP MOULTON WR	7/26/06 8:20	228	793	1.28	1.38	<0.1	<0.1	0.5	1.39	1.22	2.1	60.9	4
ACRAMENTO R OPP MOULTON WR	8/22/06 10:50	157	272	1.1	1.16	<0.1	<0.1	0.61	0.93	1.11	1.44	111	2
ACRAMENTO R OPP MOULTON WR	9/20/06 11:35	351	633	1.06	1.15	<0.1 <0.1	<0.1 <0.1	0.55	1.23	1.07 1.29	1.6	56.5 58.7	2
CRAMENTO R OPP MOULTON WR	10/24/06 12:15 12/12/06 12:35		226 1584	1.23	2.74	<0.1	<0.1	0.49	3.25	1.44	2.86	133	
CRAMENTO R OPP MOULTON WR CRAMENTO R OPP MOULTON WR	1/9/07 13:00	81.8	284	1.93	2.11	<0.1	<0.1	1.66	1.74	1.02	1.4	55.9	- 2
CRAMENTO R OPP MOULTON WR	2/27/07 10:00		524	1.27	1.38	<0.1	<0.1	1.91	2.02	2.93	3.62	464	٤
CRAMENTO R OPP MOULTON WR	3/20/07 11:15	17.6	96.9	2.13	2.36	<0.1	<0.1	0.49	0.72	1.18	1.59	26.2	3
CRAMENTO R OPP MOULTON WR	4/18/07 10:15	16.6	105	1.9	1.98	<0.1	<0.1	0.45	0.76	1.53	2.13	15.1	3
ACRAMENTO R OPP MOULTON WR	5/30/07 9:00	3.42	99.8	2.07	2.22	<0.1	<0.1	0.5	0.94	1.28 1.09	2.09	4.7 15 a	3
ACRAMENTO R OPP MOULTON WR	6/27/07 8:00 7/19/07 10:05	5.35 6.46	110	1.66 1.77	1.75	<0.1 <0.1	<0.1 <0.1	0.47	0.86	1.02	1.49	4.4	1
ACRAMENTO R OPP MOULTON WR ACRAMENTO R OPP MOULTON WR	8/28/07 10:40	1.04	34.3	1.69	1.72	<0.1	<0.1	0.42	0.59	0.86	1.01	2.7	. 5
ACRAMENTO R OPP MOULTON WR	9/13/07 11:40	2.77	33.8	1.44	1.61	<0.1	<0.1	0.46	0.57	0.81	88.0	5.4	4
ACRAMENTO R OPP MOULTON WR	10/31/07 10:55		41.1	2.18	2.23	<0.1	<0.1	0.4	0.59	0.81	1.13	9.1	1
ACRAMENTO R OPP MOULTON WR	11/27/07 11:50		27.8	2.27	2.44	<0.1 <0.1	<0.1 <0.1	0.48	0.54 1.47	0.78 1.12	0.9	7.3 5.2	6
ACRAMENTO R OPP MOULTON WR	1/23/08 12:40 2/27/08 10:50	3.9 10.4	218 1710	2.63 1.06	2.75 1.73	<0.1	<0.1	0.41	6.45	2.06	6.7	20.4	i
ACRAMENTO R OPP MOULTON WR ACRAMENTO R OPP MOULTON WR	3/26/08 10:10	2	56.4	2.27	2.36	<0.1	<0.1	0.42	0.73	1.26	1.61	4.9	
ACRAMENTO R OPP MOULTON WR	4/23/08 10:30		121	2.14	2.2	<0.1	<0.1	0.43	88.0	1.35	1.95	.5	-
ACRAMENTO R OPP MOULTON WR	7/24/08 11:15	2.02	62.8	1.65	1.78	<0.1	<0.1	0.41	0.6	1.07	1.25	5.1	5
CRAMENTO R OPP MOULTON WR	4/22/09 11:10		66.2	2.14	2.29	<0.1	<0.1	0.38	0.58	1.67	2,11	10.1	
ACRAMENTO R OPP MOULTON WR	5/28/09 12:15	2.79	86.6	1.89	1.97	<0.1 <0.1	<0.1 <0.1	0.35	0.57	1.81 1.37	1.96 1.7	8.6 5.3	
ACRAMENTO R OPP MOULTON WR ACRAMENTO R OPP MOULTON WR	6/25/09 9:25 7/28/09 10:30	3.27	101	1.43	1.52 1.53	<0.1	<0.1	0.45	0.69	1.07	1.5	11.8	
ACRAMENTO R OPP MOULTON WR ACRAMENTO R OPP MOULTON WR	8/27/09 9:30	1.66	30.7	1.19	1.24	<0.1	<0.1	0.35	0.46	0.88	1.06	3	3
ACRAMENTO R OPP MOULTON WR	9/24/09 9:50	2.09	35.9	1.34	1.36	<0.1	<0.1	0.34	0.45	0.96	1.05	4.3	4
ACRAMENTO R OPP MOULTON WR	10/27/09 11:40	5.31	98.5	1.76	1.85	<0.1	<0.1	0.39	0.4	1.04	1.5	17.1	-
ACRAMENTO R OPP MOULTON WR	11/18/09 11:30		60	1.94	2.14	<0.1	<0.1	0.4	0.7	0.98	1.45	8	t
ACRAMENTO R OPP MOULTON WR	12/9/09 8:15 1/26/10 8:45	1.73	25.8 3953	2.53 1.3	2.64	<0.1 <0.1	<0.1 0.144	0.45	0.53	0.92 3.45	20.2	3.1 114	4
ACRAMENTO R OPP MOULTON WR	3/2/10 13:15	87.7 13.9	793	1.15	1.51	<0.1	<0.1	0.39	3.19	1.56	4.3	29.5	3
CRAMENTO R OPP MOULTON WR	3/24/10 7:10	1.83	54.6	1.72	1.76	<0.1	<0.1	0.53	0.65	0.95	1.29	5.6	9
CRAMENTO R OPP MOULTON WR	4/21/10 7:00	3.67	780	1.45	1.69	<0.1	<0.1	0.46	3.47	1.43	3.93	8.3	1
CRAMENTO R OPP MOULTON WR	5/26/10 7:00	3.46	49.6	1.2	1.26	<0.1	<0.1	0.4	0.54	1.61	1.75	1.4	
ACRAMENTO R OPP MOULTON WR	6/30/10 7:00	6.01	52.4	1.28	1.46 1.45	<0.1 <0.1	<0.1 <0.1	0.35	0.51 0.56	1.17	1.46	5.5	7
CRAMENTO R OPP MOULTON WR	8/31/10 10:10	3.8 6.25	29 34.7	1.4	1.24	<0.1	<0.1	0.27	0.6	1.19	1.26	3.5	
ACRAMENTO R OPP MOULTON WR ACRAMENTO R OPP MOULTON WR	10/26/10 8:00		682	1.55	3.49	<0.1	<0.1	0.42	3.07	1.79	3.95	25.6	
ACRAMENTO R OPP MOULTON WR	11/30/10 8:50	4.11	48.3	1.67	1.89	<0.1	<0.1	0.58	0.73	1.19	1.29	6.9	
ACRAMENTO R OPP MOULTON WR	12/13/10 11:20	2.71	93.3	1.46	1.52	<0.1	<0.1	0 44	0.91	1.21	1.66	9.1	. :
ACRAMENTO R OPP MOULTON WR	1/18/11 10:45	6.13	500	1.48	1.6	<0.1	<0.1	0.47	2.8	1.45	2.27	16.3	
	Maximum	4357	8733	2.63	3.49	0.029	0.232	9.17	24.8	7.64	27.7	2579	1
	Mediam	14.1	148.5	1.505	1.735	0.011	0.041	0.55	1.055	1.185	1.67	15.4	
p	Minimum	0.87	25.8	0.879	1.15	0.004	0.009	0.17	0.45	0.71	0.88	1.4	
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		Dissolved Lead	Total Lead	Dissolved Manganese	Total Manganese	Total Mercury	Dissolved Nickel	Total Nickel	Dissolved Selenium	Total Selenium	Dissolved Silver	Total Silver	Dissolved Zinc	T 2
rior Name	Sample Date	μg/L	μg/L	µg/L	µg/L	ng/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	ŀ
RAMINTO R CPP MOULTON WR	5/14/03 14:15	<0.025	0.299	0.17	20.7	N/A	0.65	3.17	0.11	0.2	<0.025	< 0.273	0.4	
CRAMENTO R OPP MODETON WR	6/10/03 9:00	<0.017	0.068	0.14	7.15	N/A	0.52	1.38	0.18	<0.296	<0.001	< 0.251	0.3	
CRAMENTO R OPP MOULTON WR	7/10/03 10:40	0.012	0.055	2.05 0.48	5.66 9.98	N/A	0.92	1.26 1.8	<0.129 <0.163	0.17 0.21	<0.011	<0.123	0.35	
CRAMENTO R OPP MOULTON WR	8/13/03 11:45	<0.003	0.124		18.6	N/A N/A	1.1	2.29	<0.21	0.21	<0.144	<0.144	0.41	
CRAMENTO R OPP MOULTON WR CRAMENTO R OPP MOULTON WR	9/3/03 12:30 10/8/03 12:40	<0.007 0.028	0.183 0.085	0.1 4.96	9.5	N/A	1.16	1.64	<0.327	<0.162	<0.01	<0.131	0.62	
CRAMENTO R OPP MOULTON WR	11/5/03 11:00	0.029	0.057	6.6	8.03	N/A	1.33	1.61	0.17	0.22	<0.02	<0.04	0.9	
CRAMENTO R OPP MOULTON WR	12/8/03 10:45	0.385	2.93	9.6	218	N/A	3.19	15.7	0.12	0.28	0.037	0.049	10.4	
CRAMENTO R OPP MOULTON WR	1/6/04 9:30	0.085	0.877	4.62	52.9	N/A	1.53	7.62	0.1	<0.248	<0.007	< 0.014	0.9	- 1
CRAMENTO R OPP MOULTON WR	2/4/04 12:20	0.306	1.2	11.3	83.1	N/A	3.16	8.72	0.11	<0.282	<0.015	0.088	4.09	
CRAMENTO R OPP MOULTON WR	2/17/04 12:00	0.677	4.8	31.2	381	N/A	6.92	44.5	<0.121	0.26	< 0.016	0.06	7.53	
CRAMENTO R OPP MOULTON WR	3/8/04 11:40	0.054	0.541	3.02	59.7	N/A	1.28	7.41	0.2	0.31	0.04	<0.065	1.04	
CRAMENTO R OPP MOULTON WR	4/7/04 9:45	<0.022	0.09	2.06	10	N/A	1.14	1.76	<0.112	0.53	0.02	< 0.031	0.5	
CRAMENTO R OPP MOULTON WR	5/5/04 11:00	<0.007	0.13	1.58	12.3	N/A	0.87	2.16	<0.166	0.23	< 0.001	< 0.044	0.19	. 7
( RAMENTO R OPP MOULTON WR	6/9/04 10:00	0.082	0.112	4.82	10.2	N/A	1.3	1.99	<0.121	<0.226	<0.014	<0.081	1.22	- 3
CRAMENTO R OPP MOULTON WR	7/29/04 10:40	0.017	0.059	1.81	4.98	N/A	1.02	1.46	0.15	0.27	<0.008	<0.067	0.47	
CRAMENTO R OPP MOULTON WR	10/5/04 11:00	0.011	0.049	2.04	7.22	N/A	1.16	1.44	< 0.144	<0.204 0.19	<0.077 <0.006	<0.054	0.45	
CRAMENTO R OPP MOULTON WR	11/9/04 13:00	0.008	0.04	1.69	8.14	N/A	1.09	1.24	<0.149	0.19	<0.006	<0.04	0.46	5
CRAMENTO R OPP MOULTON WR	12/7/04 10:20	<0.01	0.054	0.68 2.64	7.19 43.2	N/A N/A	0.61 1.79	0.84 6.19	<0.163 0.31	0.46	0.005	0.01	1.11	
CRAMENTO R OPP MOULTON WR CRAMENTO R OPP MOULTON WR	1/10/05 11:00	0.091	0.404	2.79	23.2	N/A	1.45	4.05	<0.222	0.36	0.002	0.007	0.77	
	2/2/05 12:25 3/10/05 14:45	0.038	0.094	0.78	7.17	N/A	0.83	1.6	<0.245	0.29	<0.001	<0.036	0.24	2
CRAMENTO R OPP MOULTON WR CRAMENTO R OPP MOULTON WR	4/20/05 10:50	0.011	0.079	2.74	10.8	N/A	0.8	1.42	0.25	0.28	<0.003	<0.005	0.56	
CRAMENTO R OPP MOULTON WR	5/19/05 11:15	0.021	3.35	2.73	268	N/A	1.38	31.5	< 0.399	< 0.317	<0.009	0.045	1.14	3
CRAMENTO R OPP MOULTON WR	6/28/05 15:05	<0.009	0.041	4.35	4.85	N/A	0.72	1.18	0.31	0.38	<0.002	<0.027	1	
CRAMENTO R OPP MOULTON WR	7/26/05 11:00	<0.018	0.039	0.63	7.35	N/A	0.69	1.55	<0.222	<0.222	< 0.013	< 0.013	0.55	
CRAMENTO R OPP MODETON WR	8/23/05 9:30	<0.004	0.045	0.66	5.73	N/A	0.69	1.11	<0.227	<0.227	< 0.001	< 0.001	0.14	. (
RAMENTO R OPP MODITON WR	9/28/05 8:30	<0.004	0.048	0.45	4.75	N/A	0.88	1.25	0.18	0.22	< 0.003	<0.003	0.23	
CRAMENTO R OPP MOULTON WR	10/25/05 10:30	0.021	0.114	1.28	10.6	N/A	1.04	1.77	<0.063	0.18	<0.002	<0.002	0.53	
EAMENTO ROPP MOULTON WR	11/14/05 12:00	0.013	0.212	1.27	26.9	N/A	1.04	2.36	<0.186	<0.186	<0.009	<0.009	0.73	
FAMENTO R OPP MOULTON WR	12/14/05 11:40	0.008	0.079	0.68	6.17	N/A	1.05	1.33	<0.149	0.19	<0.001	<0.001	0.66	
RAMENTO R OPP MOULION WR	1/4/06 10:40	0.626	2.64	24.9	164	N/A	5.91	22.2	<0.149	0.15	0.011	0.028	4.66	
RAMENTO R OPP MOULTON WR	1/24/06 13:10	0.105	0.749	13.6	60.3	N/A	1.78	6.85	0.23	0.28	<0.005	<0.005	1.54	
RAMENTO R OPP MOULTON WR	2/22/06 11:40	0.058	0.538	6.68	40.1	N/A	1.44	4.63	0.16	0.23	<0.009	<0.009	0.83	
RAMENTO R OPP MOULTON WR	3/1/06 12:10	0.852	2.81	35.8	207	N/A	6.24	19.6	< 0.149	0.2	<0.009	<0.009	7.67	
RAMENTO R OPP MOULTON WR	4/17/06 11:10	0.271	1.27	13.8	83.2	N/A	2.88	9.26	<0.2	0.22	<0.03	<0.03	2.99	
RAMENTO R OPP MOULTON WR	5/17/06 11:35	<0.04	0.183	2.83	19.1	N/A	1.08	2.15	0.22	0.26	< 0.03	<0.03	0.39	
RAMENTO R OPP MOULTON WR	6/27/06 10:25	<0.04	0.133	0.32	13.6	N/A	1	2.08	<0.2	<0.2	<0.03	0.066	0.19	
RAMENTO R OPP MOULTON WR	7/26/06 8:20	<0.04	0.149	1.11	14	1.6	1.26	2.6	<0.2	<0.2	<0.03	<0.03	0.69	
RAMENTO R OPP MOULTON WR	8/22/06 10:50	<0.04	0.081	1.89	8.01	0.67	1.38	2.05	0.21	0.26	<0.03	< 0.03	0.55	
RAMENTO R OPP MOULTON WR	9/20/06 11:35	<0.04	0.096	2.46	11.8	1.5	1.42	2.26	<0.2	<0.2	<0.03	<0.03	0.54	
RAMENTO R OPP MOULTON WR	10/24/06 12:15	<0.04	0.105	2.1	12.3	0.39	1.45	2.03	<0.2	0.21	<0.03	<0.03	0.16	
RAMINTO B CPP MOULTON WR	12/12/06 12:35	<0.04	0.264	3.24	22	1.8	2.21	2.82	<0.2	<0.2	<0.03	<0.03	1.65	
EAMENTO R OPP MOULTON WR	1/9/07 13:00	<0.04	0.067	2.75	11	1.5	1.08	1.61	<0.2	<0.2	<0.03	< 0.03	0.52	
RAMENTO ROPE AOULTON WR	2/27/07 10:00	0.254	0.501	10.7	24.6	0.95	2.31	2.83	<0.2	<0.2	<0.03	<0.03	3.33	
EAMENTO R OPP MOULTON WR	3/20/07 11:15	<0.04	0.071	2.35	9.98	1.7	0.85	1.21	<0.2	0.31	<0.03	<0.03	0.36	
KAMENTO ROPP MODITON WR	4/18/07 10:15	<0.04	0.078	3.59	11.1	1.3	0.79	1.17	<0.2	<0.2	<0.03	<0.03	0.46	
RAMENTO R OPP MOULTON WR	5/30/07 9:00	<0.04	0.147	0.45	12.5	N/A	0.73	1.32	<0.2	<0.2	<0.03	<0.03	0.2	
RAMENTO R OPP MOULTON WR	6/27/07 8:00	<0.04	0.092	5.8	12.7	1.1	0.79	1.19	<0.2	<0.2	<0.03	< 0.03	0.49	
RAMENTO R OPP MOULTON WR	7/19/07 10:05	<0.04	0.066	0.22	8.58	0.98	0.56	1.2	<0.2	<0.2	<0.03	<0.03	0.28	
RAMENTO R OPP MOULTON WR	8/28/07 10:40	<0.04	<0.04	0.21	4.92	N/A	0.89	1.02	<0.2	<0.2	<0.03	<0.03	0.46	
RAMENTO R OPP MOULTON WR	9/13/07 11:40	<0.04	0.051	0.22	4.64	0.9	0.91	0.95	<0.2	<0.2	<0.03	<0.03		
RAMENTO R OPP MOULTON WR RAMENTO R OPP MOULTON WR	10/31/07 10:55	<0.04 <0.04	0.054	0.23	8.41 5.67	0.77 0.75	1.09 0.89	1.2 0.92	<0.2 <0.2	<0.2 <0.2	<0.03 <0.03	<0.03 <0.03	0.31	
RAMENTO R OPP MOULTON WR	1/23/08 12:40	<0.04	0.134	1.7	16.3	N/A	1.17	1.49	<0.2	<0.2	<0.03	<0.03	0.77	
RAMENTO R OPP MOULTON WR	2/27/08 10:50	<0.04	0.979	0.79	61.7	N/A	1.98	8.93	0.32	0.45	<0.03	< 0.03	0.46	
RAMENTO R OPP MOULTON WR	3/26/08 10:10	<0.04	0.061	0.55	11.3	N/A	1	1.13	0.28	0.29	<0.03	<0.03	0.2	
RAMENTO R OPP MOULTON WR	4/23/08 10:30	< 0.04	0.095	4.21	14.4	N/A	0.92	1.36	<0.2	0.25	< 0.03	< 0.03	0.66	
RAMENTO R OPP MOULTON WR	7/24/08 11:15	<0.04	0.048	0.28	5.01	38	0.65	0.85	0.24	0.28	< 0.03	< 0.03	0.3	
RAMENTO R OPPIMOULTON WR	4/22/09 11:10	<0.04	0.057	0.53	9.11	N/A	0.82	0.92	<0.2	0.23	< 0.03	< 0.03	0.28	
KAMENTO R OPP MOULTON WR	5/28/09 12:15	<0.04	0.062	0.41	7.18	N/A	0.78	0.89	<0.2	<0.2	<0.03	< 0.03	0.53	
SAMENTO R OPP MOULTON WR	6/25/09 9:25	<0.04	0.094	0.33	6.95	N/A	0.93	1.06	0.23	0.26	<0.03	< 0.03	0.94	
PAMENTO R OPP MOULTON WR	7/28/09 10:30	<0.04	0.062	1.39	7.1	N/A	1.02	1.06	<0.2	< 0.2	< 0.03	< 0.03	0.47	
RAMENTO R OPP MOULTON WR	8/27/09 9:30	< 0.04	< 0.04	0.36	2.63	N/A	0.78	0.86	<0.2	<0.2	< 0.03	< 0.03	0.33	
RAMENTO R OPP MOULTON WR	9/24/09 9:50	<0.04	<0.04	0.33	4.98	N/A	0.84	0.96	<0.2	<0.2	<0.03	< 0.03	0.33	
RAMENTO R OPP MOULTON WR	10/27/09 11:40	<0.04	0.117	4.35	12.7	N/A	0.94	1.13	<0.2	<0.2	< 0.03	< 0.03	0.57	
RAMENTO R OPP MOULTON WR	11/18/09 11:30	< 0.04	0.07	0.44	7.87	N/A	0.89	0.99	< 0.2	< 0.2	< 0.03	< 0.03	0.32	
RAMENTO R OPP MOULTON WR	12/9/09 8:15	<0.04	<0.04	0.32	7.77	N/A	0.57	0.71	<0.2	<0.2	<0.03	<0.03	0.5	
RAMENTO R OPP MOULTON WR	1/26/10 8:45	0.077	4,39	1.92	204	N/A	3.62	25.6	0.23	0.26	<0.03	0.071	0.59	
RAMENTO R OPP MOULTON WR	3/2/10 13:15	<0.04	0.604	0.96	45.5	N/A	2.53	4.77	0.24	0.27	<0.03	<0.03	0.84	
BAMENTO R OPP MODETON WR	3/24/10 7:10	<0.04	0.05	0.58	7.08	N/A	0.71	0.8	<0.2	<0.2	<0.03	< 0.03	0.23	
RAMENTO 8 OPP MOULTON WR	4/21/10 7:00	0.313	0.56	0.44	37.7	N/A	0.72	4.76	<0.2	0.21	<0.03	<0.03	0.24	
UNIMENTO R OPP MODITON WR	5/26/10 7:00	0.048	0.05	0.32	4.64	N/A	0.6	0.73	<0.2	<0.2	<0.03	<0.03	0.42	
FAMENTO R OPP MOULTON WR	6/30/10 7:00	<0.04	<0.04	0.28	5.87	N/A	0.73	0.87	<0.2	<0.2	<0.03	<0.03	0.56	
RAWHNEO ROPP MOUNTON WR	7/28/10 8:40	<0.04	0.066	0.33	5.81	N/A	0.86	1.01	<0.2	<0.2	<0.03	<0.03	0.73	
RAMENTO R OPP MOJETON WR	8/31/10 10:10	<0.04	0.043	0.5	6.58	N/A	8.0	1.04	<0.2	<0.2	<0.03	<0.03	0.51	
RAMENTO R OPP MOULTON WR	10/26/10 8:00	<0.04	0.556	2.25	34	N/A	1.45	3.88	<0.2	0.27	<0.03	<0.03	1.3	
	11/30/10 8:50	<0.04	0.046	0.58	6.62	N/A	1.33	1.37	<0.2	<0.2	<0.03	< 0.03	1.15	
RAMINTO ROPP MOULTON WR	12/13/10 11:20	<0.04	0.149	0.6	11.3	N/A	0.62	1.12	<0.2	<0.2	<0.03	< 0.03	0.13	
RAMENTO R OPP MOULTON WR BAMENTO R OPP MOULTON WR		<0.04	0.399	0.83	24.2	N/A	0.88	2.81	<0.2	0.22	<0.03	0.042	1.03	
RAMENTO R OPP MOULTON WR. RAMENTO R OPP MOULTON WR.	1/18/11 10:45		4.8	35.8	381	38	6.92	44.5	0.32	0.53	0.04	0.088	10.4	
RAMENTO R OPP MOULTON WR RAMENTO R OPP MOULTON WR		0.857		1.335	10.7	1.1	1.01	1.52	0.215	0.26	0.0155	0.047	0.515	
AMENTO ROPP MOULTON WR AMENTO ROPP MOULTON WR	Maximum Mediam	0.852 0.058	0.095		2.63	0.39	0.52	0.71	0.1	0.15	0.002	0.007	0.13	
RAMENTO R OPP MOULTON WR RAMENTO R OPP MOULTON WR	Maximum		0.095	0.1										
RAMENTO R OPP MODILTON WR RAMENTO R OPP MODILTON WR RAMENTO R OPP MODILTON WR	Maximum Mediam	0.058		0.1					·					
RAMINIO R OPP MOULTON WR  RAMINTO R OPP MOULTON WR  RAMINTO R OPP MOULTON WR  SAMENTO R OPP MOULTON WR  SEE BERTO Plan - Drinking Water Standards - Primary MCL	Maximum Mediam	0.058		0.1							}			
RAMENTO R OPP MOULTON WR RAMENTO R OPP MOULTON WR RAMENTO R OPP MOULTON WR CB Basin Plan - Drinking Water Standards - Primary MCL CB Basin Plan - Drinking Water Standards - Secondary MCL	Maximum Mediam	0.058	0.039				1:		<	,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	}			
RAMINTO R OPP MOULTON WR RAMINTO R OPP MOULTON WR RAMINTO R OPP MOULTON WR  SCEN BIRTO Plan - Denking Water Standards - Primary MCL  CER Basin Plan - Denking Water Standards - Secondary MCL  CER Basin Plan - Denking Water Standards - Secondary MCL  CER/CERHA - California Public Health Goal	Maximum Mediam	0.058 0.008	0.039				1	2	¢	· · · · · · · · · · · · · · · · · · ·	!			
RAMINTO ROPP MOULTON WR RAMINTO ROPP MOULTON WR RAMINTO ROPP MOULTON WR  CB Basin Plan - Drinking Water Standards - Primary MCL CB Basin Plan - Drinking Water Standards - Secondary MCL PA/SEHHA - Californiu Public Health Goal VA Secondary MCL	Maximum Mediam Minimum	0.058 0.008	0.039				1:							
KAMI NTO R OPP MOULTON WR  KAMI NTO R OPP MOULTON WR  KAMI NTO R OPP MOULTON WR  CB Basin Plan - Drinking Water Standards -Primory MCL  CB Basin Plan - Drinking Water Standards -Secondary MCL  CB Basin Plan - Drinking Water Standards -Secondary MCL  CB CB Basin Plan - Drinking Water Standards -Secondary MCL  CB CB Basin Plan - Drinking Water Standards -Secondary MCL  CB CB Basin Plan - Drinking Water Standards -Secondary MCL  CB - Dranking Water Standards - Secondary MCL  CB - Dranking Mill - Dranking Water Standards - Secondary MCL  CB - Dranking Mill - Dranking Water Standards - Secondary MCL  CB - Dranking Mill - Dranking Water Standards - Secondary MCL  CB - Dranking Water Standards - Secondary - Sec	Maximum Mediam Minimum	0.058 0.008 0.00	0.039		0		1,	2	( - , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·				
RAMINTO R OPP MOULTON WR RAMINTO R OPP MOULTON WR RAMINTO R OPP MOULTON WR  SCE Basin Plan - Drinking Water Standards - Primory MCL CCC Basin Plan - Drinking Water Standards - Secondary MCL PENZEMBA - California Public Health Goal PA Secondary MCL PA - One in a million incremental cancer risk estimate for drinking PA Health Advisory for drinking water	Maximum Mediam Minimum	0.058 0.008 0.00	0.039	50	0		1	2		· · · · · · · · · · · · · · · · · · ·				
RAMENTO R OPP MOULTON WR RAMENTO R OPP MOULTON WR RAMENTO R OPP MOULTON WR REGISTER OF MOUL	Maximum Mediam Minimum	0.058 0.008 0.00	0.039	50	0		11			Walter Control				
	Maximum Mediam Minimum	0.058 0.008 0.00	0.039	50	0		11							
RAMENTO ROPP MOULTON WR RAMENTO ROPP MOULTON WR RAMENTO ROPP MOULTON WR REGERMAN Plan - Drinking Water Standards - Primary MCL REG Basin Plan - Drinking Water Standards - Secondary MCL REPA/SEPHA - California Public Health Goal PA Secondary MCL PEA/SEPHA - Million incremental cancer risk estimate for drinking PA Health Advisory for drinking water PA Health Advisory for drinking water PA Health Advisory for Drinking Water Health Advisories formia Proposition 65 Safe Harbor Level - Max Allowable dose level	Maximum Mediam Minimum	0.058 0.008 0.008	0.039	50	0		1	2						
RAMENTO ROPP MOULTON WR RAMENTO ROPP MOULTON WR RAMENTO ROPP MOULTON WR REMEMBER OF MOULTON	Maximum Mediam Minimum	0.058 0.008 0.008	0.039	30	0	0.05	1	2						
RAMINTO R OPP MOULTON WR RAMINTO R OPP MOULTON WR RAMINTO R OPP MOULTON WR  RCB Birth Plan - Drinking Water Standards - Primary MCL RCB Basin Plan - Drinking Water Standards - Secondary MCL PP/OPHIA - California Public Health Goal PA secondary MCL PPA - California Public Health Goal PA - One in a million incremental cancer risk estimate for drinking PA Health Advicery for drinking water PA Health Advicery for drinking water PA RIB Reference Dore Drinking Water Health Advisories omin Proposition 65 Safe Harbor Level - Max. Allowable dose level eproductive toxicity.	Maximum Mediam Minimum	0.058 0.008 0.008	0.039	30	0		1							
RAMINTO R OPP MOULTON WR REGER Basin Plan - Drinking Water Standards - Primary MCL REGER Basin Plan - Drinking Water Standards - Secondary MCL PEN/OEHHA - California Public Health Goal PA Secondary MCL PA - One in a million incremental cancer risk estimate for drinking PA Health Advisory for drinking water PA IRLS Preference Dose Oberläng Water Health Acvisories omin Proposition 65 Safe Harbor Level - Max Allowable dose level reproductive toxicity culture Water Quality Goals - Taste and odor threshold ornia Toxics Rule Sources of Drinking Water	Maximum Mediam Minimum	0.058 0.008 0.008	0.039	30	0		11	2						
RAMINTO R OPP MOULTON WR  REGISTER OF MOULTON WR	Maximum Mediam Minimum	0.058 0.008 0.008	0.039	30	0		11	2						

		Dissolved Aluminum	Total Aluminum	Dissolved Arsenic	Total Arsenic	Dissolved Boron	Dissolved Cadmium	. Total Cadmium	Dissolved Chromium	Total Chromium	Dissolved Copper	Total Copper	Dissolved Fron	. 1
n Name	Sample Date	µg/L	µg/l	µg/L	μg/L	mg/L	μg/t	μg/L	pg/L	μg/L	rig/L	μg/L	μg/i.	
E CORRAL C NR SI	5/27/98 10:20	N/A	N/A	N/A	N/A	0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
E CORRAL C NR SI	3/5/01 15:45	N/A	N/A	N/A N/A	N/A N/A	<0.1	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	
IE CORRAL C NR SI IE CORRAL C NR SI	4/9/01 9:00 2/20/02 11:30	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
E CORRAL C NR SI	3/7/02 9:30	N/A	N/A	N/A	N/A	0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
E CORRAL C NR SI	3/18/02 11:20	N/A	N/A	N/A	N/A	0.5	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N/A	
IE CORRAL C NR SI	4/10/02 16:45 5/13/02 8:45	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.6	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A	
E CORRAL C NR SI	12/18/02 15:15	N/A	N/A	N/A	N/A	0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
E CORRAL C NR SI	1/9/03 12:15	N/A	N/A	N/A	N/A	0.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
E CORRAL C NR SI	1/23/03 10:50	N/A	N/A	N/A	N/A	0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
E CORRAL C NR SI	2/6/03 10:00	N/A	N/A	N/A	N/A	0.3	N/A	N/A	N/A	N/A	N/A N/A	N/A N/A	N/A N/A	
E CORRAL C NR SI	3/11/03 14:25	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.5	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A	N/A	
E CORRAL C NR SI E CORRAL C NR SI	3/17/03 11:45 4/8/03 13:10	N/A	N/A	N/A	N/A	0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
E CORRAL C NR SI	4/28/03 11:00	N/A	N/A	N/A	N/A	0.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
CORRAL C NR SI	5/14/03 12:40	3.68	51.9	1.94	2.34	0.6	0.079	0.03	8.1	6.51	4.46	4 69	<3.31	
E CORRAL C NR SI	1/6/04 11:30	143	559	1.4	1.45	0.2	<0.008	<0.016	3.4	3.64	2.25	3.28 4.75	92.3 1289	
CORRAL C NR SI	2/4/04 13:00	1399	2065 6149	1.34	1.46 1.91	0.2 <0.1	<0.011 <0.015	0.016	2.76 5.74	3.06 11	4.71 5.45	14.9	966	
CORRAL CINR SI CORRAL CINR SI	2/17/04 13:30 3/8/04 12:45	1280 42.5	55.5	0.719	0.97	0.3	0.006	0.013	1.67	1.86	1.56	1.95	15.5	
CORRAL C NR SI	4/7/04 10:15	4.17	49.5	1.01	1.27	0.4	<0.005	<0.006	3.6	3.62	2.36	3.01	<2.76	
CORRAL C NR SI	5/5/04 11:50	1.75	3.71	2.21	2.25	0.6	0.011	0.021	6.05	6.49	3.18	3.24	<3.75	
CORRAL C NR SI	10/5/04 14:30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A/N	N/A	N/A	N/A	N/A	
CORRAL C NR SI	11/8/04 9:50	5.18	19.8	8.84	9.86	1	0.187	0.195	5.97	7.37 8.43	3.75	7.65	158	
CORRAL C NR SI	12/7/04 12:45	21.9 458	134 1369	5.05 1.06	5.2 1.23	0.6	0.176 0.035	0.36	2.74	3.67	2.72	3.74	331	
CORRAL C NR SI CORRAL C NR SI	2/2/05 10:45	458 121	182	1.19	1.19	0.2	0.104	0.524	2.72	2.87	1.84	2.03	79.8	
CORRAL C NR SI	3/10/05 13:00	4.5	23.6	1.19	1.26	<0.1	0.082	0.13	3.28	3.72	1.86	2.21	<3.34	
CORRAL C NR SI	4/19/05 7:20	4.24	4.98	1.25	1.36	0.5	0.028	0.031	4.9	4.92	1.79	2.56	<5.67	
CORRAL C NR SI	5/19/05 9:50	2.52	6.37	1.65	1.8	0.4	<0.058	< 0.015	3.47	4.86	1.93	2.69	<4.53	
CORRAL C NR Si	6/28/05 13:30	4 . N/6	4.44 N/A	2.01	2.57 N/A	0.7 N/A	0.036 N/A	0.04 N/A	0.93 N/A	4.4 N/A	2.21 N/A	3.3 N/A	10.5 N/A	
CORRAL C NR SI	7/24/05 0:00 8/22/05 0:00	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	
CORRAL C NR SI	9/26/05 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	H/A	N/A	
CORRAL C NR SI	10/24/05 0:00	N/A	N/A	N/A	N/A	. N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
CORRAL C NR SI	11/14/05 9:35	2.27	2.66	8.32	8.66	0.8	<0.009	<0.009	3.76	3.87	4	4.13	28	
CORRAL C NR SI	12/14/05 10:15	2.94	3.44	6.79	7.14	0.7	0.011 <0.002	<0.002	5.18	8.08 5.65	1.88	4.38	33.1 14.3	
CORRAL C NR SI	1/24/06 11:45	23.1	9.09	1.76	1.81 1.84	0.4	<0.002	<0.002	7.91	8.93	2.49	2.75	7.9	
CORRAL C NR SI CORRAL C NR SI	2/22/06 9:45 3/1/06 10:25	7.08 1991	2268	1.41	1.49	0.2	0.011	0.051	4 32	4.57	5	5.77	1370	
CORRAL C NR SJ	4/17/06 8:30	206	265	0.77	0.774	0.2	<0.1	<0.1	1.27	1.42	1.38	1.48	121	
CORRAL C NR SI	5/17/06 10:00	2.37	4.04	1.75	1.81	0.4	<0.1	<0.1	4.03	4.28	1.78	1.98	9.7	
CORRAL C NR SI	6/27/06 9:00	1.39	34	3.08	3.53	0.6	<0.1	<0.1	1.05 N/A	1.48 N/A	1.26 N/A	1.99 N/A	22.9 N/A	
CORRAL C NR SI	7/26/06 0:00 10/24/06 0:00	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	
CORRAL C NR SI	10/24/06 0:00	N/A 135	598	6.74	9.96	0.8	<0.1	<0.1	5.1	9.05	4.32	6.1	53.2	
CORRAL C NR SI	1/9/07 11:30	11.1	74.1	5.49	5.7	0.7	<0.1	<0.1	4	4.83	1.82	1.94	42.7	
CORRAL C NR SI	2/27/07 8:30	34.6	36.9	3.41	3.86	0.6	<0.1	<0.1	0.98	1.69	3.9	- 3.96	57.9	
CORRAL C NR SI	3/20/07 9:50	5.74	64.1	3.26	3.49	0.7	<0.1	<0.1	0.66	0.97	1.1 0.69	0.83	47.3	
CORRAL C NR SI	4/18/07 8:00	4.48 N/A	16.4 N/A	4.19 N/A	4.38 N/A	0.7 N/A	<0.1 N/A	<0.1 N/A	0.93. N/A	N/A	N/A	N/A	N/A	
CORRAL CINR SI	5/30/07 0:00 8/28/07 0:00	N/A N/A	N/A N/A	N/A N/A	N/A	N/A	N/A	N/A	N//:	N/A	N/A	N/A	N/A	
CORRAL C IVI SI	9/13/07 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
CORRAL C NR SI	10/31/07 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N//-	N/A	N/A	N/A	N/A	
CORRAL C NR SI	1/23/08 11:30	9.77	3188	1.41	2.23	0.1	<0.1	<0.1	0.41	8.39 1.87	5.11 2.49	10.8 3.5	42.3	
CORRAL C NR SI	2/27/08 10:05 3/26/08 9:10	1.94 0.94	770 33.5	1.12	2.15	0.2	<0.1 <0.1	<0.1 <0.1	0.36	0.49	2.49	3.01	2.7	
CORRAL C NR SI	3/26/08 9:10 4/23/08 9:50	1.73	50.6	2.63	2.13	0.6	<0.1	<0.1	0.53	0.55	3.82	3.86	7.9	
CORRAL CINK SI	7/23/08 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
CORRAL C NR SI	4/22/09 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
CORRAL C NR SI	5/28/09 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N/A	N/A N/A	
CORRAL C NR SI	7/28/09 0:00	N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A N/A	
CORRAL C NR SI	7/28/09 0:00 8/27/09 0:00	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
CORRAL C NR SI CORRAL C NR SI	9/24/09 9:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
CORRAL C NR SI	10/21/09 0:00	N/A	N/A	N/A	N/A	N/A	N/A	· N/A	N/A	N/A	N/A	N/A	N/A	
CORRAL C NR SI	11/18/09 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	. N/A	: N/A	N/A N/A	N/A N/A	
CORRAL C NR SI	12/9/09 0:00	N/A	N/A	N/A	N/A	N/A 0.1	N/A <0.1	N/A <0.1	N/A 0.26	N/A 7.11	N/A 3.01	N.A 9.95	14/A 54.6	
CORRAL C NR SI	1/26/10 10:45 3/2/10 12:20	27.1 3.34	3100 960	0.682 1.16	1.42	0.1	<0.1	<0.1	0.27	2.29	2.85	4,4	11.5	
CORRAL C NR SI	3/24/10 9:05	0.66	8.66	1.85	1.87	0.5	<0.1	<0.1	0.43	0.47	2.34	7.41	3	
CORRAL C NR Si	4/21/10 9:00	3.61	175	0.961	1.12	0.4	<0.1	<0.1	0.48	0.73	2.21	2.86	3.8	
CORRAL C NR SI	5/26/10 8:50	1.45	1.46	4.07	4.12	0.6	<0.1	< 0.1	0.62	0.68	2.28	2.39	1.4 M/A	
E CORRAL C NR SI	6/29/10 0:00	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	
E CORRAL C NR SI E CORRAL C NR SI	8/31/10 0:00 10/26/10 0:00	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	
CORRAL C NR SI	11/30/10 10:30	2.35	6.7	6.04	6.24	0.8	<0.1	<0.1	2.2	2.44	2.79	3.04	9.9	
E CORRAL C NR SI	12/13/10 10:10	1.23	2.25	6	6.22	0.7	<0.1	<0.1	3.55	3.73	4.11	4.22	5.2	
CORRAL C NR SI	1/18/11 12:25	3.06	105	2.07	2.14	0.4	<0.1	<0.1	0.74	0.91	2.82	2.99	9.2	
		1001	£140		9.96	, , , , , , , , , , , , , , , , , , , ,	0.187	0.524	8.1	11	5.45	14.9	1370	
	Maximum Median	1991 4.36	6149 50.05	8.84 1.775	2.025	0.5	0.0355	0.034	2.75	3.695	2.49	3.14	23 15	
	Minimum	0.66	1.46	0.682	0.774	0.1	0.006	0.013	0.2.	0.47	0.69	0.83	0.7	
	1								.					
B Basin Plan - Drinking Water Standards -Primary MCL		1000									4		300	
B Basin Plan - Drinking Water Standards -Secondary MCL A/OEHHA - California Public Health Goal		200 600		0.004	<del></del>		0.04							
A/OEHHA - California Public Health Goal  Secondary MCL				4 10771			,							
A - One in a million incremental cancer risk estimate for drinking	water			0.023			0.0023	.i						
Health Advisory for drinking water		50		0.02	<u> </u>									
nia Proposition 65 Safe Harbor Level - Max. Allowable dose leve	l for reproductive t	oxicity	A.14-14	0.05										
	oncontration				-			.i						:
	oncentration							:						
nia Toxics Rule Freshwater Aquatic Life Protection Continuous C	ncentration			100		0.7							5000	
rnia Toxics Rule Freshwater Aquatic Life Protection Continuous C rnia Toxics Rule Freshwater Aquatic Life Protection Maximum Co	ncentration													
rnia Toxics Rule Freshwater Aquatic Life Protection Continuous C rnia Toxics Rule Freshwater Aquatic Life Protection Maximum Co liture Water Quality Goals - Taste and odor threshold	ncentration			1	1	1			1	. i	والمسترورة والمسالية			
rria Toxics Rule Freshwater Aquatic Life Protection Continuous C rria Toxics Rule Freshwater Aquatic Life Protection Maximum Co ulture Water Quality Goals - Taste and odor threshold rria Notification Level - Drinking Water and Jacademy of Sciences Health Advisory for Drinking Water	ncentration	5000				1					ومسمود سالد د دد			
rnia Toxics Rule Sources of Drinking Water rnia Toxics Rule Freshwater Aquatic Life Protection Continuous C rnia Toxics Rule Freshwater Aquatic Life Protection Maximum Cc ulture Water Quality Goals - Taste and odor threshold rnia Notification Level - Drinking Water and Academy of Sciences Health Advisory for Drinking Water A IRIS Reference Dose Drinking Water Health Advisory	ncentration	5000	· · · · · · · ·	2.1		1							300	
rria Toxics Rule Freshwater Aquatic Life Protection Continuous C rria Toxics Rule Freshwater Aquatic Life Protection Maximum Co liture Water Quality Goals - Taste and odor threshold rria Notification Level - Drinking Water and Academyo Sciences Health Advisory for Drinking Water		5000			-	1							300	

able 5. Stone Corral C nr SI, Part 2 of 2	Sample Date	Dissolved Lead µg/L	Total Lead μg/L	Dissolved Manganese μg/L	Total Manganese µg/L	Total Mercury ng/L	Dissolved Nickel μg/L	Total Nickel µg/L	Dissolved Selenium µg/L	Total Selenium µg/L	Dissolved Silver μg/L	Total Silver µg/L	Dissolved Zinc μg/L	Tota Zin μg/
action regards					Į							B1/6	N/A	NI/
ONI CORRAL CINESI	5/27/98 10:20 3/5/01 15:45	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A
ONE CORRAL CINESI ONE CORRAL CINESI	4/9/01 9:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OUT CORPAL C NR SI	2/20/02 11:30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	· N/A	N/A
ONE CORRAL CINESI	3/7/02 9:30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UNE CORRAL CINE SE	3/18/02 11:20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A
ONE CORRAL C NR SI	4/10/02 16:45	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A
ONE CORRAL CINESI	5/13/02 8:45 12/18/02 15:15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ONE CORRAL CINESI	1/9/03 12:15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ONE CORRAL CINRISI	1/23/03 10:50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ONE CORRAL CINESI	2/6/03 10:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N//
ONE CORRAL CINR SI	3/11/03 14:25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N/A	N//
ONE CORPAL CINESI	3/17/03 11:45	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A	N/A
ONE CORRAL C NR SI	4/8/03 13:10	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ONE CORRAL CIRISI ONE CORRAL CIRISI	4/28/03 11:00 5/14/03 12:40	0.058	0.042	0.17	9.03	N/A	2.57	3.14	7.33	7.37	0.131	<0.197	0.86	1.2
CNC CORRAL C NR SI	1/6/04 11:30	0.036	0.256	9.48	42.9	N/A	2.32	3.56	3.02	3.07	<0.007	< 0.014	0.46	2.7
ONE CORRAL CINESI	2/4/04 13:00	0.266	0.507	13.1	32.3	N/A	3.27	3.79	0.66	1.25	<0.015	0.207	4.24	5.2
ONE CORRAL CINRISI	2/17/04 13:30	0.782	2.91	36.1	203	N/A	3.58	15.8	0.26	0.38	<0.016	0.056	4.53	24.
ONE CORRAL CINESI	3/8/04 12:45	0.009	0.094	1.66	3.57	N/A	2.11	2.32	1.34	2.38	0.054	0.09	0.82	1.0
ONE CORRAL C NR SI	4/7/04 10:15	0.05	0.065	1.15	4.6 2.41	N/A N/A	2.4 2.82	2.58 2.85	4.26 8.2	4.48 8.22	0.03	<0.031	1.3 1.38	1.6
ONE CORRAL C NR SI	5/5/04 11:50	0.035	0.038	0.85	2.41 N/A	N/A	N/A	- N/A	N/A	N/A	N/A	N/A	N/A	N/
ONE CORRAL CINESI ONE CORRAL CINESI	10/5/04 14:30 11/8/04 9:50	N/A 0.059	N/A 0.142	N/A 27.2	43.1	N/A	4.98	9.72	30	30.4	0.082	0.107	1.78	1.8
ONE CORPAL C NR SI	12/7/04 12:45	0.244	0.293	1.07	30.6	N/A	3.29	3.49	10.5	10.6	0.05	0.086	0.99	1.4
ONE CORRAL CINESI	1/10/05 13:30	0.111	0.428	2.61	32.1	N/A	2.24	3.48	1.69	1.84	0.009	0.015	1.46	4.6
ONE CORRAL CINESI	2/2/05 10:45	0.095	0.117	7.35	19.8	N/A	2.15	2.63	2.32	2.87	0.004	0.007	0.99	1.4
ONE CORRAE CINR 5!	3/10/05 13:00	0.05	0.057	1.17	6.21	N/A	1.53	2.29	3	3	<0.001	<0.036	0.73	3.8
ONE CORRAL CINE SI	4/19/05 7:20	0.054	0.147	2.44	3.02	N/A	2.12 1.43	2.15	4.22	5.06	<0.003	<0.005 0.021	0.81	. 0.7
ONE CORRAL CINESI	5/19/05 9:50 6/28/05 13:30	0.006 0.094	0.038	0.73 2.4	2.12 6.88	N/A N/A	1.43	2.45	5.68	5.9	0.05	0.021	0.91	1.7
ONE CORRAL CINESI ONE CORRAL CINESI	7/24/05 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
ONE CORRAL CINESI	8/22/05 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
GN!, CORRAL CINE SI	9/26/05 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
ONE CORRAL CINE SI	10/24/05 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
ONE CORRAL CINESI	11/14/05 9:35	0.007	0.008	20.3	21.2	N/A	7.73	8.27	20.6	20.7	<0.009	<0.009	1.55	1.5
ONE CORRAL C NR SI	12/14/05 10:15	0.008	0.014	17.1	19	N/A	8	8.64	21.4	22.6	<0.001	0.041	1.04 0.84	0.8
ONE CORRAL C NR SI	1/24/06 11:45	0.013	0.021	29.4 8.96	32.6 13.9	N/A N/A	3.34 3.57	3.9 3.39	5.53 6.31	5.63 7.05	<0.005	<0.009	0.91	1.0
ONE CORRAL CINRISI ONE CORRAL CINRISI	2/22/06 9:45 3/1/06 10:25	<0.045 0.536	0.009	29.8	46.9	N/A	4.79	5.55	0.8	1.06	<0.009	<0.009	6.47	7.
ONE CORRAL C NR SI	4/17/06 8:30	0.054	0.089	9.99	14.1	N/A	2.65	3.23	1.75	1.99	< 0.03	<0.03	1.27	1.
ONE CORRAL C NR SI	5/17/06 10:00	<0.04	<0.04	1.65	1.73	N/A	1.59	1.98	5.38	5.93	<0.03	<0.03	0.9	0.
DAF, CORBAL CINRIST	6/27/06 9:00	<0.04	<0.04	8.27	39.4	N/A	2.15	3.46	3.58	3.97	0.087	0.165	0.6	0.
ONE COPRACE NR SI	7/26/06 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N,
ONE CORRAL CINESI	10/24/06 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A <0.03	N/A	N/
ONE COSPALICING ST	12/12/06 10:30	<0.04	0.122	18.5	71.3 80.2	N/A 0.29	4.37 3.07	6.92 3.23	15.6 19.6	21.8 20.6	<0.03	<0.03	0.79 1.04	3.
ONE CORRAL CINESI	1/9/07 11:30 2/27/07 8:30	0.2	0.215 0.121	32.8 28	29.3	N/A	2.59	3.79	9.75	13.7	<0.03	<0.03	1.32	3.0
ONE CORRAL CINR SI	3/20/07 9:50	<0.04	0.062	35.3	89.4	0.92	1.2	1.44	6.1	7.26	< 0.03	< 0.03	0.97	2.7
ONE CORRAL CINE SI	4/18/07 8:00	0.06	0.068	25.6	41.4	2.3	1.3	1.38	5.73	5.93	<0.03	<0.03	1.03	2.4
ONE CORRAL CINR SI	5/30/07 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
ONE CORRAL CINES!	8/28/07 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
ONE CORRAL CINESI	9/13/07 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
ONE CORPAL C NR SI	10/31/07 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A 9.39	N/A 0.65	N/A 0.9	N/A <0.03	N/A 0.033	N/A 0.5	16
CNE CORRAL C NR SI	1/23/08 11:30 2/27/08 10:05	0.06 <0.04	2.04 0.272	0.54	92.6	N/A N/A	3.43 1.66	2.46	2.2	2.5	<0.03	<0.03	0.64	4.6
ONE CORRAL CINESI ONE CORRAL CINESI	3/26/08 9:10	<0.04	0.064	1.63	27.9	N/A	2.13	3.1	3.53	4.02	<0.03	< 0.03	0.8	2.4
ONE CORRAL C NR SI	4/23/08 9:50	0.046	0.059	8.33	19.1	N/A	3.77	3.86	9.54	9.75	< 0.03	< 0.03	1.28	2.
GHE CORRAL CINESI	7/23/08 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N,
ON! CORRAL C NR SI	4/22/09 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N,
ONE CORRAL CINES!	5/28/09 0:00	· N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
ONE CORRAL C NR SI	6/25/09 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N/A	N,
ONE CORRAL C NR SI	7/28/09 0:00	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A	N,
ONE CORRAL CINESI	8/27/09 0:00 9/24/09 9:00	N/A N/A	N/A	N/A N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
TONE CORRAL CINES!	10/21/09 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N,
ONE CORRAL CINESI	11/18/09 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N,
ONE CORRAL C NR SI	12/9/09 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N,
ONE CORRAL C NR SI	1/26/10 10:45	<0.04	1.91	1.52	106	N/A	4.36	8.87	0.59	0.63	<0.03	< 0.03	0.86	16
ONE CORRAL CINESI	3/2/10 12:20	<0.04	0.438	0.69	46.6	N/A	2.29 1.57	2.98	2.02 4.97	2.54 5.56	<0.03 <0.03	<0.03	1.08	. <u>5</u> . 2.
ONE CORRAL C NR SI	3/24/10 9:05 4/21/10 9:00	<0.04	<0.04	2.65 1.64	14.4 12.6	N/A N/A	1.57	1.98	2.93	3.56	<0.03	< 0.03	1.04	2
ONE CORRAL CINRISI ONE CORRAL CINRISI	4/21/10 9:00 5/26/10 8:50	<0.04	<0.087	0.14	1.34	N/A	2	2.06	4.31	4.4	<0.03	< 0.03	1.85	2.
ONE CORRAL CIRCSI	6/29/10 0:00	. N/A	N/A	N/A	N/A	N/A	N/A	N/A	: N/A	N/A	N/A	N/A	N/A	N,
ONL CORRAL CINESI	8/31/10 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N,
ONE CORRAL CINR SI	10/26/10 0:00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N.
ONE CORRAL CINESI	11/30/10 10:30	<0.04	<0.04	63.4	75.9	N/A	2.04	2.1	1.36	1.42	<0.03	<0.03	2.7	3.1
ON( CORRAL C NR SI	12/13/10 10:10	<0.04	<0.04	0.29	16	N/A	1.93	2.61	1.74	1.88	0.089	0.12 0.347	1.42	1.
ONE CORRAL C NR SI	1/18/11 12:25	<0.04	0.057	38.2	78.8	N/A	1.25	1.72	3.43	3.5	0.064	0.347	1.42	
m men a communication of the same programmer	Maximum	0.782	2.91	63.4	203	2.3	. 8	15.8	30	30.4	0.131	0.347	6.47	24
	Median	0.054	0.0965	5	28.6	0.92	2.305	3.12	4.145	4.43	0.059	0.086	1.035	2.
	Minimum	0.006	0.008	0.14	1.34	0.29	1.2	1.38	0.26	0.38	0.004	0.007	0.46	0
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il PA Persith Advisory for drinking water liforma Proposition 65 Safe Harbor Level - Max, Allowable dose level fo	or reproductive to	0.25	, !	:	<del>}</del>			<u> </u>		·	l	1		
liforms Poxics Rule Sources of <b>Drinking Water</b>	cproductive to	· · · · · · · · · · · · · · · · · · ·	<u> </u>			0.05	1		7		<u> </u>	·		
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Informa Toxics Rule Freshwater Aquatic Life Protection Maximum Conc rucillure Water Qualify Goals - Taste and odor threshold informa Notification Level - Pinking Water thmal Academy of Sciences Health Advisory for Drinking Water				50										