

K:\Projects\1\DW\00726_11_BDCP\mapdoc\Public_Draft\Ch08\Fig_08_01_Boundary_Land_Cover_Sac_San_Joaquin_20130917.mxd Date: 9/17/2013 Time: 8:37:01 PM 25110

Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Streets, Watersheds, DHCCP 2007; Landuse, CDF FRAP 2002.

Figure 8-1
Land Cover Types in the Sacramento River and San Joaquin Hydrologic Regions

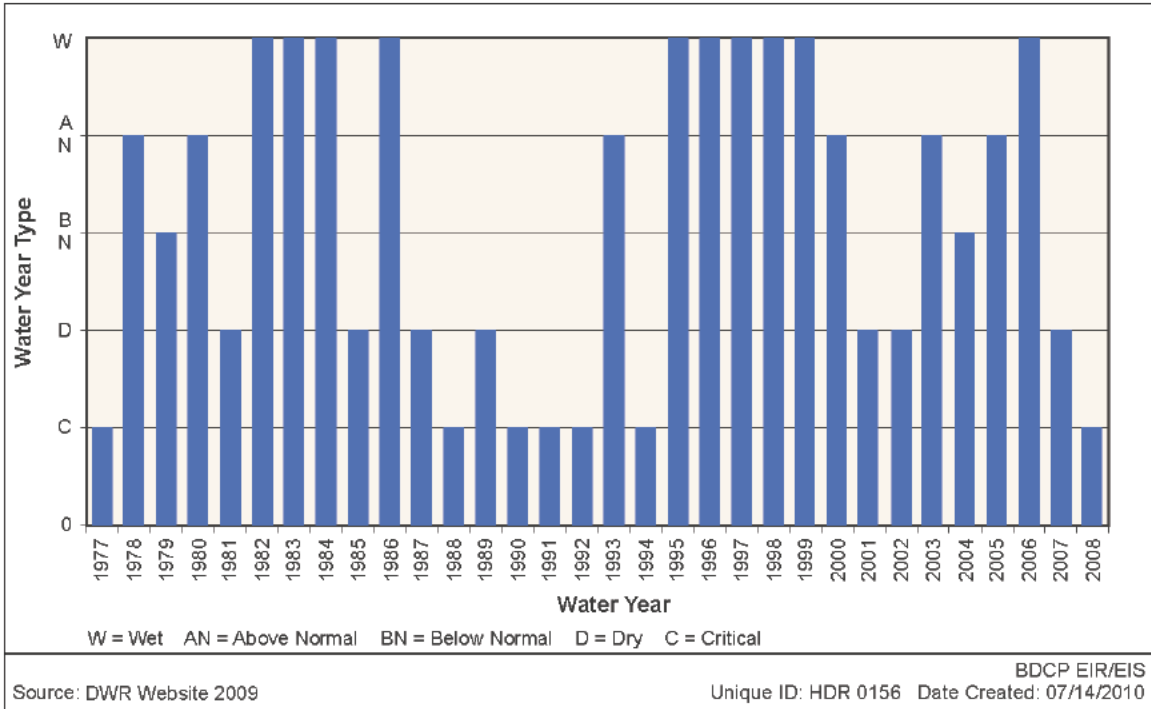


Figure 8-2
Sacramento Valley Water Year Hydrologic
Classifications for 1977–2008

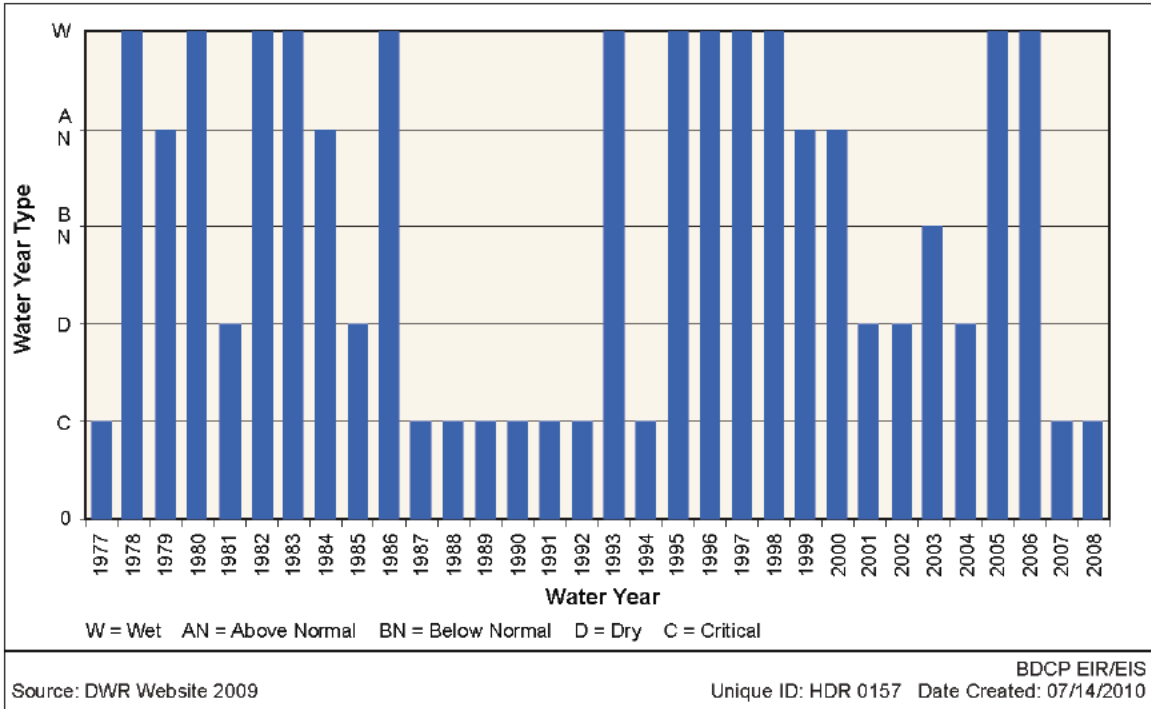
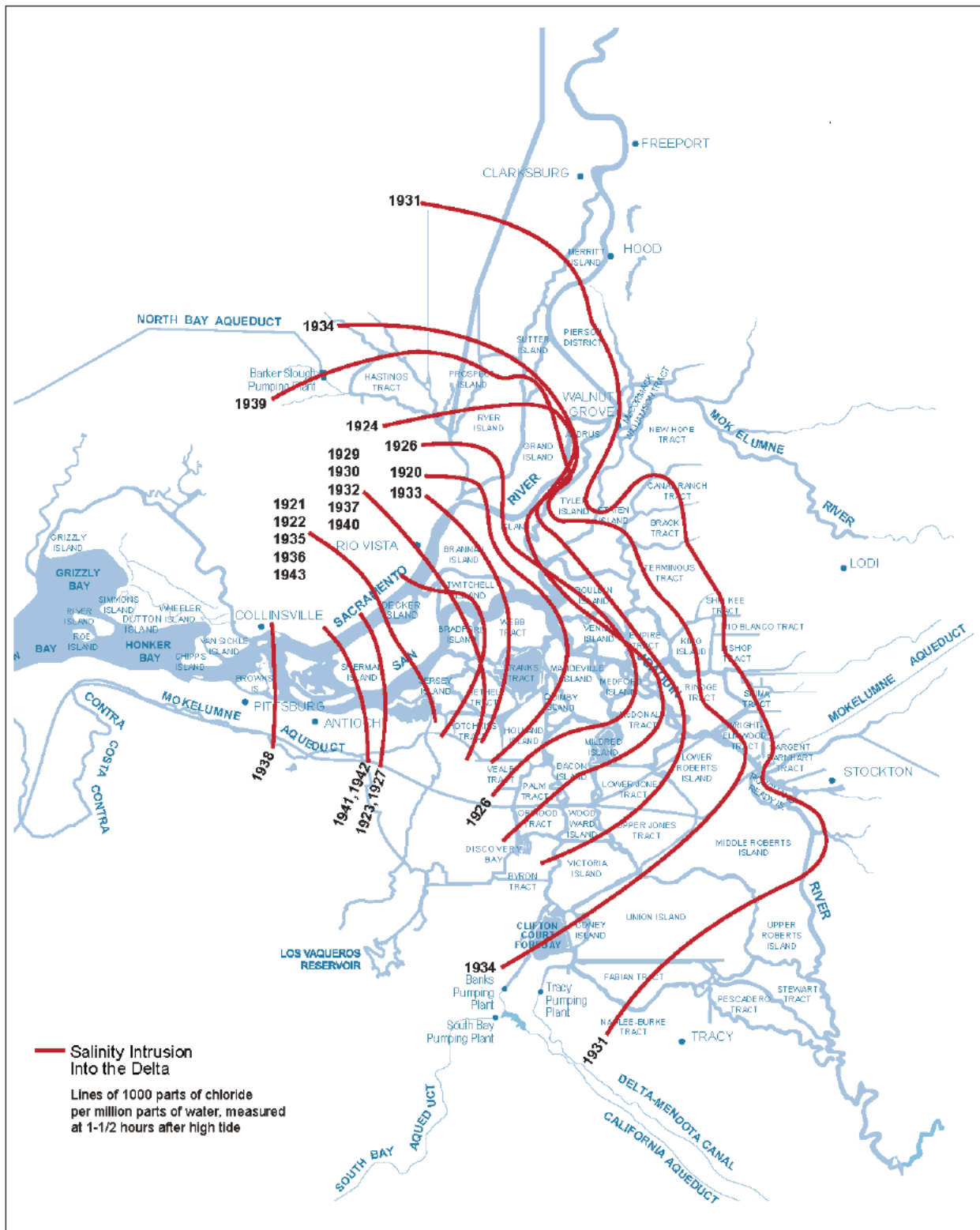


Figure 8-3
San Joaquin Valley Hydrologic
Classifications for 1977–2008



Source: DWR 2007

BDCP EIR/EIS
 Unique ID: HDR 0142 Date Created: 05/25/2010

Figure 8-4
Maximum Salinity Intrusion in the Delta, 1921–1943

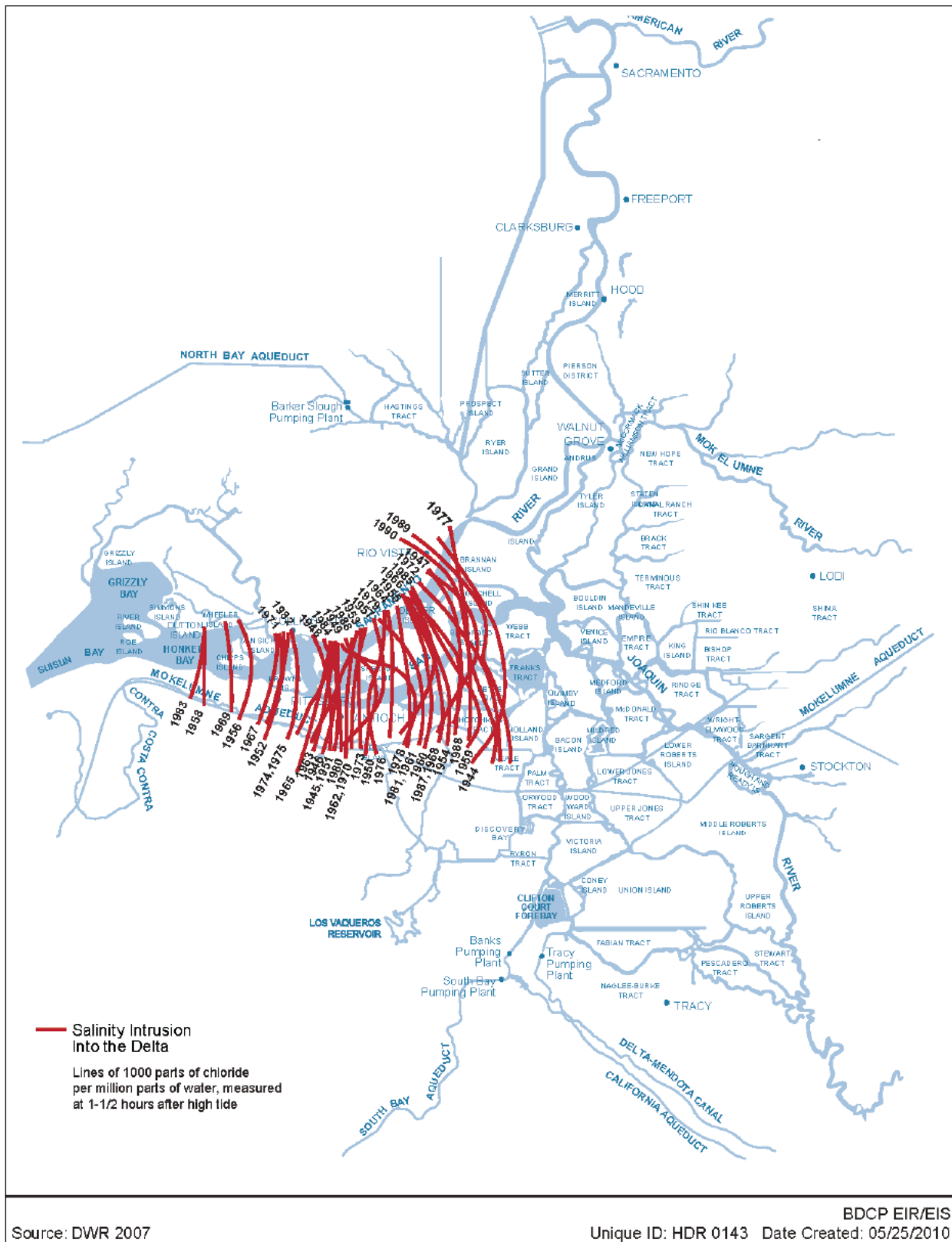
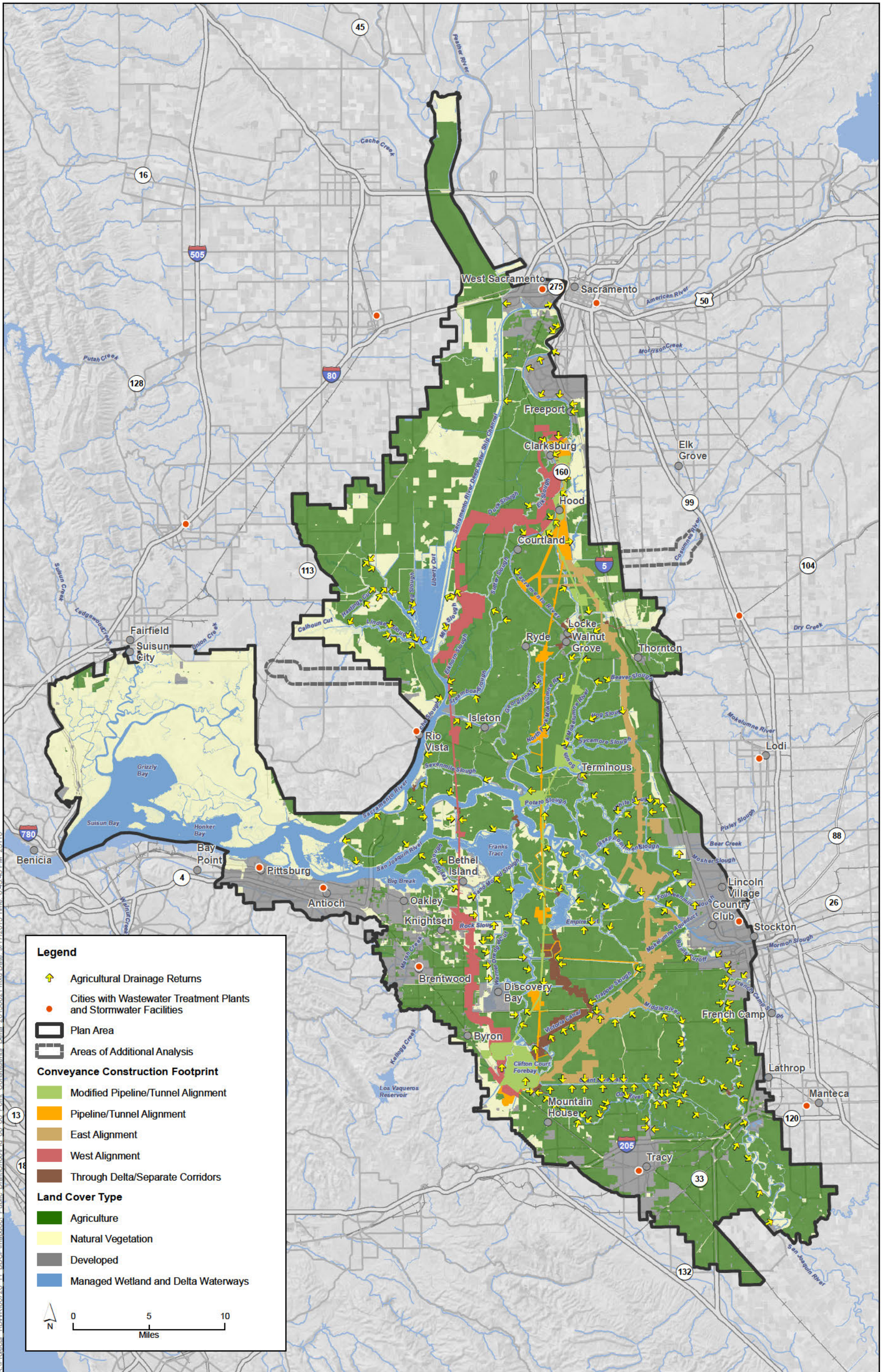


Figure 8-5
Maximum Salinity Intrusion into the Delta, 1944–1990



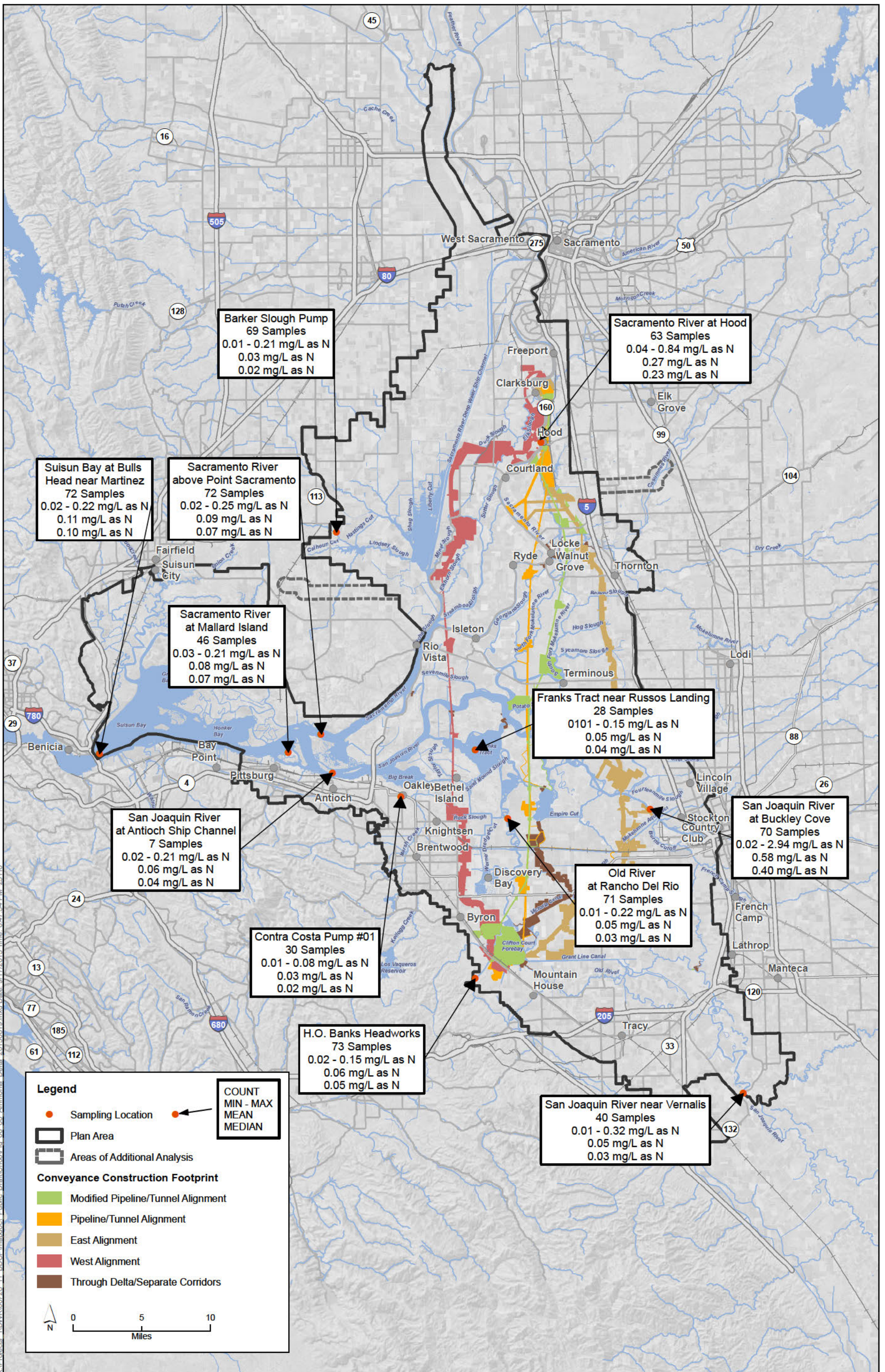
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NA P 2010; Hydrology, HDR 2010; Watersheds - DHCCP 2007; Landuse - DWR 2006; Drainage Returns - URS 2007

Figure 8-6
Land Cover Types with Major Point and Nonpoint Constituent Sources in the Plan Area



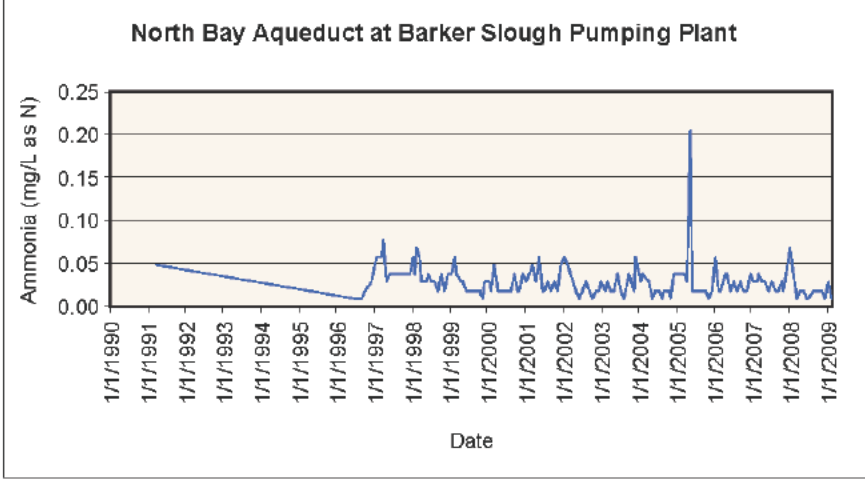
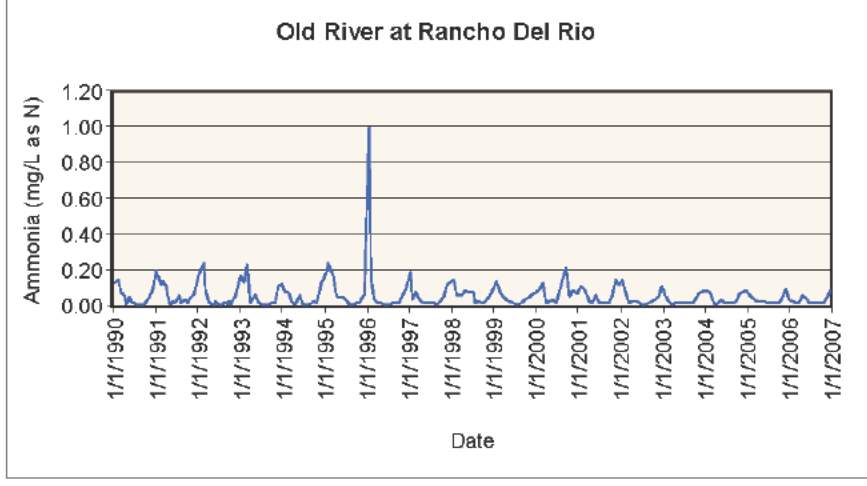
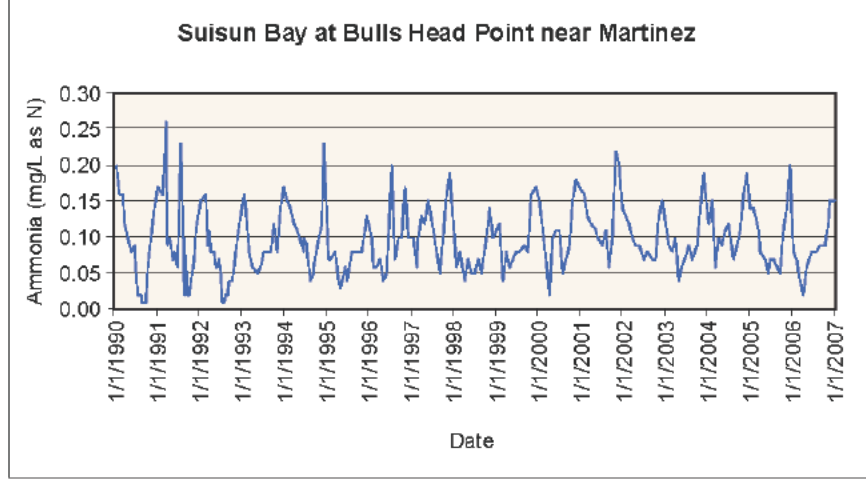
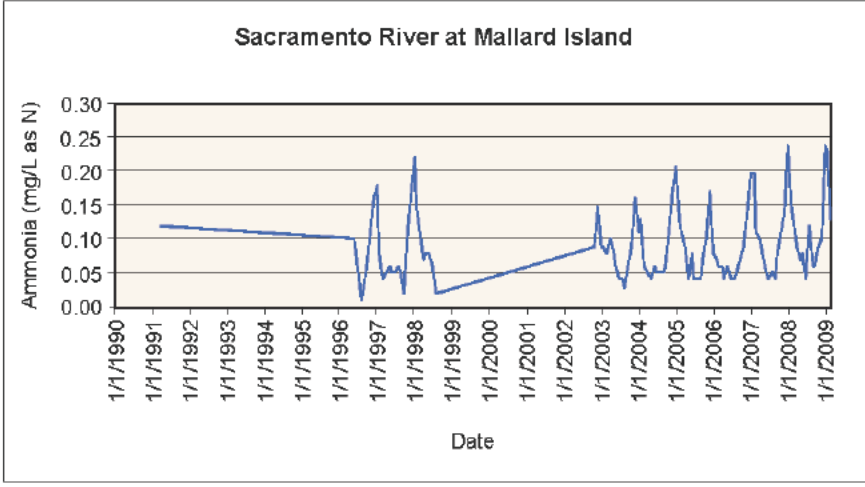
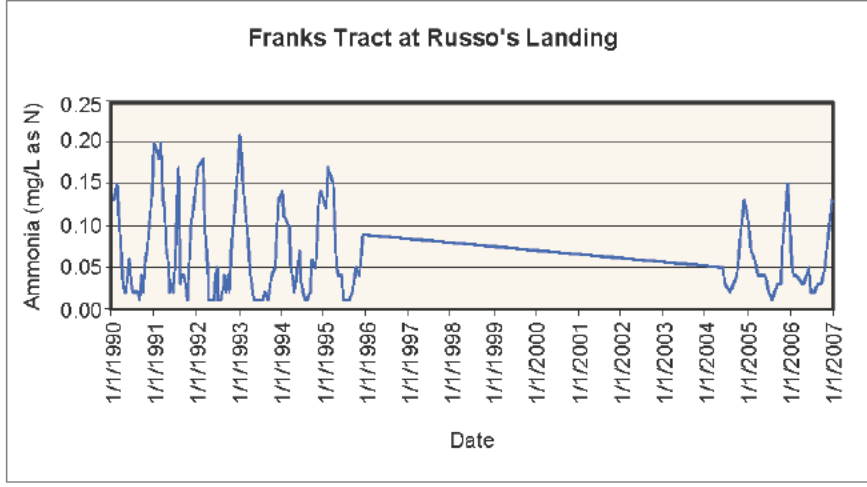
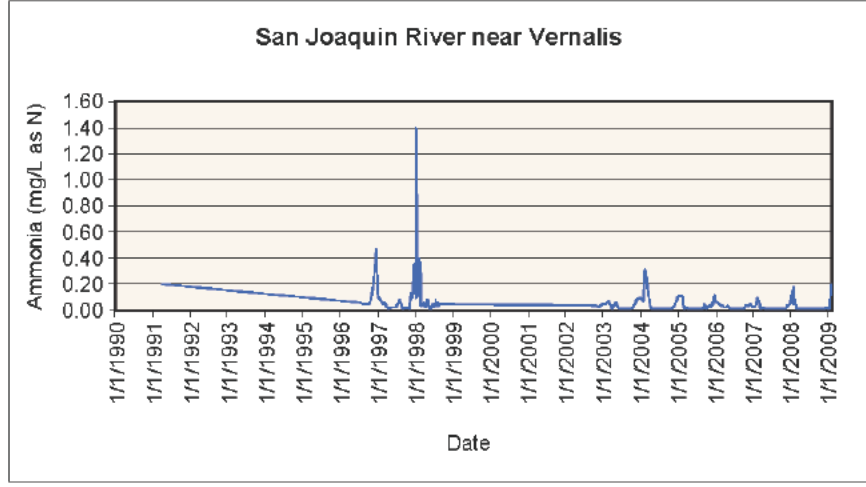
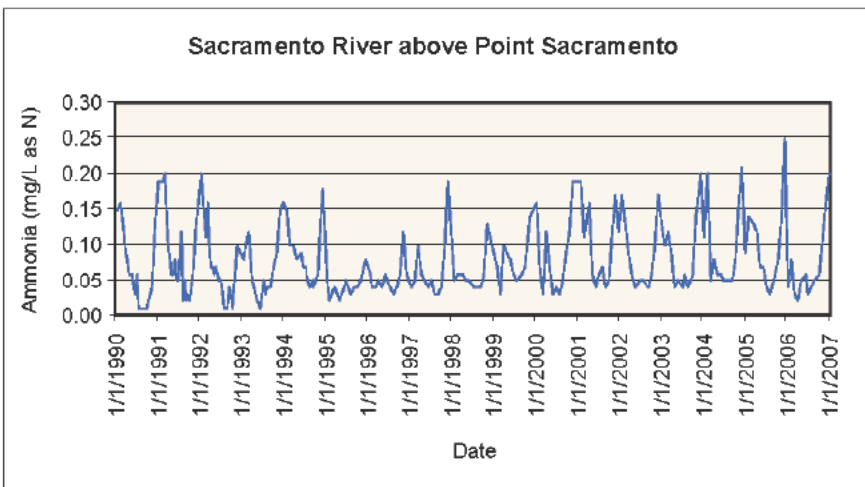
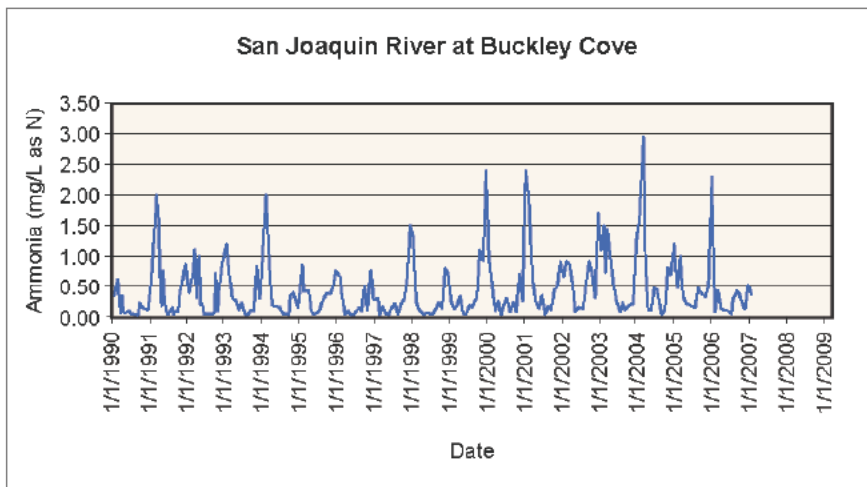
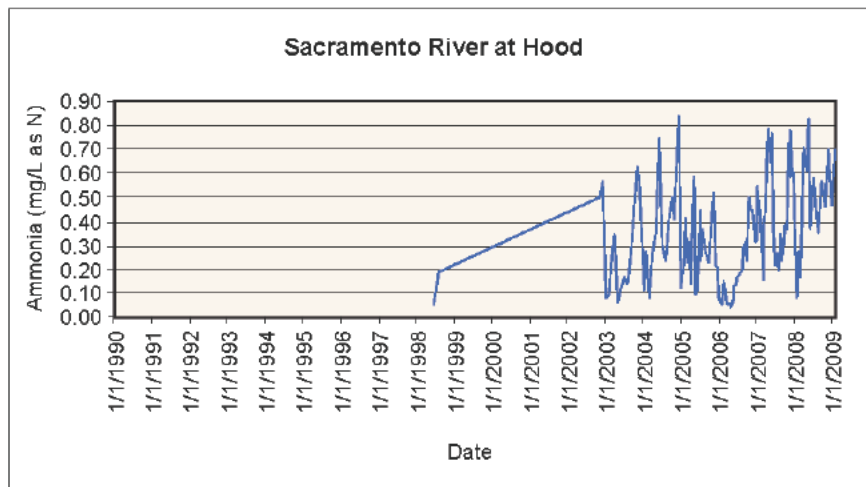
Sources: Plan Area, ICF 2012; Water Quality, EMP 1999; Dam Pumps, DWR 1994; SWPCVP Canals and Aqueducts, DWR-HDR 2009.

Figure 8-7
Surface Water Quality Monitoring Locations in the Project Area



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NA P 2010; Hydrology, HDR 2010; Water Quality, EMP 1999.

Figure 8-8
Spatial Summary of Ammonia Data at Delta Stations (2001 - 2006)

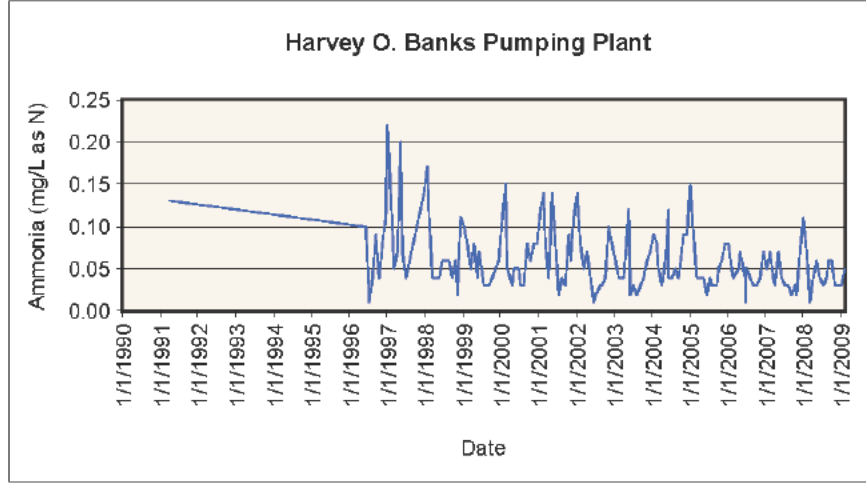
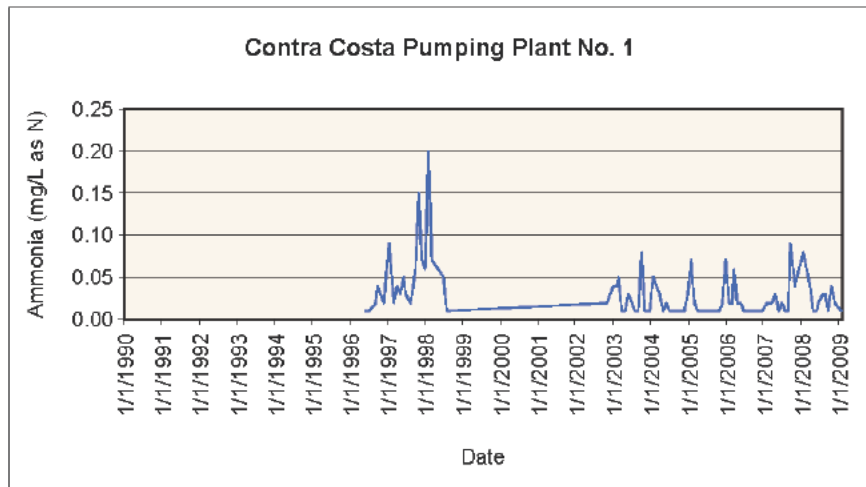


Notes: mg/L = milligram per liter; N = nitrogen

Source: HDR 2009

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Unique ID: HDR 0166a Date Created: 07/14/2010

Figure 8-9a
Temporal Summary of Ammonia Data at Delta Stations

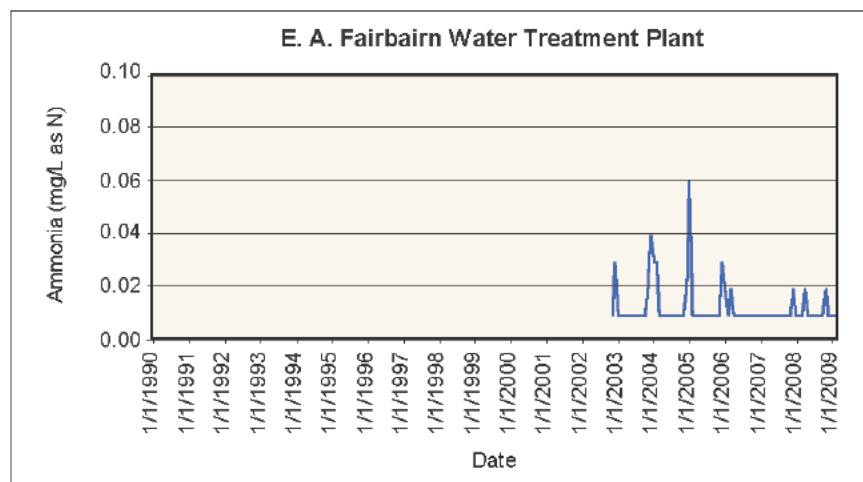
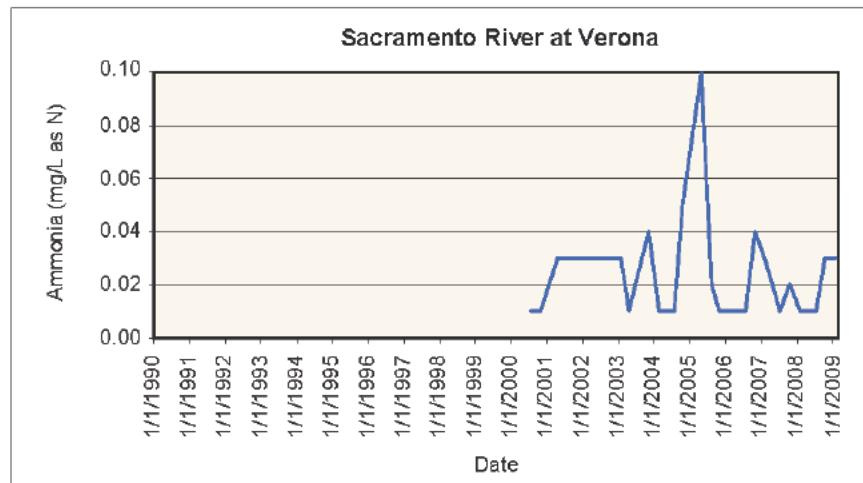
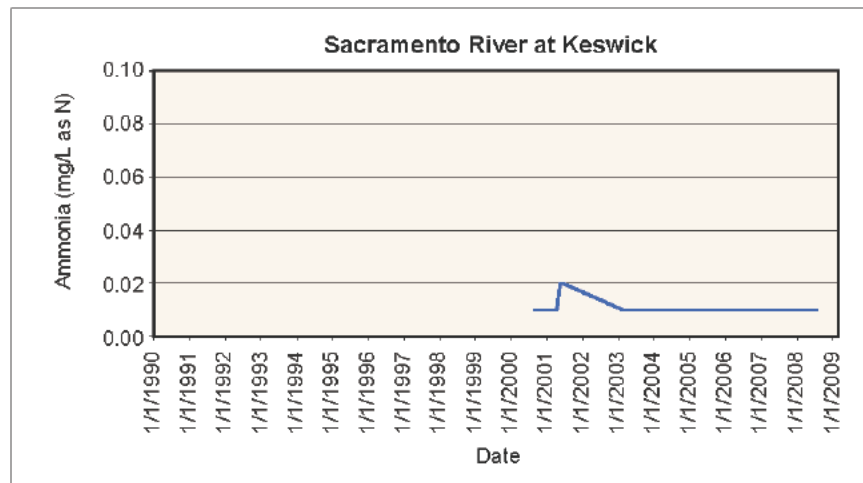


Notes: mg/L = milligram per liter; N = nitrogen

Source: HDR 2009

BDCP EIR/EIS
Unique ID: HDR 0166b Date Created: 07/14/2010

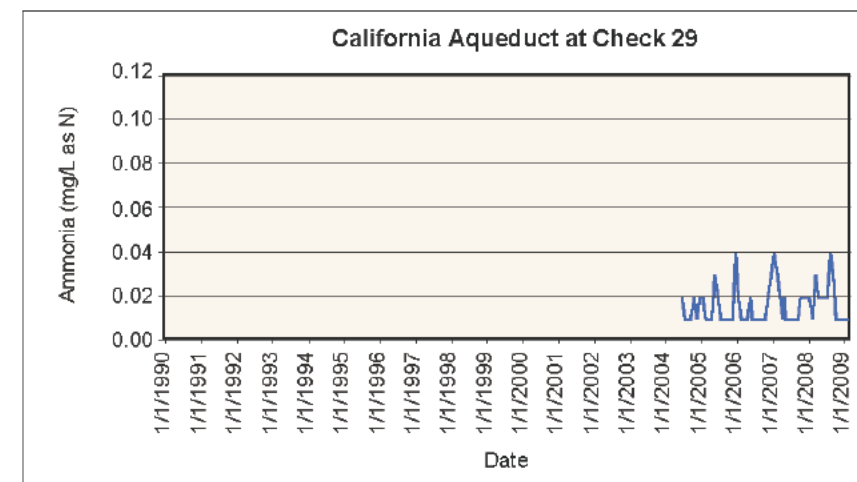
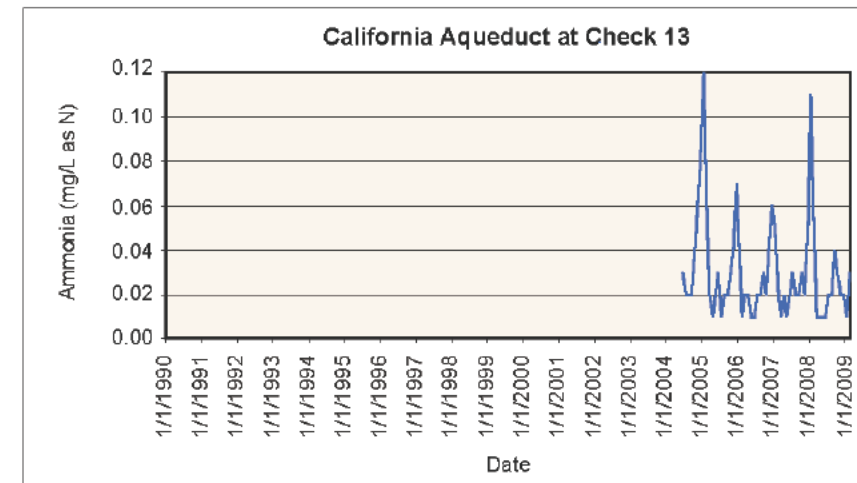
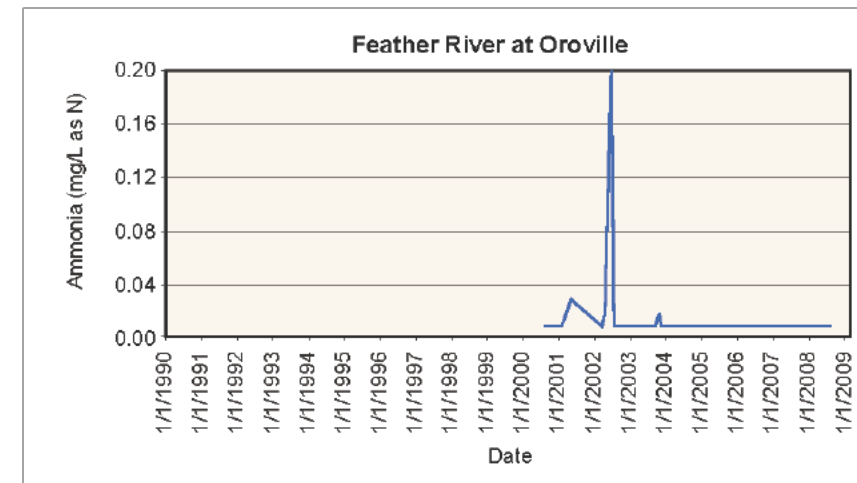
Figure 8-9b
Temporal Summary of Ammonia Data at Delta Stations



Notes: mg/L = milligram per liter; N = nitrogen

Source: HDR 2010

BDCP EIR/EIS
Unique ID: HDR 0527a Date Created: 07/14/2010

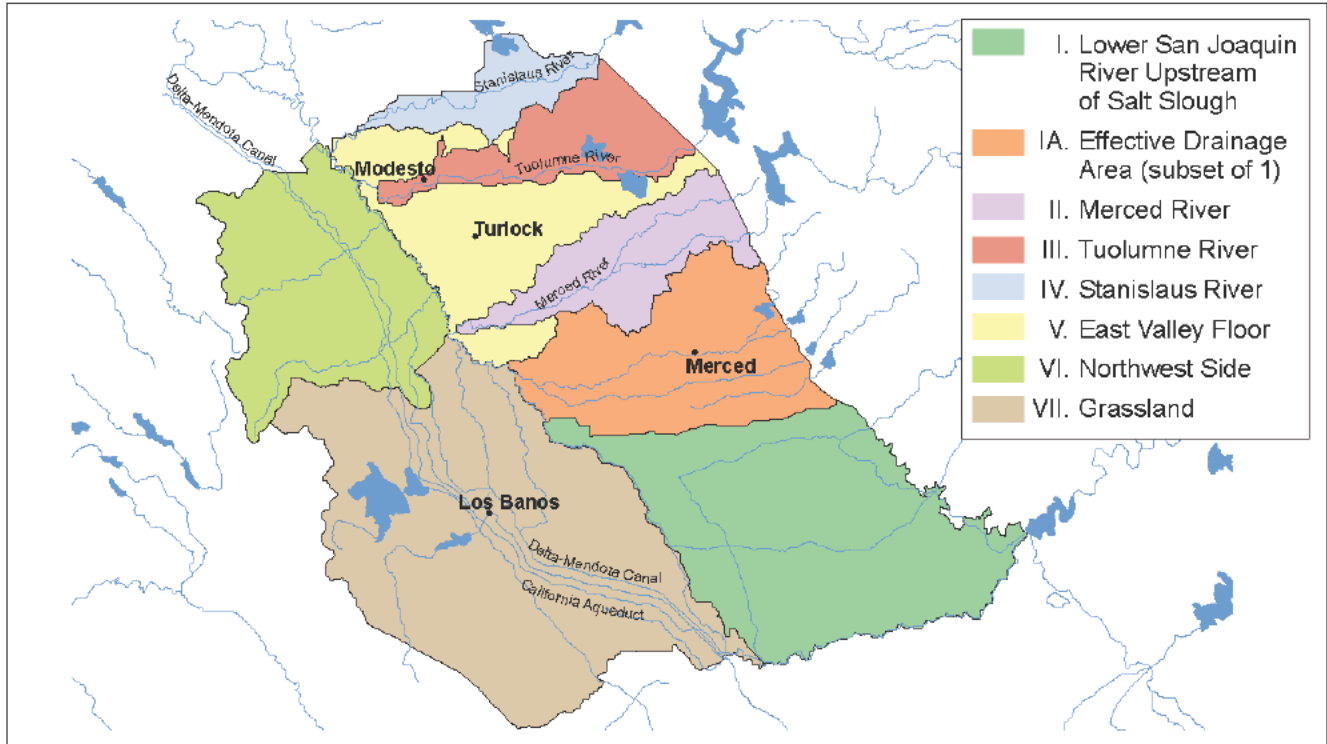


Notes: mg/L = milligram per liter; N = nitrogen

Source: HDR 2010

BDCP EIR/EIS
Unique ID: HDR 0527b Date Created: 07/14/2010

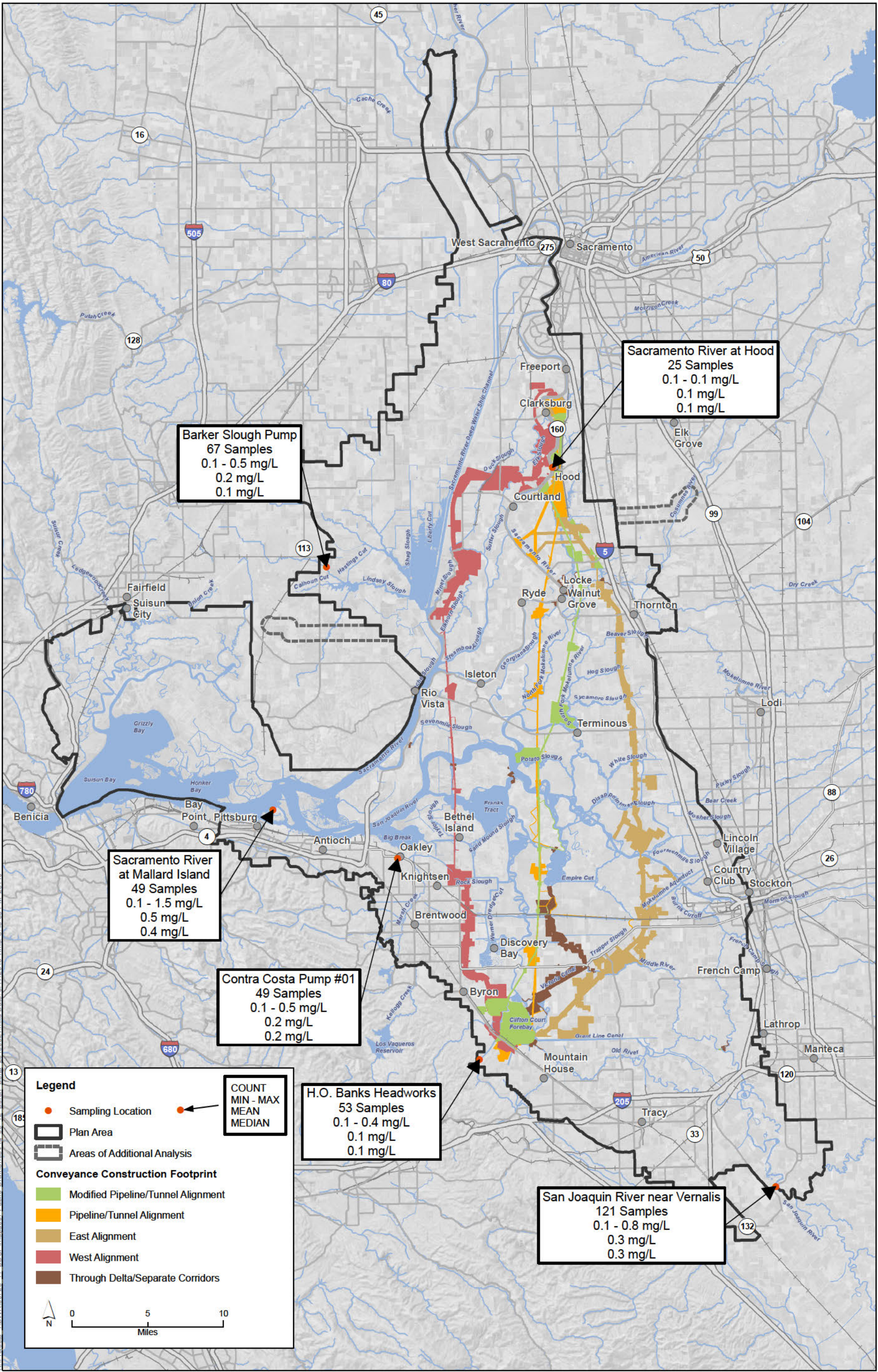
Figure 8-10
Temporal Summary of Ammonia Data at North of Delta and South of Delta Stations



Source: CEPA 2002

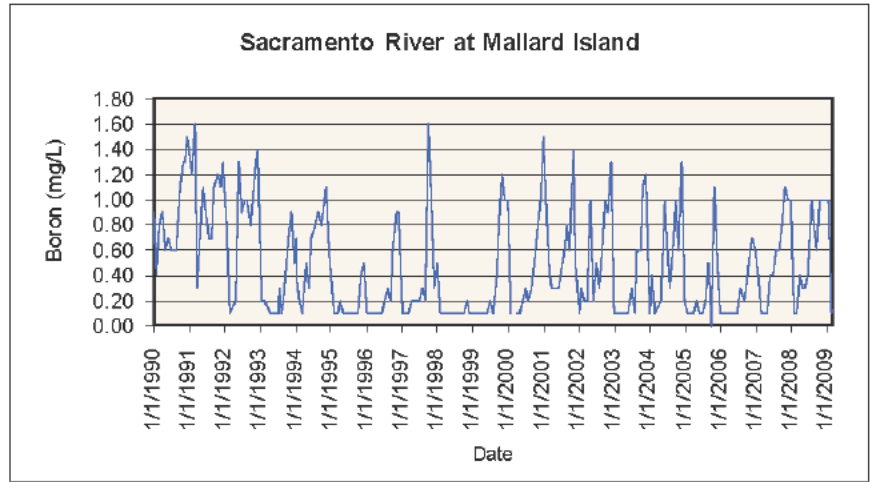
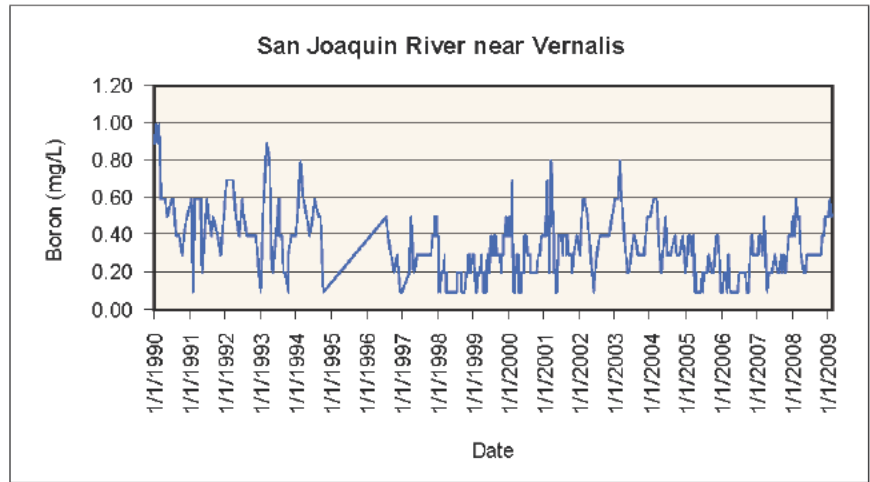
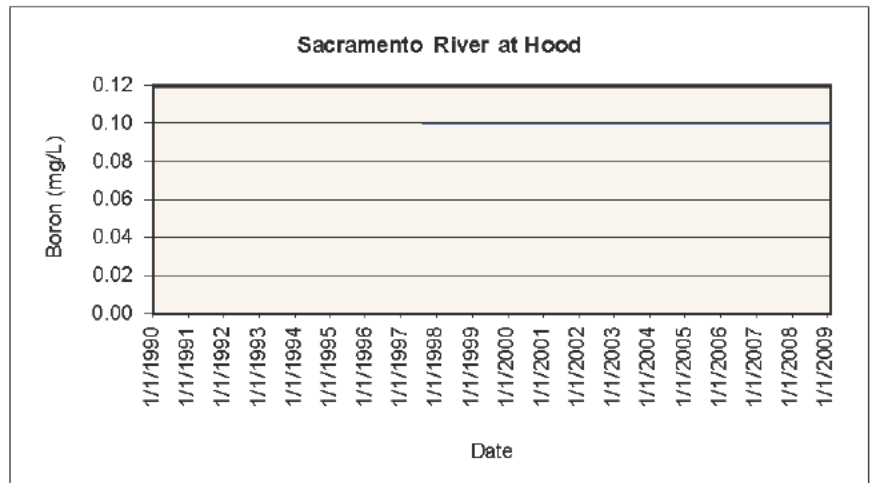
BDCP EIR/EIS
 Unique ID: HDR 0140 Date Created: 07/14/2010

Figure 8-11
Lower San Joaquin River Subareas



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NA P 2010; Hydrology, HDR 2010; Water Quality, EMP 1999.

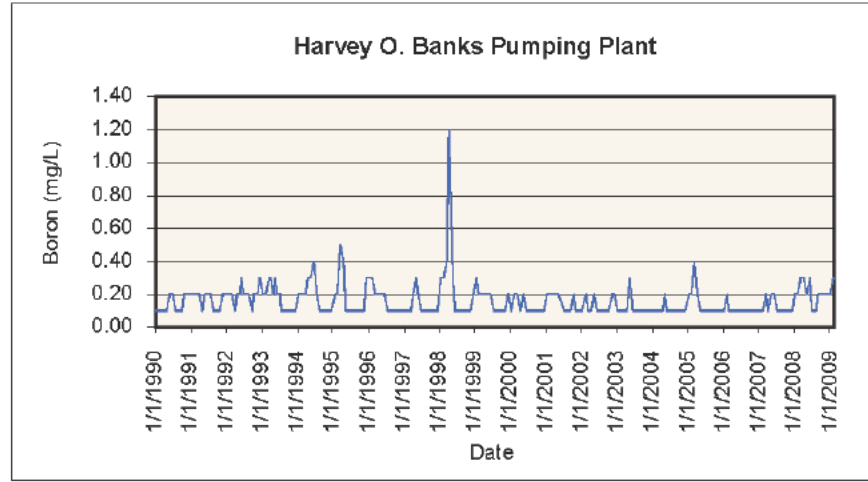
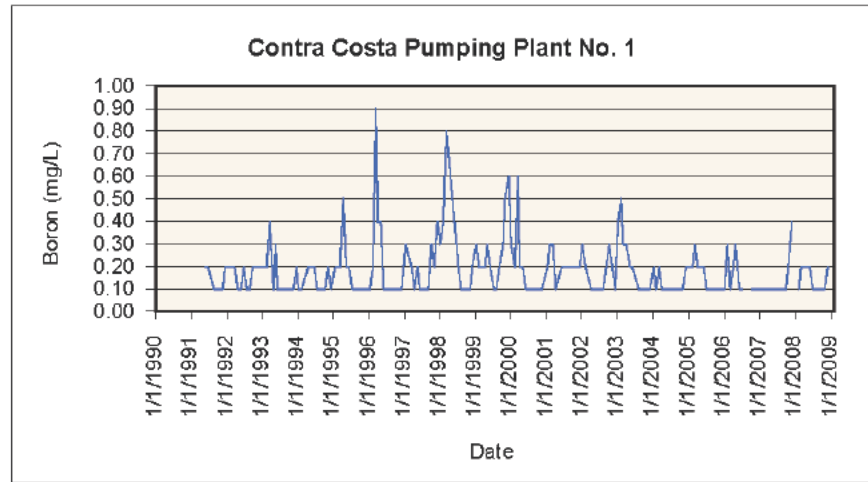
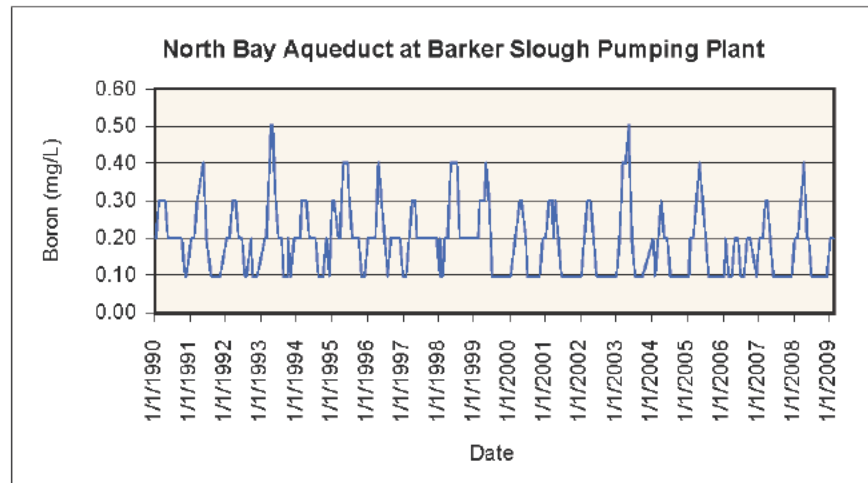
Figure 8-12
Spatial Summary of Boron Data at Delta Stations (2001 - 2006)



Note: mg/L = milligram per liter

Source: HDR 2009

BDCP EIR/EIS
Unique ID: HDR 0171a Date Created: 07/14/2010

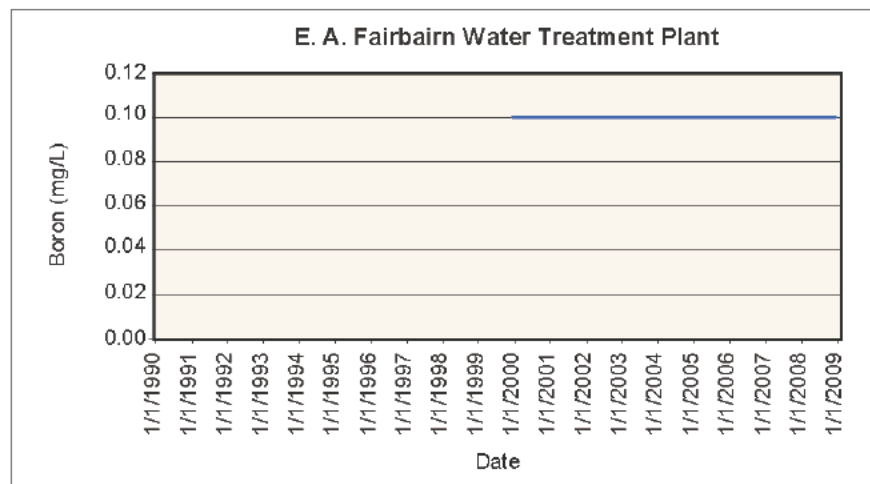
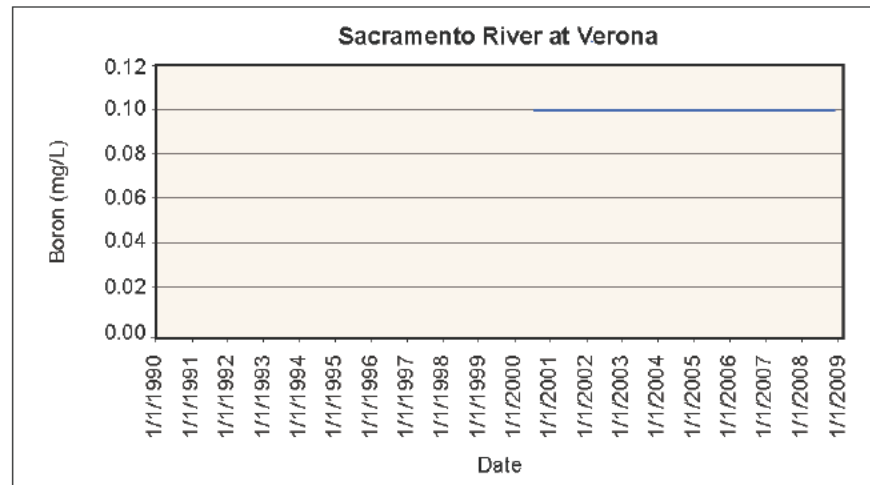
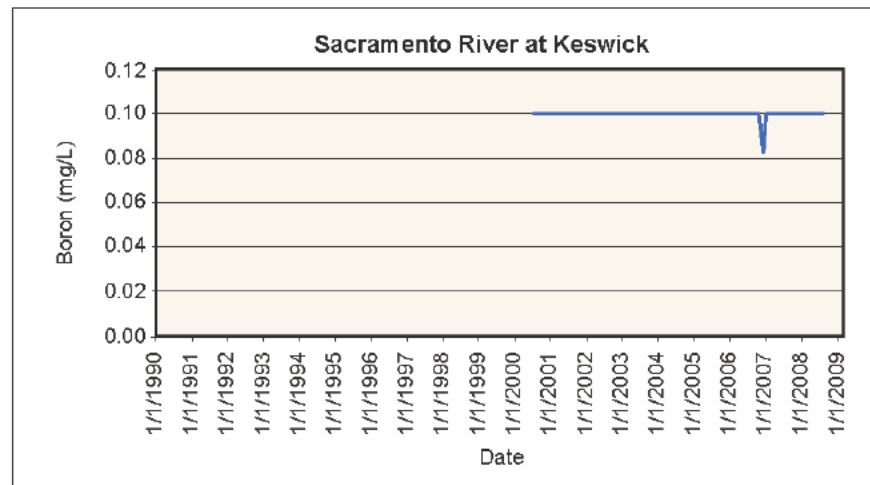


Note: mg/L = milligram per liter

Source: HDR 2009

BDCP EIR/EIS
Unique ID: HDR 0171b Date Created: 07/14/2010

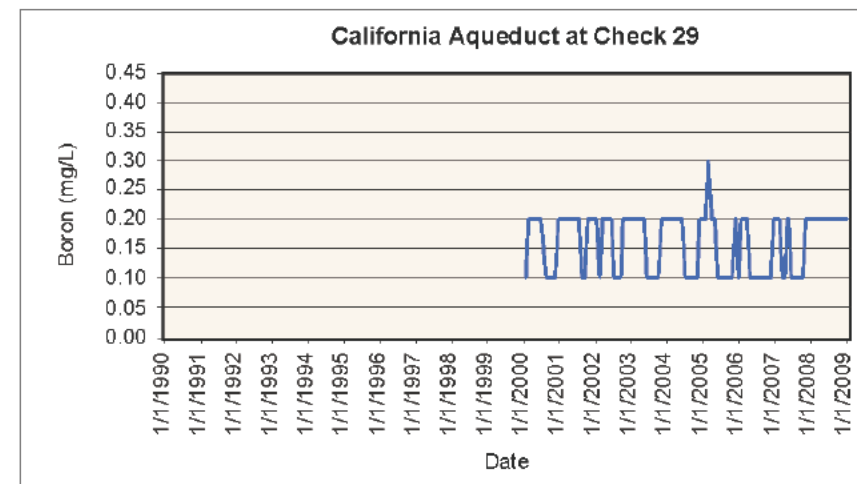
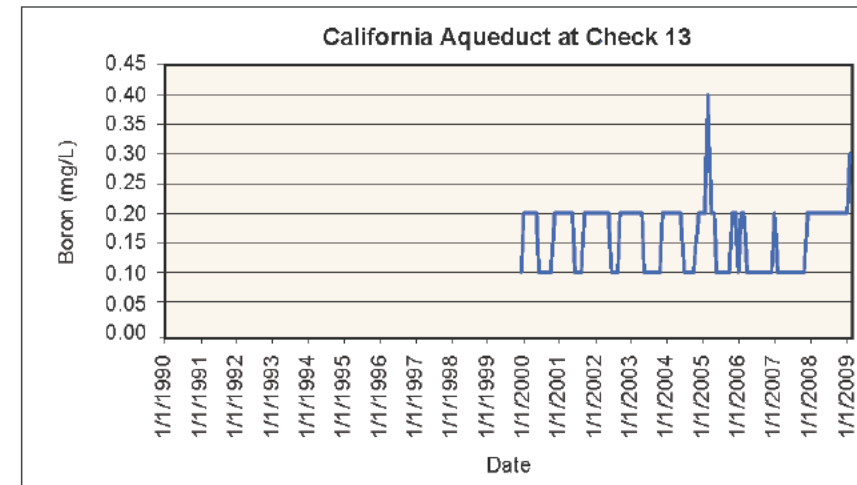
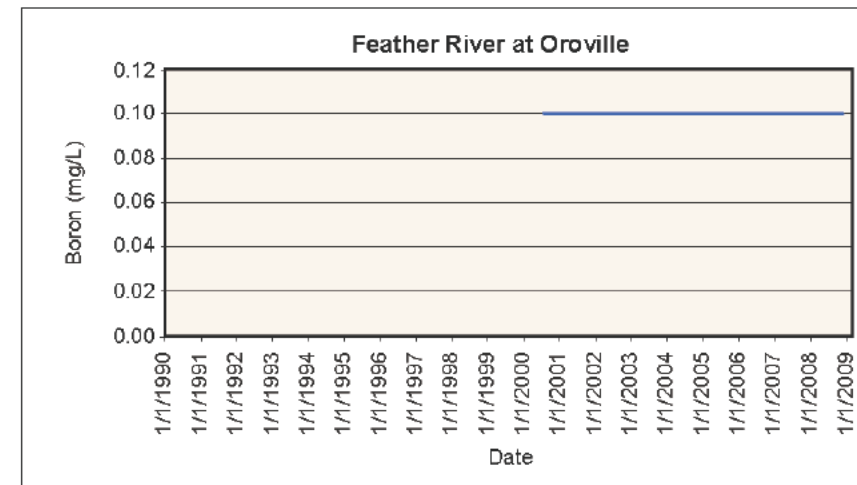
Figure 8-13
Temporal Summary of Boron Data at Delta Stations



Note: mg/L = milligram per liter

Source: HDR 2010

BDCP EIR/EIS
Unique ID: HDR 0531a Date Created: 07/14/2010

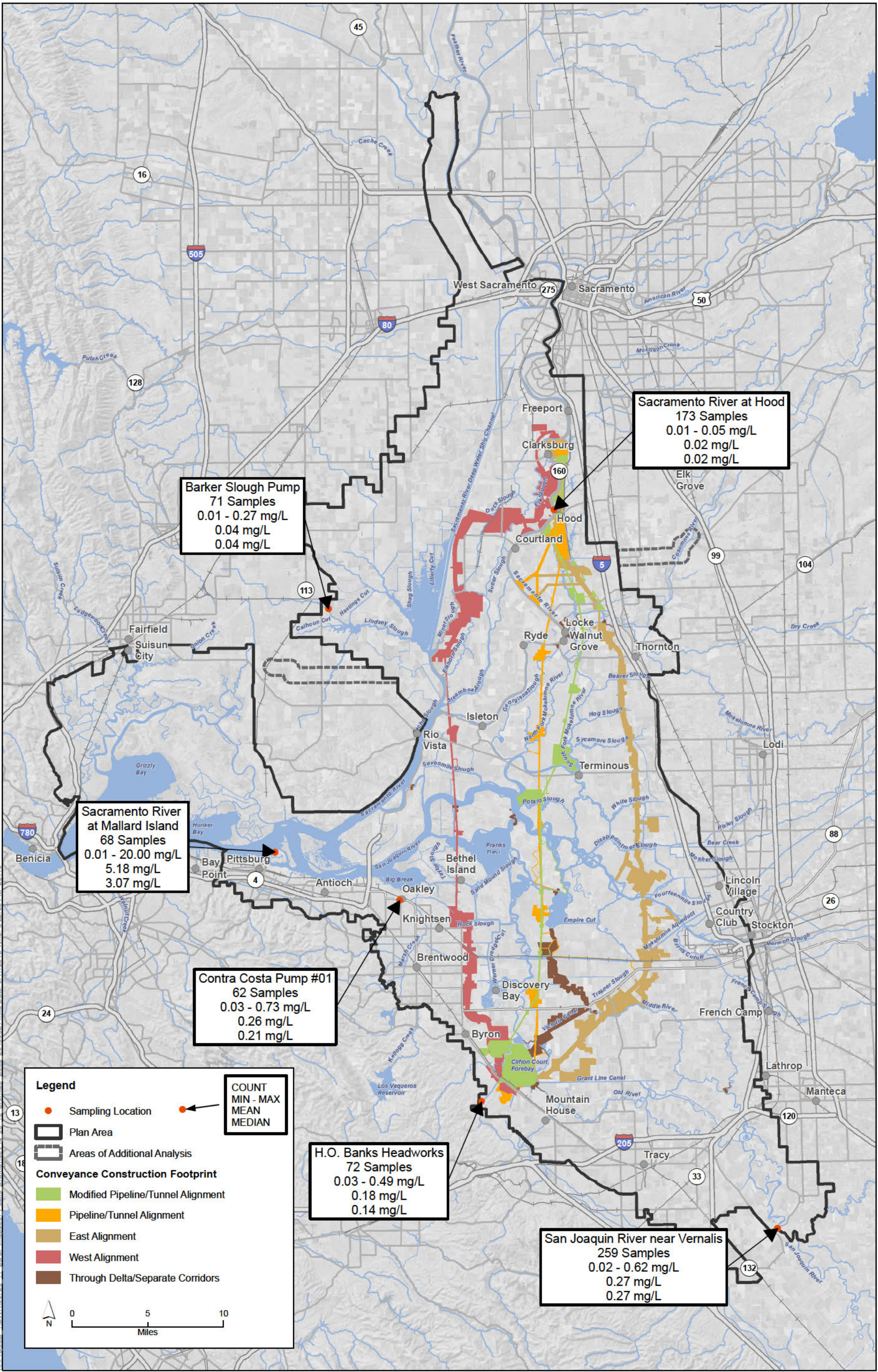


Note: mg/L = milligram per liter

Source: HDR 2010

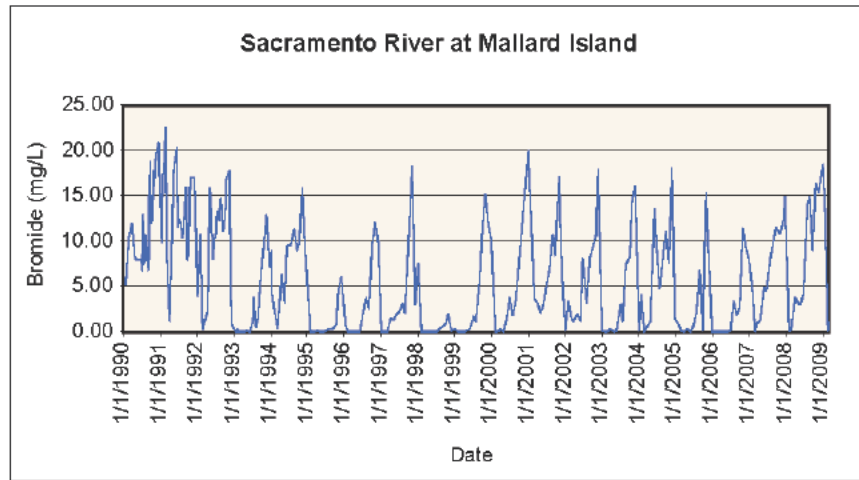
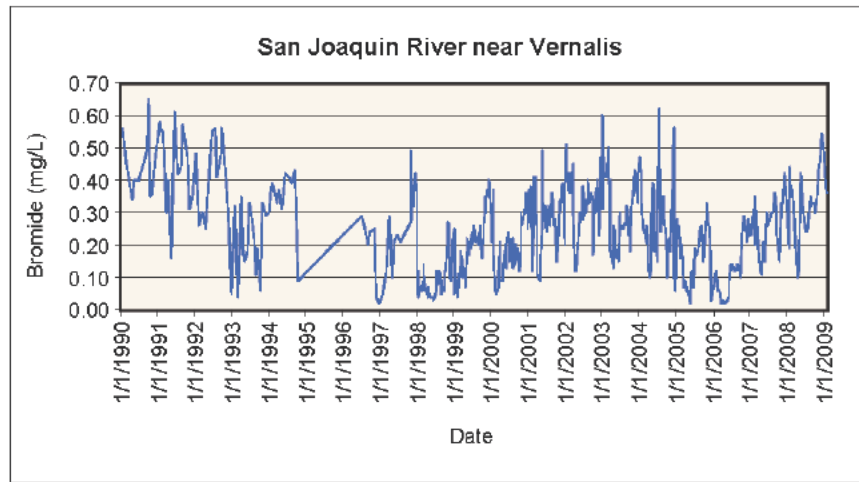
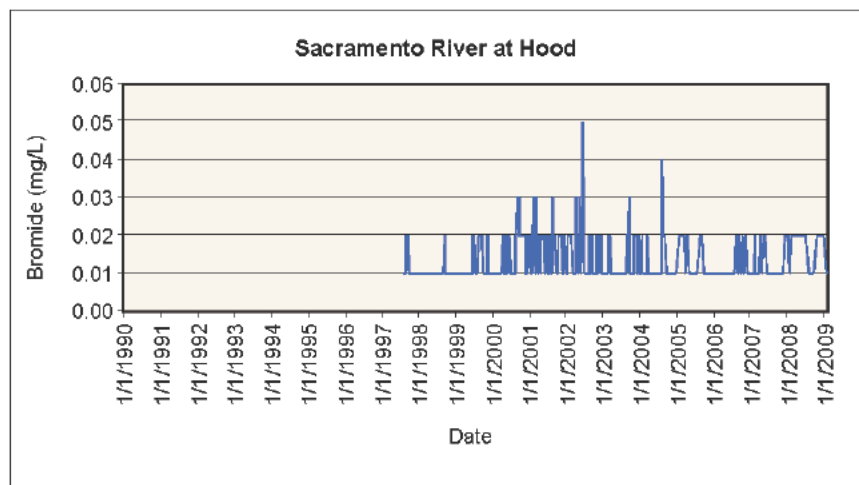
BDCP EIR/EIS
Unique ID: HDR 0531b Date Created: 07/14/2010

Figure 8-14
Temporal Summary of Boron Data at North of Delta and South of Delta Stations



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NA P 2010; Hydrology, HDR 2010; Water Quality, EMP 1999.

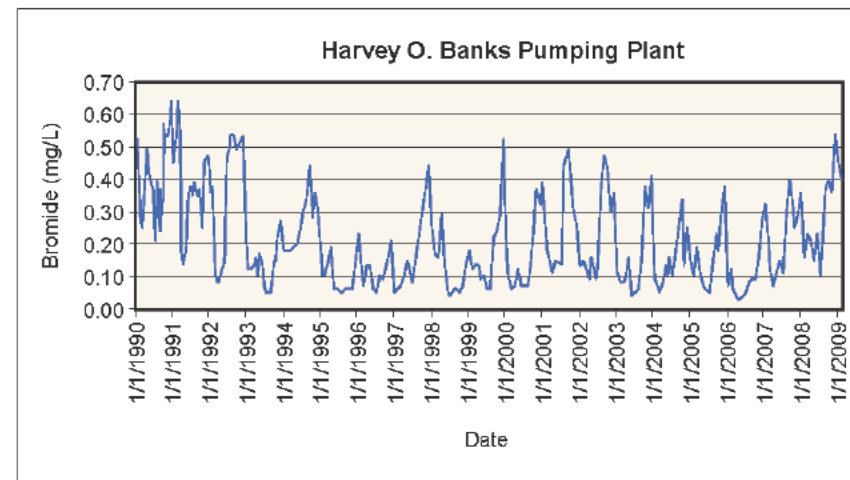
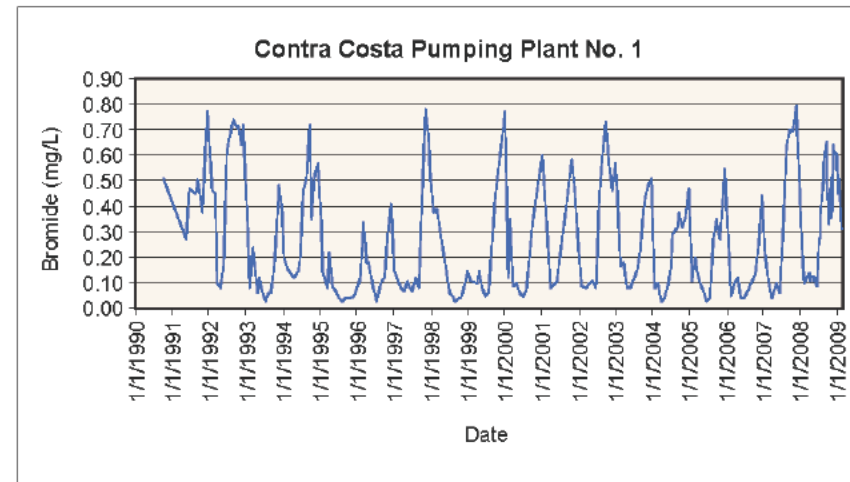
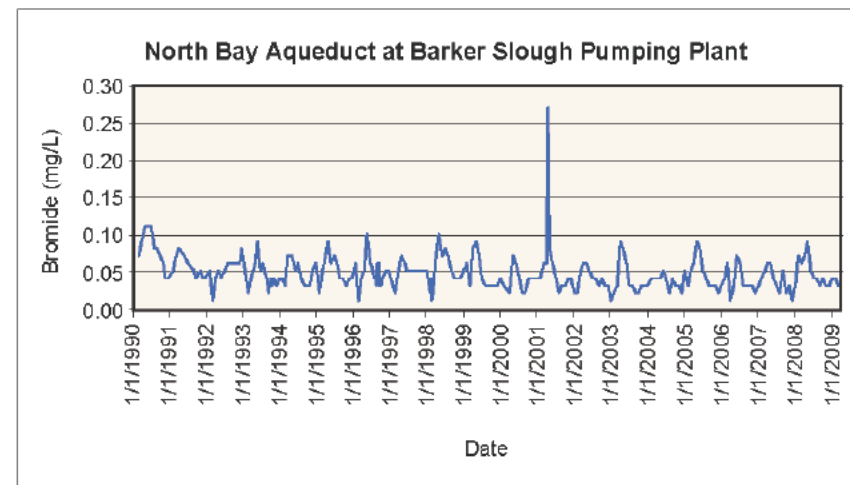
Figure 8-15
Spatial Summary of Bromide Data at Delta Stations (2001 - 2006)



Note: mg/L = milligram per liter

Source: HDR 2009

BDCP EIR/EIS
Unique ID: HDR 0159a Date Created: 07/14/2010

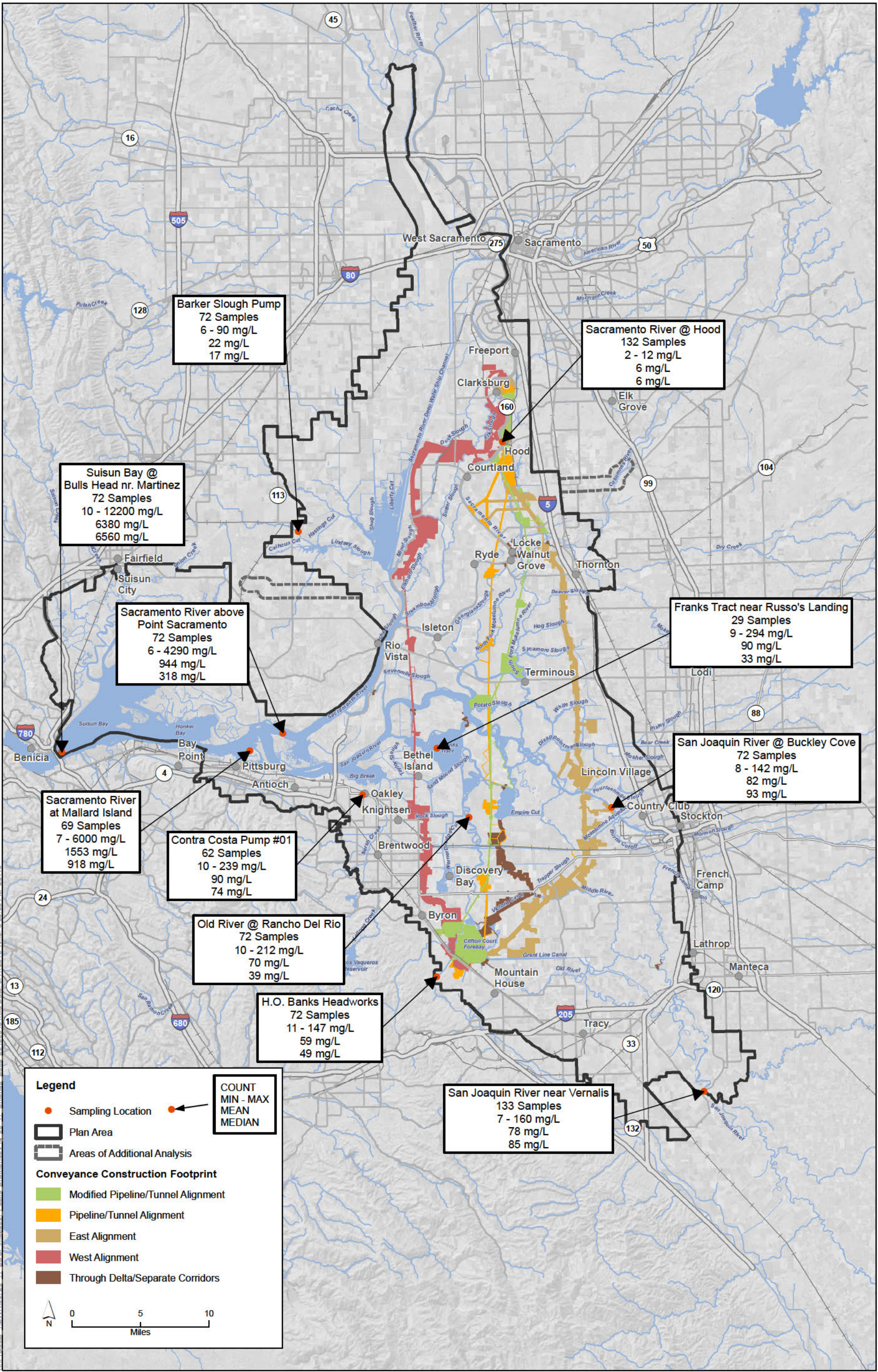


Note: mg/L = milligram per liter

Source: HDR 2009

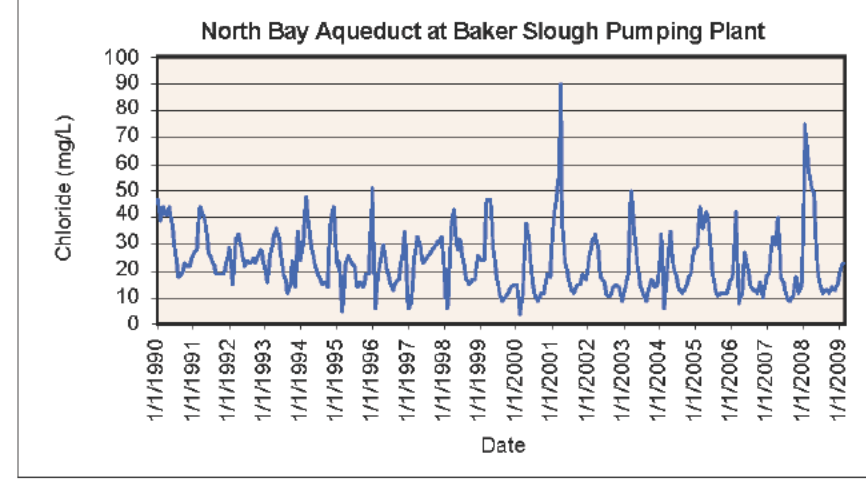
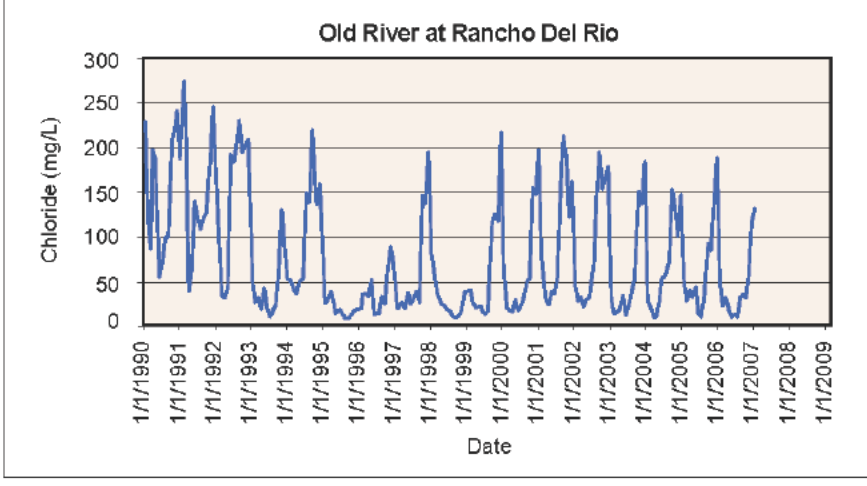
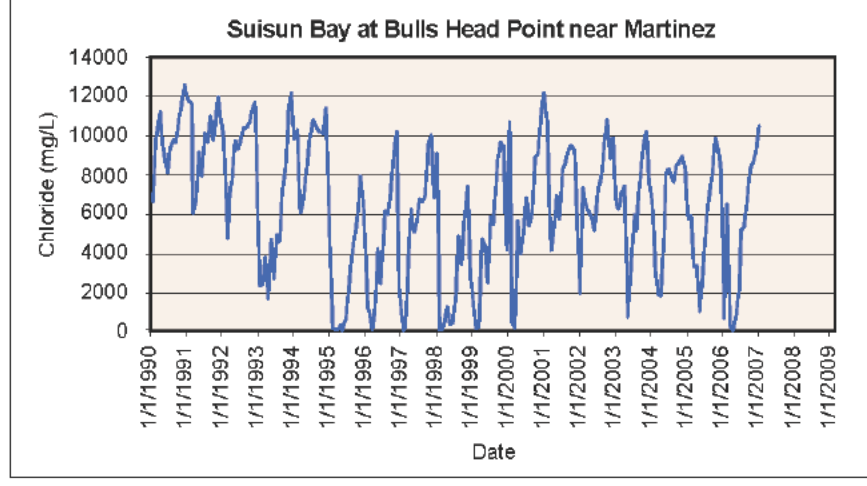
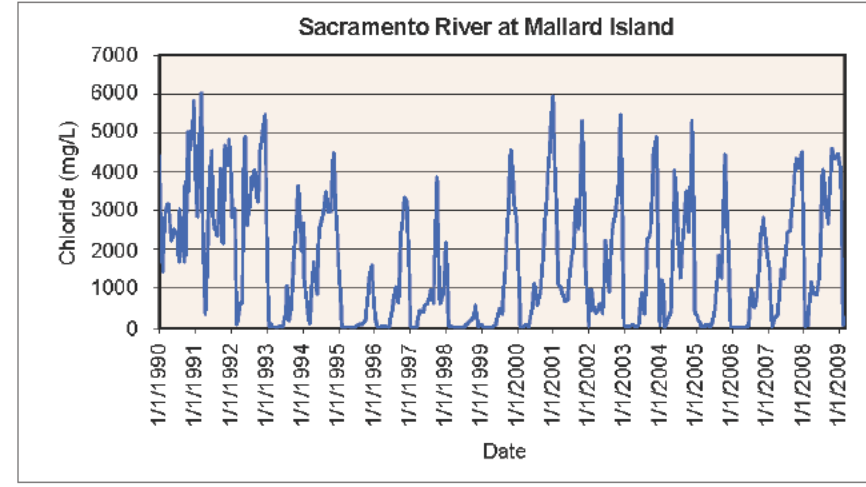
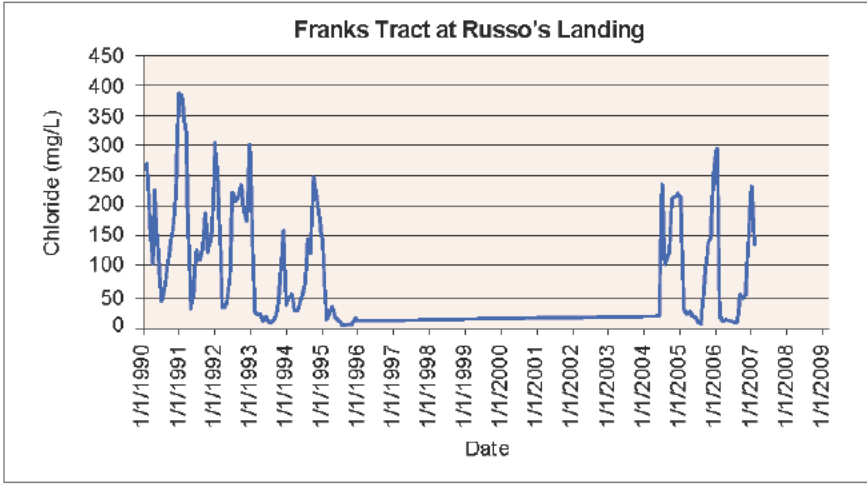
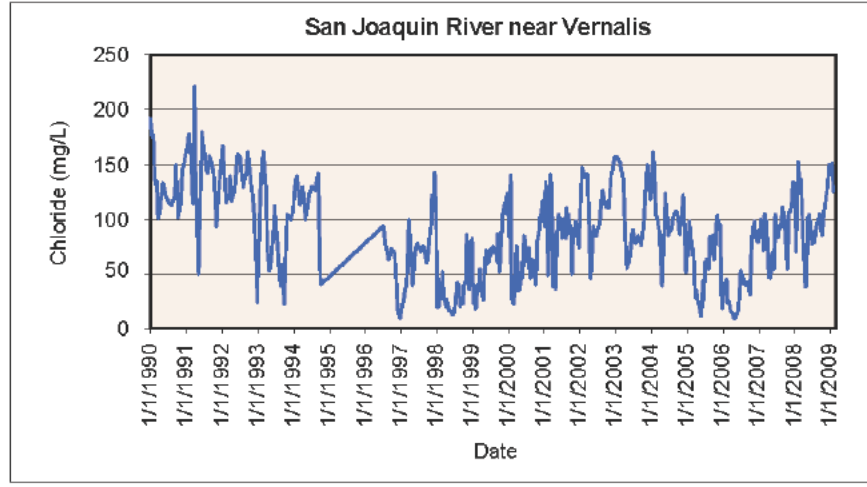
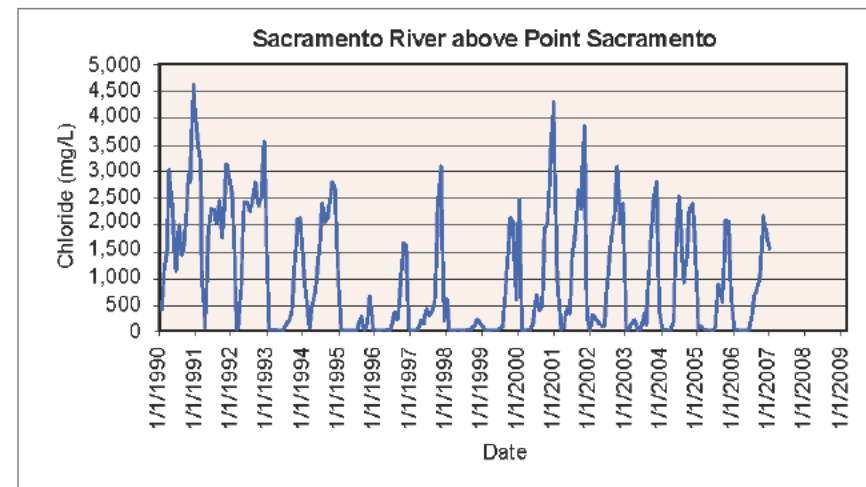
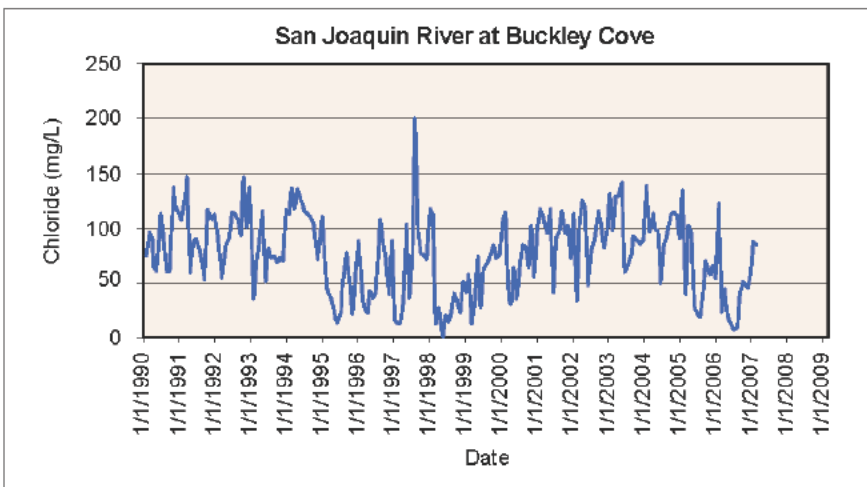
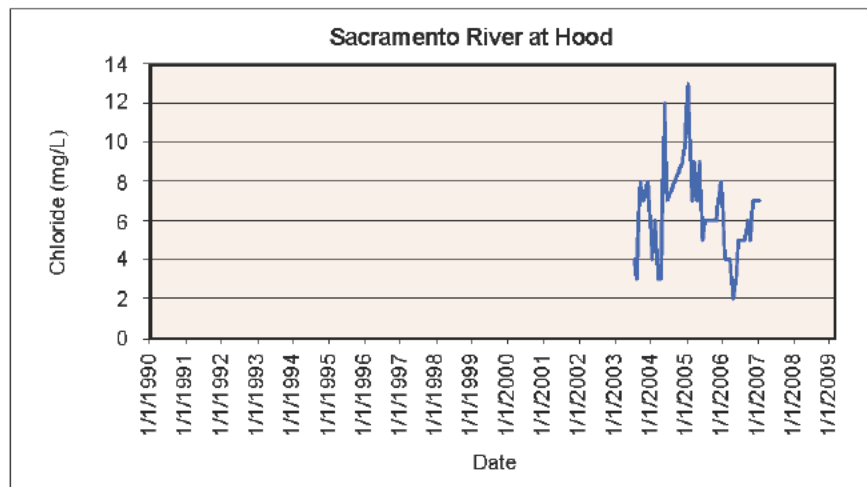
BDCP EIR/EIS
Unique ID: HDR 0159b Date Created: 07/14/2010

Figure 8-16
Temporal Summary of Bromide Data at Delta Stations



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NA P 2010; Hydrology, HDR 2010; Cities DWR 2010; Water Quality, EMP 1999.

Figure 8-17
Spatial Summary of Chloride Data at Delta Stations (2001 - 2006)

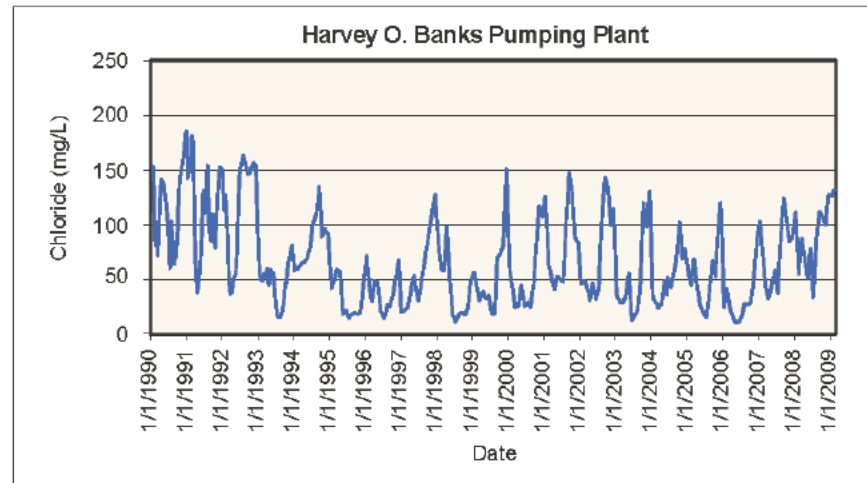
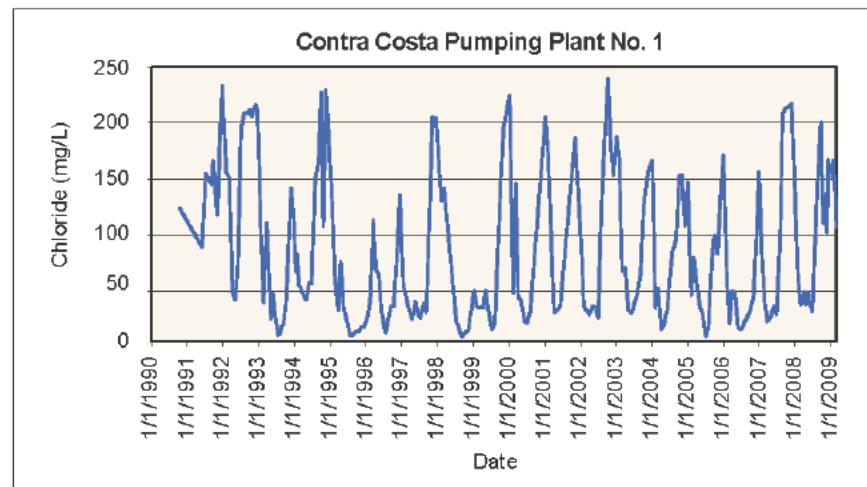


Note: mg/L = milligram per liter

Source: HDR 2010

BDCP EIR/EIS
Unique ID: HDR 0539a Date Created: 07/14/2010

Figure 8-18a
Temporal Summary of Chloride Data at Delta Stations



Note: mg/L = milligram per liter

Source: HDR 2010

BDCP EIR/EIS
Unique ID: HDR 0539b Date Created: 07/14/2010

Figure 8-18b
Temporal Summary of Chloride Data at Delta Stations

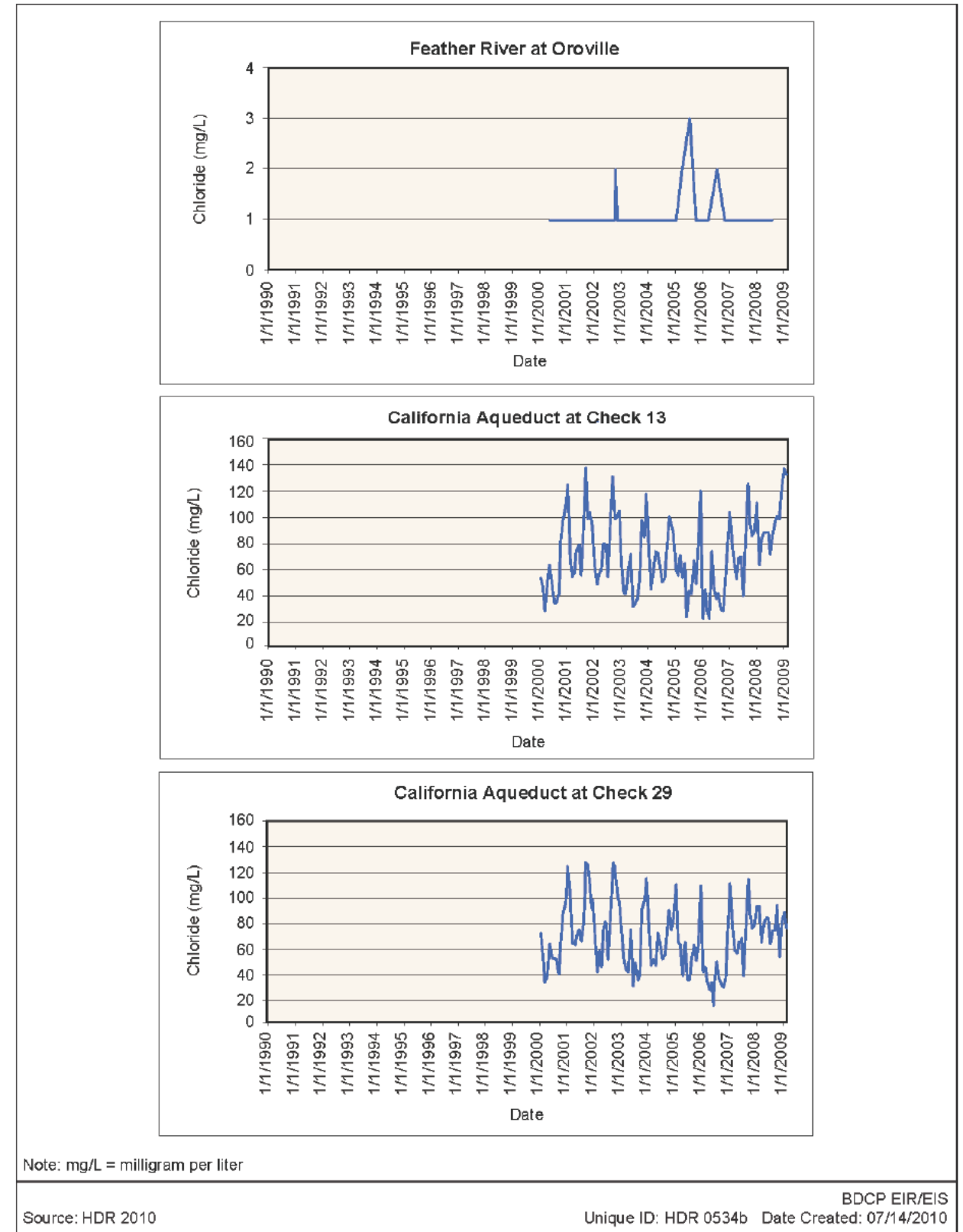
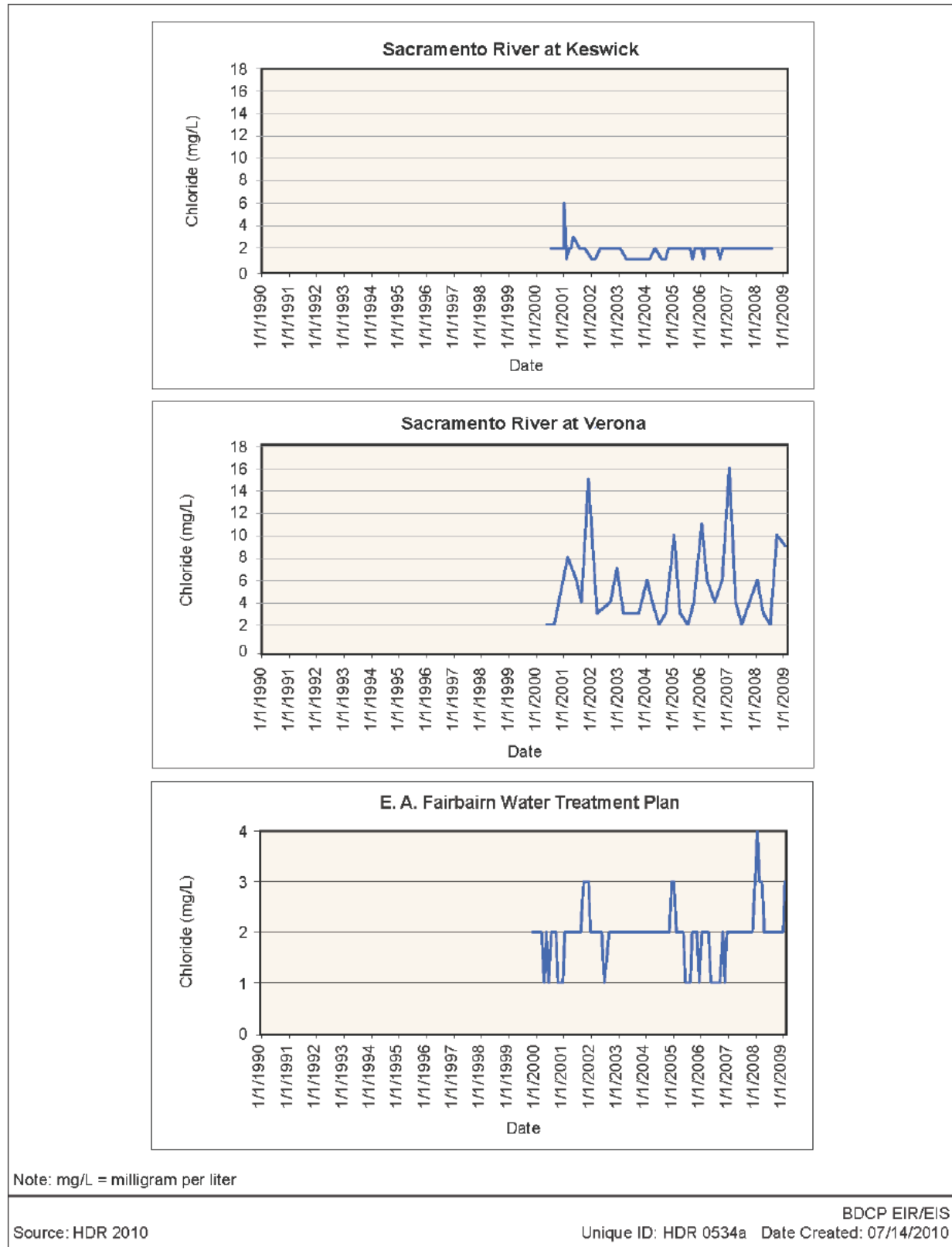


Figure 8-19
Temporal Summary of Chloride Data at North of Delta and South of Delta Stations

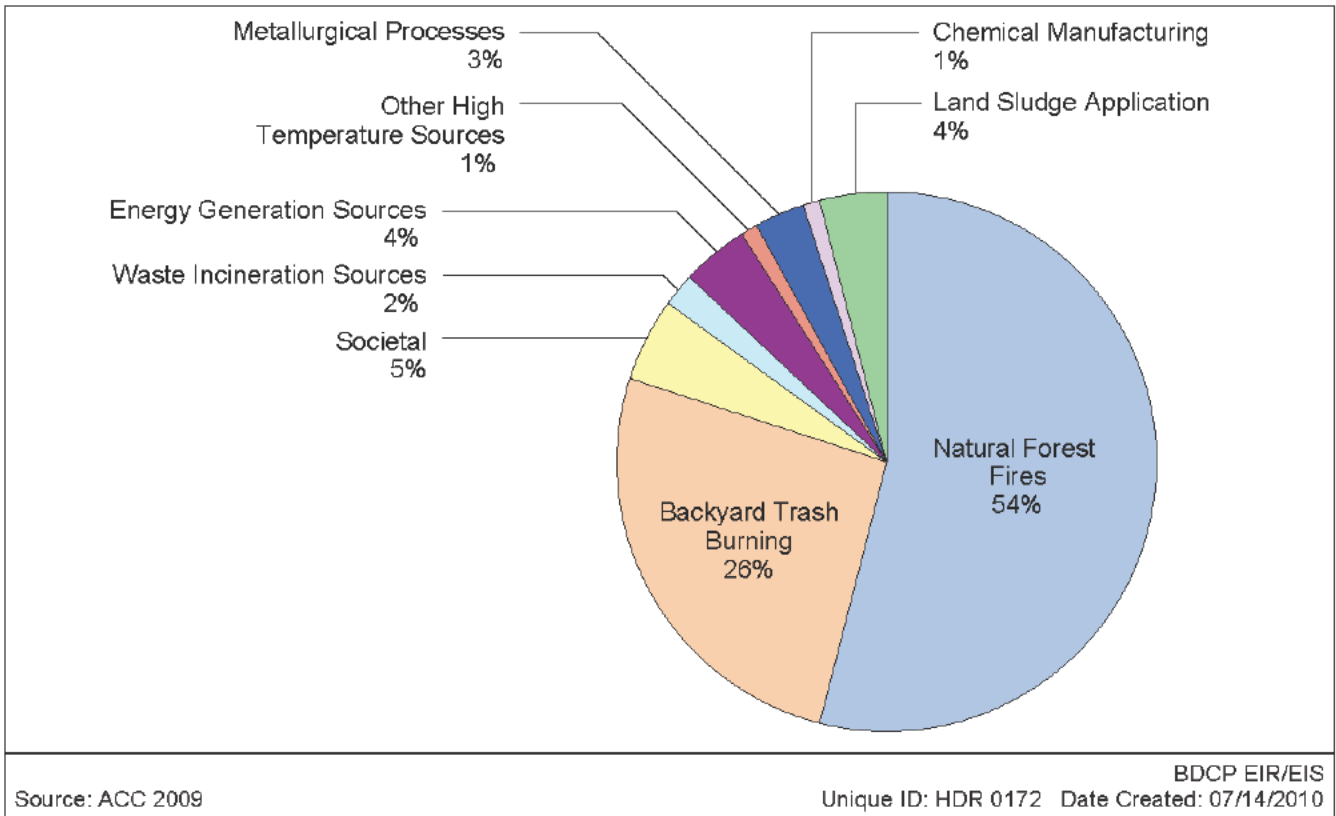
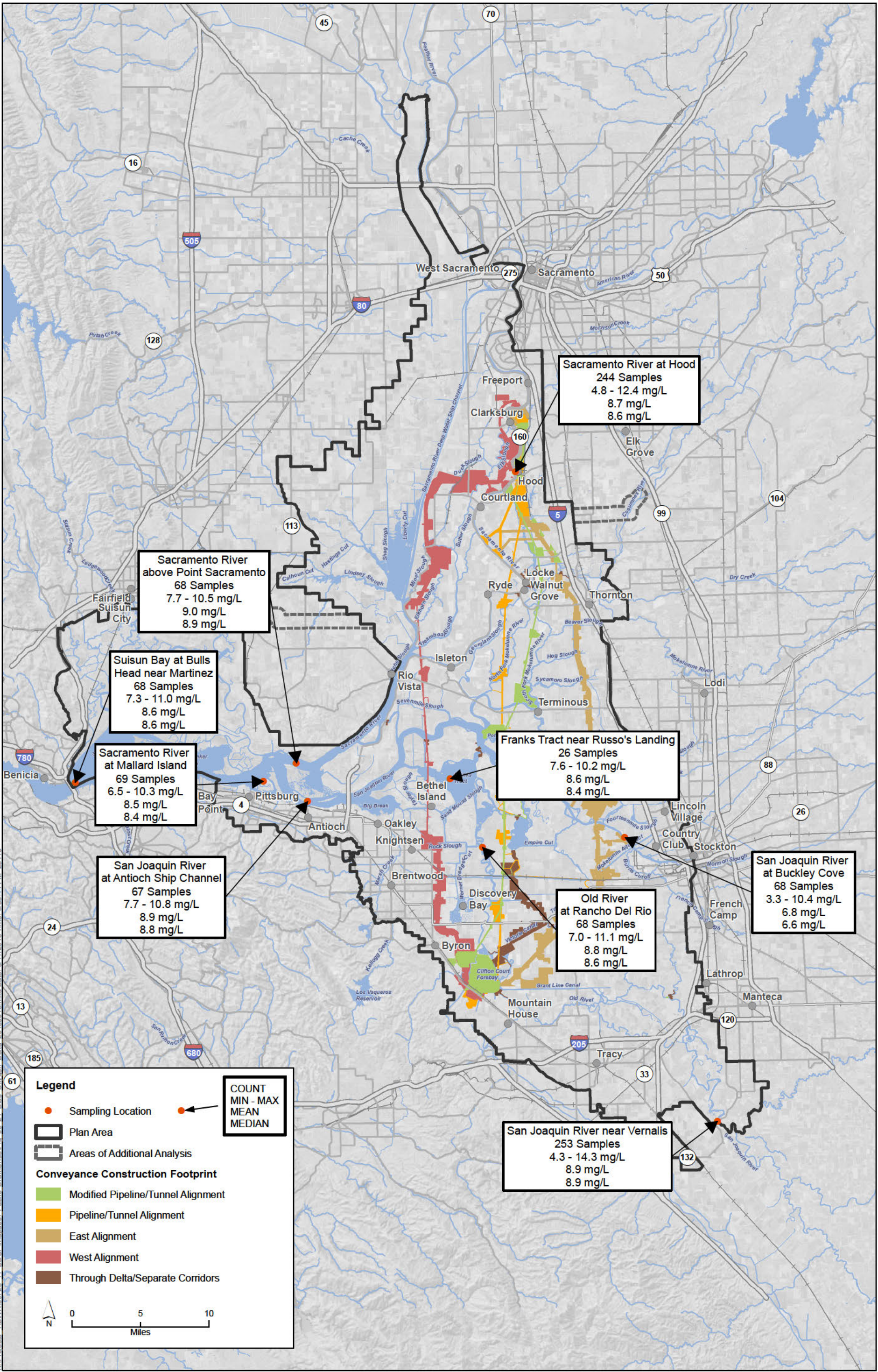
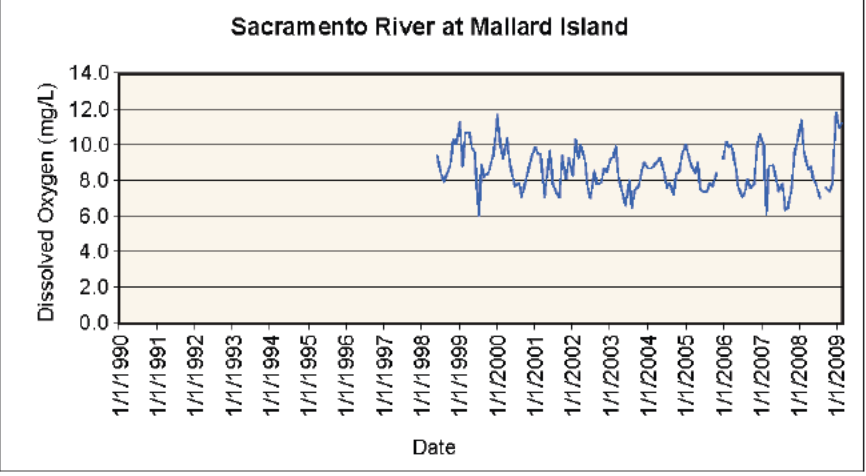
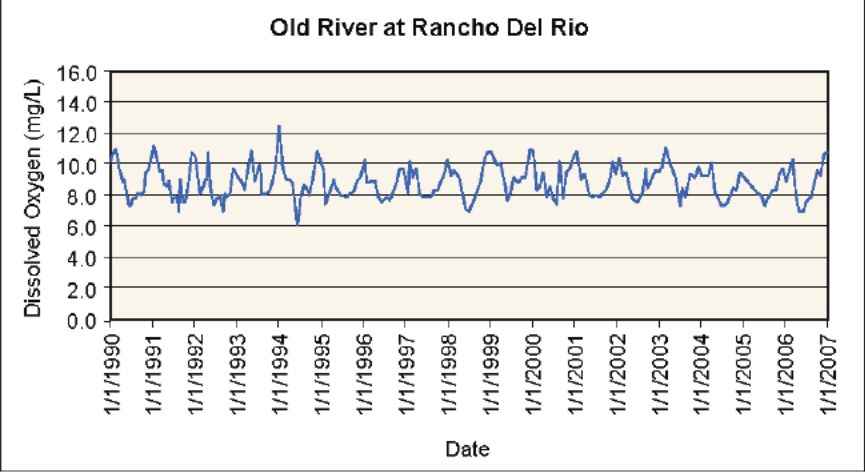
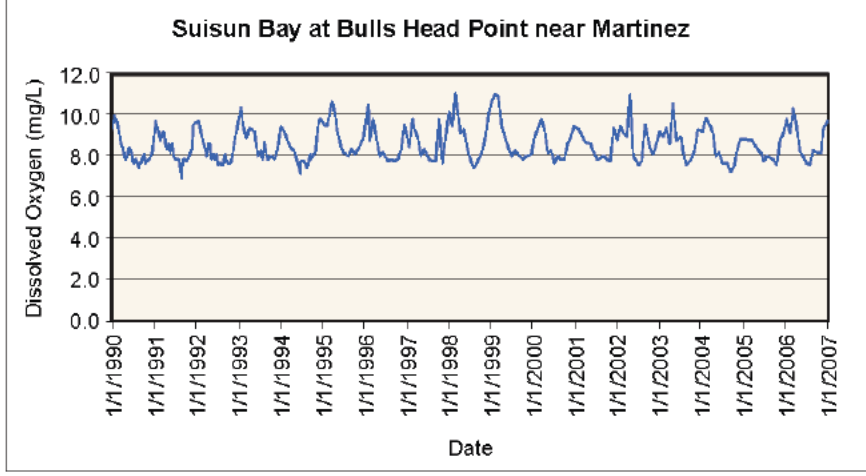
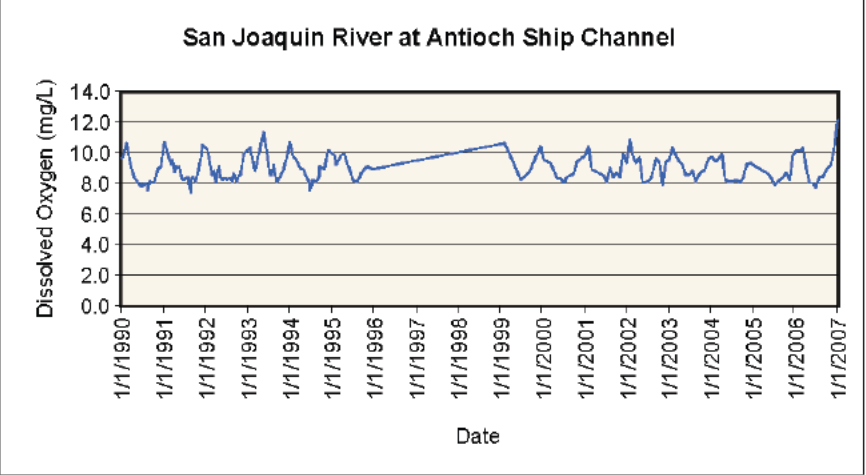
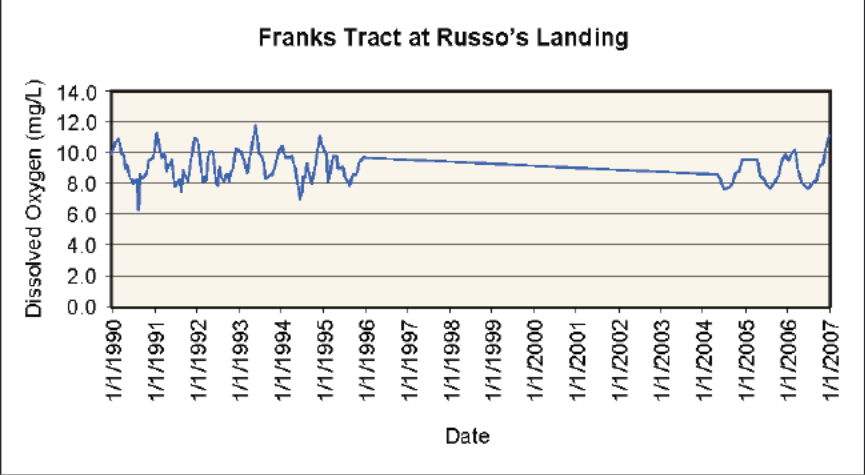
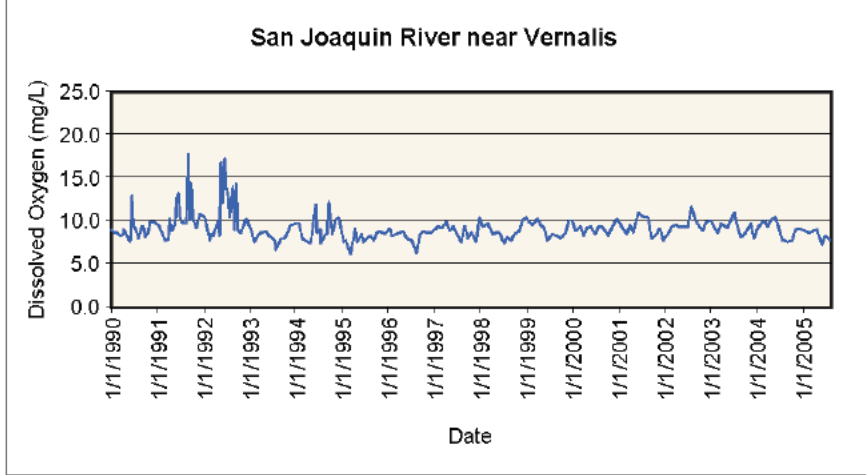
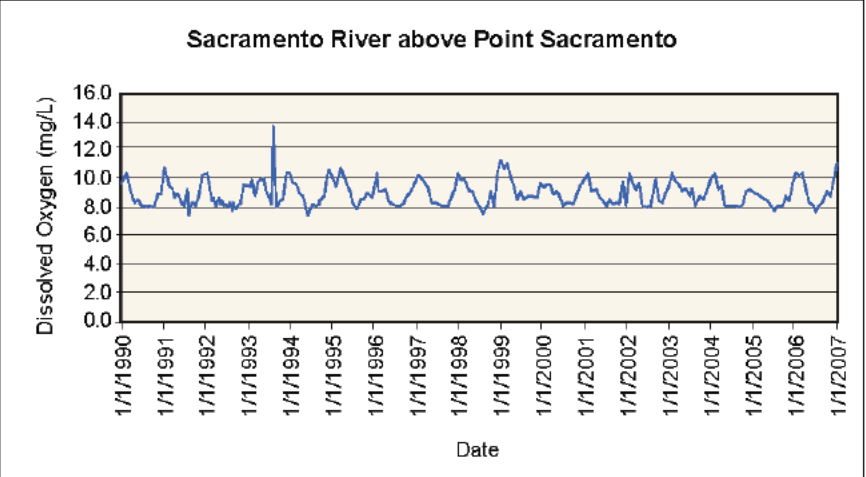
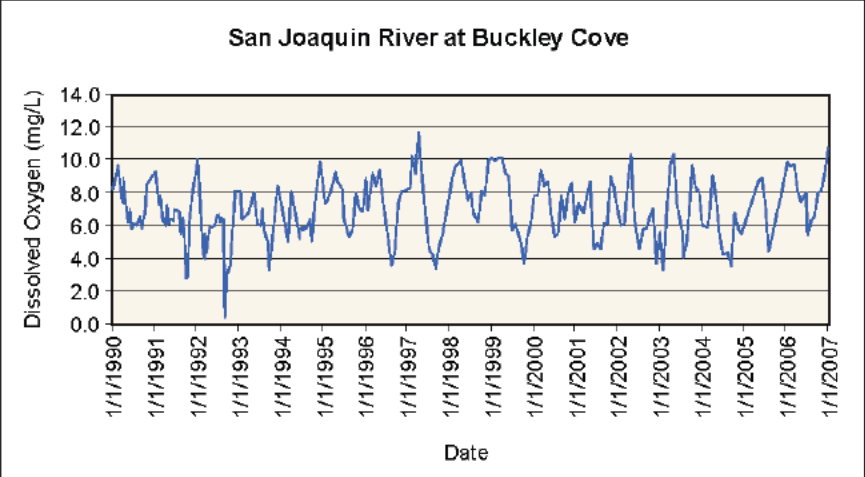
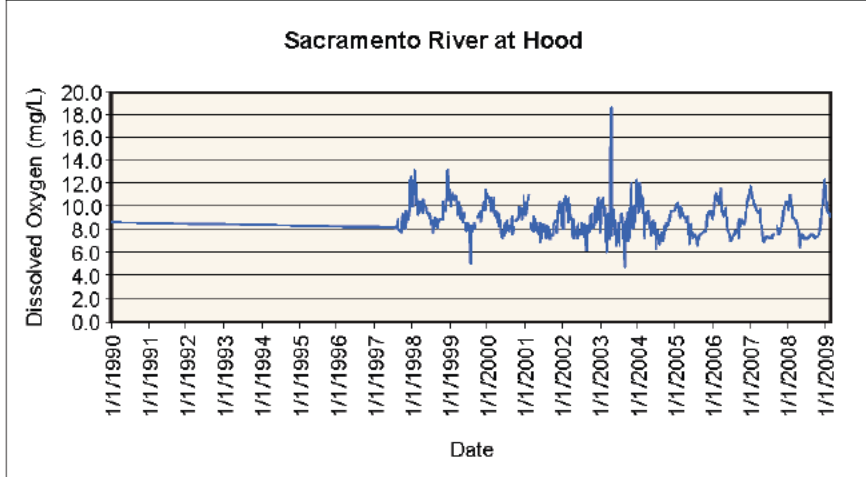


Figure 8-20
United States Dioxin Emissions in 2006



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NA P 2010; Hydrology, HDR 2010; Water Quality, EMP 1999.

Figure 8-21
Spatial Summary of Dissolved Oxygen Data at Delta Stations (2001 - 2006)

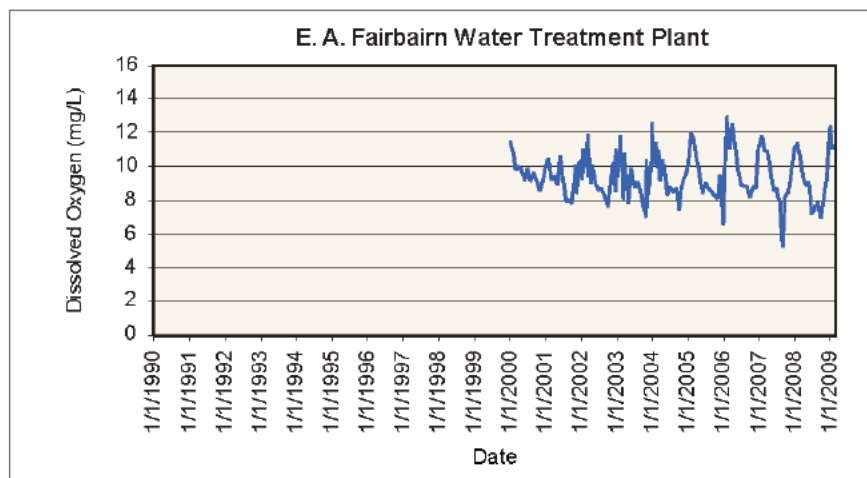
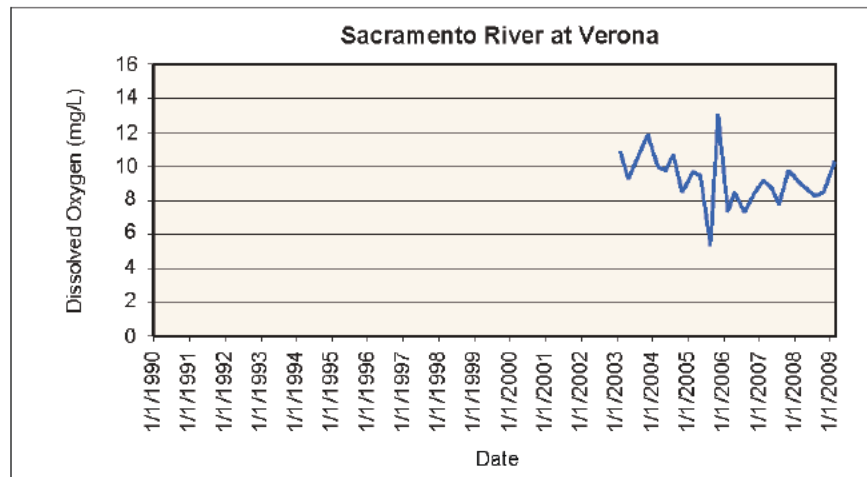
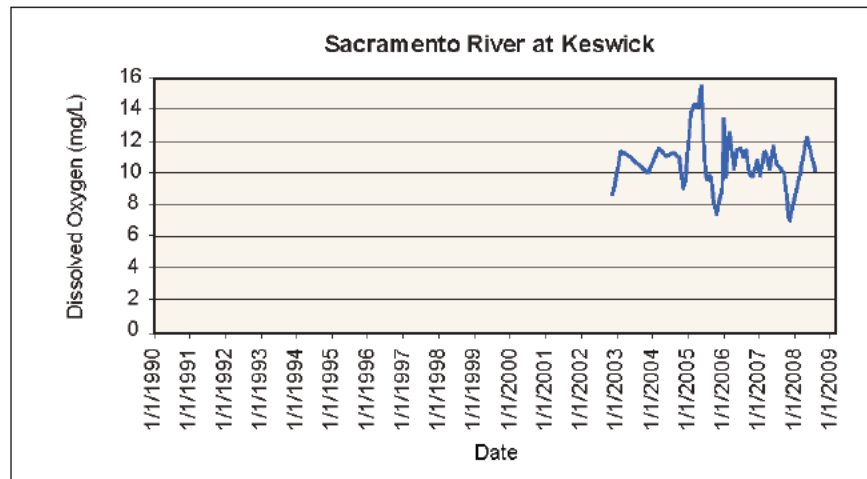


Note: mg/L = milligram per liter

Source: HDR 2009

BDCP EIR/EIS
Unique ID: HDR 0163 Date Created: 07/14/2010

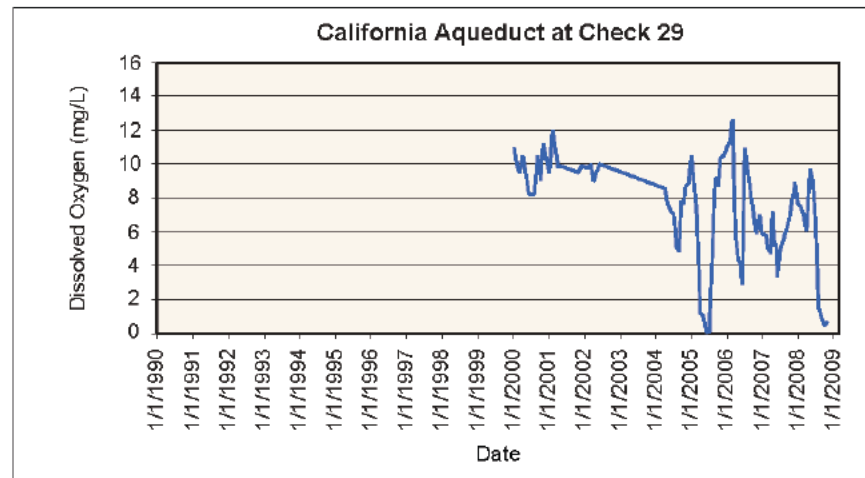
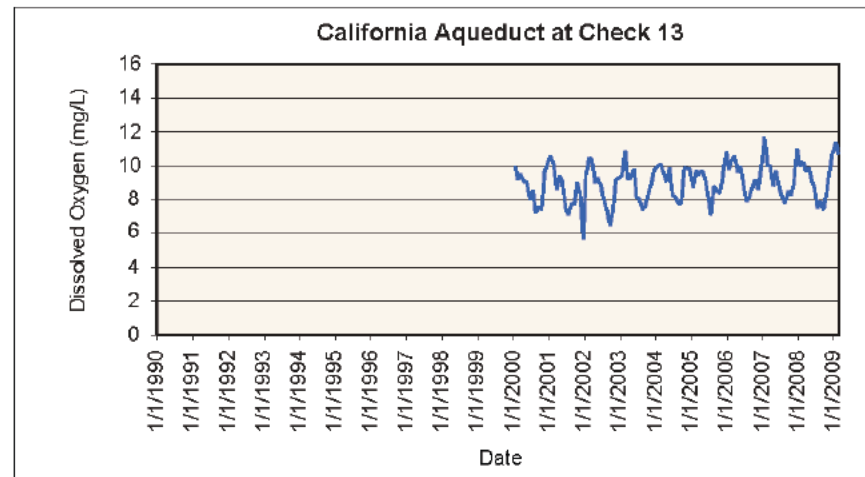
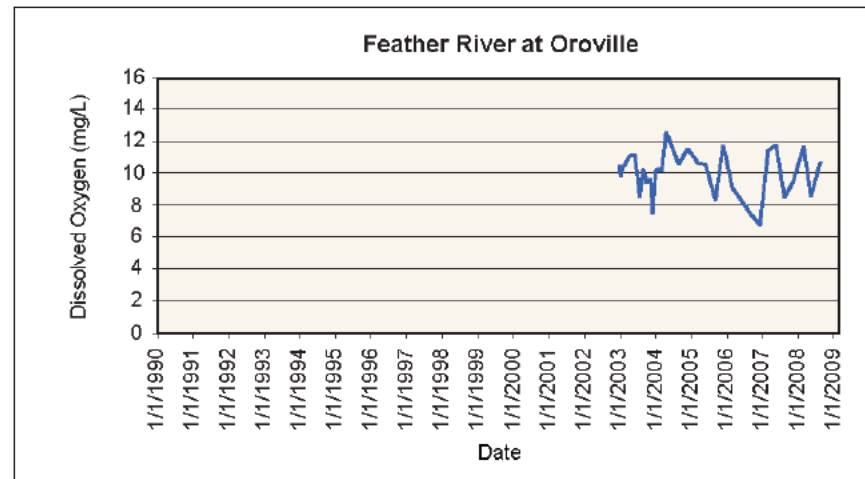
Figure 8-22
Temporal Summary of Dissolved Oxygen Data at Delta Stations



Note: mg/L = milligram per liter

Source: HDR 2010

BDCP EIR/EIS
Unique ID: HDR 0525a Date Created: 07/14/2010

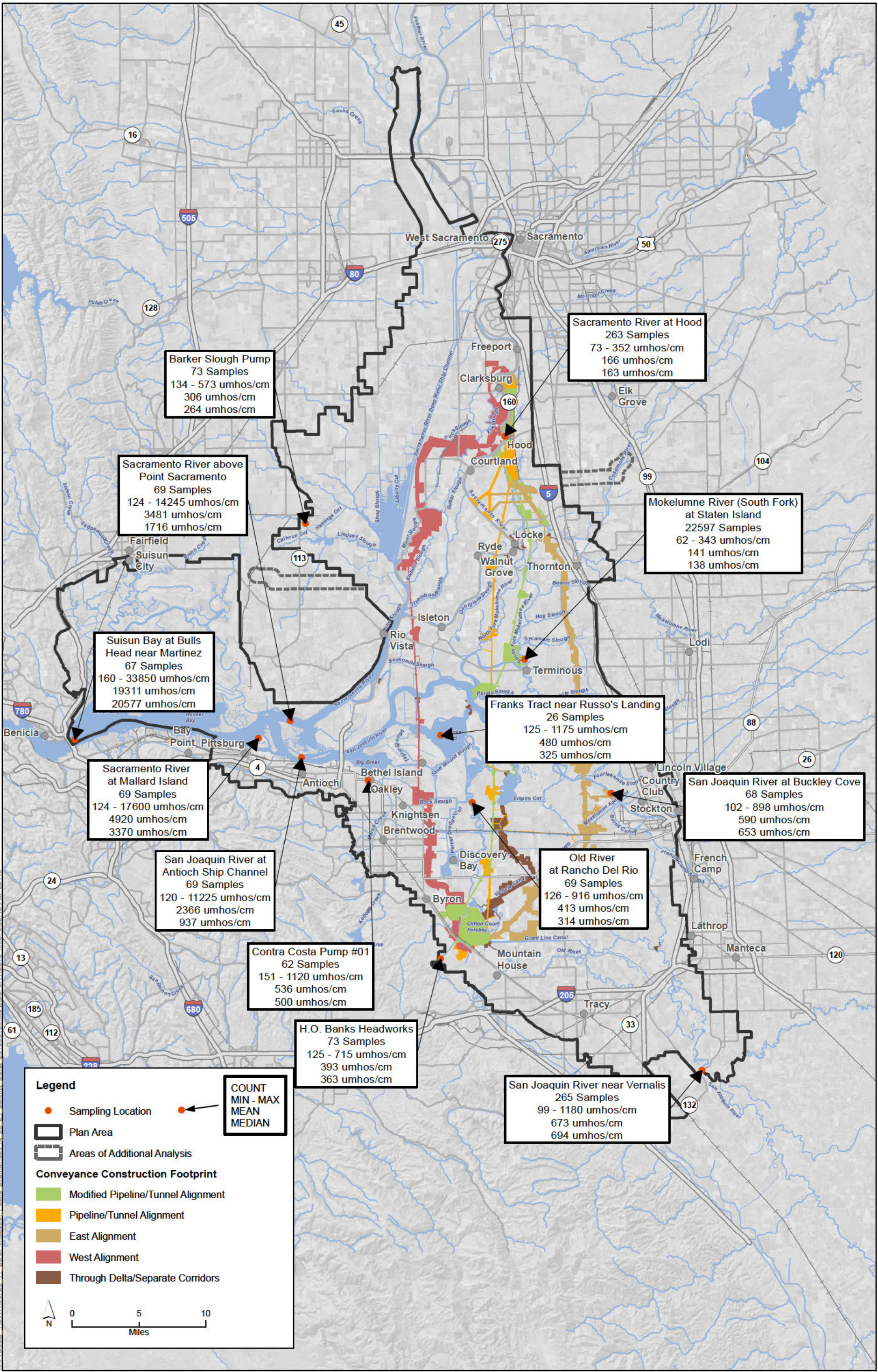


Note: mg/L = milligram per liter

Source: HDR 2010

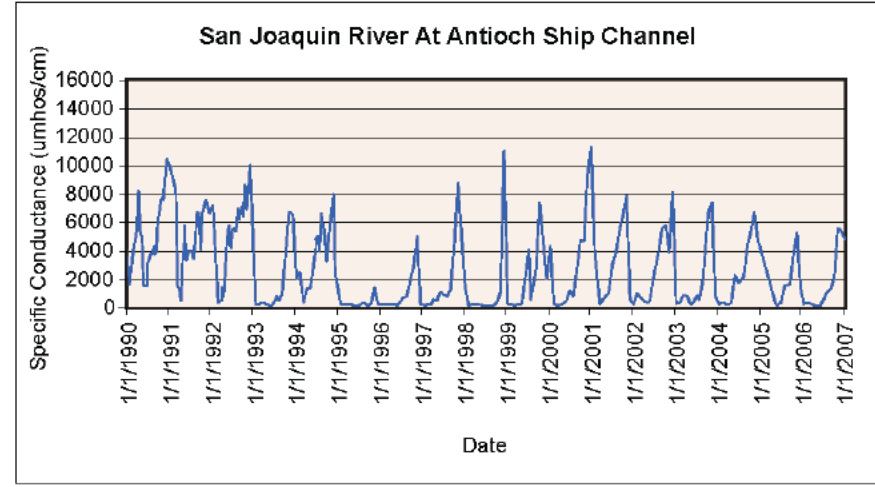
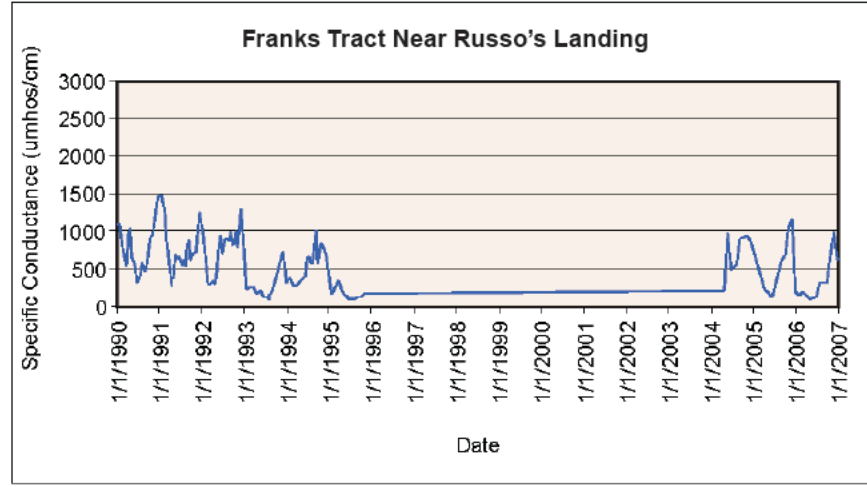
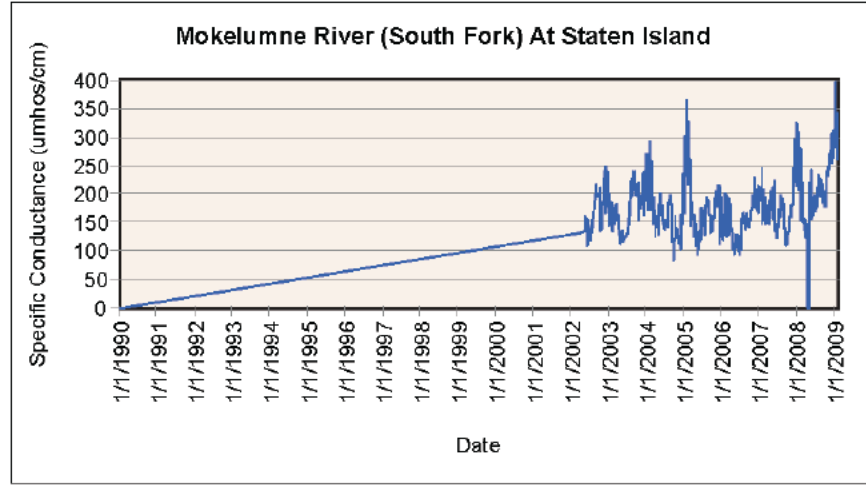
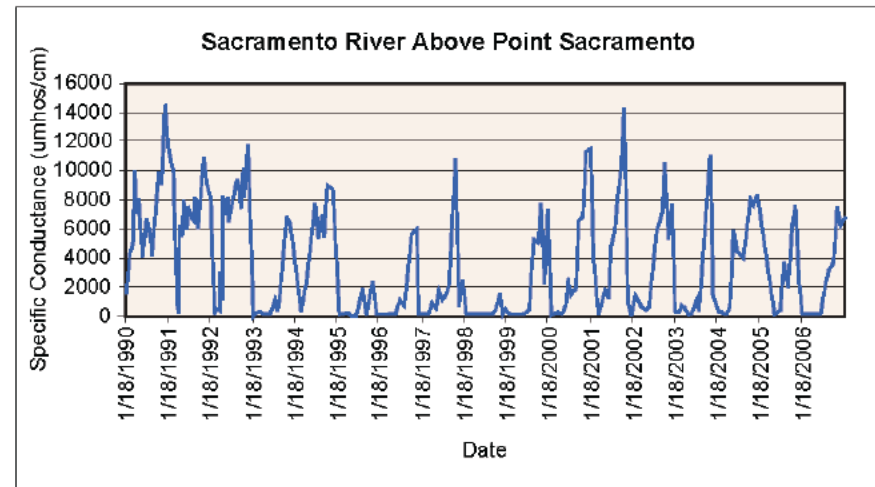
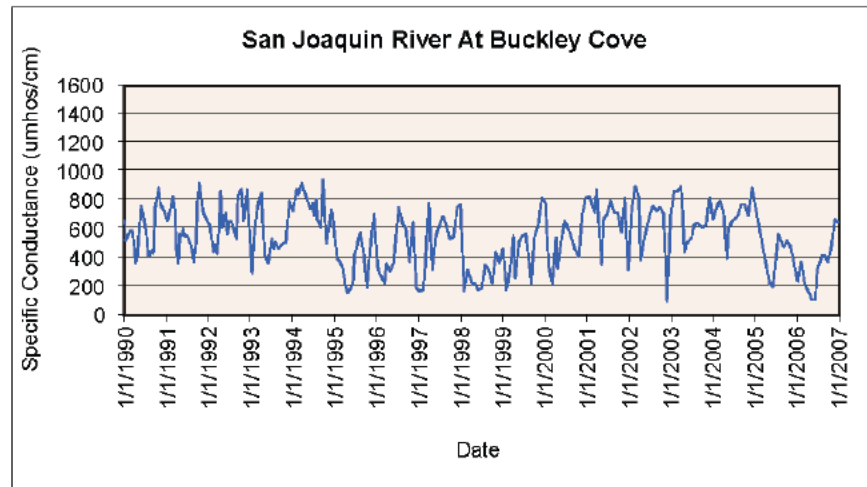
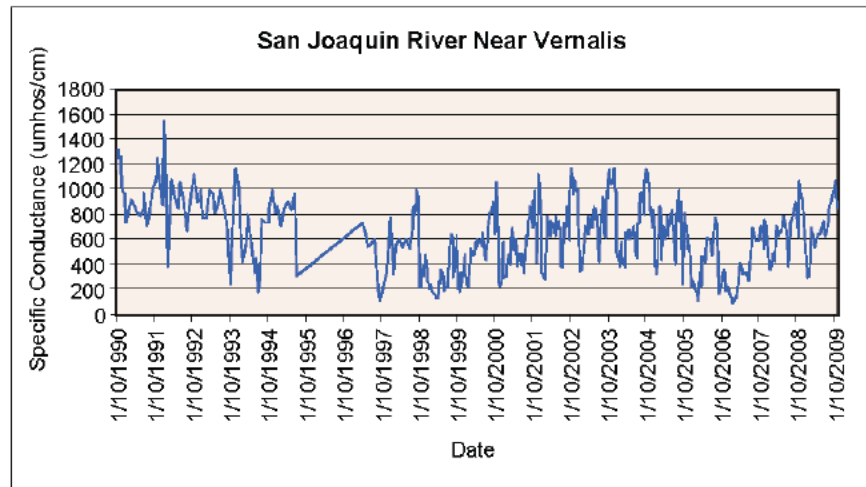
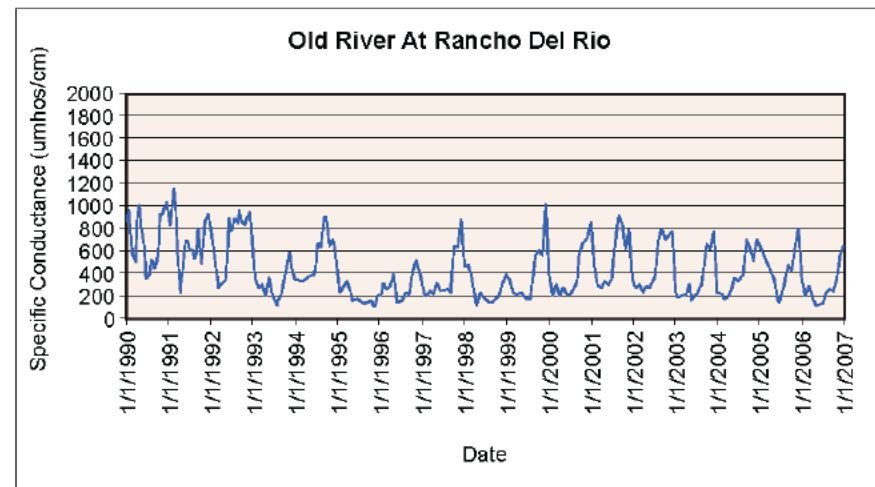
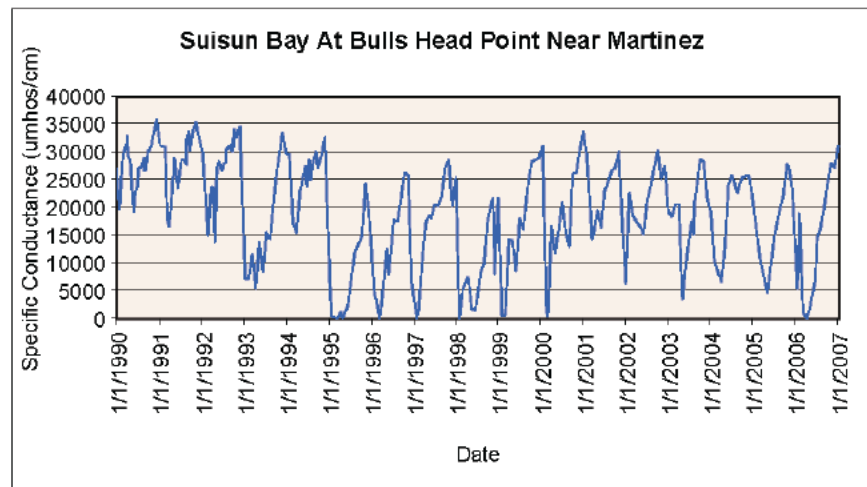
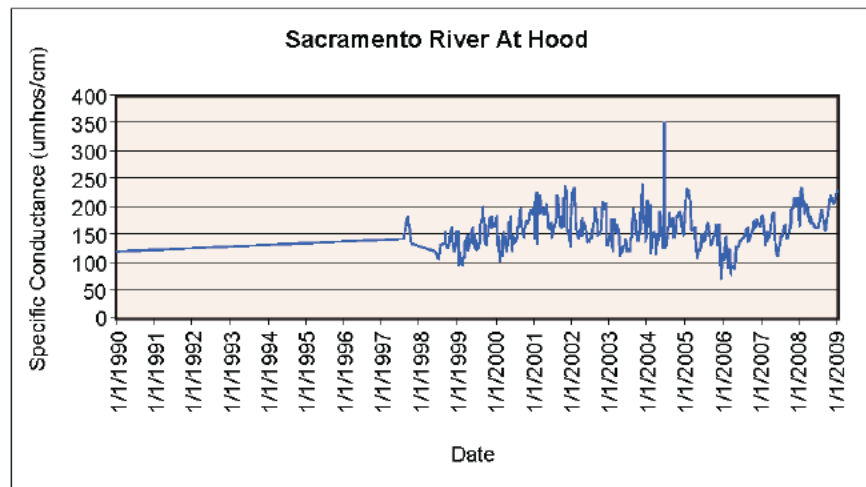
BDCP EIR/EIS
Unique ID: HDR 0525b Date Created: 07/14/2010

Figure 8-23
Temporal Summary of Dissolved Oxygen Data at North of Delta and South of Delta Stations



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NA P 2010; Hydrology, HDR 2010; Water Quality, EMP 1999

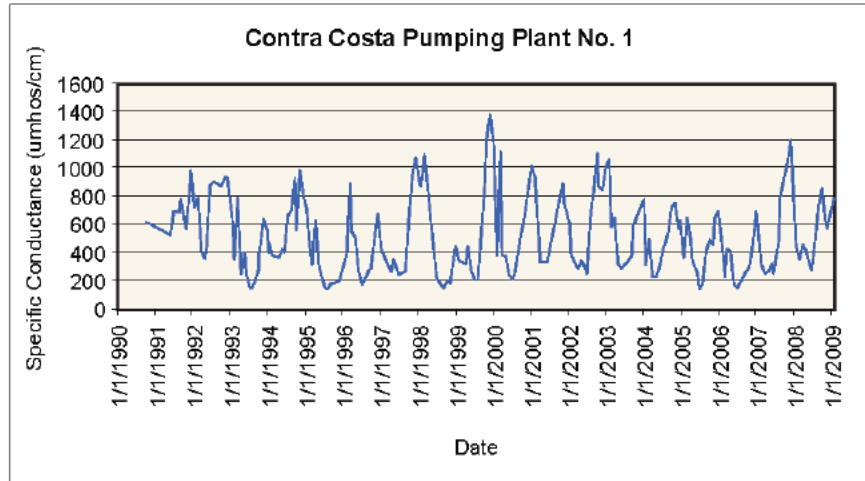
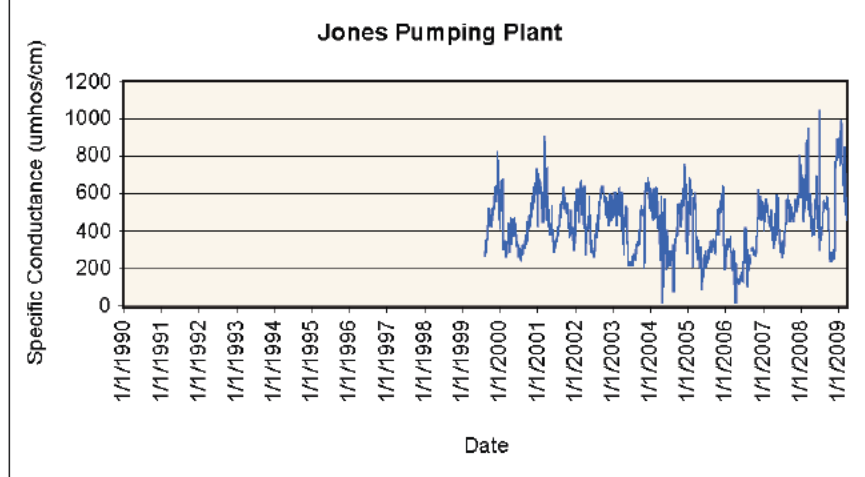
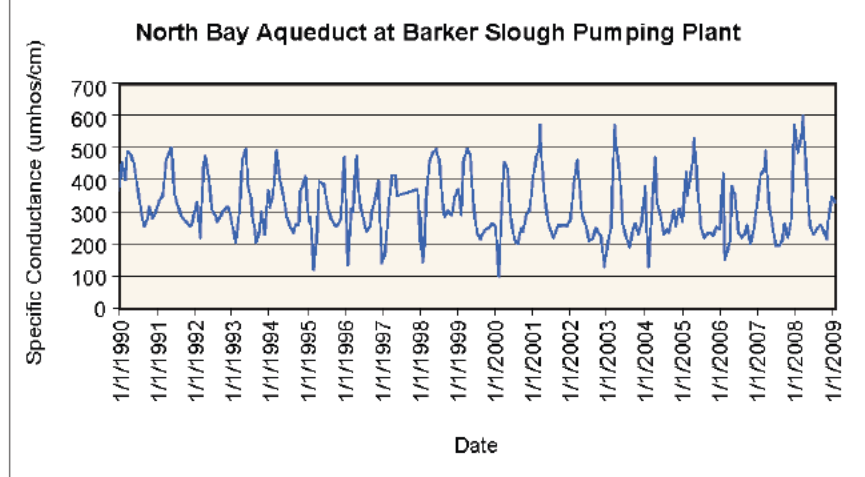
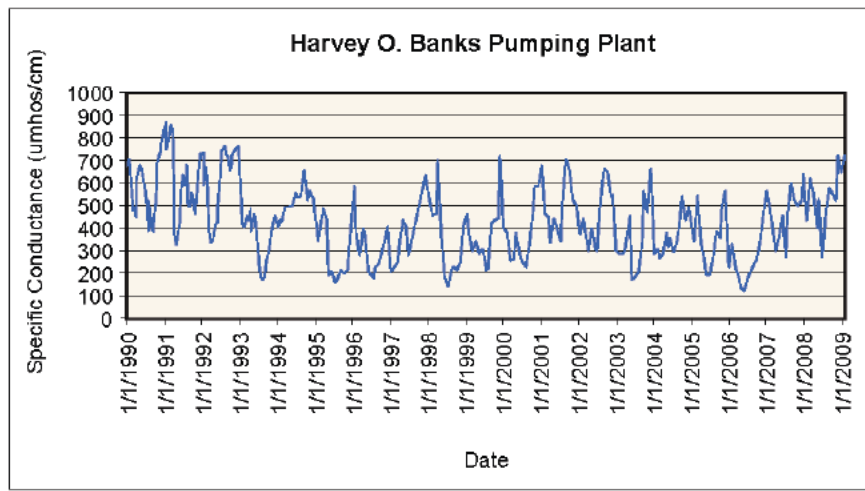
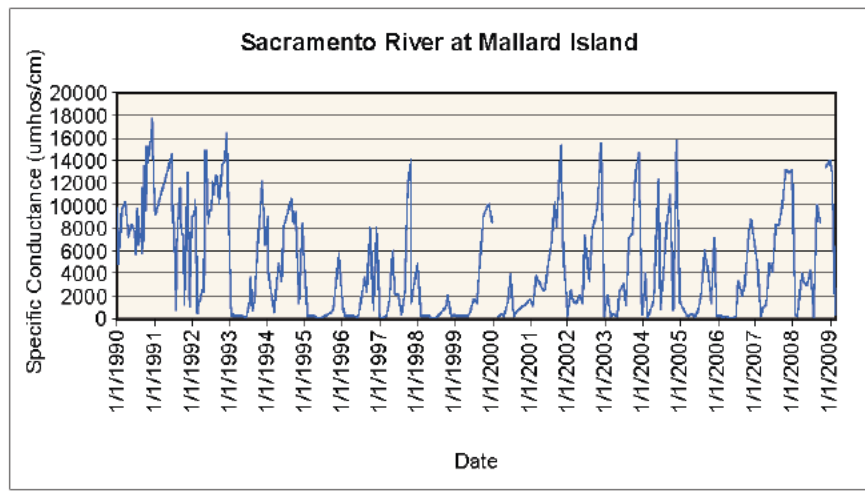
Figure 8-24
Spatial Summary of Salinity Data at Delta Stations (2001 - 2006)



Source: HDR 2009

BDCP EIR/EIS
Unique ID: HDR 0158a Date Created: 07/20/2009

Figure 8-25a
Temporal Summary of Electrical Conductivity Data at Delta Stations



Note: umhos/cm = micro mhos per centimeter

Source: HDR 2009

Figure 8-25b
Temporal Summary of Electrical Conductivity Data at Delta Stations

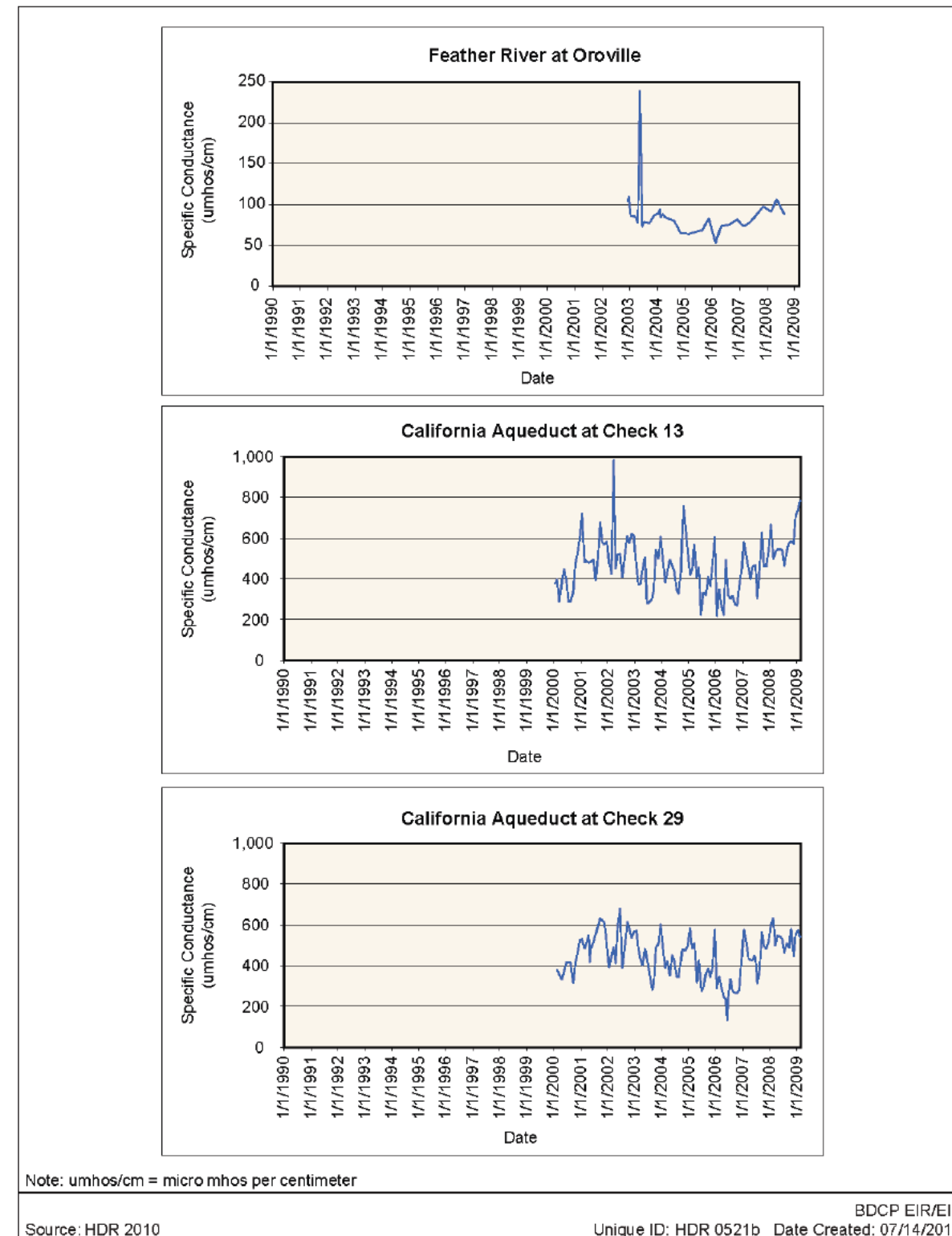
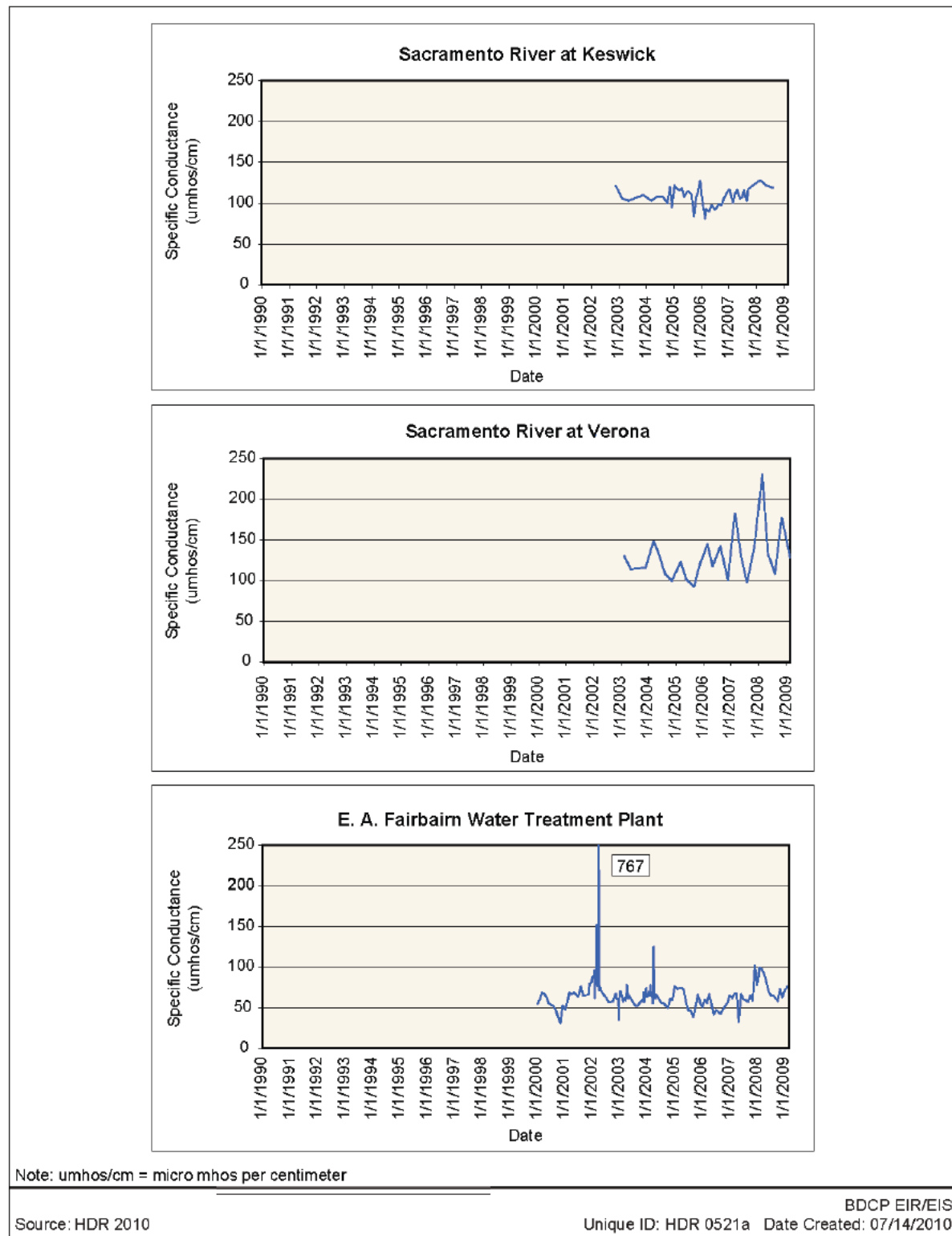


Figure 8-26
Temporal Summary of Electrical Conductivity Data at North of Delta and South of Delta Stations

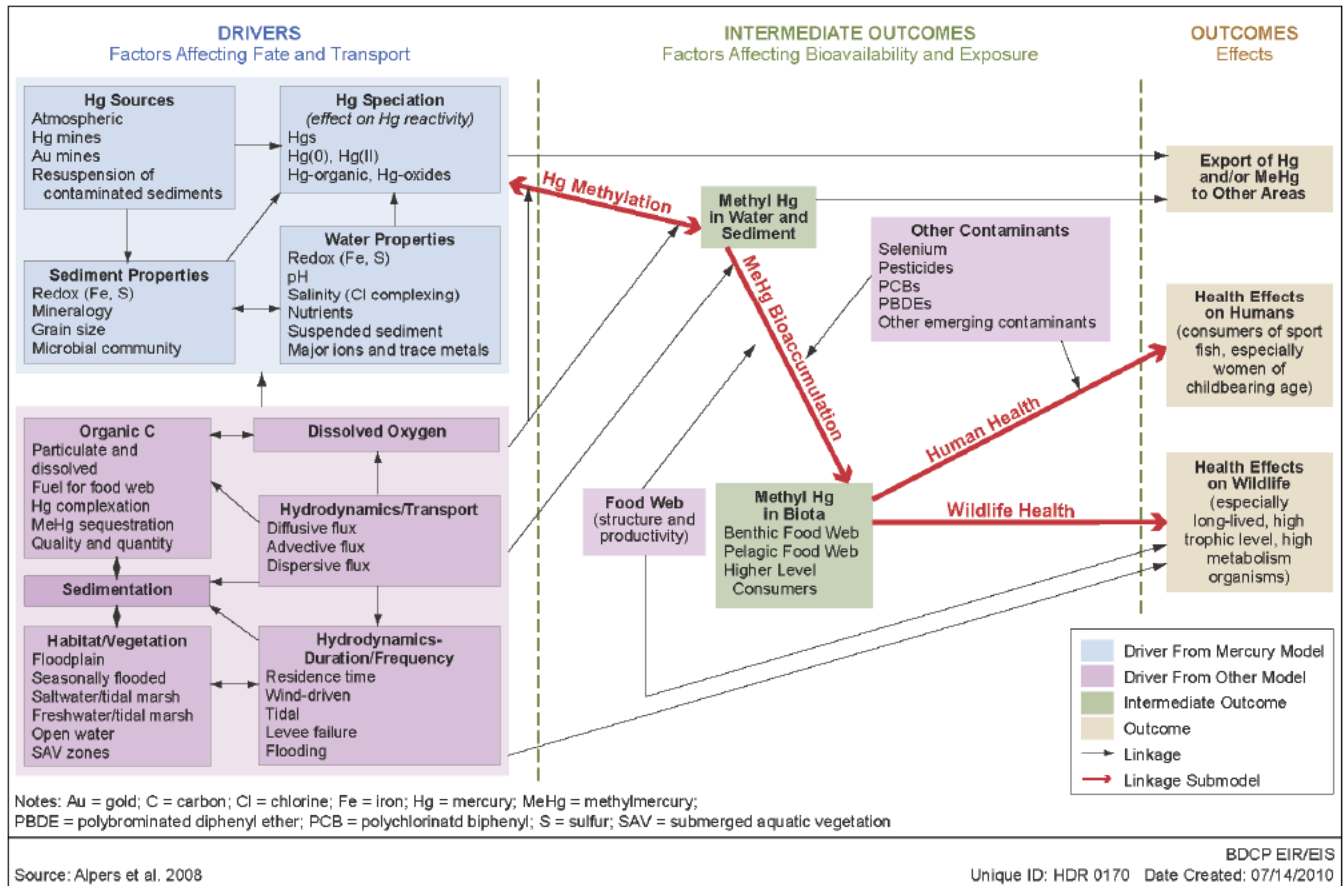
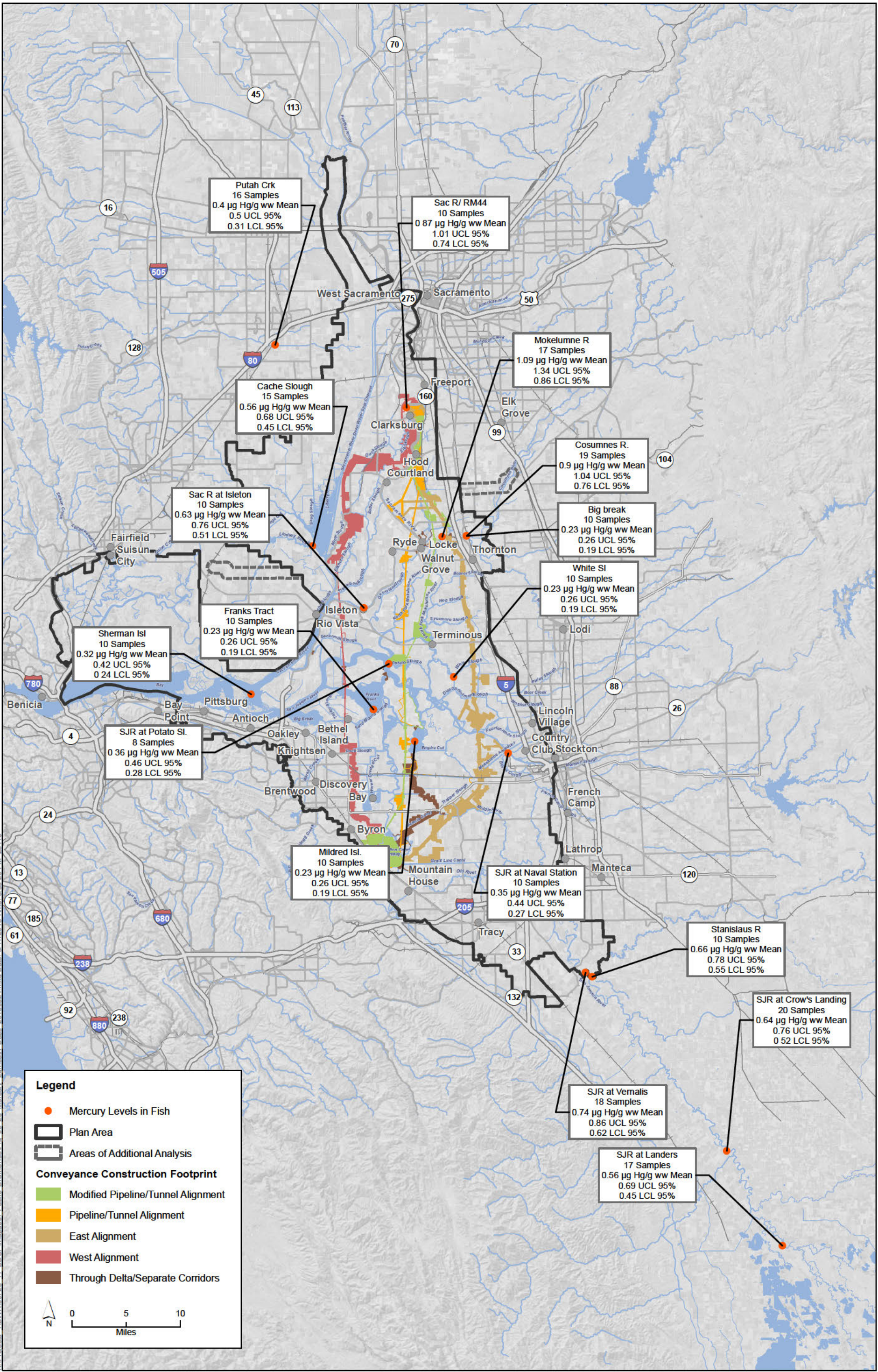
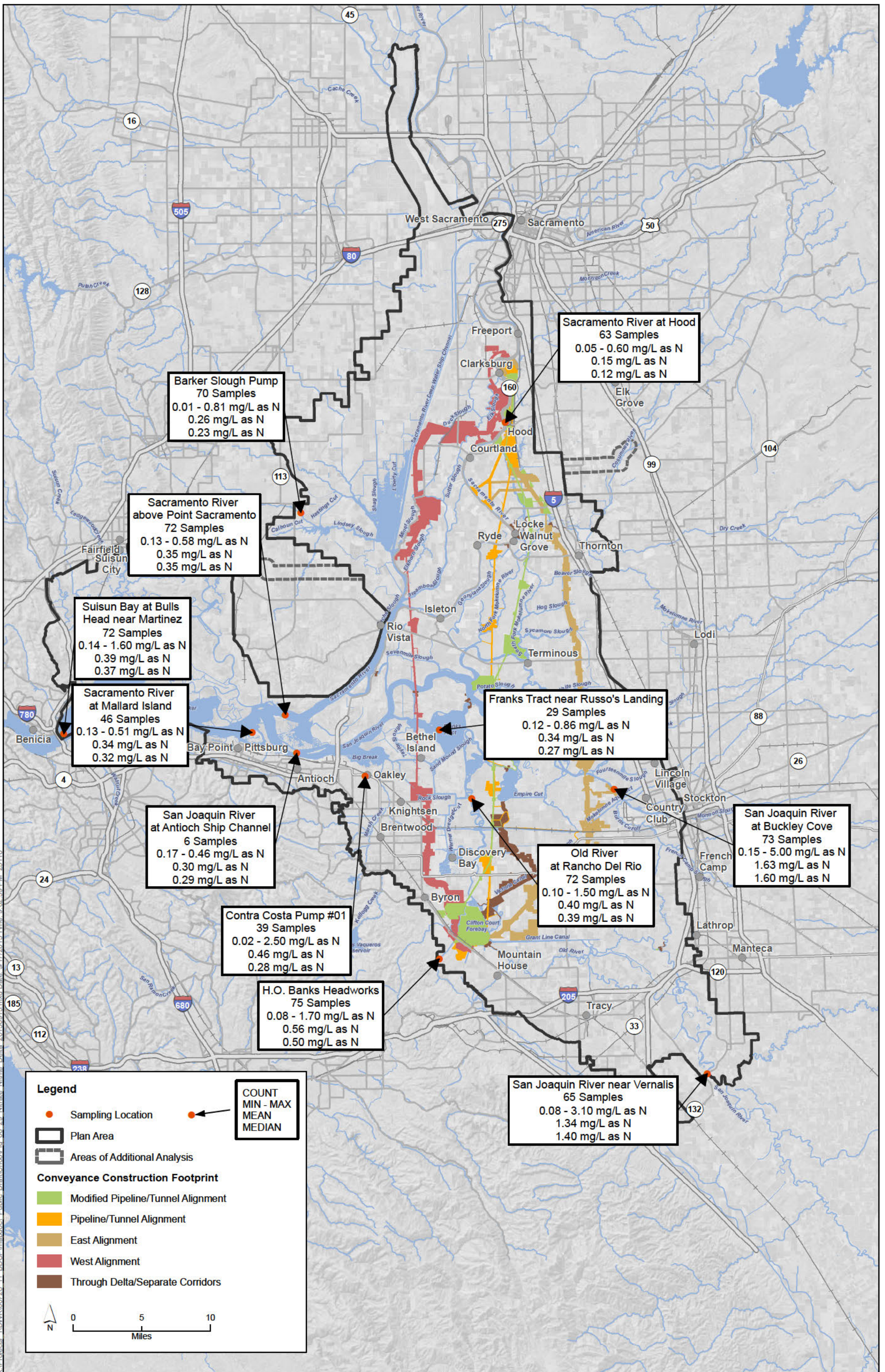


Figure 8-27
Conceptual Model of Mercury and Methylmercury Transport, Fate, and Cycling in the Delta Ecosystem



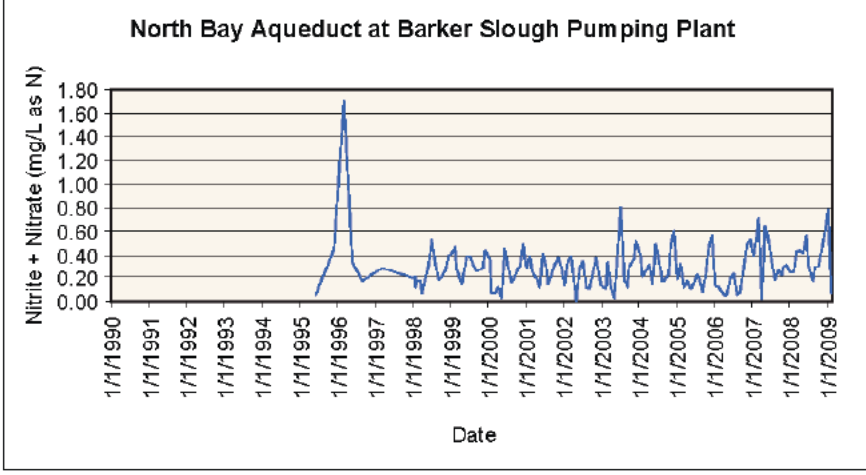
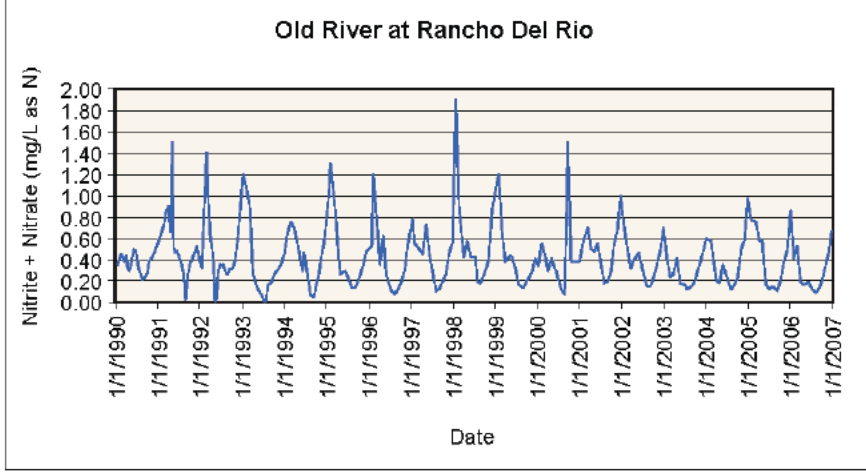
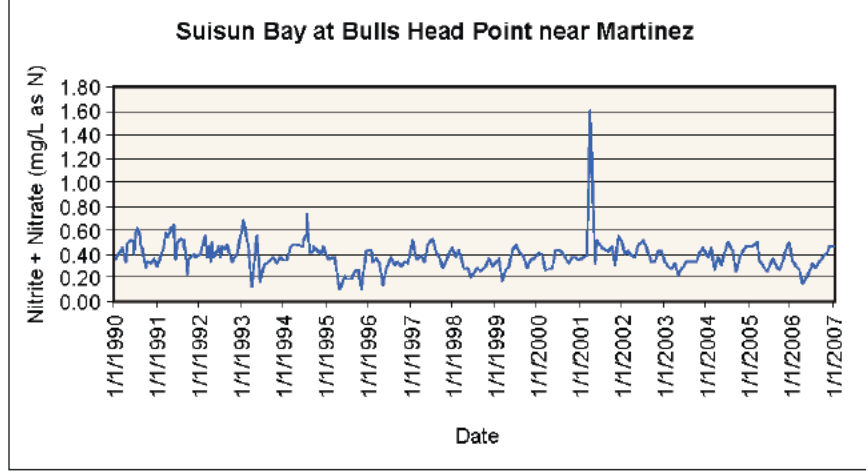
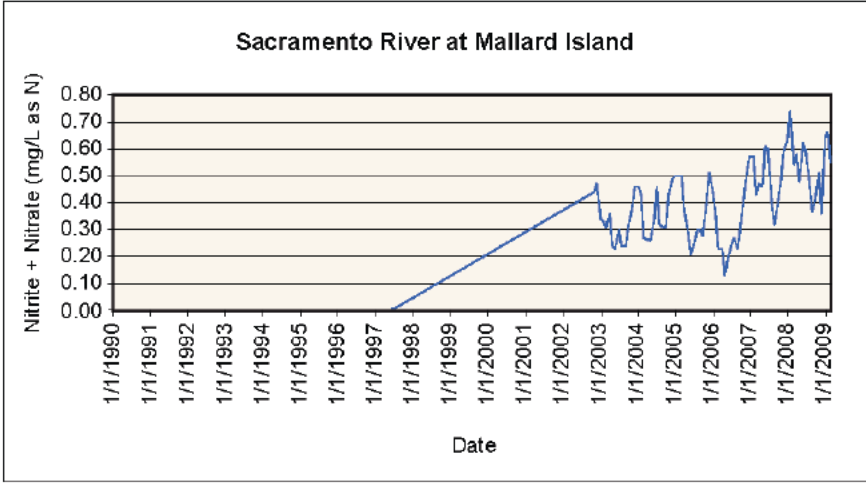
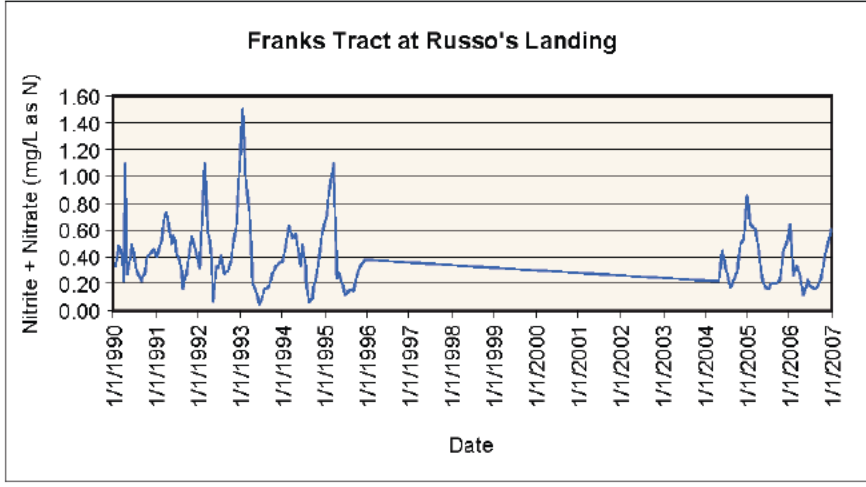
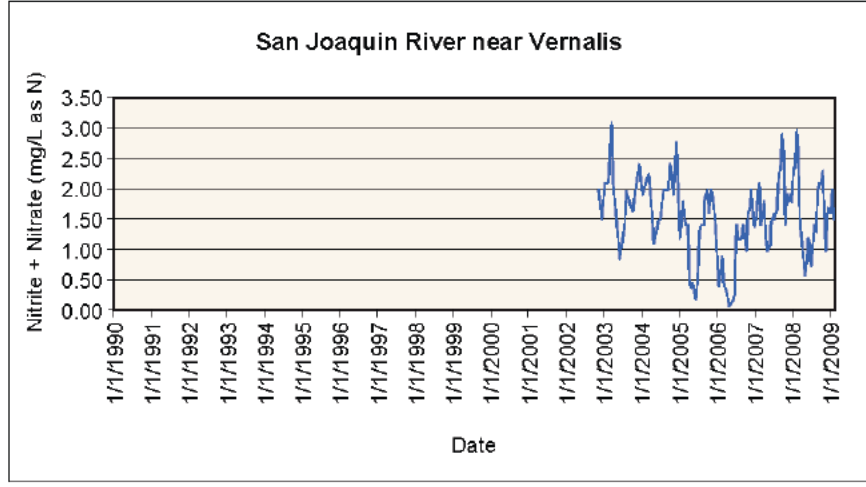
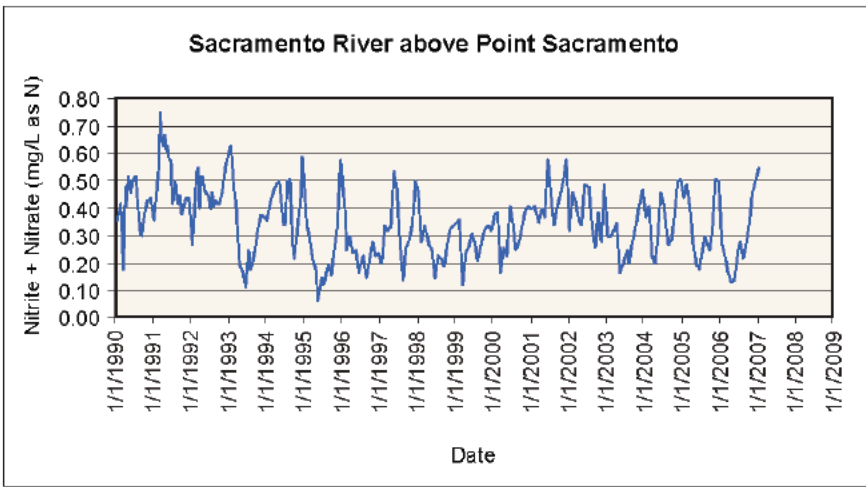
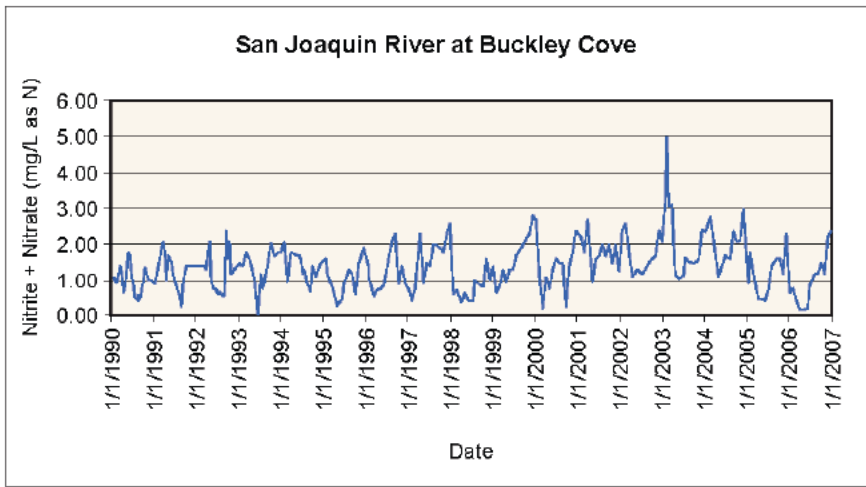
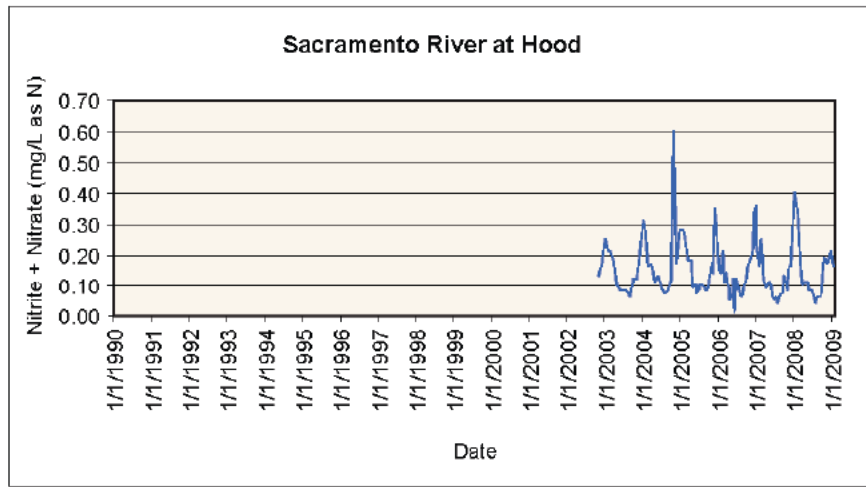
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NA P 2010; Hydrology, HDR 2010; Water Quality, EMP 1999.

Figure 8-28
Mercury Concentrations in Largemouth Bass Fillets (1999 - 2000)



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NA P 2010; Hydrology, HDR 2010; Water Quality, EMP 1999.

Figure 8-29
Spatial Summary of Nitrate/Nitrite Data at Delta Stations (2001 - 2006)

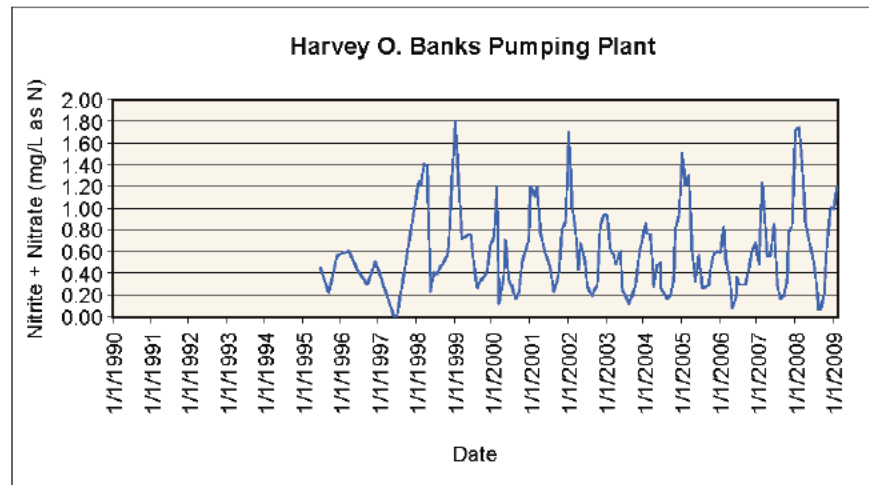
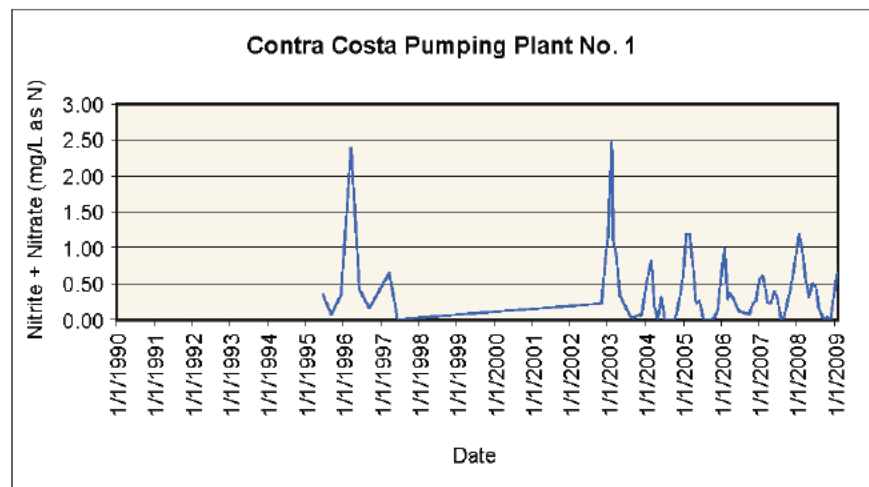


Notes: mg/L = milligram per liter; N = nitrogen

Source: HDR 2009

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Unique ID: HDR 0167a Date Created: 07/14/2010

Figure 8-30a
Temporal Summary of Nitrate/Nitrite Data at Delta Stations

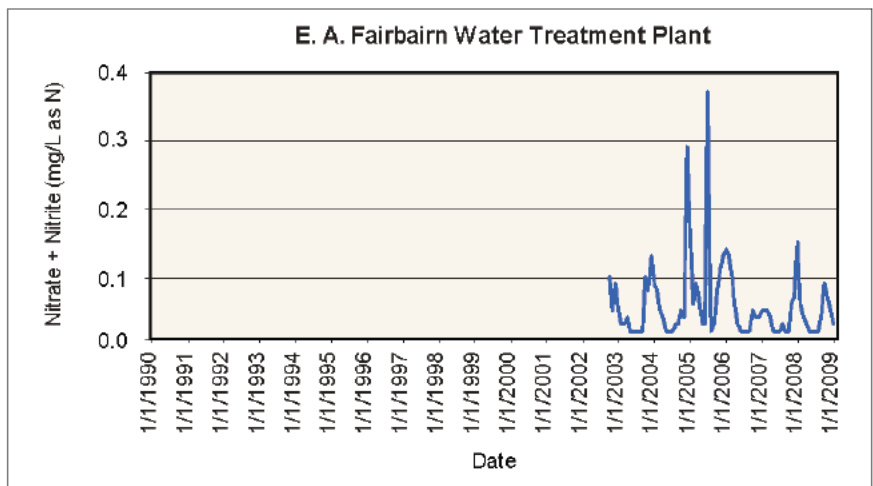
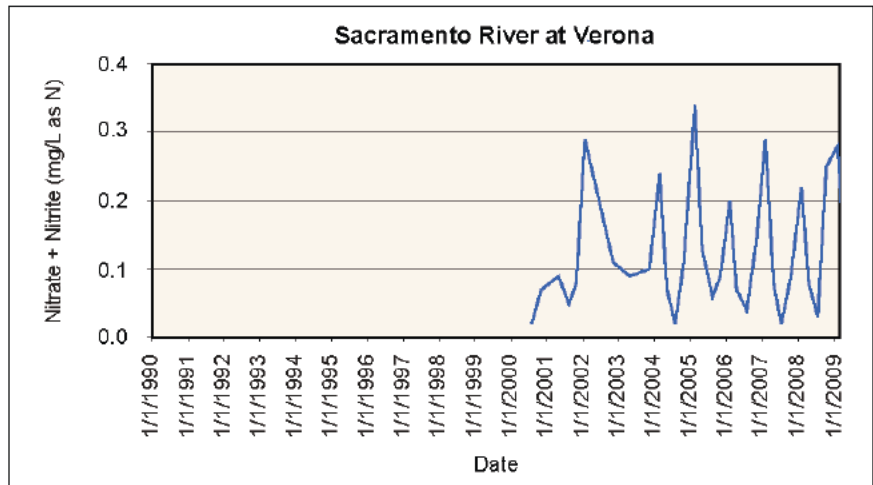
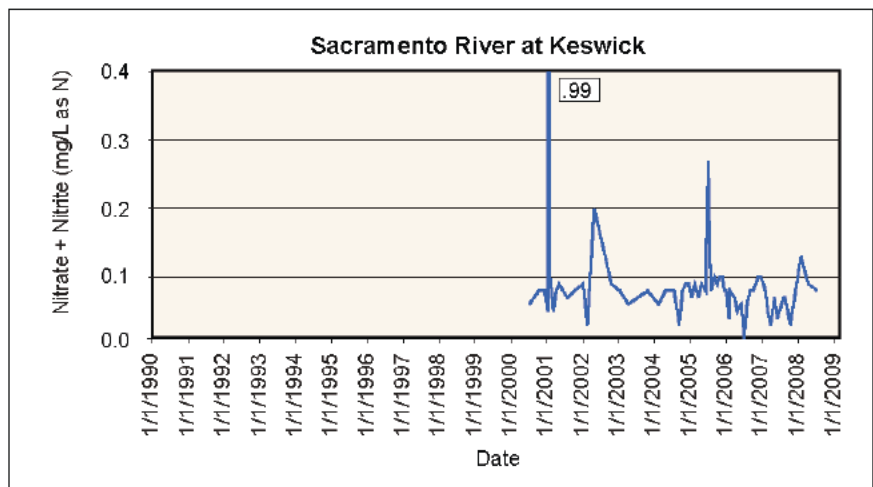


Notes: mg/L = milligram per liter; N = nitrogen

Source: HDR 2009

BDCP EIR/EIS
Unique ID: HDR 0167b Date Created: 07/14/2010

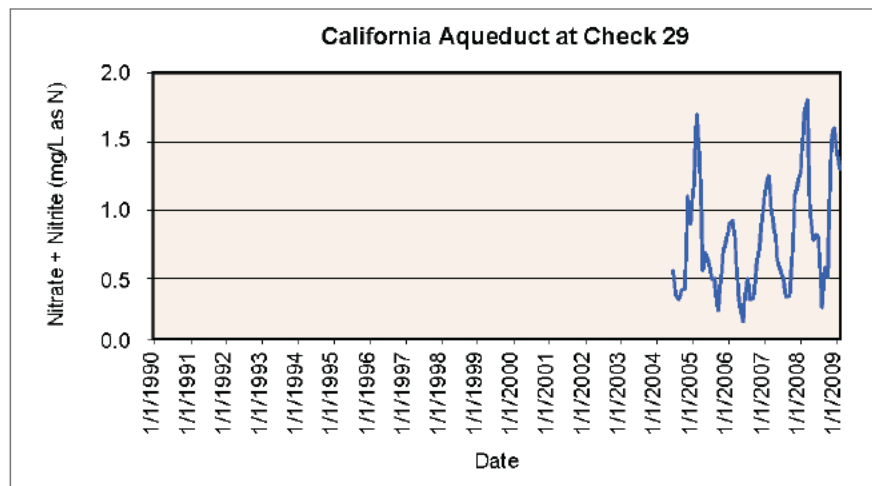
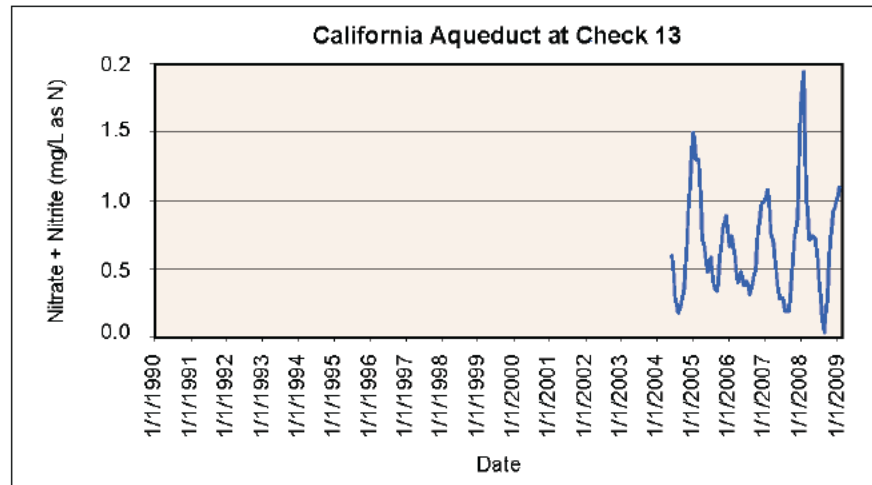
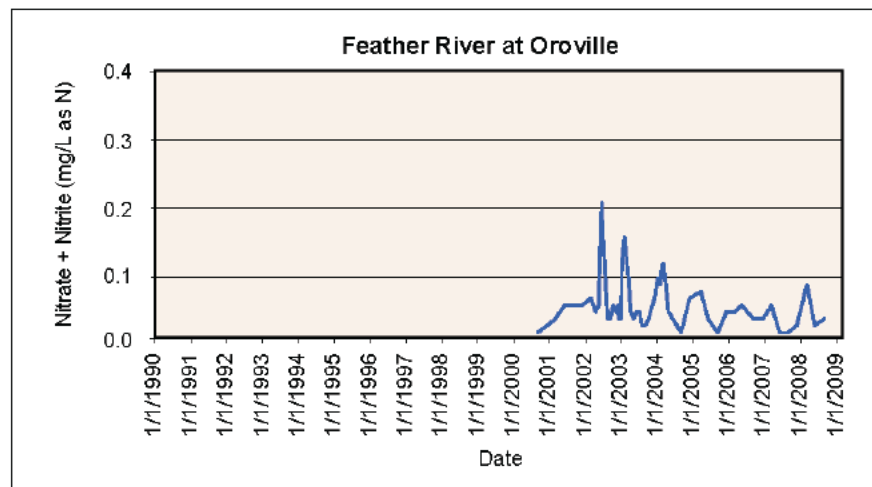
Figure 8-30b
Temporal Summary of Nitrate/Nitrite Data at Delta Stations



Notes: mg/L = milligram per liter; N = nitrogen

Source: HDR 2010

BDCP EIR/EIS
Unique ID: HDR 0528a Date Created: 07/14/2010

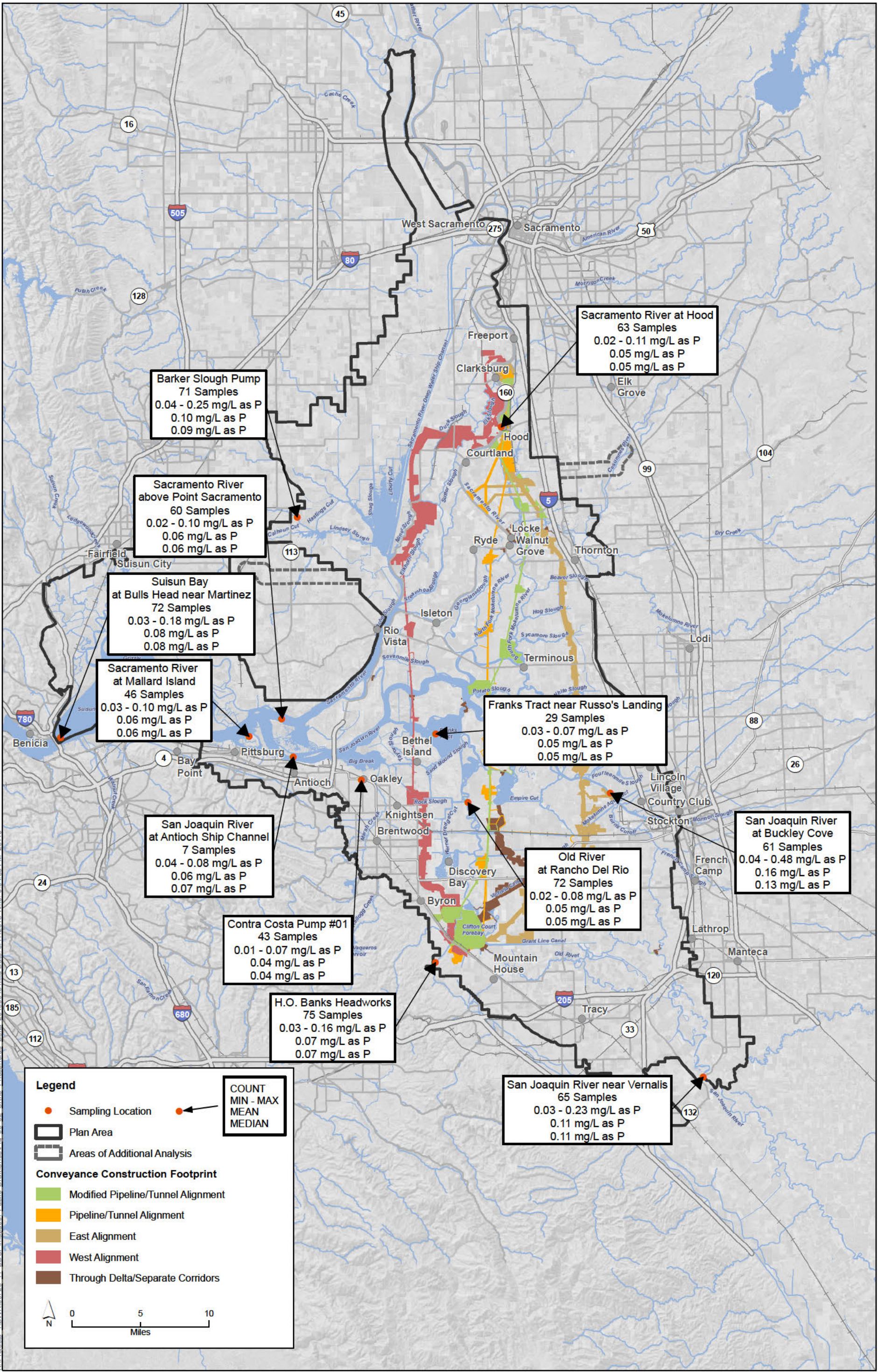


Notes: mg/L = milligram per liter; N = nitrogen

Source: HDR 2010

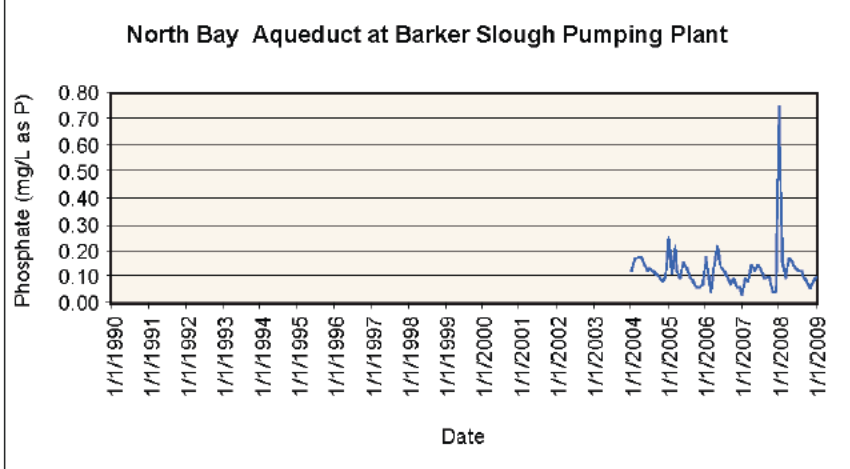
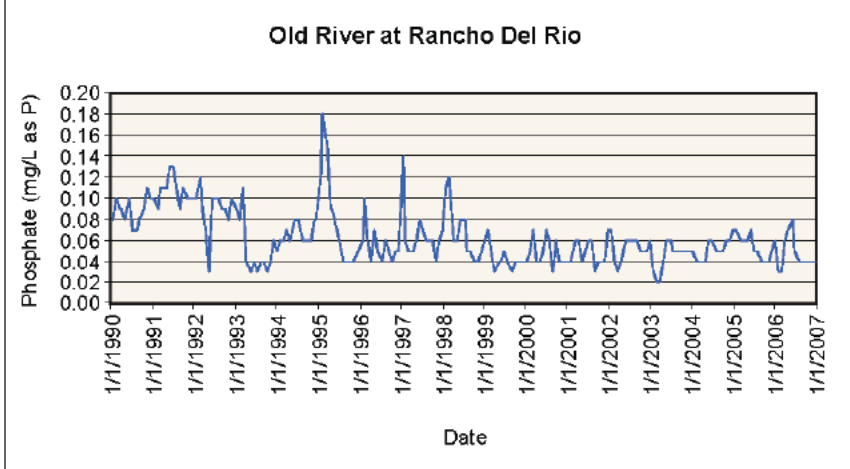
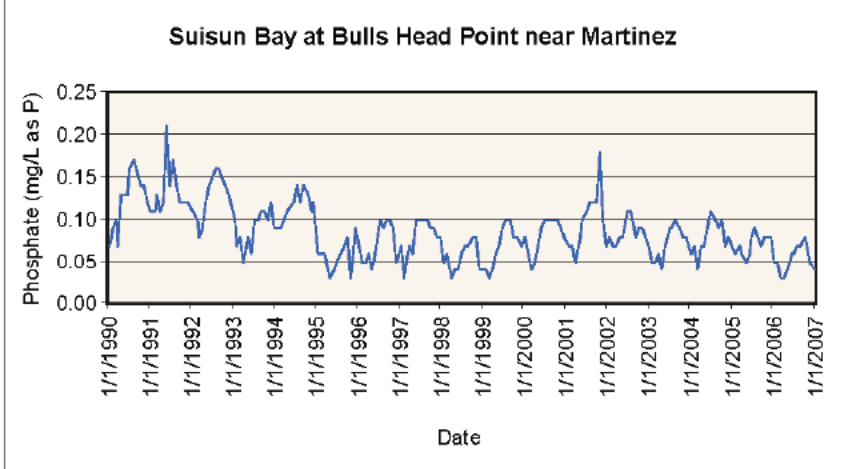
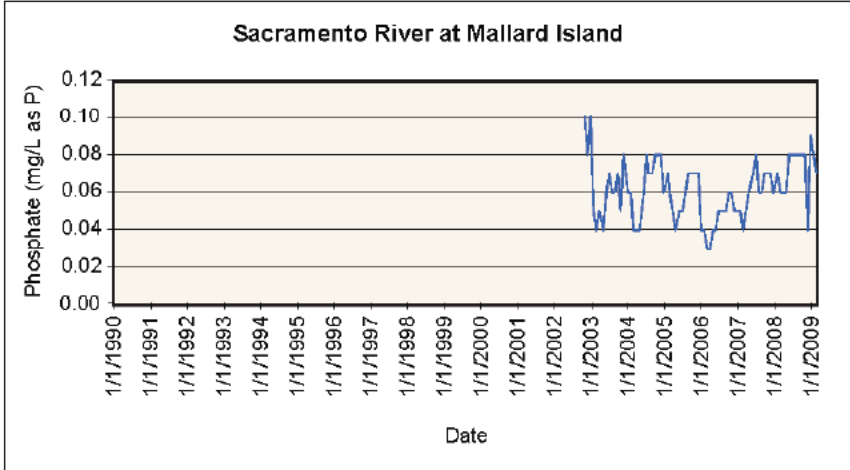
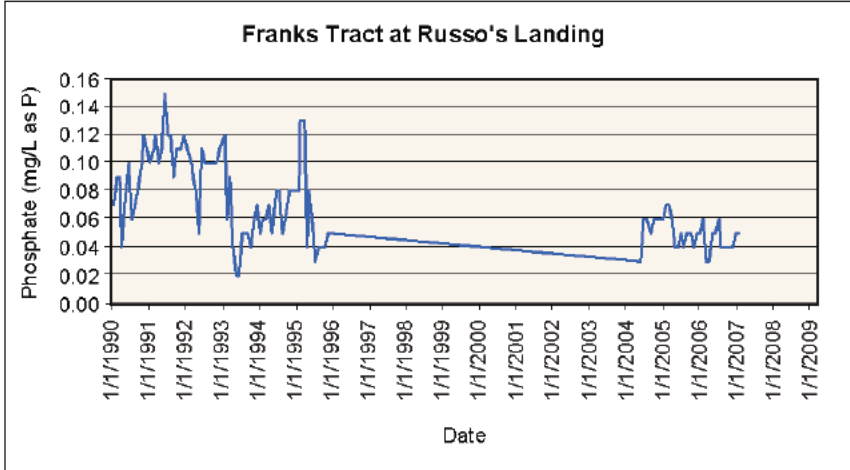
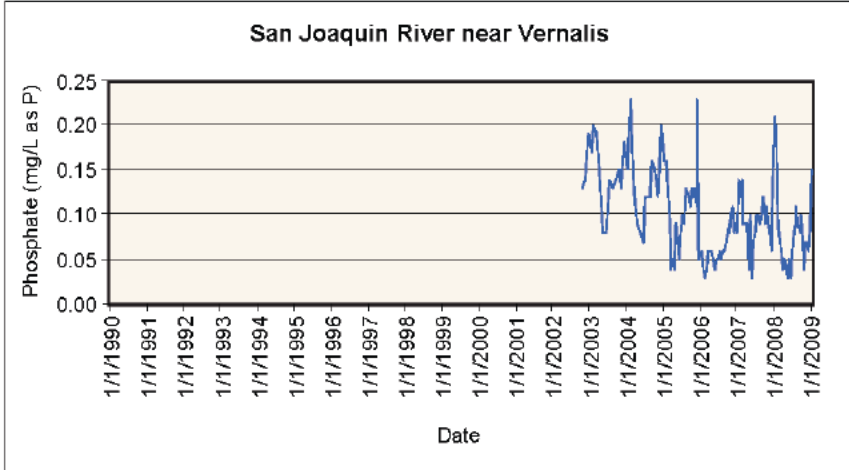
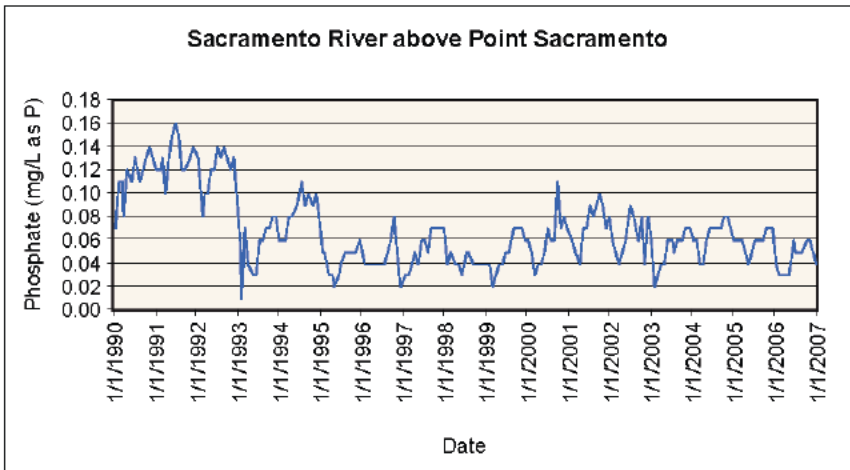
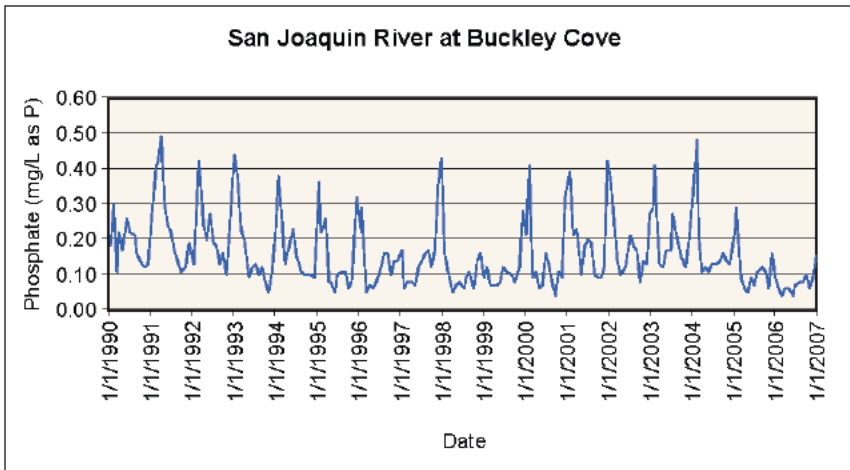
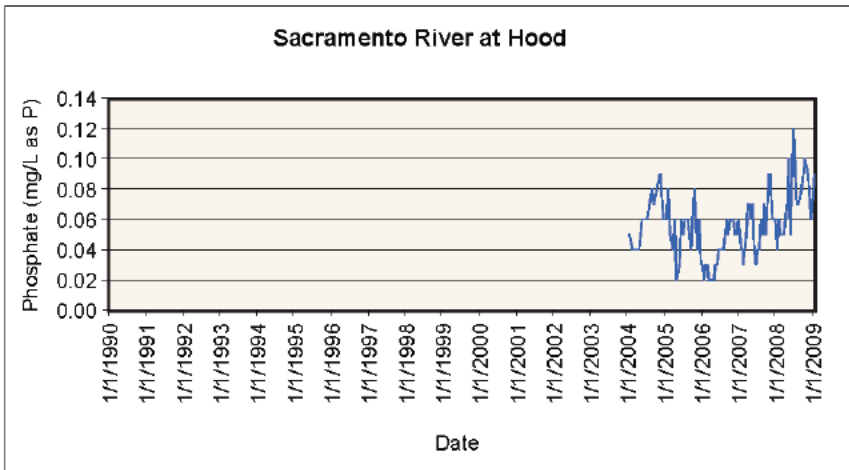
BDCP EIR/EIS
Unique ID: HDR 0528b Date Created: 07/14/2010

Figure 8-31
Temporal Summary of Nitrate/Nitrite Data at North of Delta and South of Delta Stations



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NA P 2010; Hydrology, HDR 2010; Water Quality, EMP 1999.

Figure 8-32
Spatial Summary of Ortho-Phosphorus Data at Delta Stations (2001 - 2006)

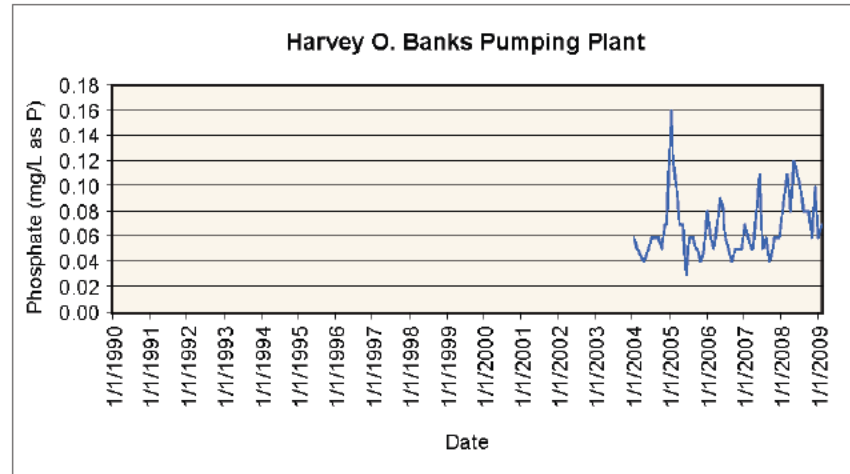
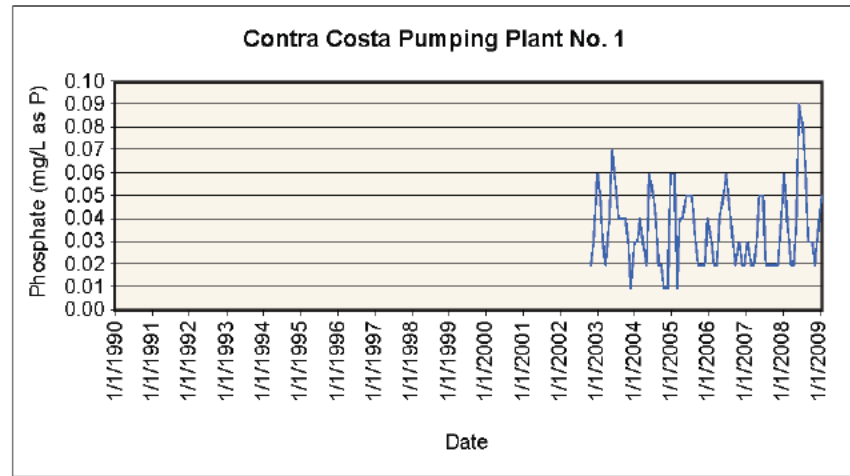


Notes: mg/L = milligram per liter; P = phosphorus

Source: HDR 2009

BDCP EIR/EIS
Unique ID: HDR 0168a Date Created: 07/14/2010

Figure 8-33a
Temporal Summary of Ortho-Phosphorus Data at Delta Stations

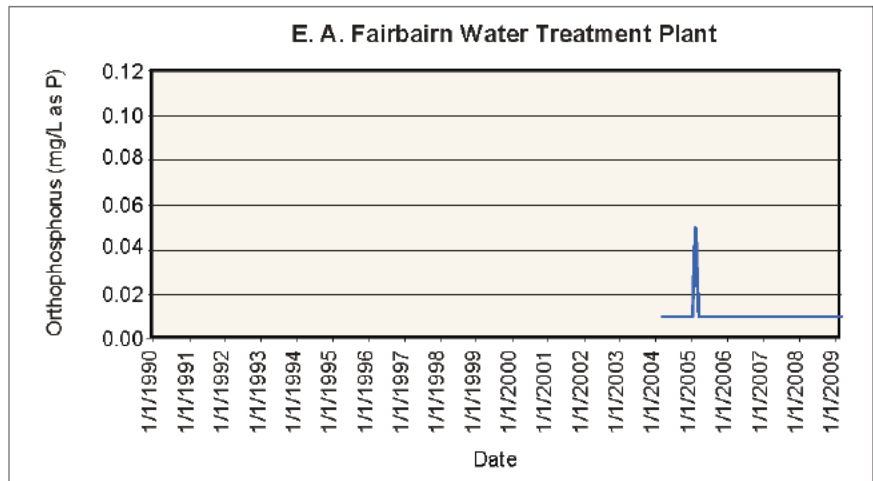
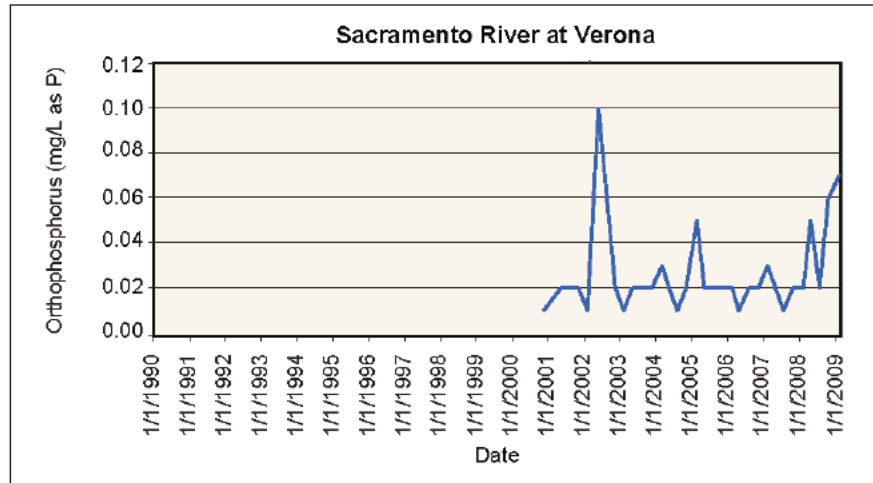
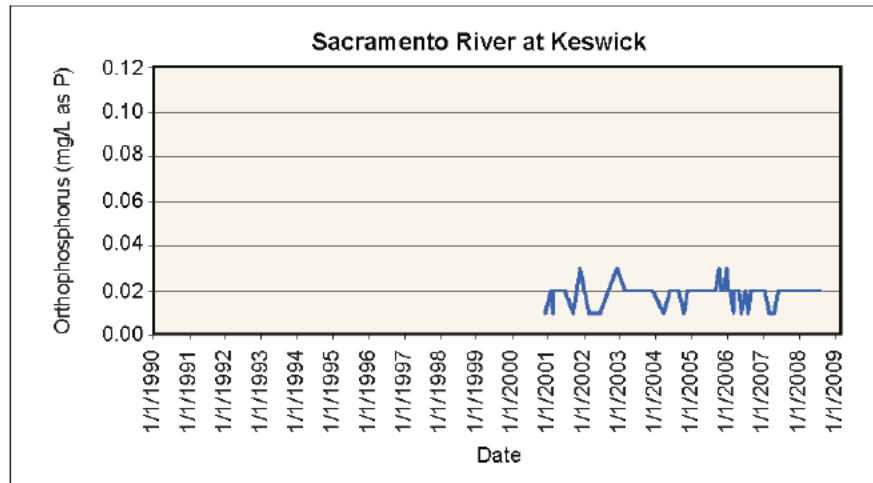


Notes: mg/L = milligram per liter; P = phosphorus

Source: HDR 2009

BDCP EIR/EIS
Unique ID: HDR 0168b Date Created: 07/14/2010

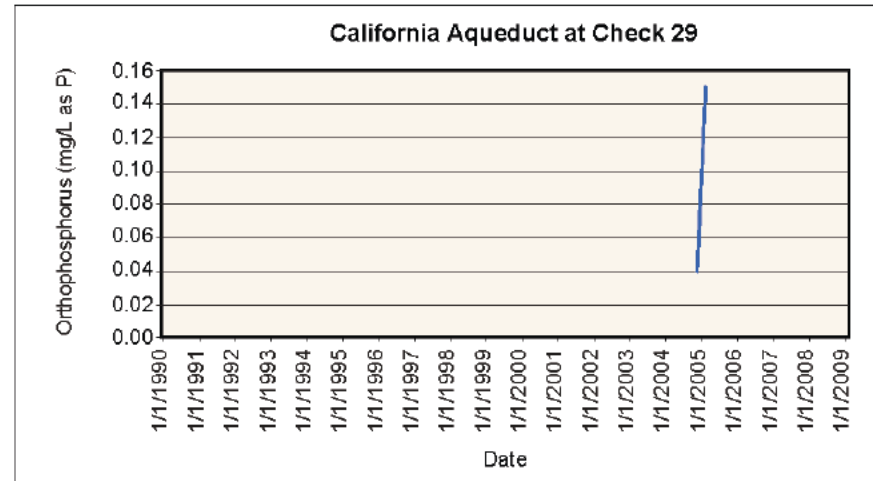
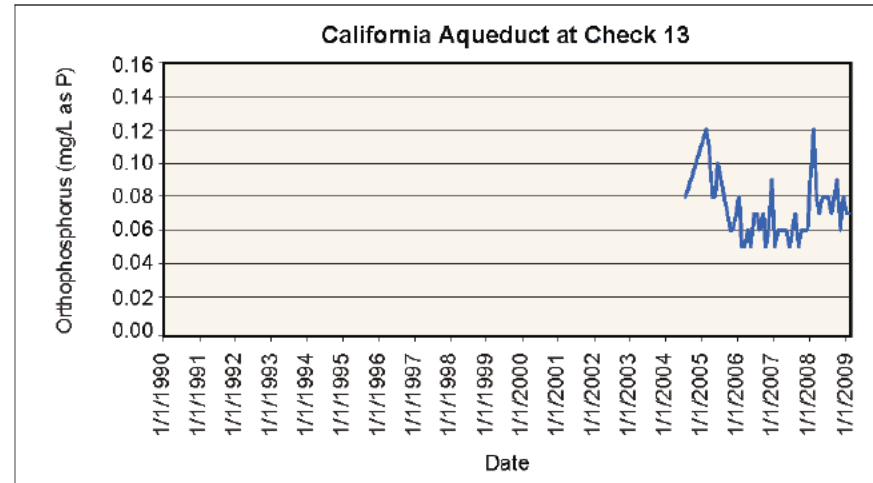
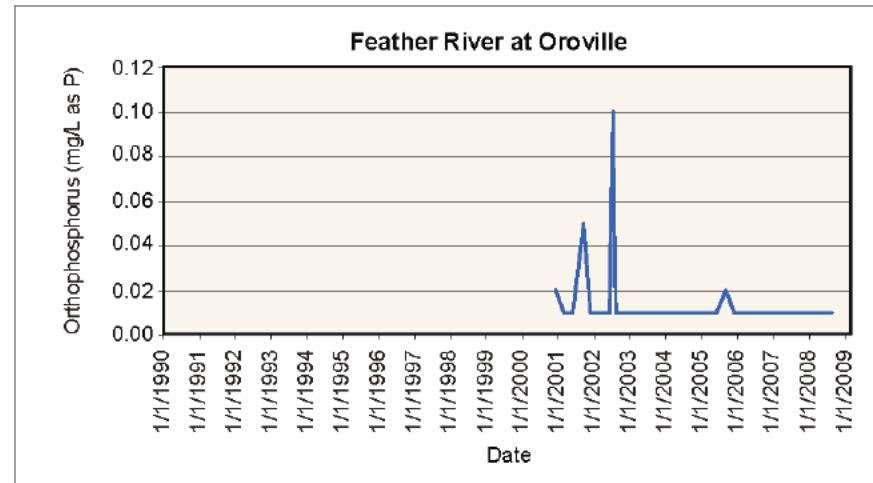
Figure 8-33b
Temporal Summary of Ortho-Phosphorus Data at Delta Stations



Notes: mg/L = milligram per liter; P = phosphorus

Source: HDR 2010

BDCP EIR/EIS
Unique ID: HDR 0529a Date Created: 07/14/2010

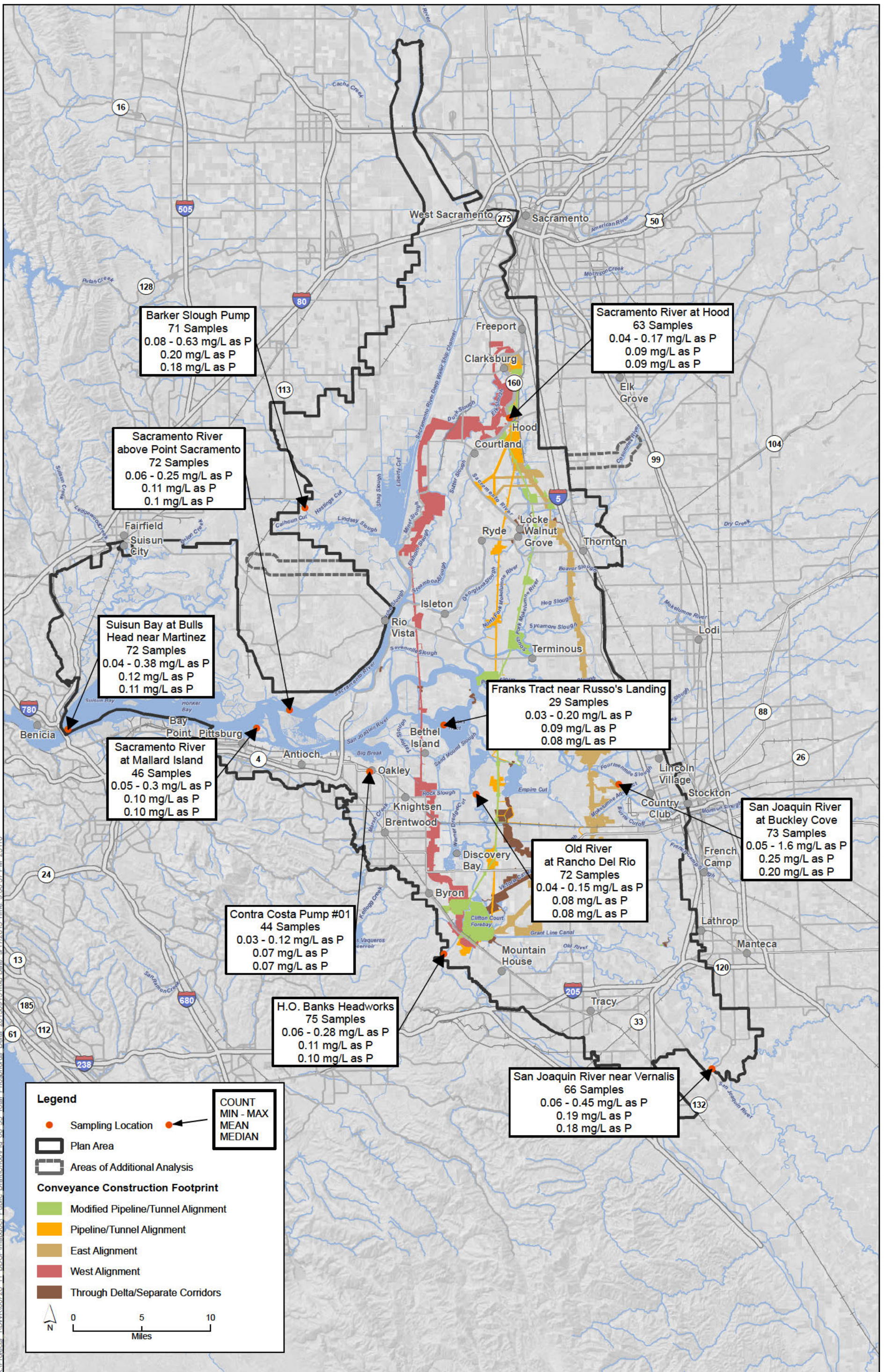


Notes: mg/L = milligram per liter; P = phosphorus

Source: HDR 2010

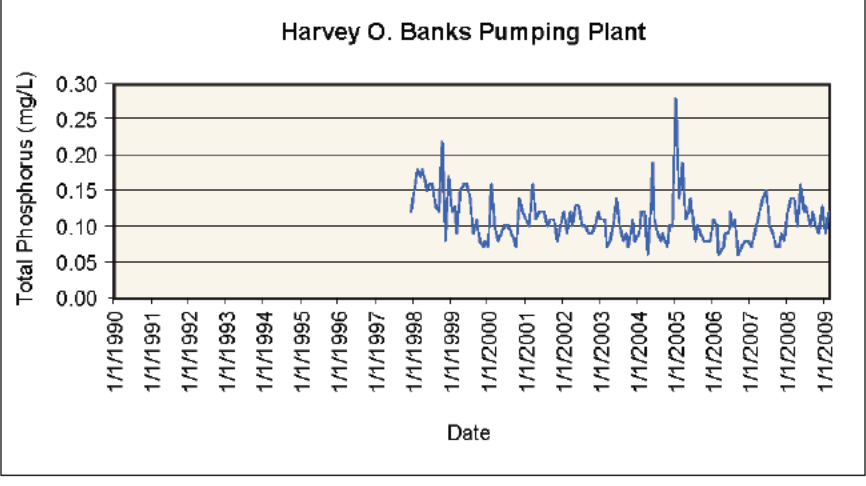
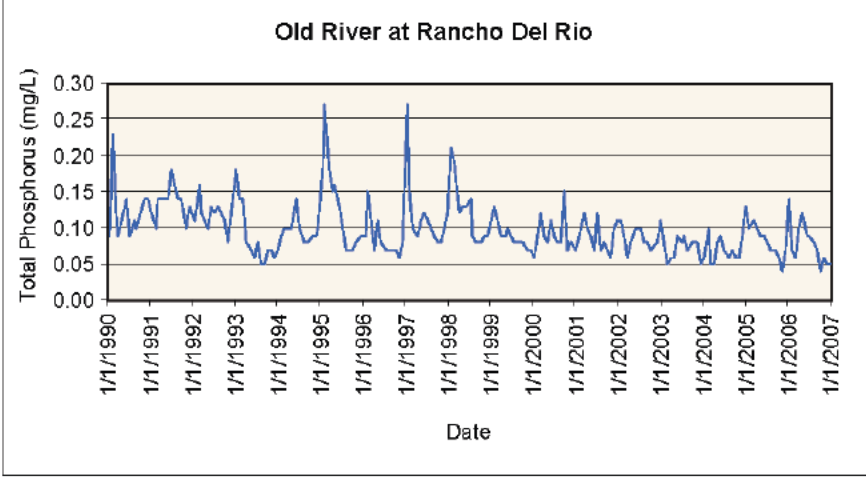
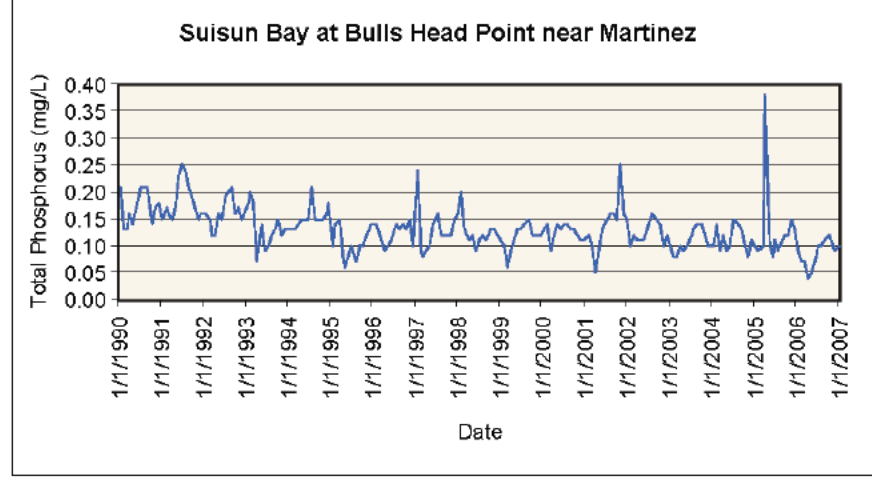
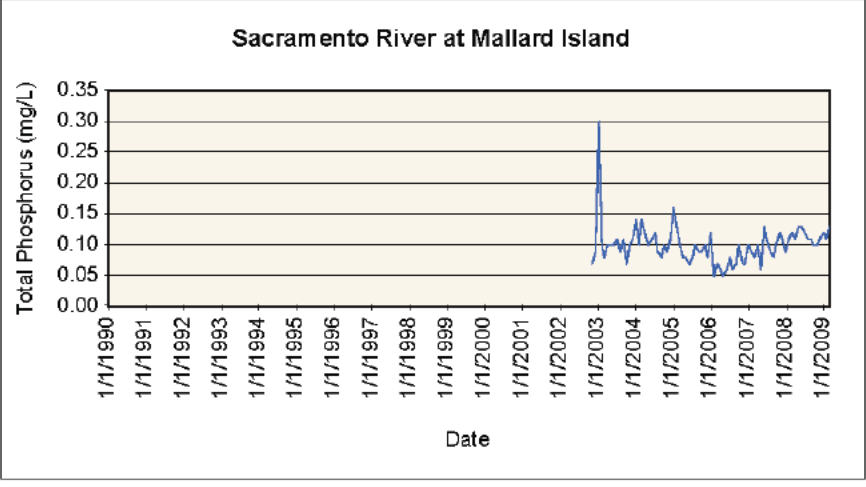
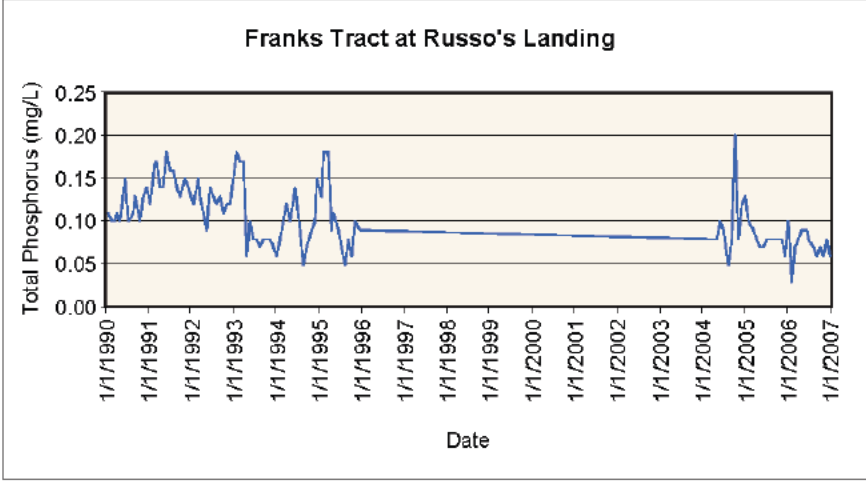
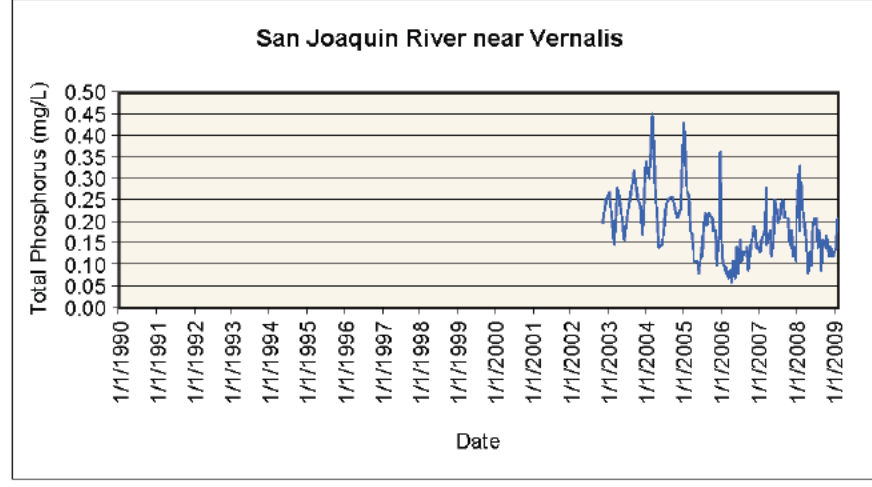
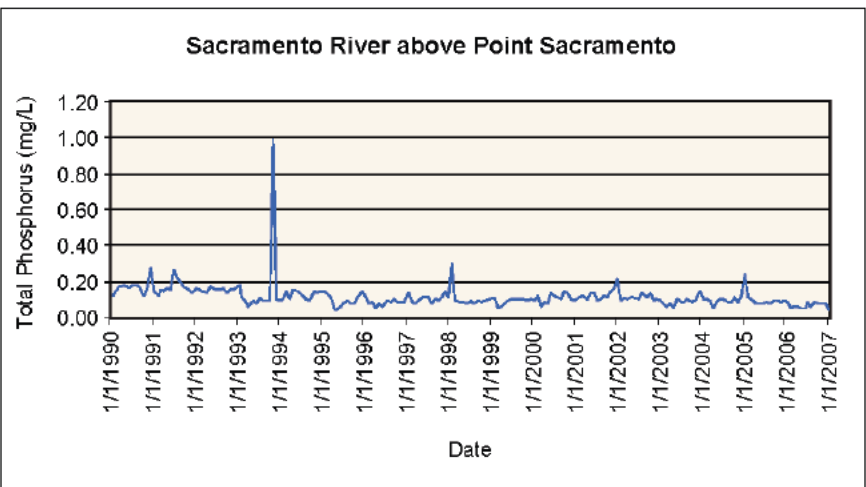
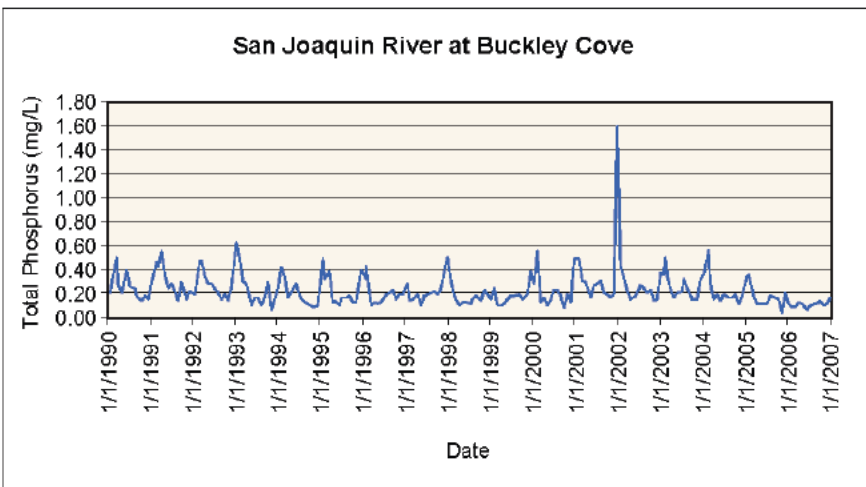
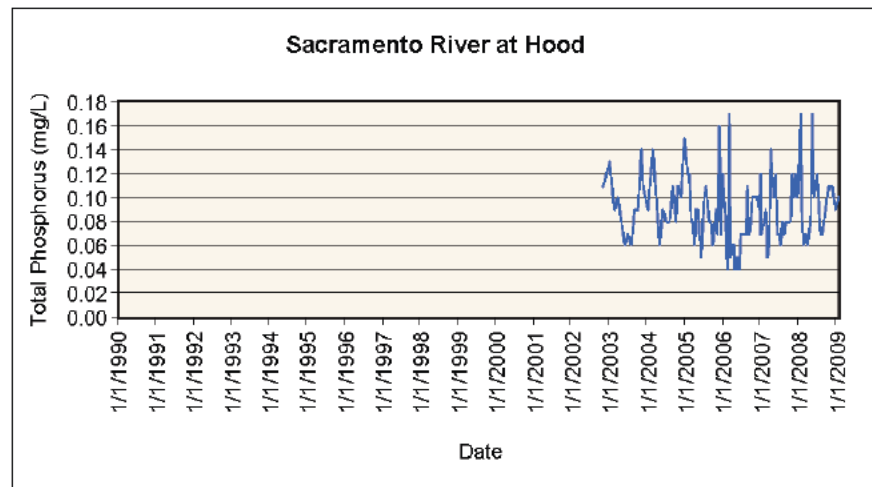
BDCP EIR/EIS
Unique ID: HDR 0529b Date Created: 07/14/2010

Figure 8-34
Temporal Summary of Ortho-Phosphorus Data at North of Delta and South of Delta Stations



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NA P 2010; Hydrology, HDR 2010; Water Quality, EMP 1999.

Figure 8-35
Spatial Summary of Total Phosphorus Data at Delta Stations (2001 - 2006)

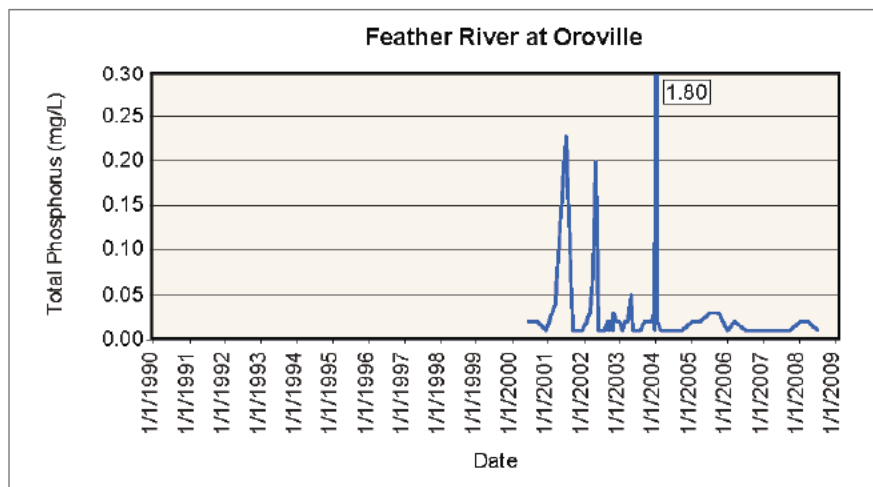
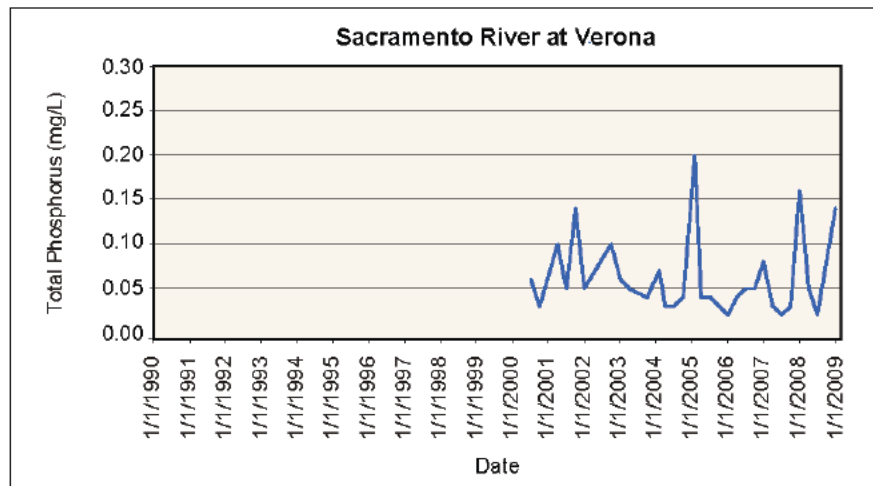
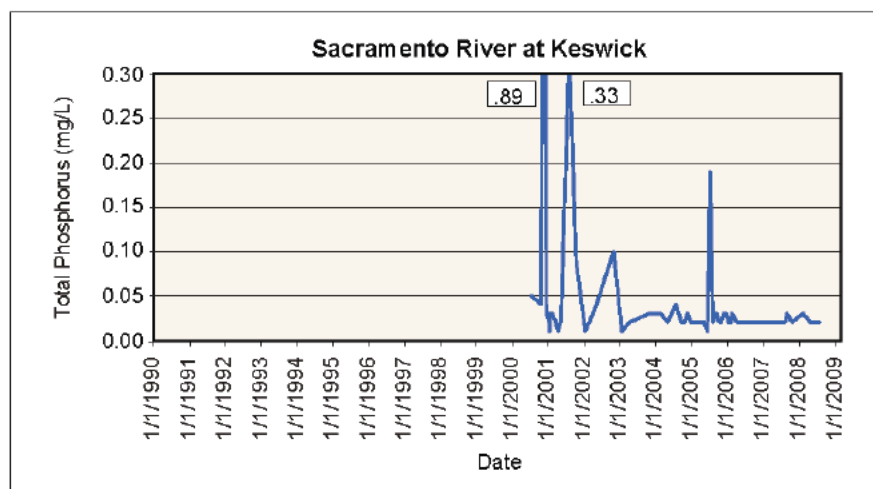


Note: mg/L = milligram per liter

Source: HDR 2009

BDCP EIR/EIS
Unique ID: HDR 0169 Date Created: 07/14/2010

Figure 8-36
Temporal Summary of Total Phosphorus Data at Delta Stations

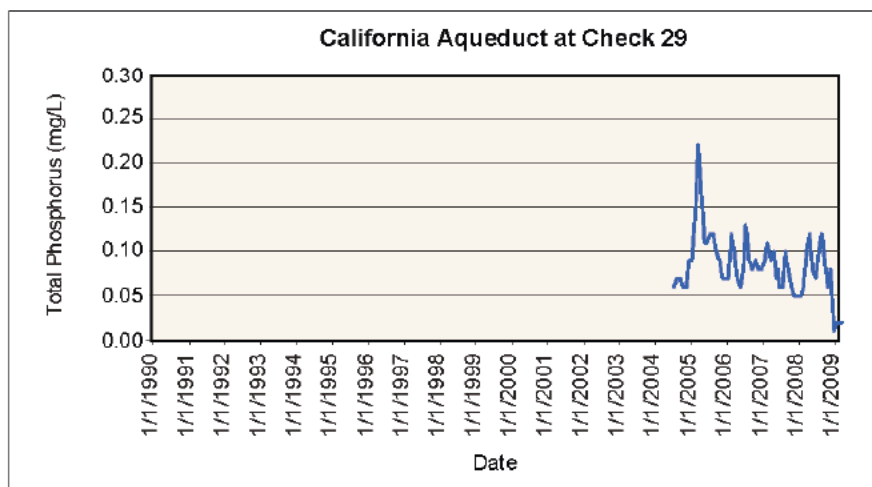
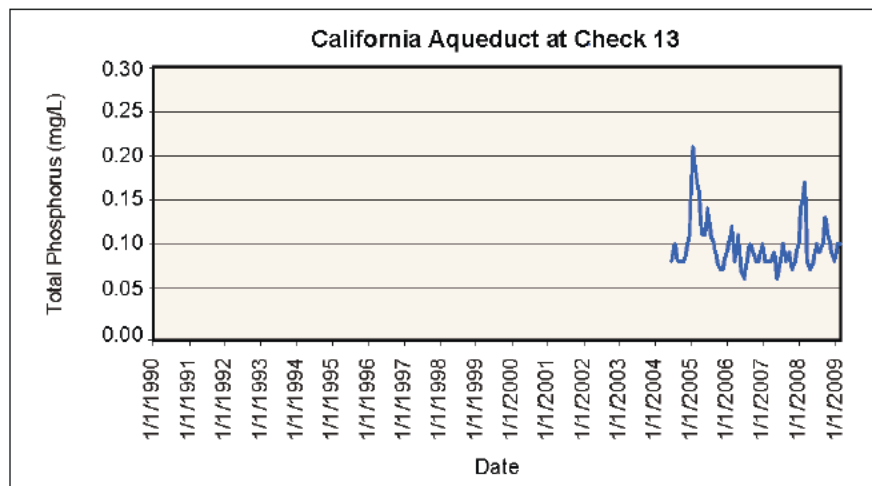
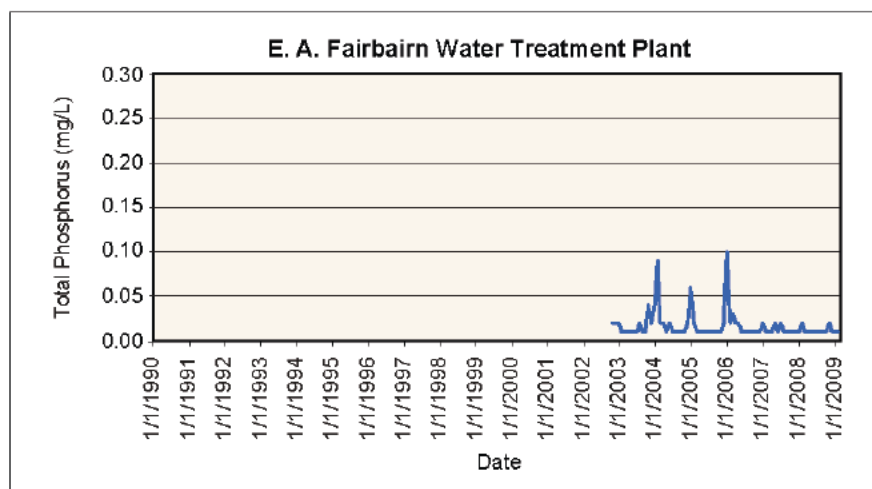


Note: mg/L = milligram per liter

Source: HDR 2010

BDCP EIR/EIS

Unique ID: HDR 0530a Date Created: 07/14/2010



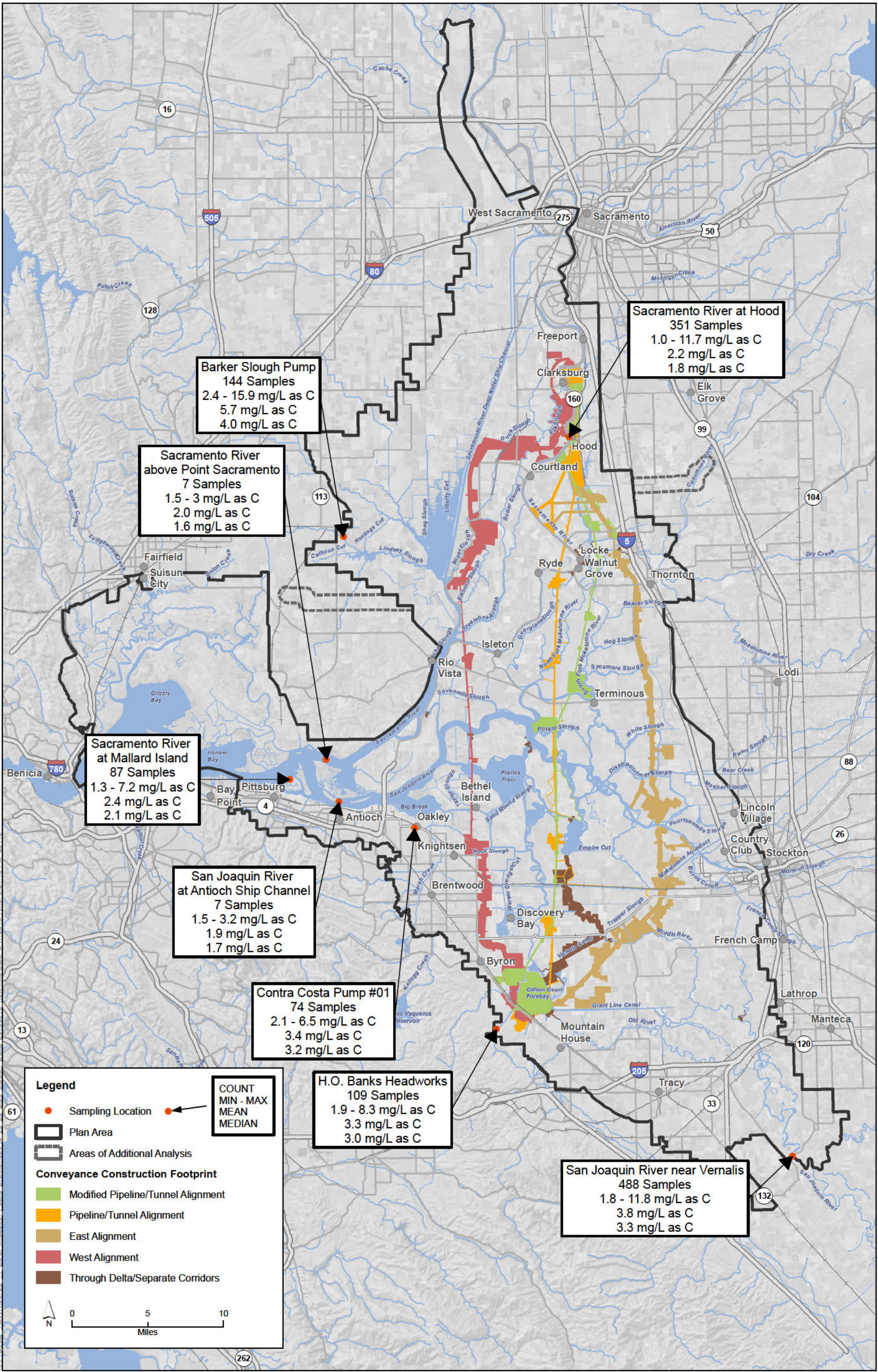
Note: mg/L = milligram per liter

Source: HDR 2010

BDCP EIR/EIS

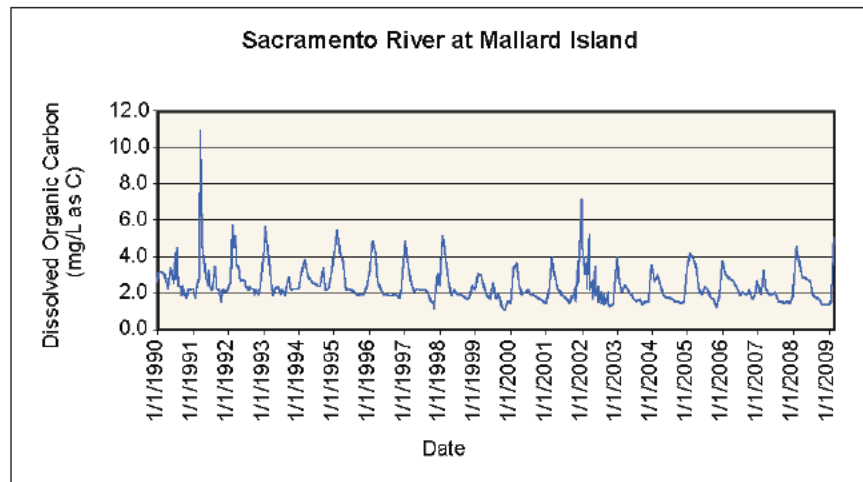
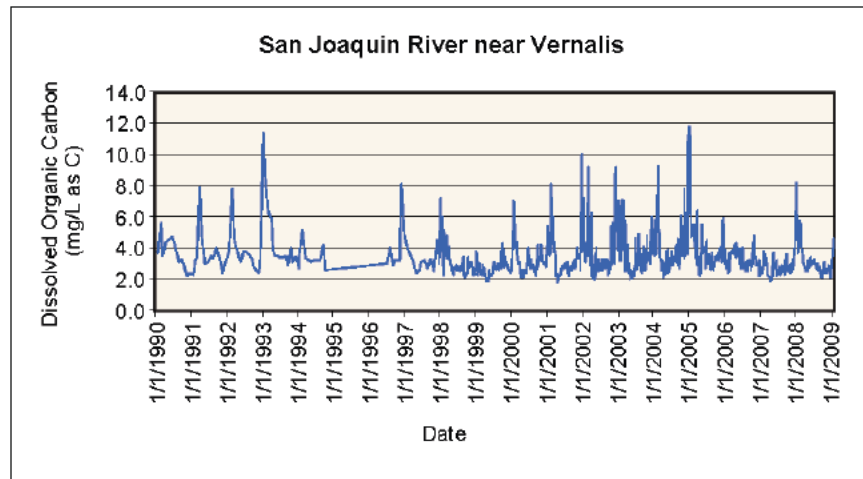
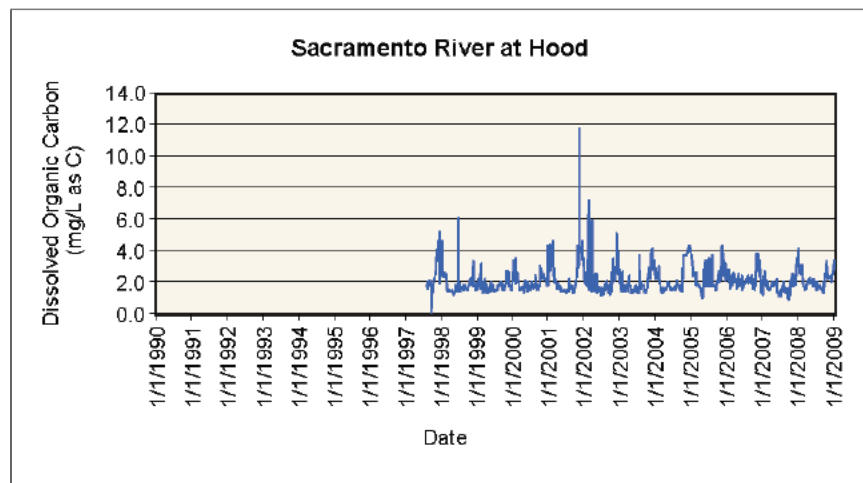
Unique ID: HDR 0530b Date Created: 07/14/2010

Figure 8-37
Temporal Summary of Total Phosphorus Data at North of Delta and South of Delta Stations



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NA P 2010; Hydrology, HDR 2010; Water Quality, EMP 1999.

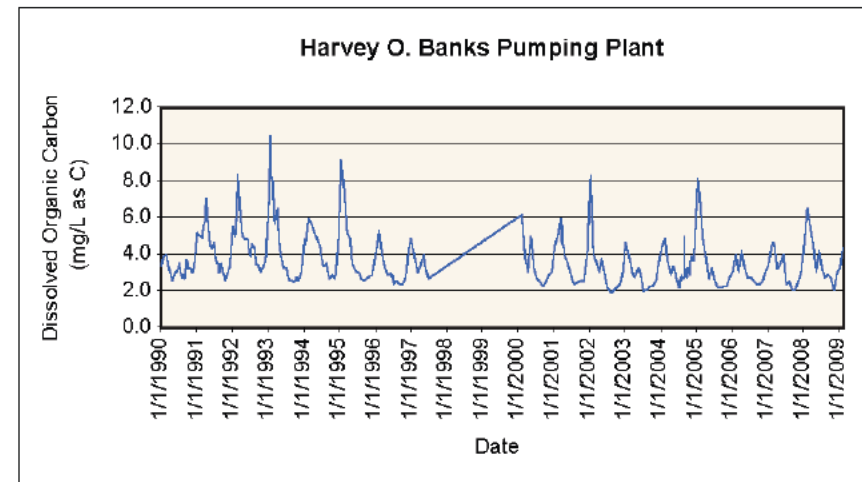
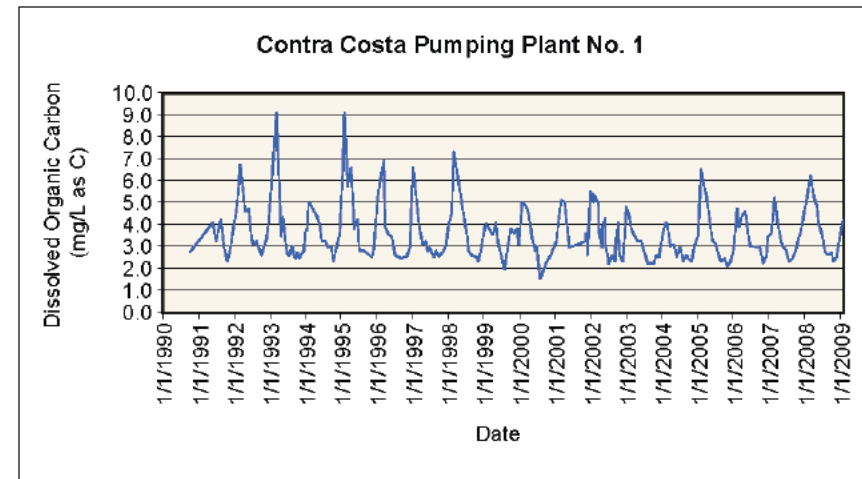
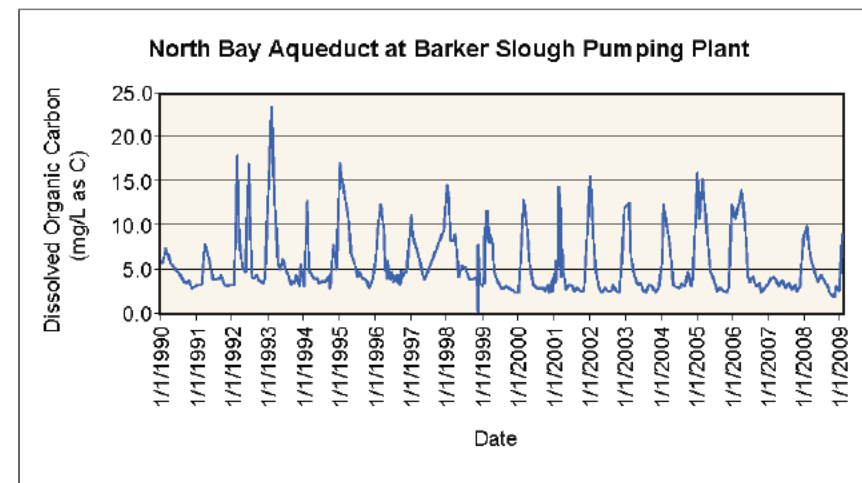
Figure 8-38
Spatial Summary of Dissolved Organic Carbon Data at Delta Stations (2001 - 2006)



Notes: C = carbon; mg/L = milligram per liter

Source: HDR 2009

BDCP EIR/EIS
Unique ID: HDR 0160a Date Created: 07/14/2010

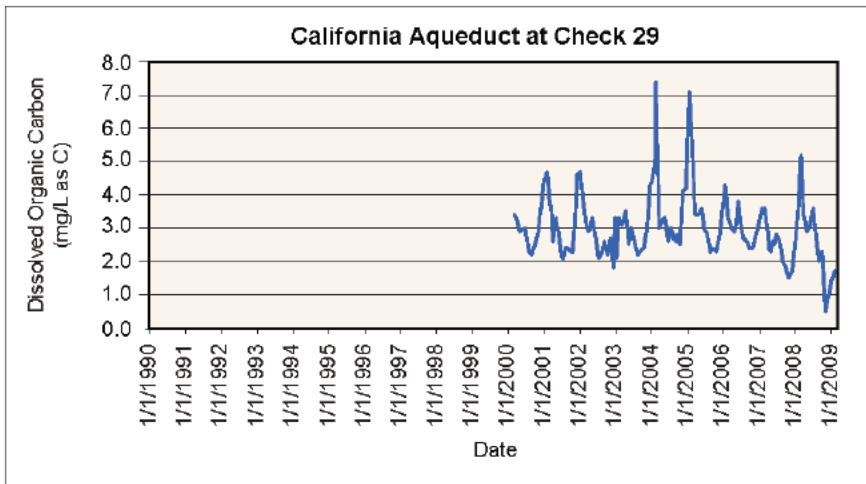
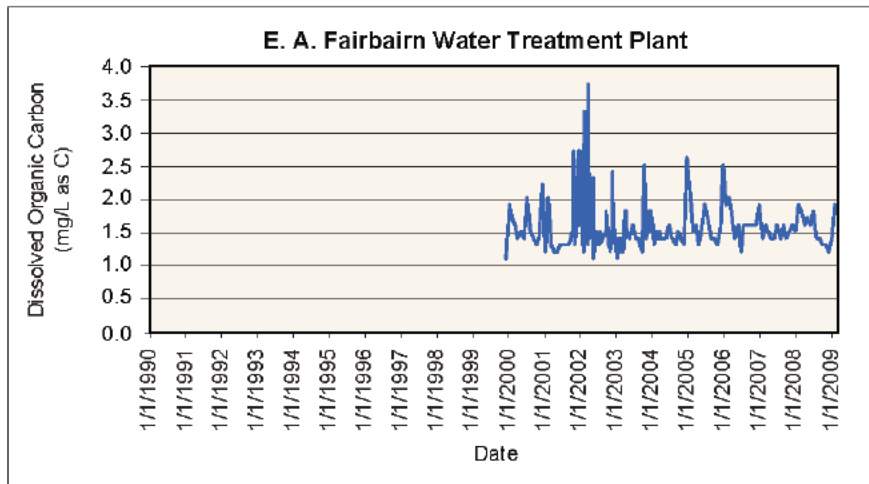
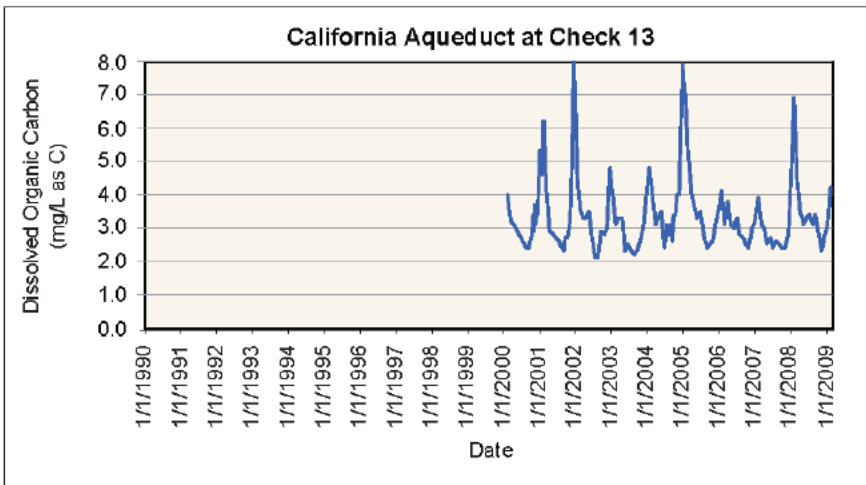
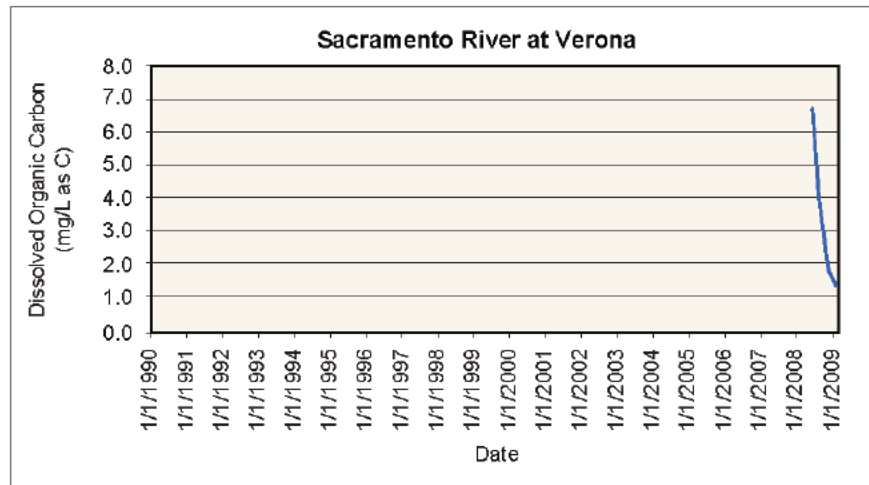
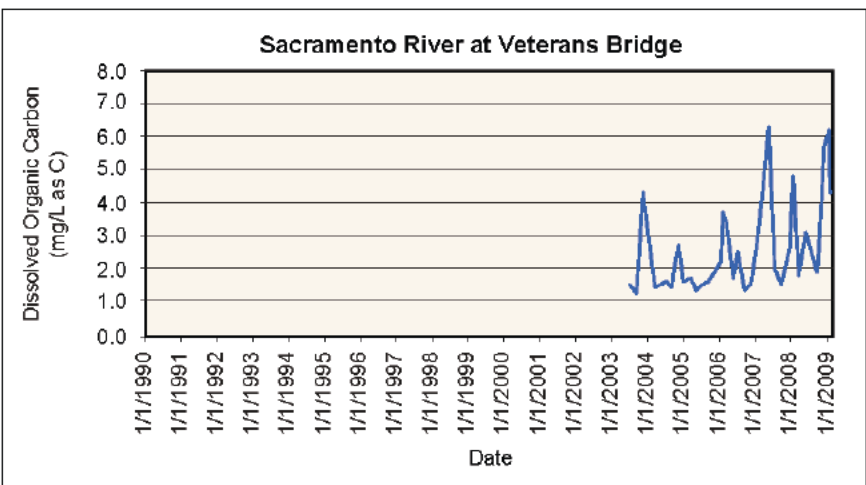
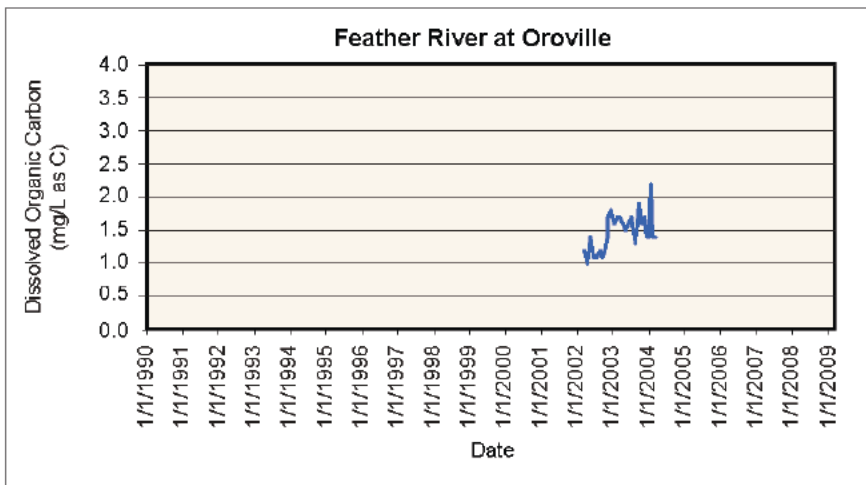
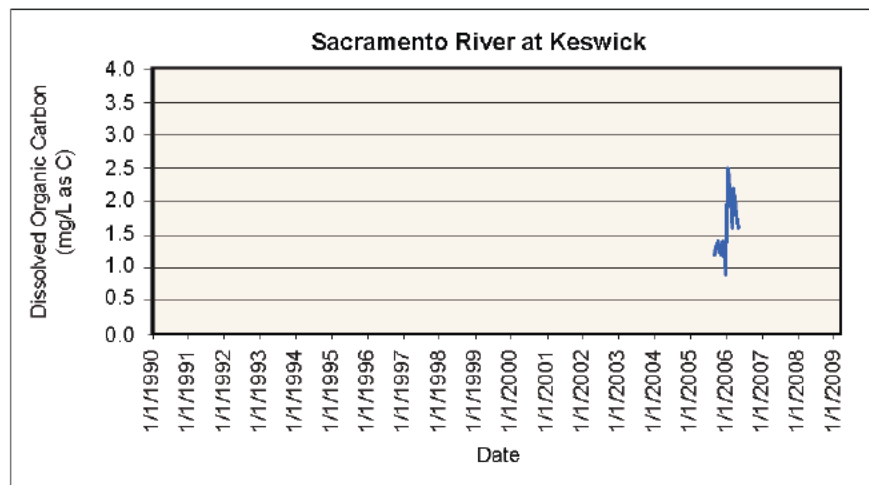


Notes: C = carbon; mg/L = milligram per liter

Source: HDR 2009

BDCP EIR/EIS
Unique ID: HDR 0160b Date Created: 07/14/2010

Figure 8-39
Temporal Summary of Dissolved Organic Carbon Data at Delta Stations

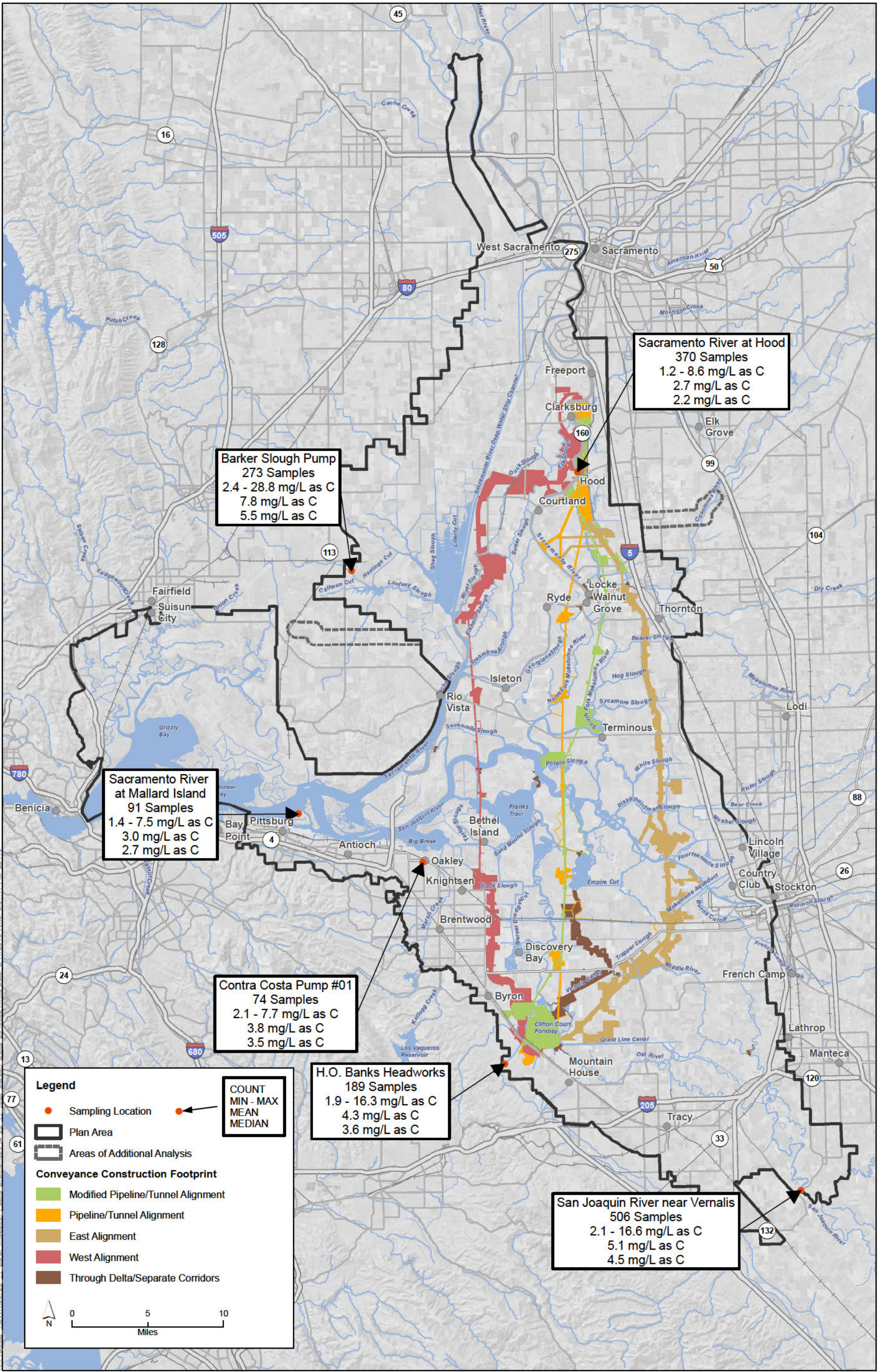


Notes: C = carbon; mg/L = milligram per liter

Source: HDR 2010

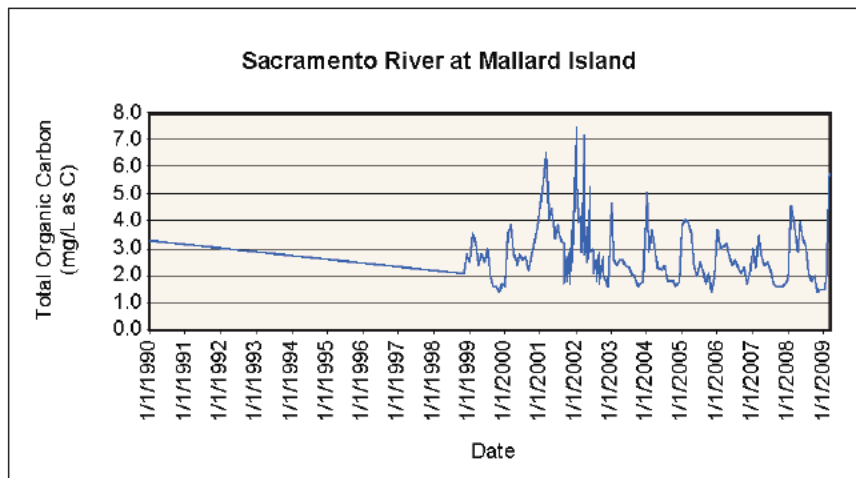
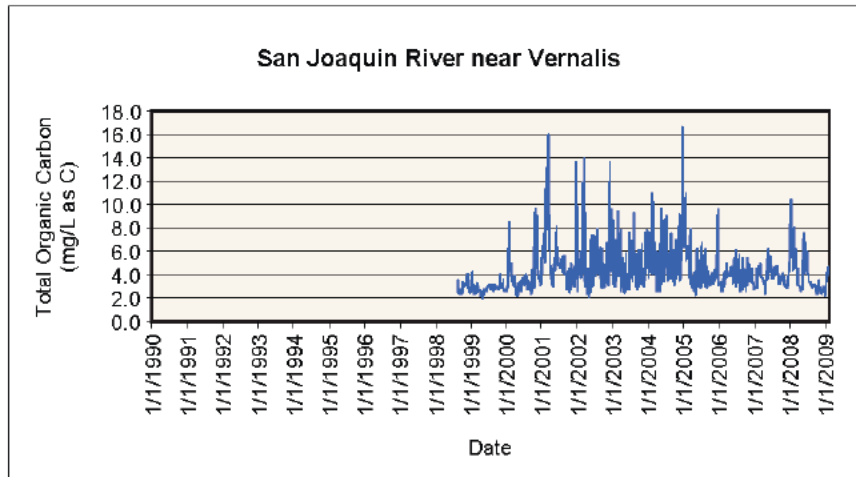
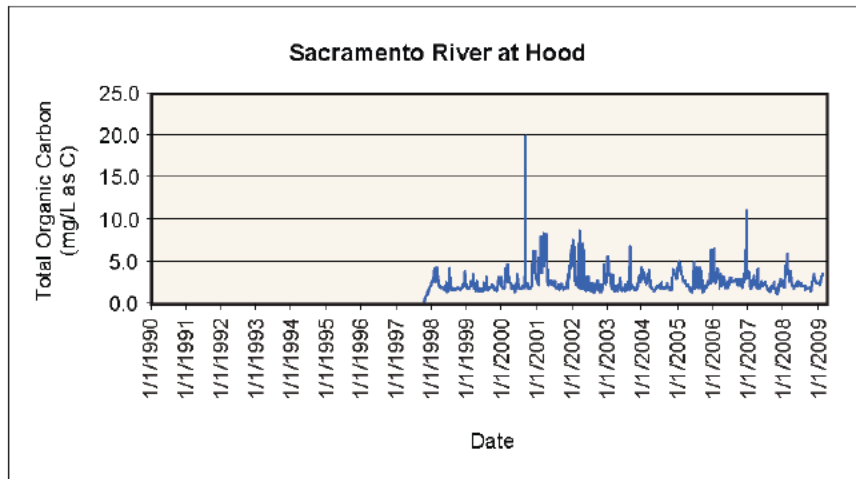
BDCP EIR/EIS
Unique ID: HDR 0522 Date Created: 07/14/2010

Figure 8-40
Temporal Summary of Dissolved Organic Carbon Data at North of Delta and South of Delta Stations



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NA P 2010; Hydrology, HDR 2010; Water Quality, EMP 1999.

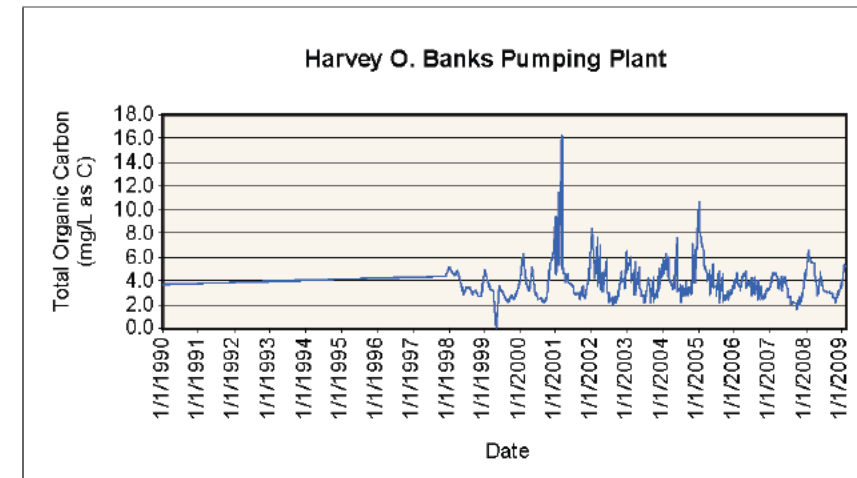
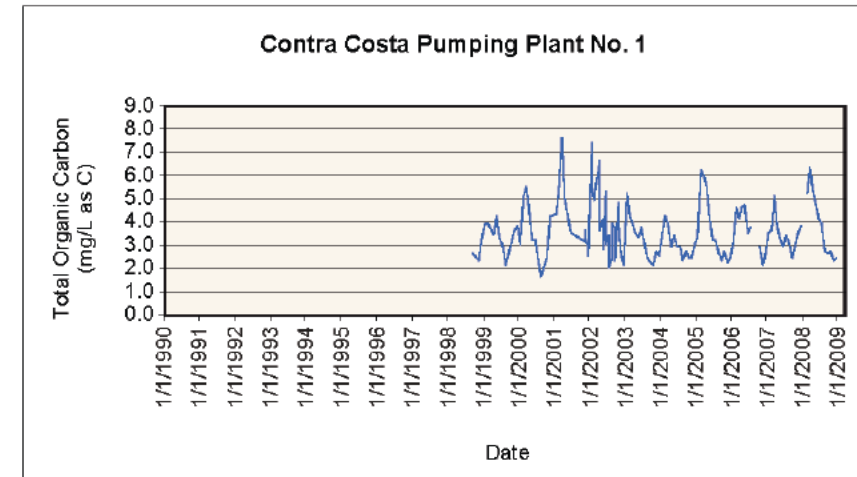
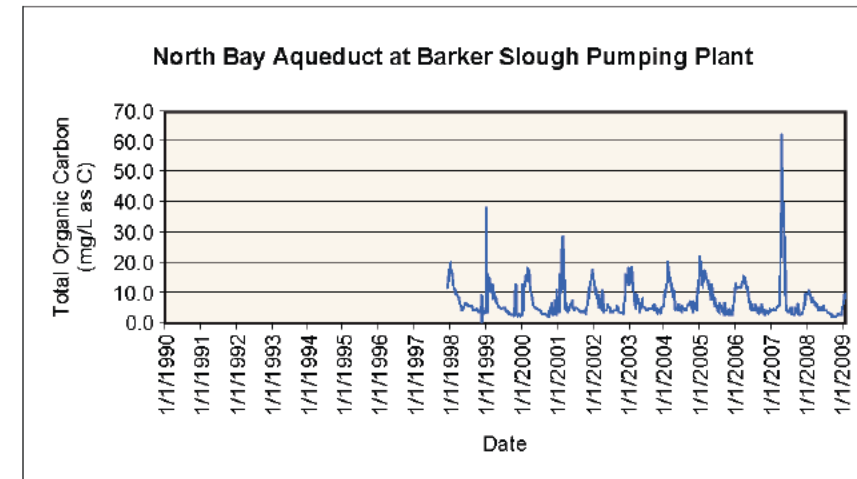
Figure 8-41
Spatial Summary of Total Organic Carbon Data at Delta Stations (2001 - 2006)



Notes: C = carbon; mg/L = milligram per liter

Source: HDR 2009

BDCP EIR/EIS
Unique ID: HDR 0161a Date Created: 07/14/2010

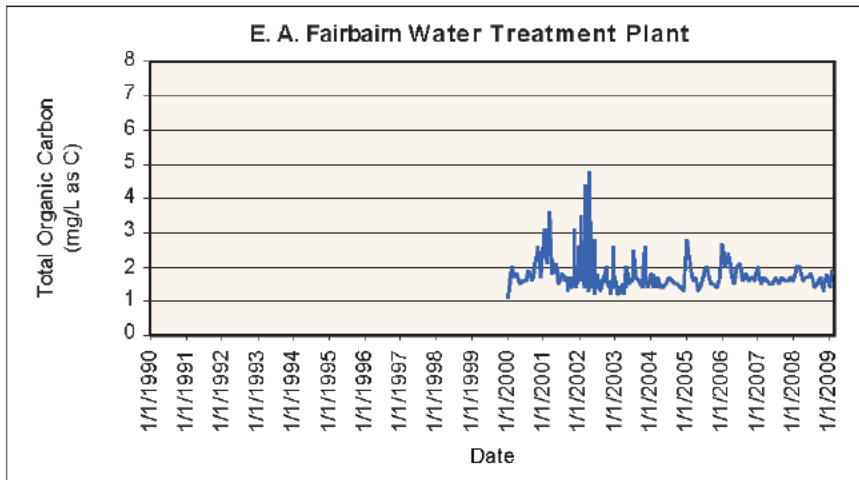
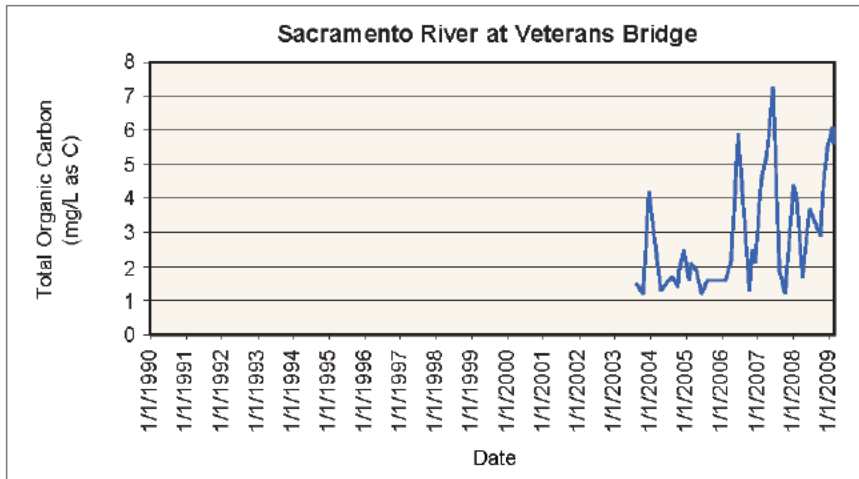
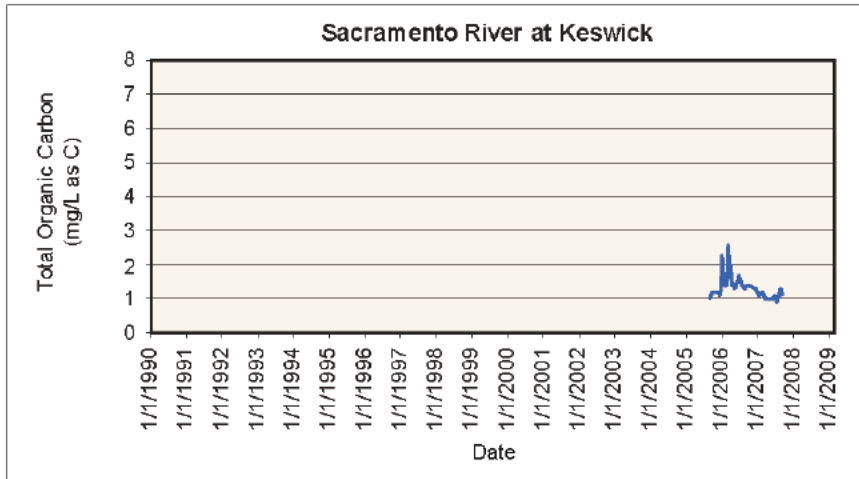


Notes: C = carbon; mg/L = milligram per liter

Source: HDR 2009

BDCP EIR/EIS
Unique ID: HDR 0161b Date Created: 07/14/2010

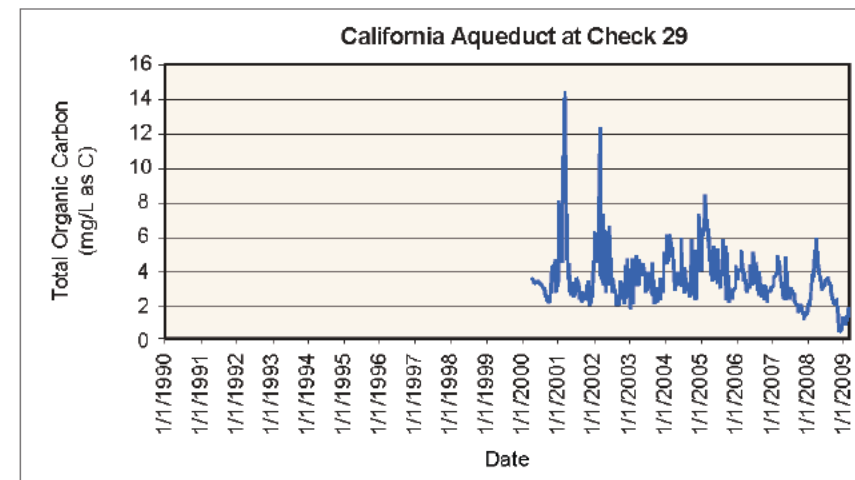
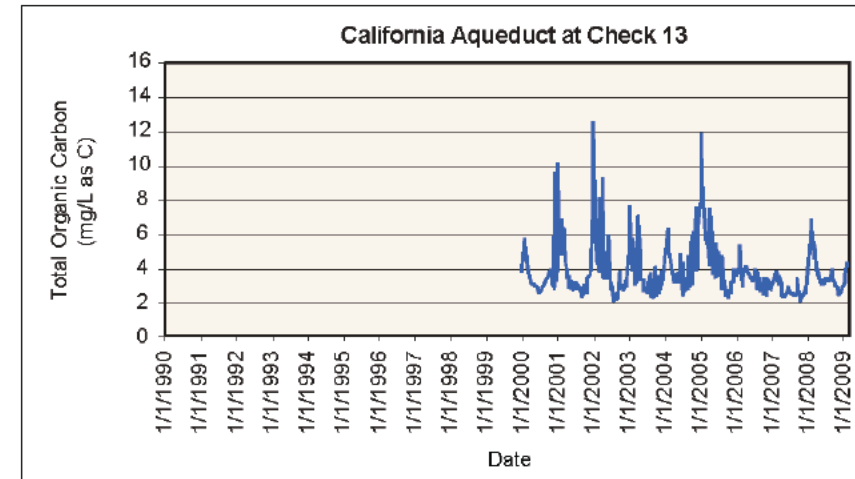
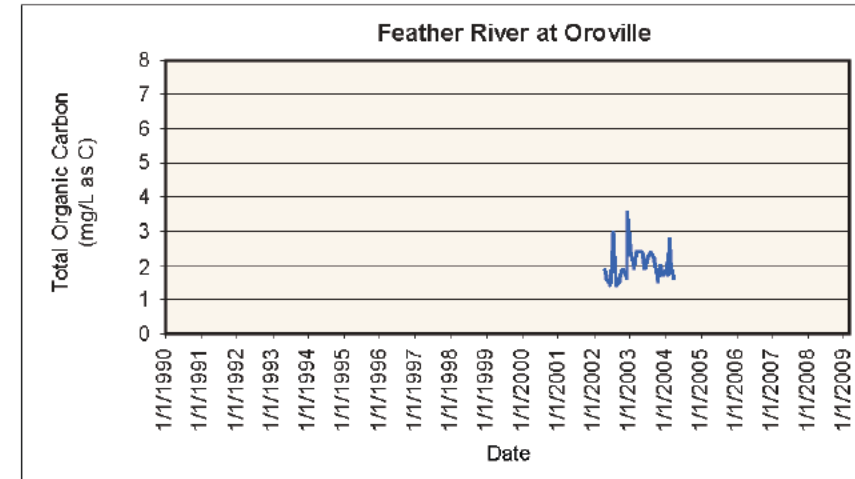
Figure 8-42
Temporal Summary of Total Organic Carbon Data at Delta Stations



Notes: C = carbon; mg/L = milligram per liter

Source: HDR 2010

BDCP EIR/EIS
Unique ID: HDR 0523a Date Created: 07/14/2010

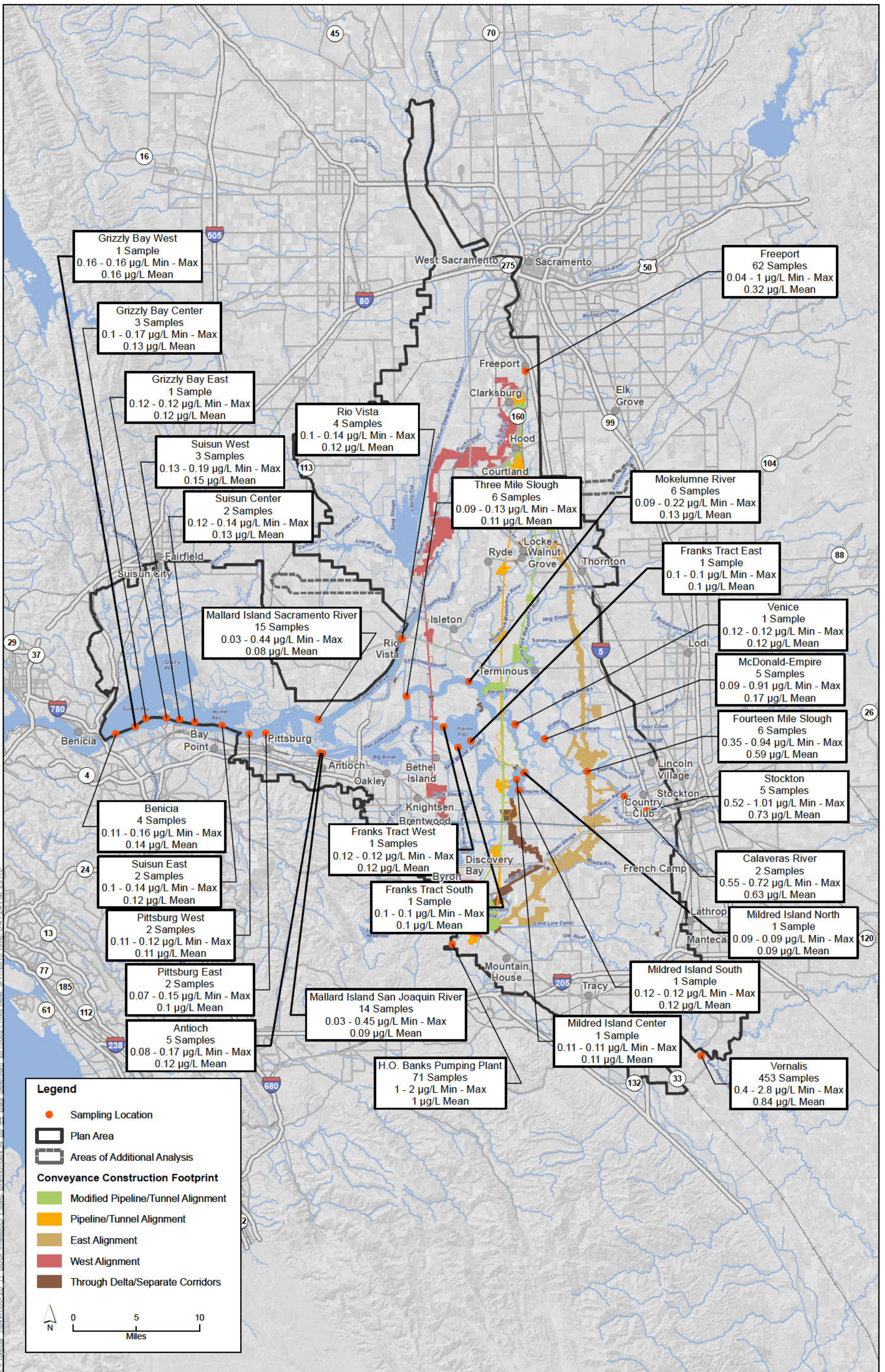


Notes: C = carbon; mg/L = milligram per liter

Source: HDR 2010

BDCP EIR/EIS
Unique ID: HDR 0523b Date Created: 07/14/2010

Figure 8-43
Temporal Summary of Total Organic Carbon Data at North of Delta and South of Delta Stations



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NA P 2010; Hydrology, HDR 2010; Cities, DWR 2010; Selenium, Lucas and Stewart 2007; MWQI, 2003, 2005, 2006, 2008; SFEI 2010; SWAMP 2009; USGS 2010.

Figure 8-44
Spatial Summary of Dissolved Selenium Data (1999 - 2008)

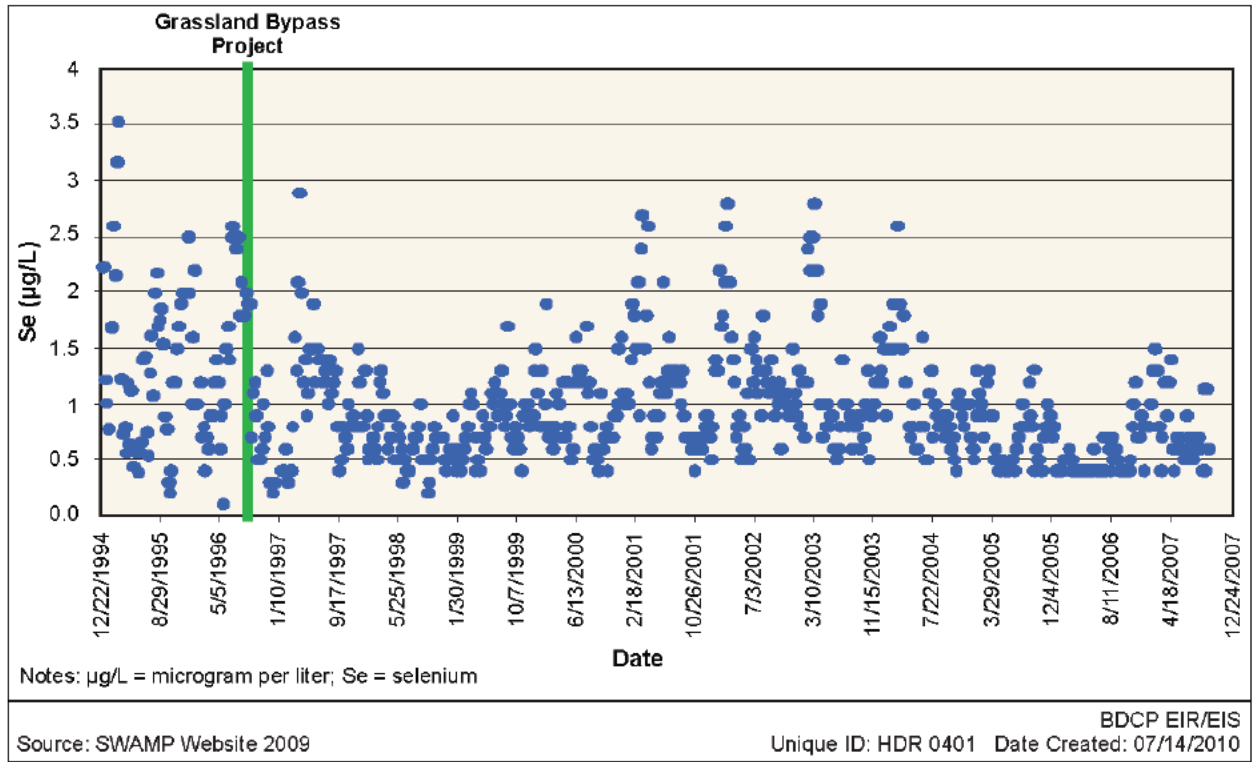
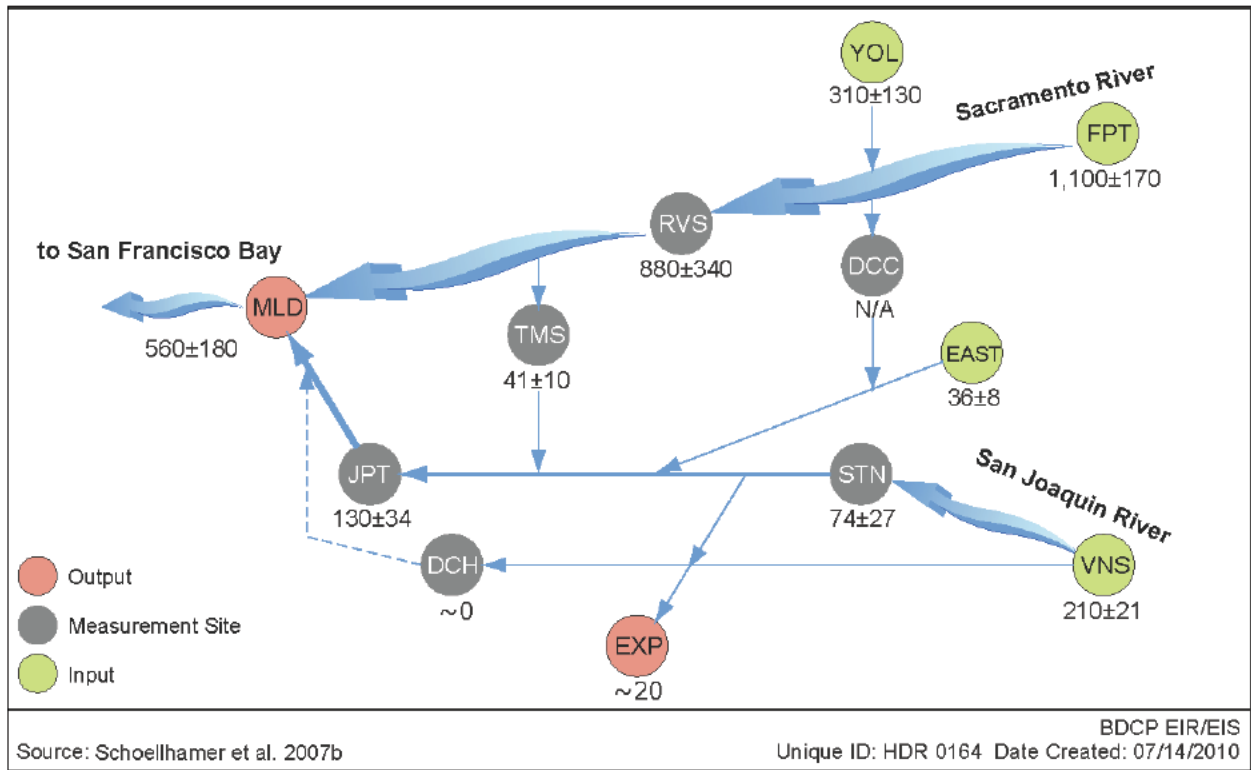


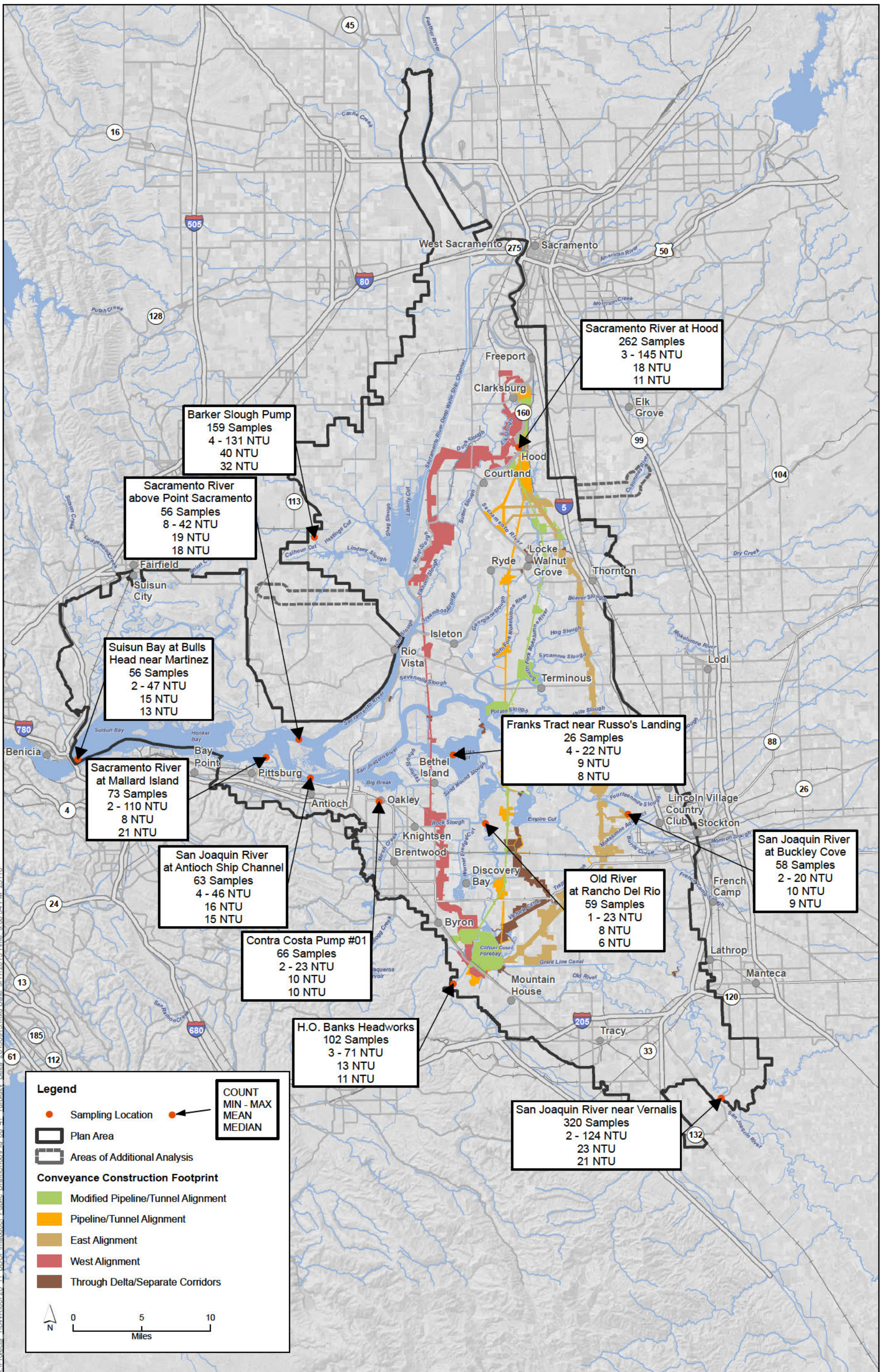
Figure 8-45
Total Selenium Concentrations along Main Stem of
San Joaquin River at Vernalis, 1994–2007



Note: Average annual Delta sediment budget based on water years 1999 – 2002, except for Three Mile Slough (TMS), which is based on water years 2001 and 2002 only (Wright and Schoellhamer 2005). Numbers are the annual suspended sediment flux and the estimated error in thousand metric tons. Arrow thickness indicates relative magnitude of the suspended sediment flux. Sediment deposition accounts for the decreased sediment fluxes from east to west. Additional sites are Sacramento River at Freeport (FPT), Yolo Bypass (YOL), Delta Cross Channel (DCC), Sacramento River at Rio Vista (RVS), Mallard Island (MAL), Eastside tributaries (EAST), San Joaquin River at Vernalis (VNS), San Joaquin River at Stockton (STN), exports from the State Water Project and Central Valley Project (EXP), Dutch Slough (DCH), and San Joaquin River at Jersey Point (JPT).

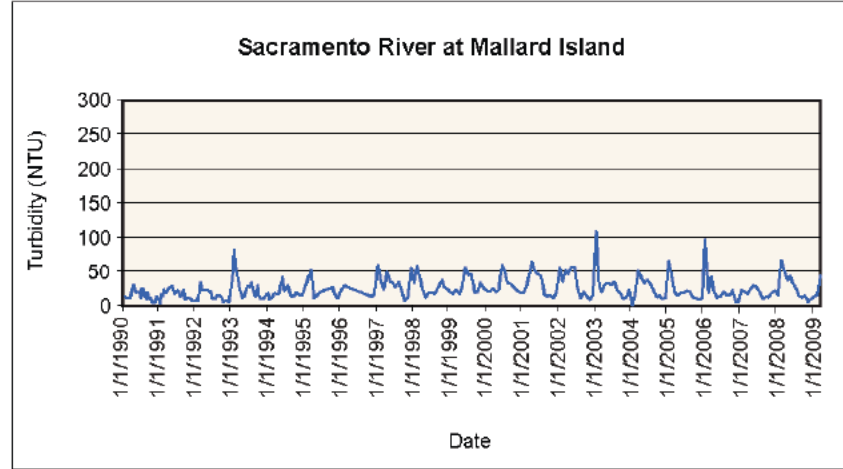
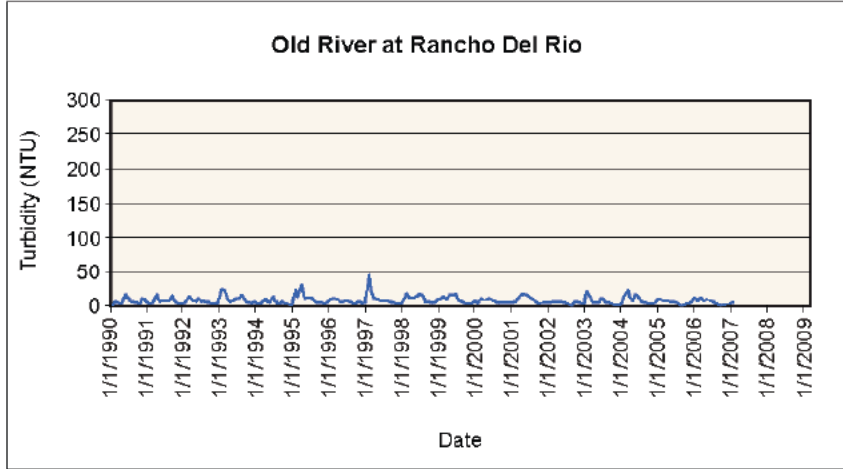
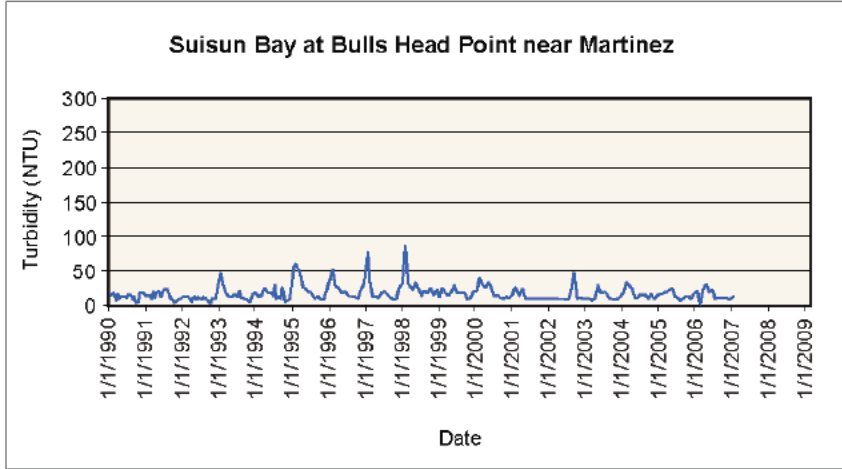
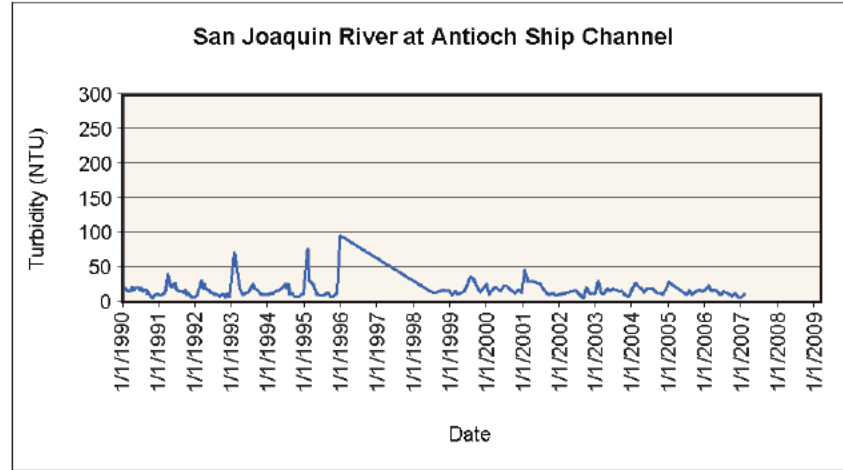
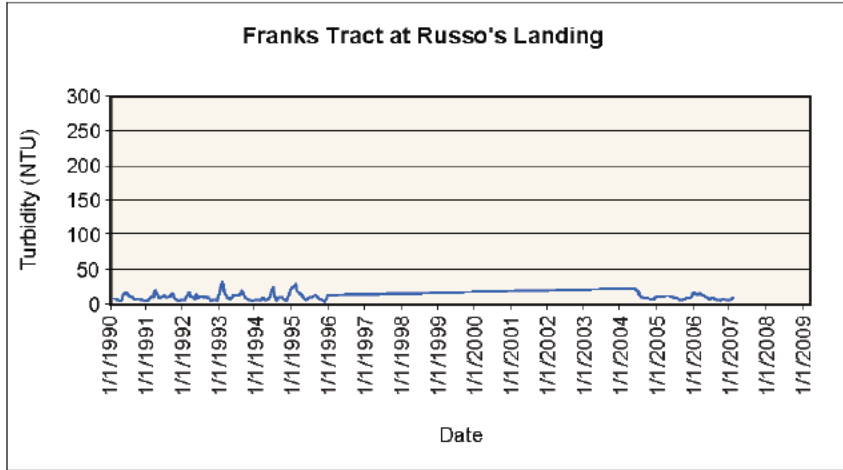
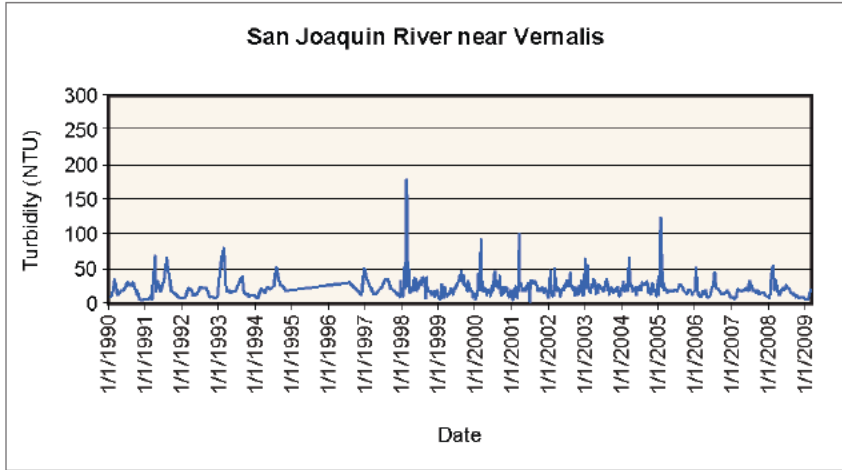
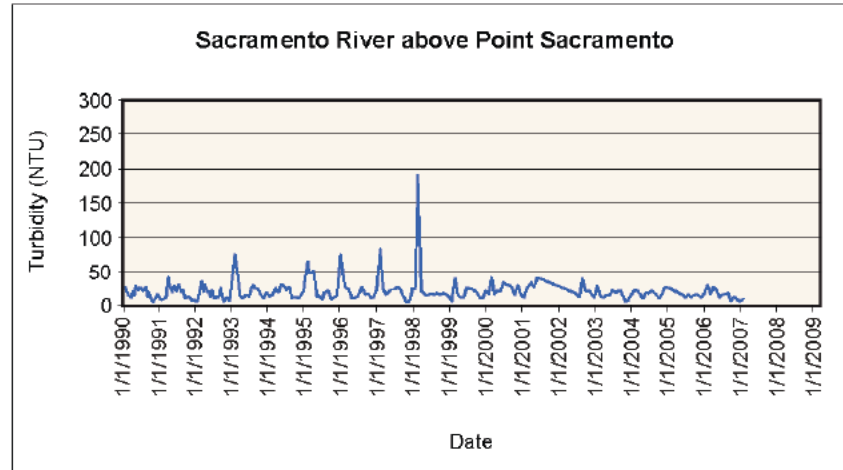
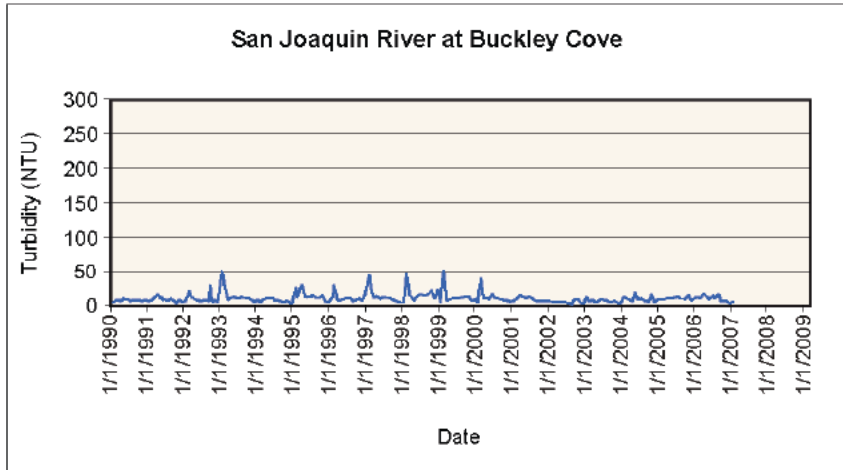
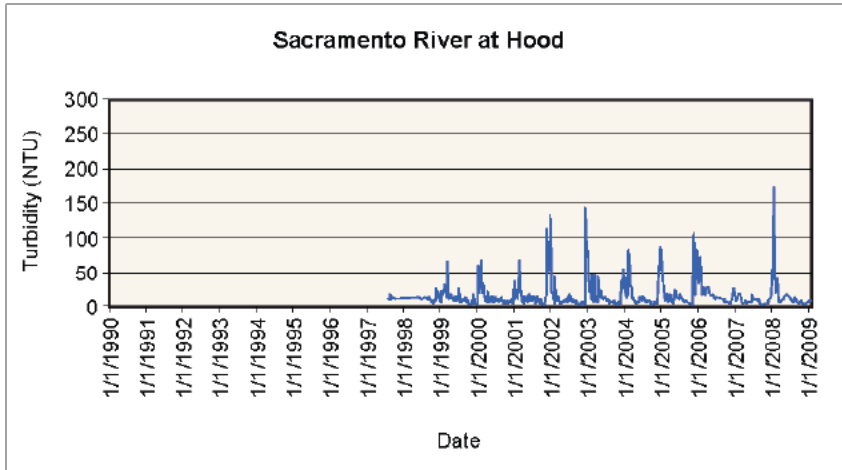
Figure 8-46
Average Annual Delta Sediment Budget
Based on Water Years 1999–2002

BDCP Graphics/... BDCP EIR-EIS/ (HDR Aug 2010) Rev 08/21/2013 55



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NA P 2010; Hydrology, HDR 2010; Water Quality, EMP 1999.

Figure 8-47
Spatial Summary of Turbidity Data at Delta Stations (2001 - 2006)

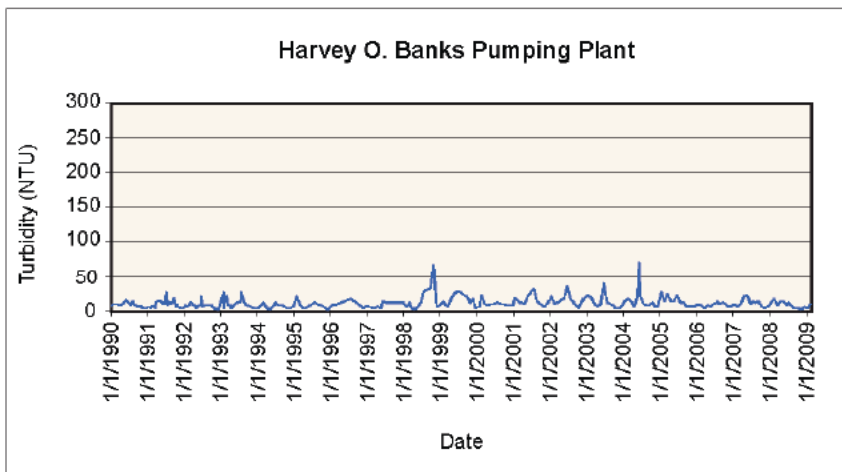
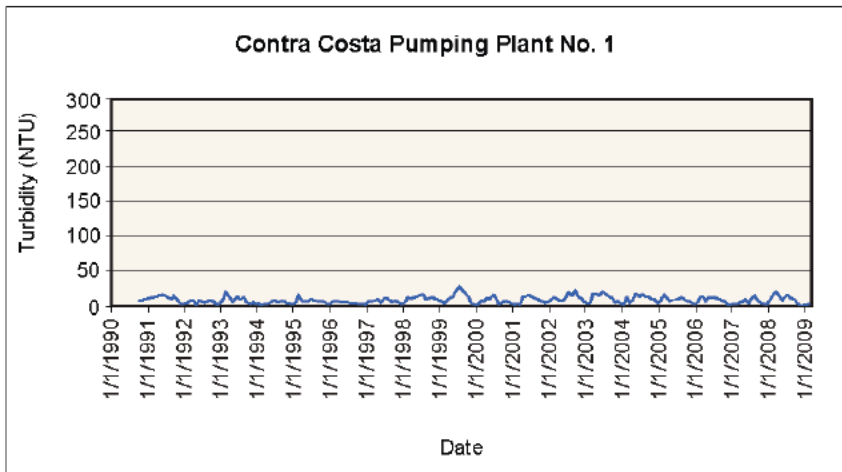
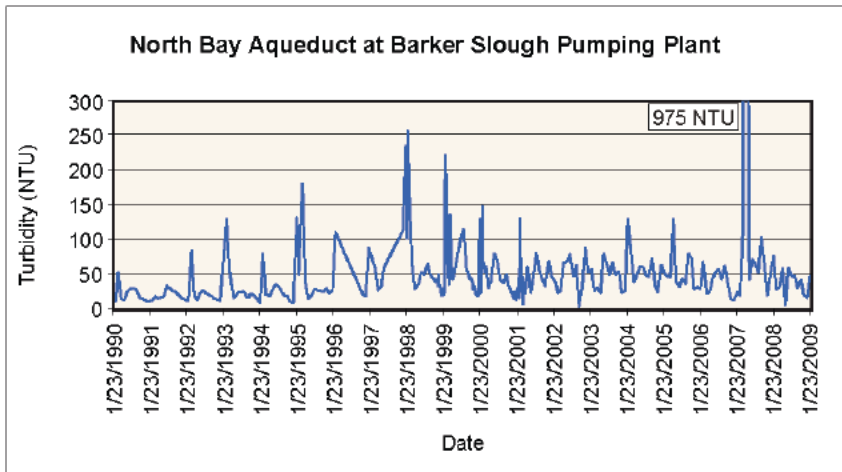


Note: NTU = nephelometric turbidity unit

Source: HDR 2009

BDCP EIR/EIS
Unique ID: HDR 0165a Date Created: 07/14/2010

Figure 8-48a
Temporal Summary of Turbidity Data at Delta Stations

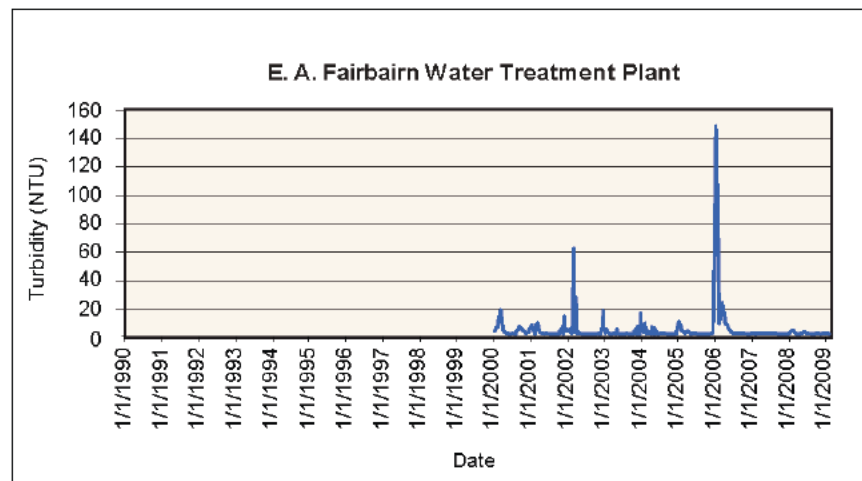
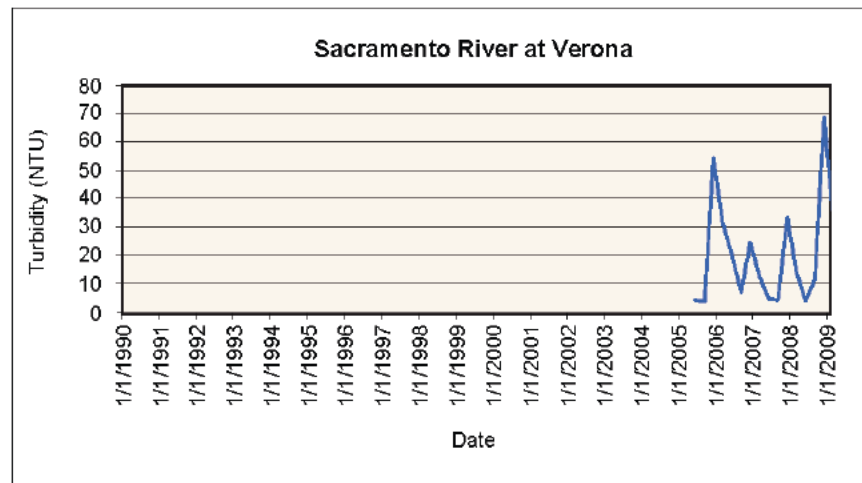
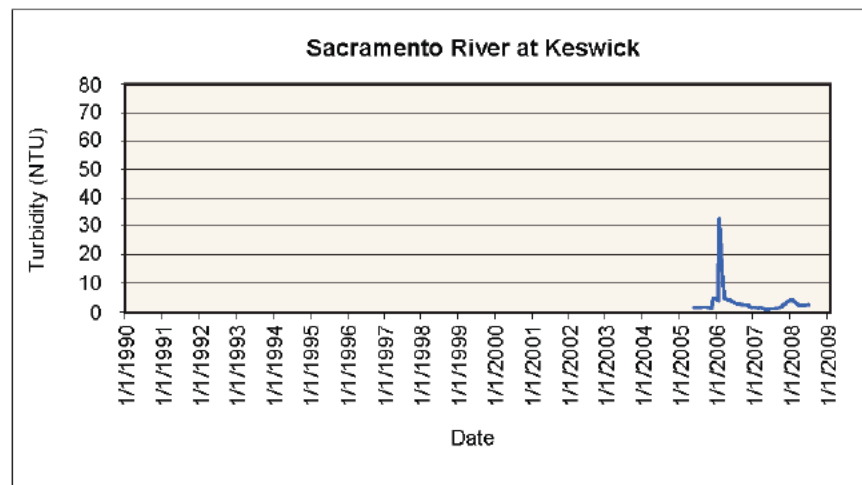


Note: NTU = nephelometric turbidity unit

Source: HDR 2009

BDCP EIR/EIS
Unique ID: HDR 0165b Date Created: 07/14/2010

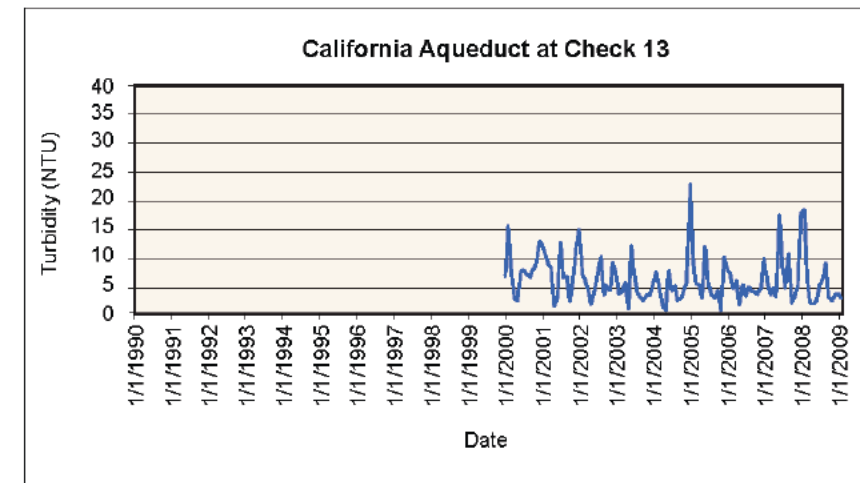
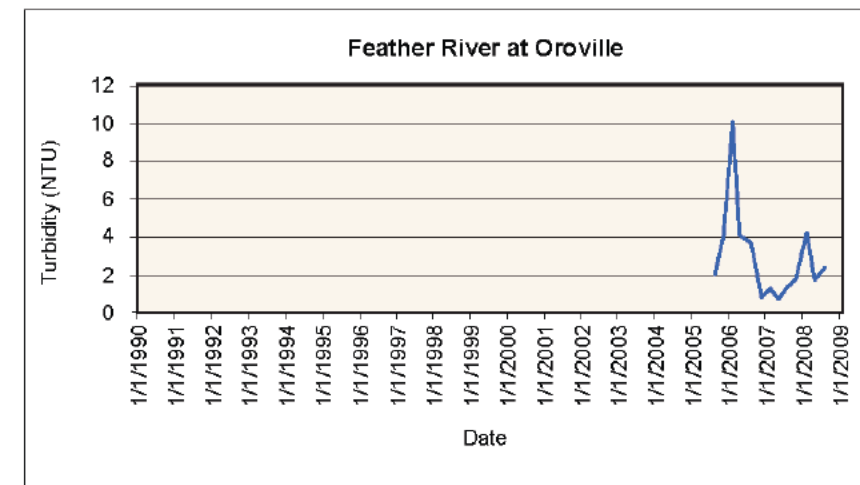
Figure 8.48b
Temporal Summary of Turbidity Data at Delta Station



Note: NTU = nephelometric turbidity unit

Source: HDR 2010

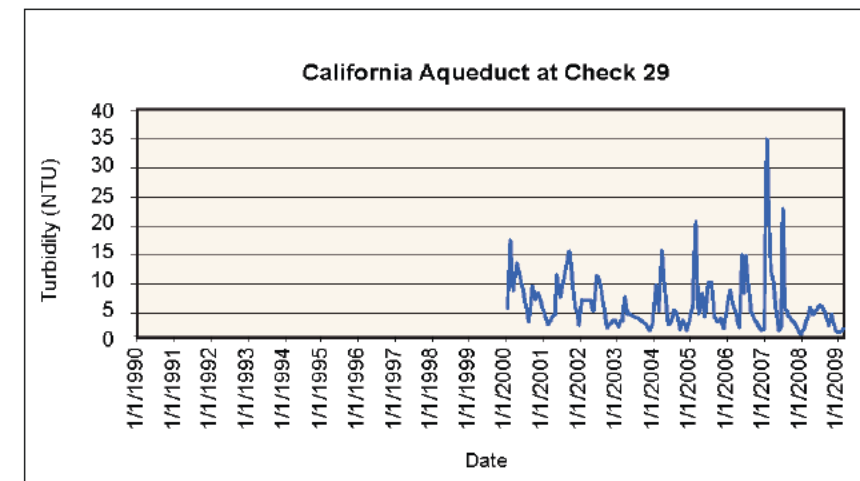
BDCP EIR/EIS
Unique ID: HDR 0526a Date Created: 07/14/2010



Note: NTU = nephelometric turbidity unit

Source: HDR 2010

BDCP EIR/EIS
Unique ID: HDR 0526b Date Created: 07/14/2010

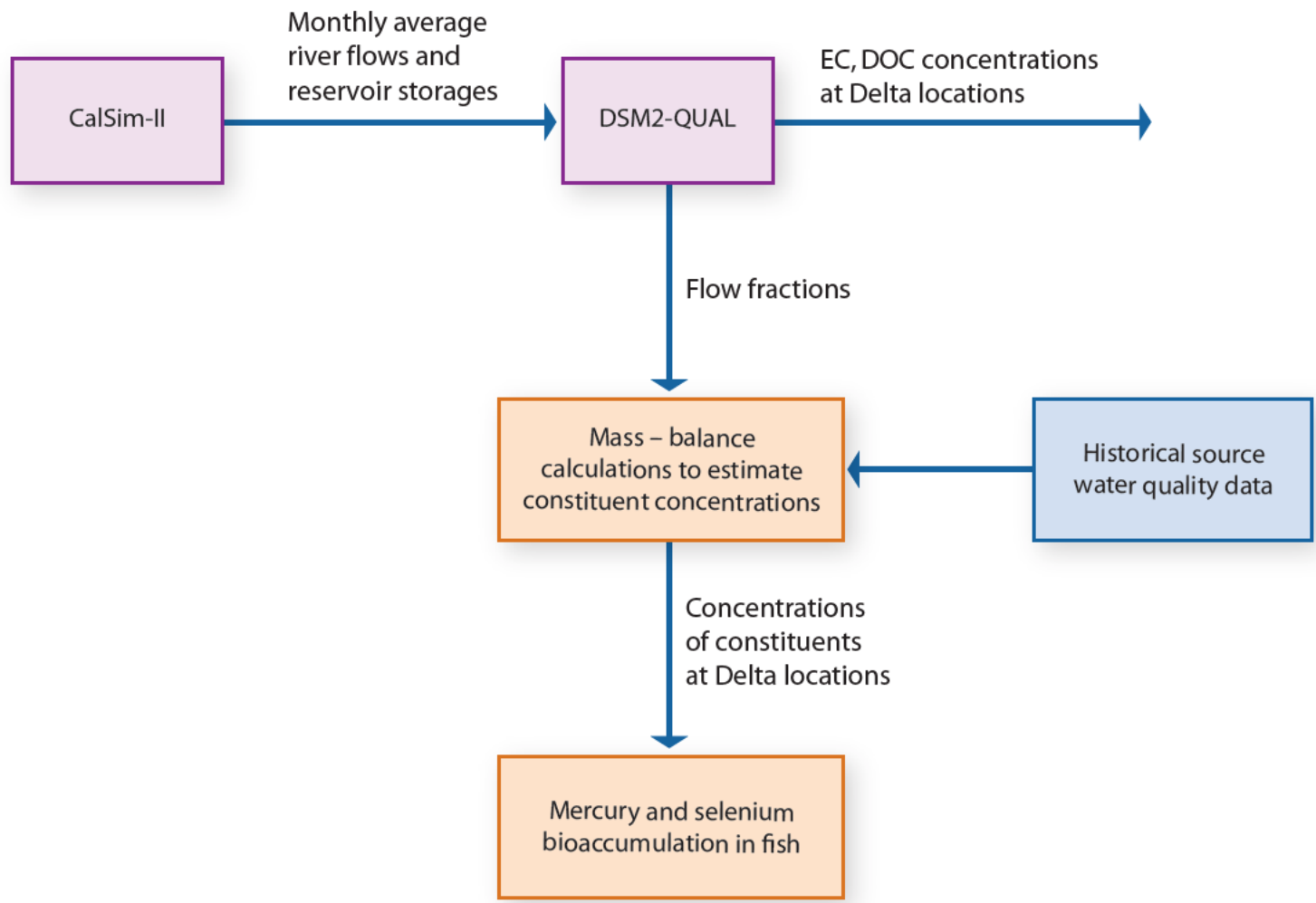


Note: NTU = nephelometric turbidity unit

Source: HDR 2010

BDCP EIR/EIS
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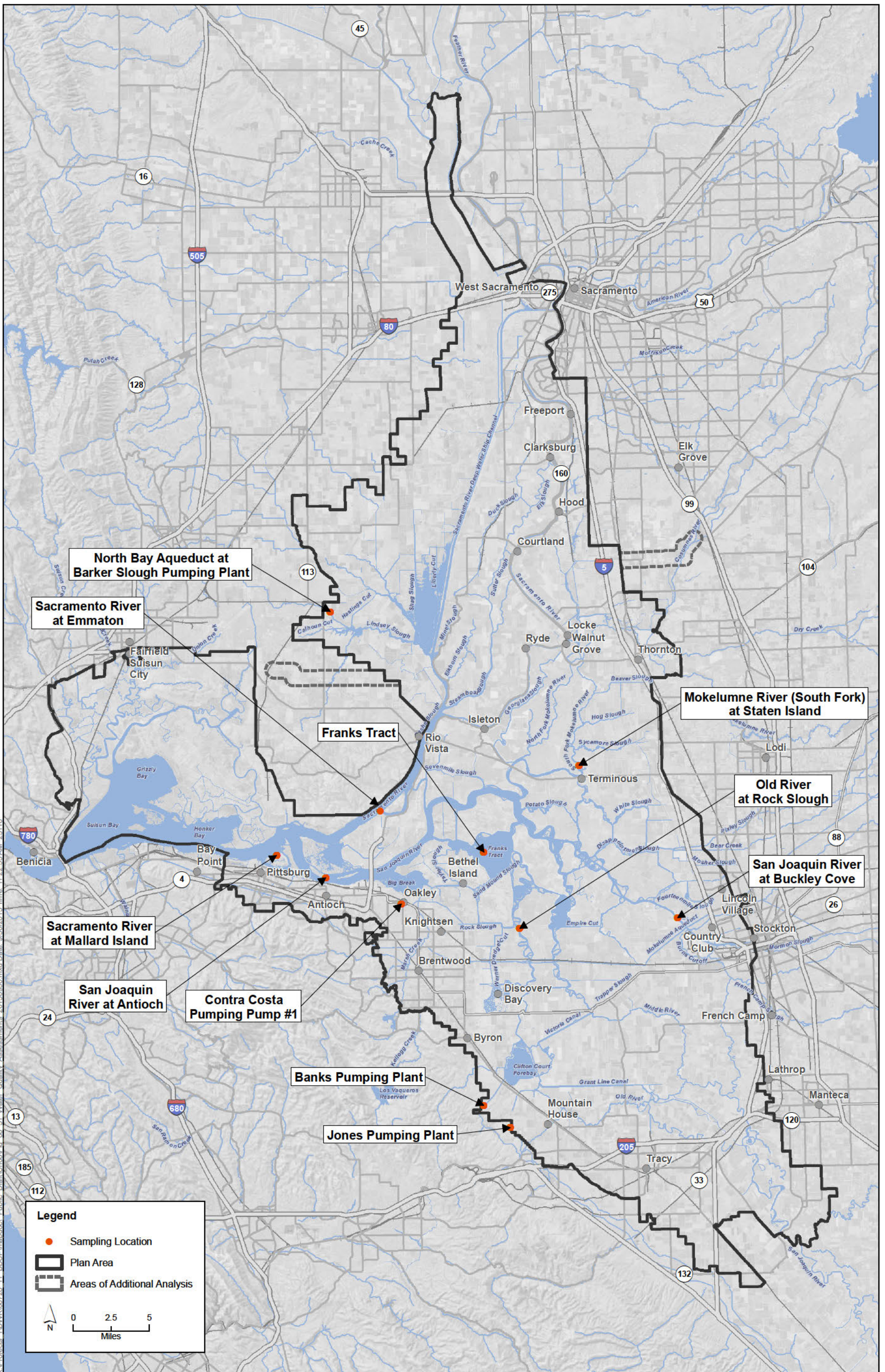
Figure 8-49
Temporal Summary of Turbidity Data at North of Delta and South of Delta Stations



BDCP/EIR/EIS (4-18-2012).JD

SOURCE: HDR 2010

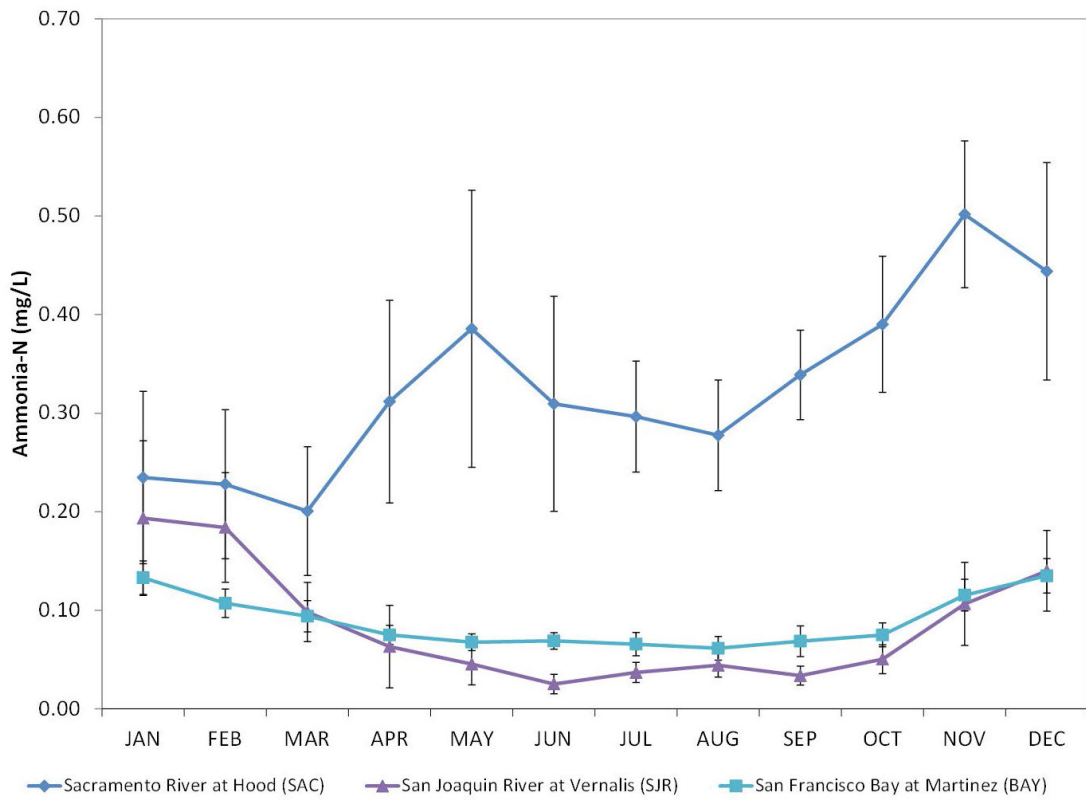
Figure 8-50
Linkages between the Hydrologic and Water Quality Models



K:\Projects\1\DW\00728_11_BDC\Map\doc\Public_Draft\Ch08\Fig_08_51_Water_Quality_Assessments_20130930.mxd Date: 9/30/2013 Time: 11:27:53 AM 25110

Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012;

Figure 8-51
Surface Water Quality Assessment Locations in the Delta



Period of record is 1979–2008. Error bars represent 95% confidence interval.

Figure 8-52
Monthly Ammonia Concentrations from the Three Major Delta Source Waters

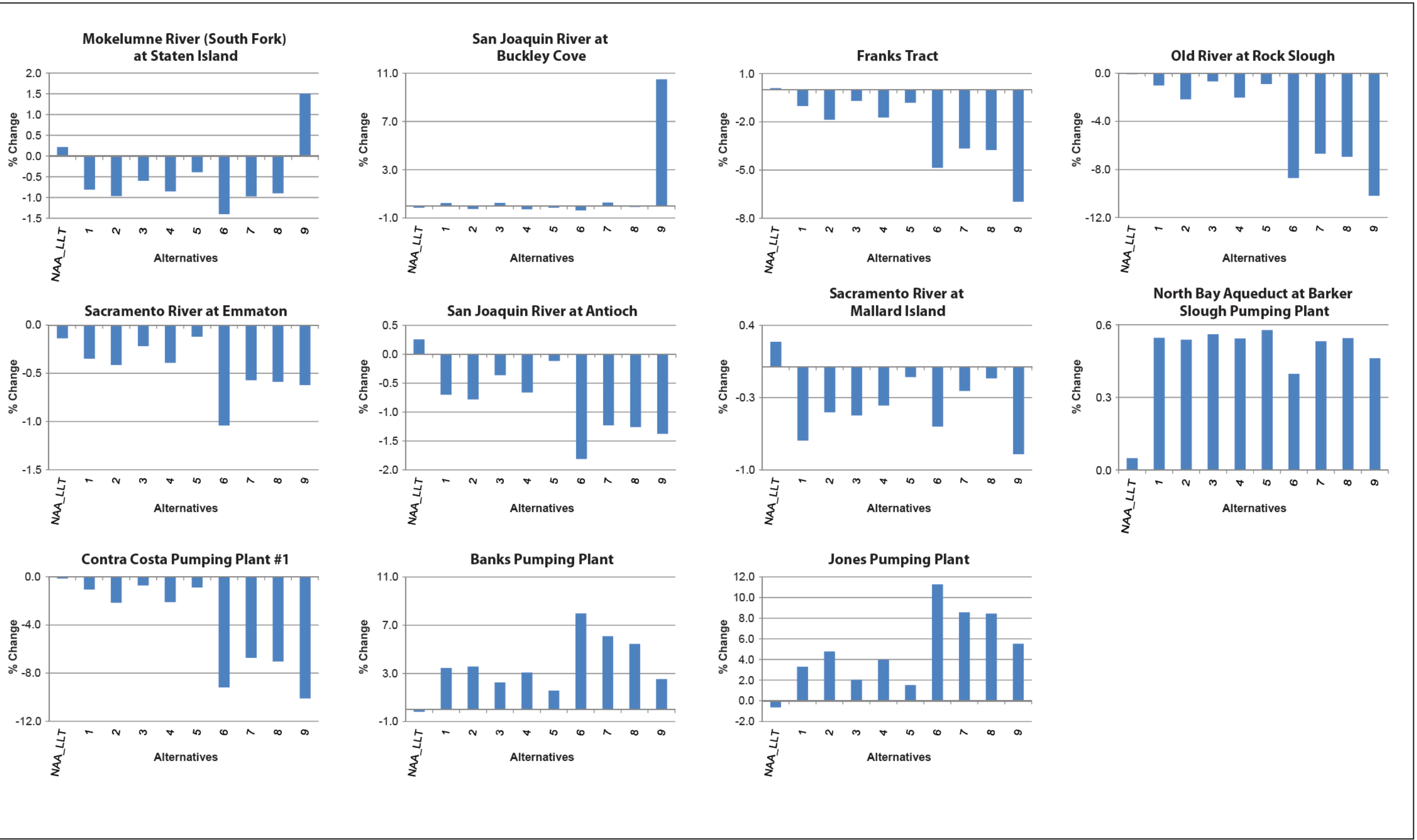
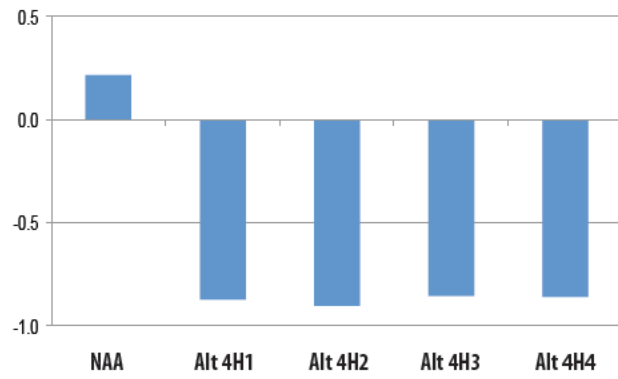
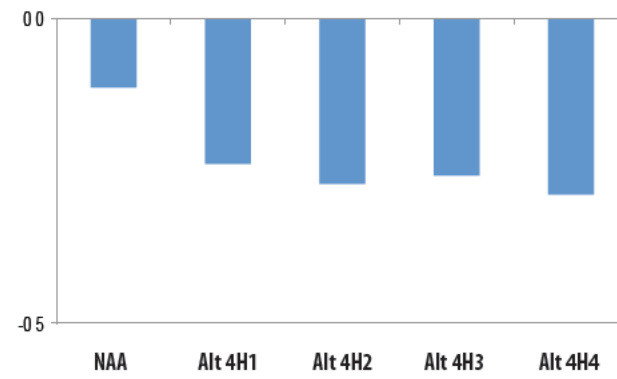


Figure 8-53a
Percent Change in Available Assimilative Capacity for Mercury
(Based on 25 ng/L Ecological Risk Benchmark) with Respect to Existing Conditions for All Years

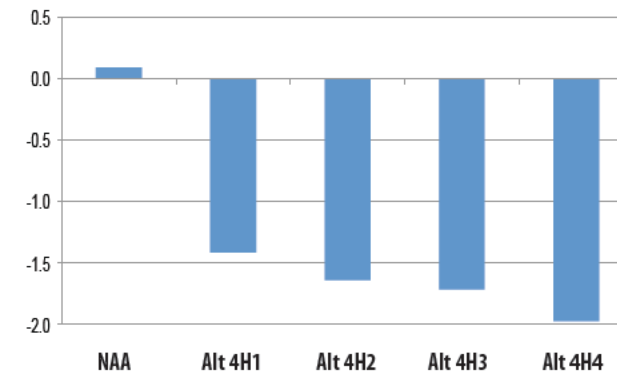
Mokelumne River (South Fork) at Staten Island



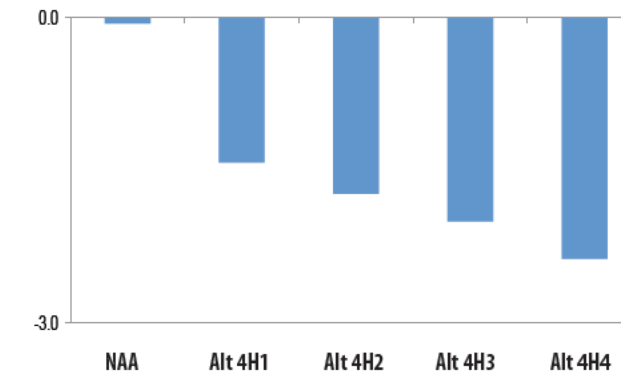
San Joaquin River at Buckley Cove



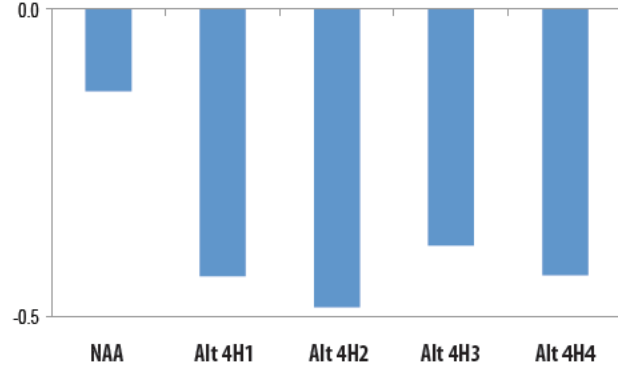
Franks Tract



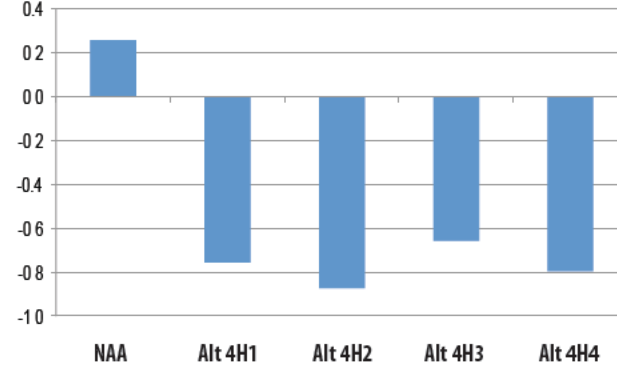
Old River at Rock Slough



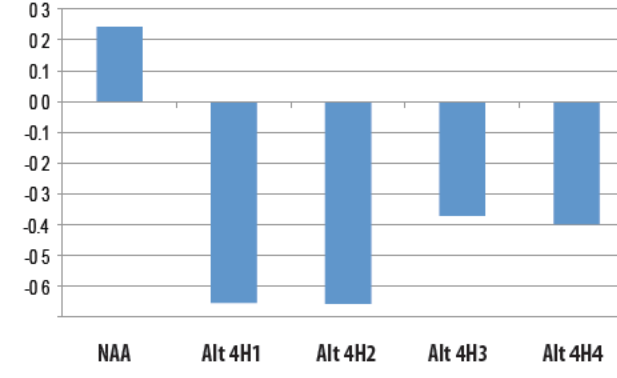
Sacramento River at Emmaton



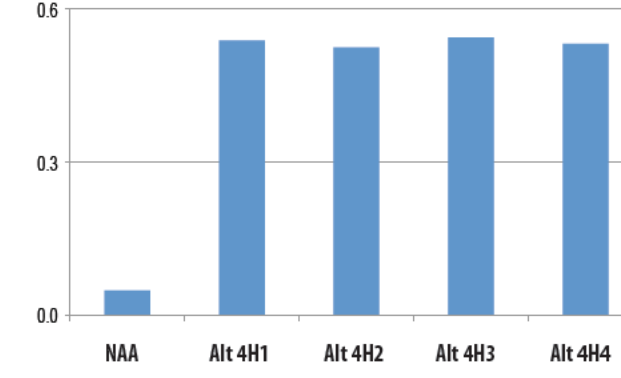
San Joaquin River at Antioch



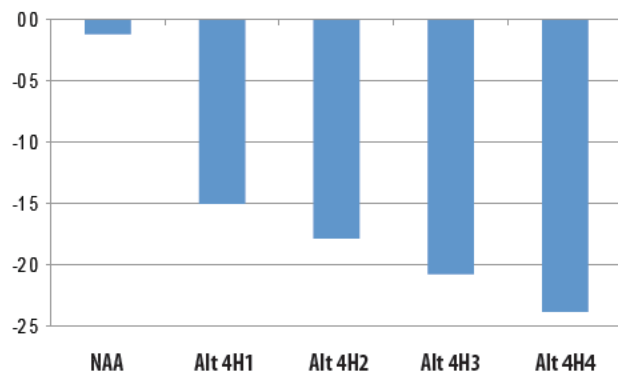
Sacramento River at Mallard Island



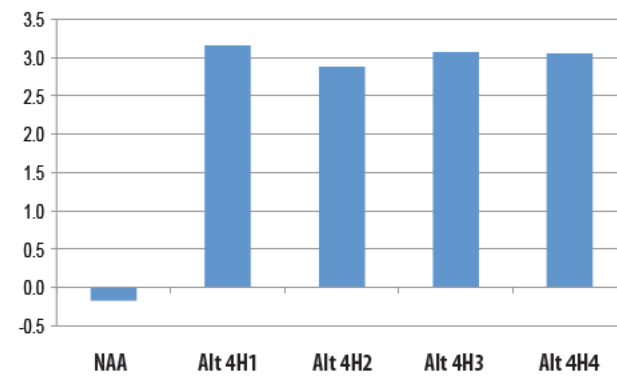
North Bay Aqueduct at Barker Slough Pumping Plant



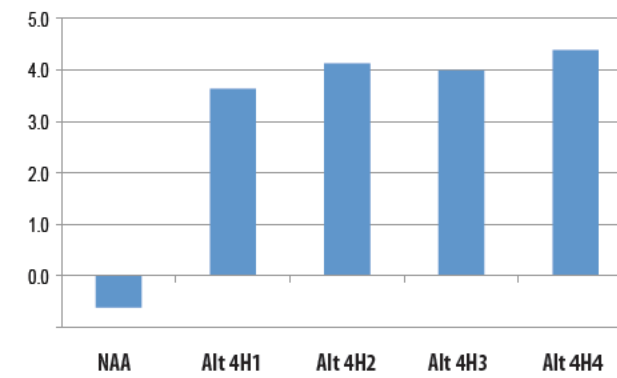
Contra Costa Pumping Plant #1



Banks Pumping Plant

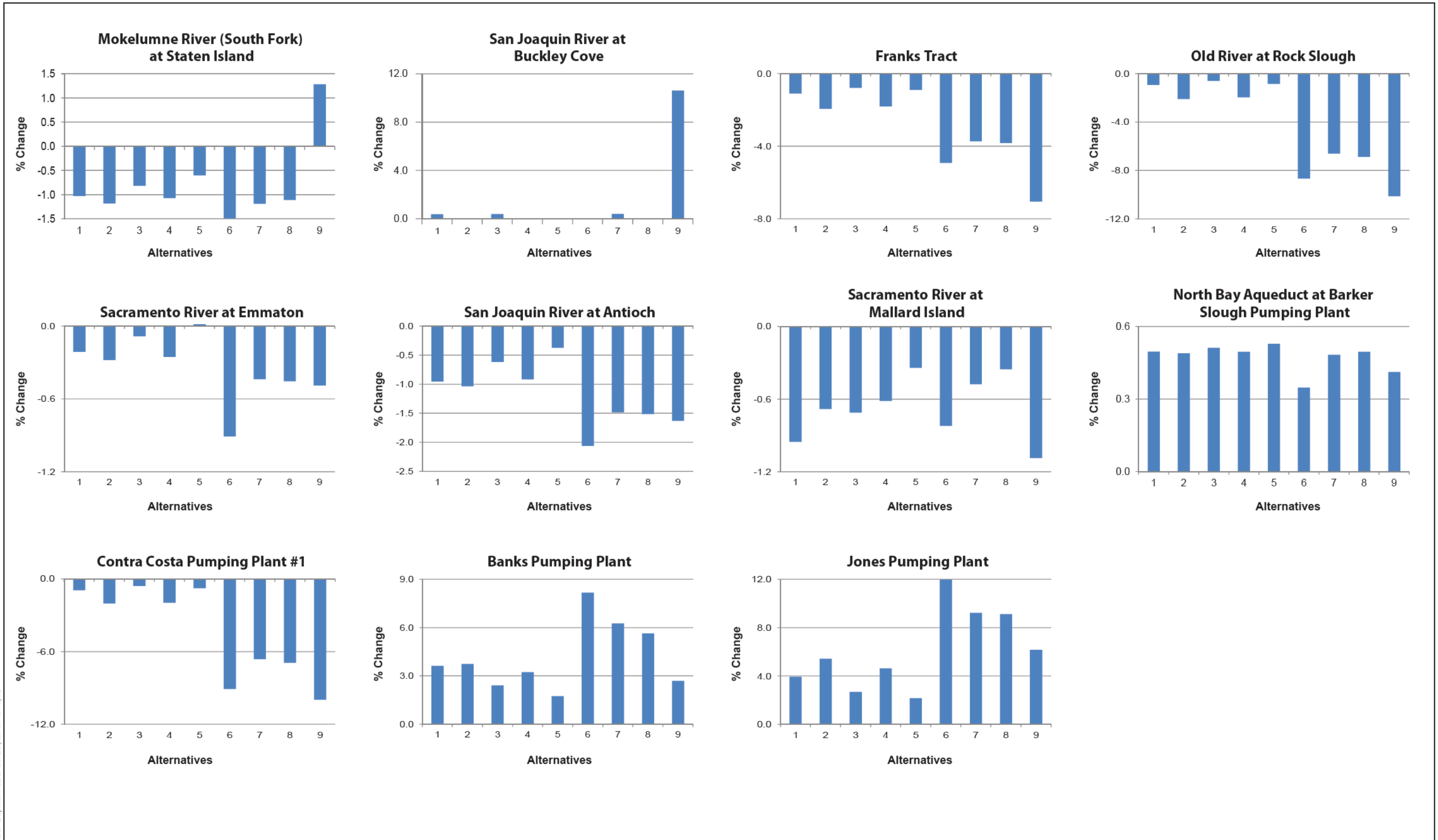


Jones Pumping Plant



EX Existing Conditions
 NAA-LLT No Action Alternative - Late Long Term

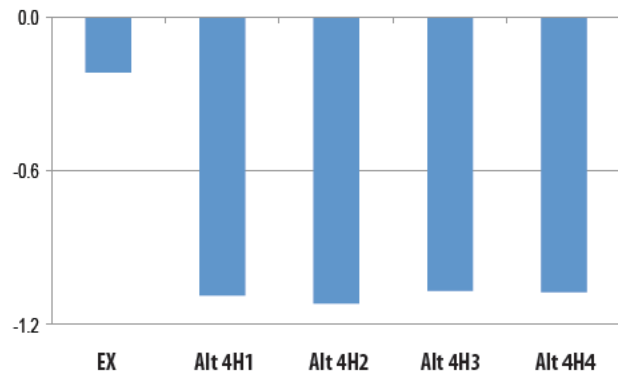
Figure 8-53b
Percent Change in Available Assimilative Capacity for Mercury
(Based on 25 ng/L Ecological Risk Benchmark) with Respect to Existing Conditions for All Years



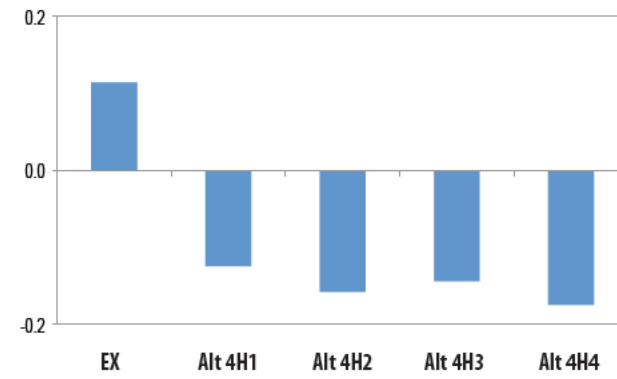
BDCP Graphics... BDCP EIR-EIS (Rev 07/16/13) AB

Figure 8-54a
Percent Change in Available Assimilative Capacity for Mercury (Based on 25ng/L Ecological Risk Benchmark) with Respect to No Action Alternative for All Years

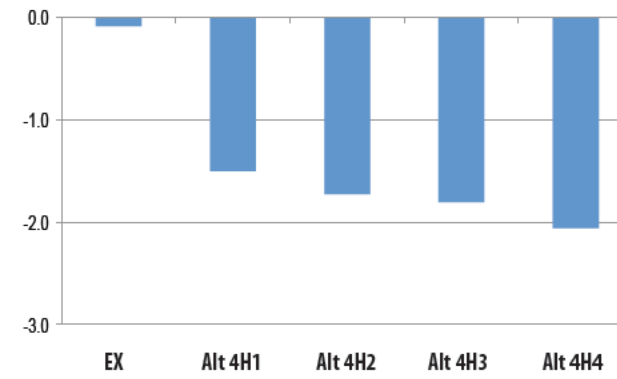
Mokelumne River (South Fork) at Staten Island



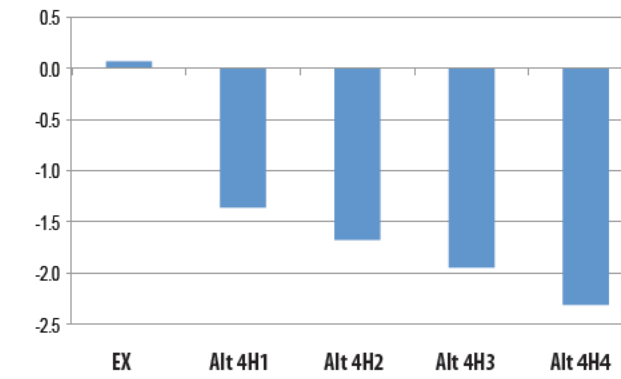
San Joaquin River at Buckley Cove



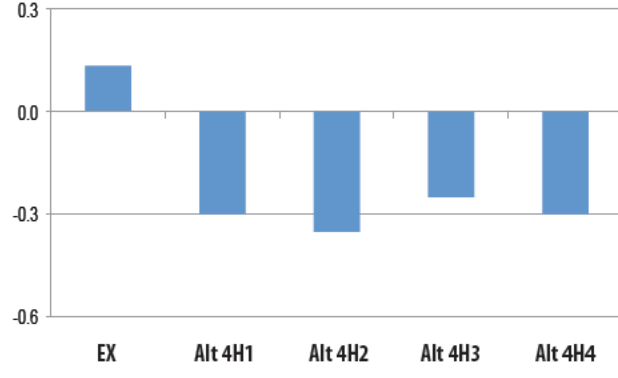
Franks Tract



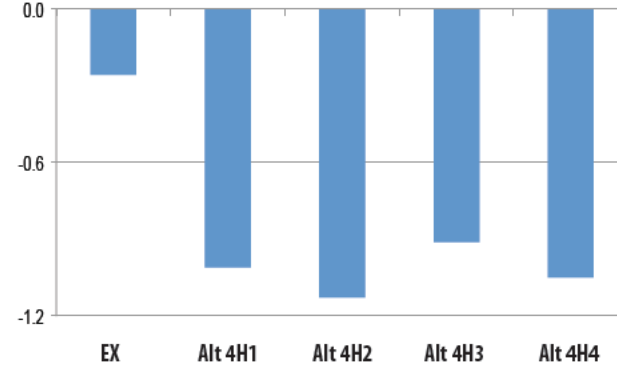
Old River at Rock Slough



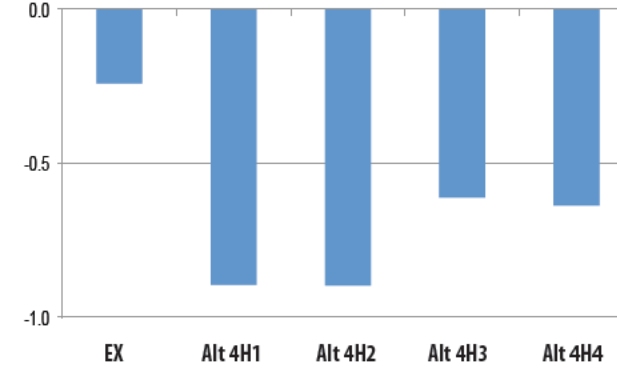
Sacramento River at Emmaton



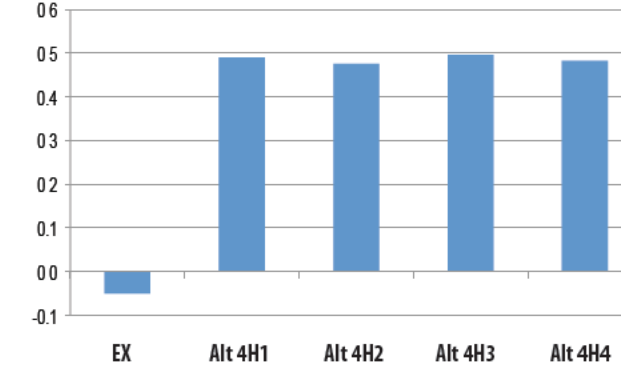
San Joaquin River at Antioch



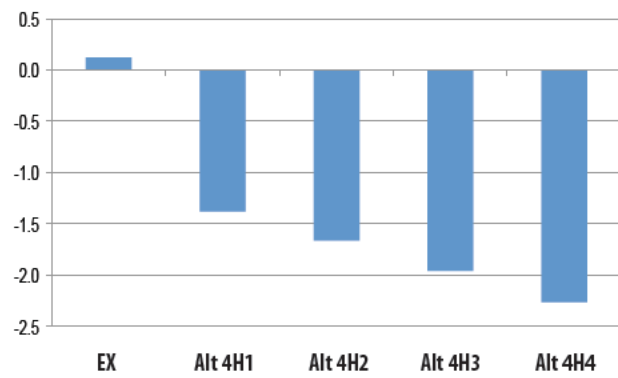
Sacramento River at Mallard Island



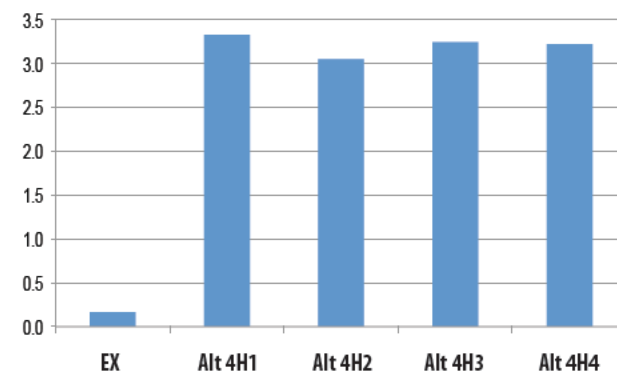
North Bay Aqueduct at Barker Slough Pumping Plant



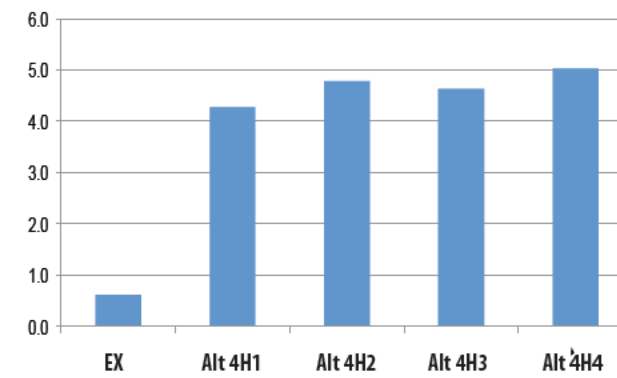
Contra Costa Pumping Plant #1



Banks Pumping Plant



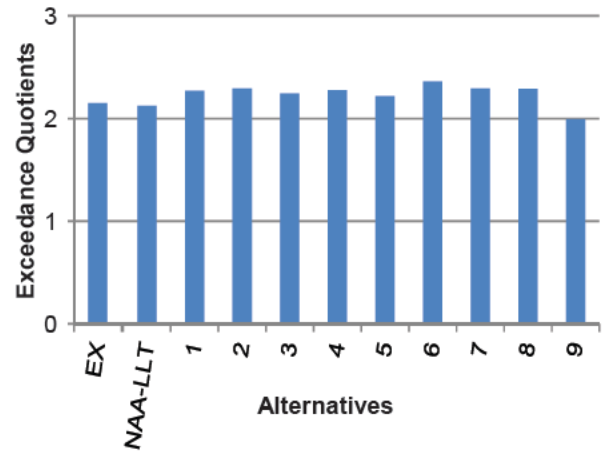
Jones Pumping Plant



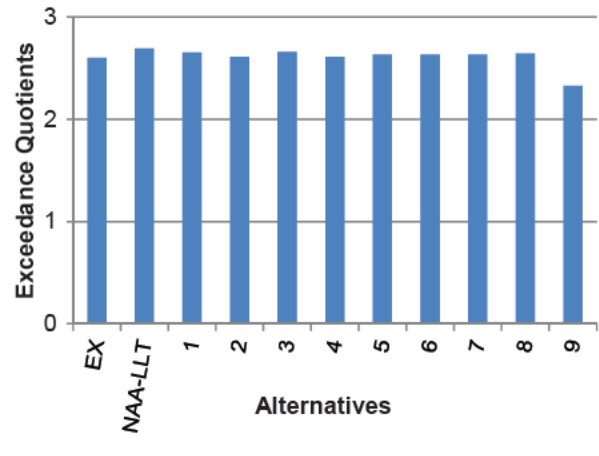
EX Existing Conditions

Figure 8-54b
Percent Change in Available Assimilative Capacity for Mercury (Based on 25ng/L Ecological Risk Benchmark) with Respect to No Action Alternative for All Years

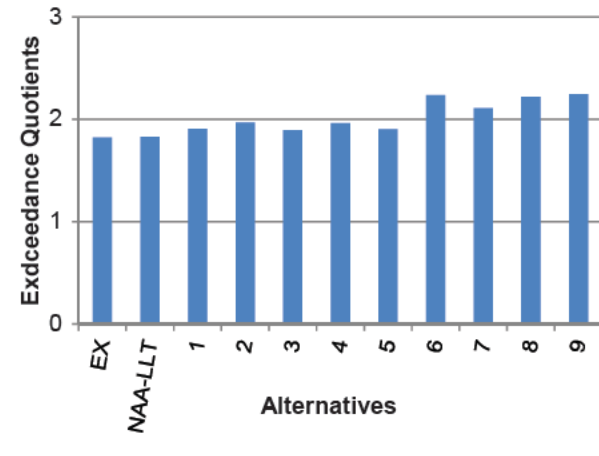
Mokelumne River (South Fork) at Staten Island



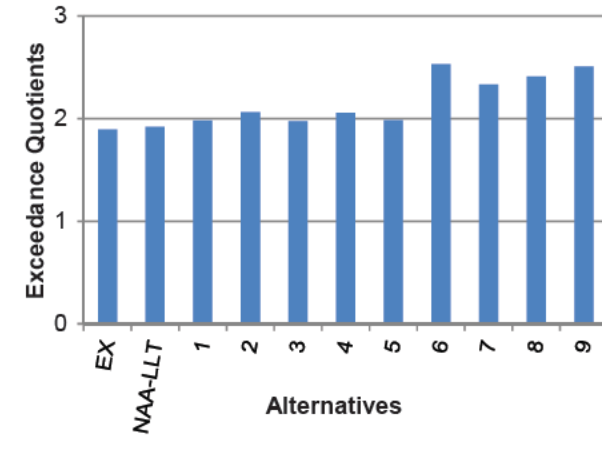
San Joaquin River at Buckley Cove



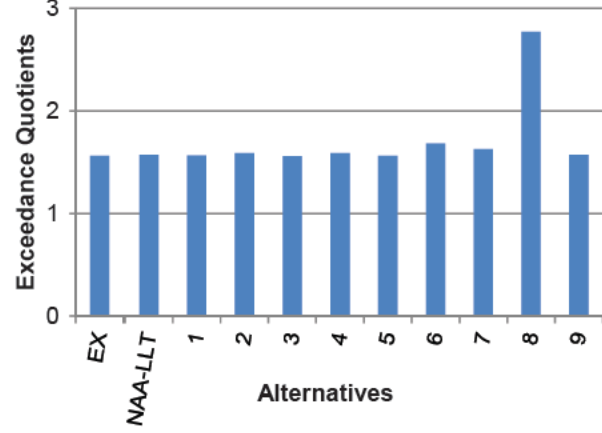
Franks Tract



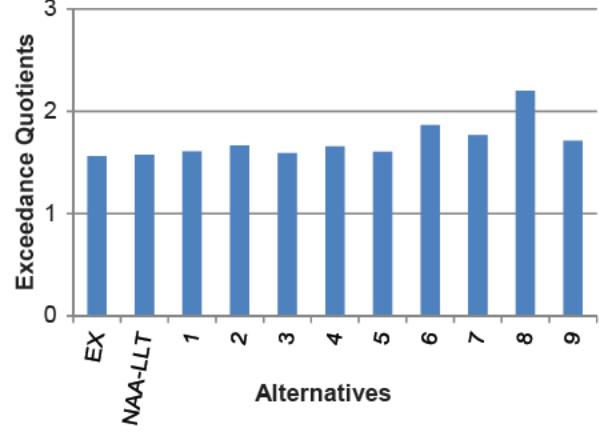
Old River at Rock Slough



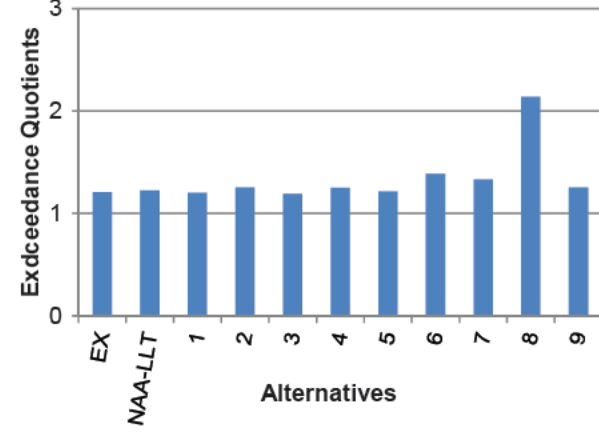
Sacramento River at Emmaton



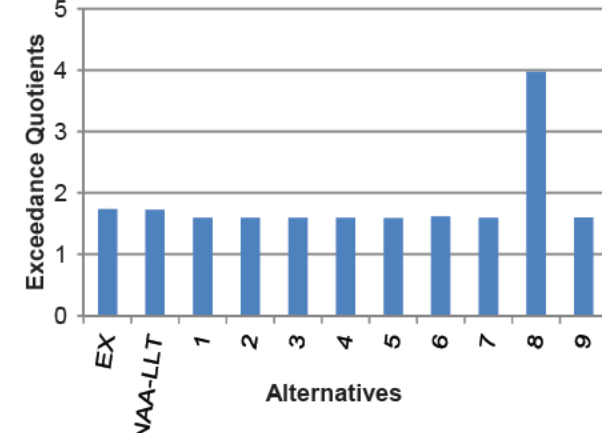
San Joaquin River at Antioch



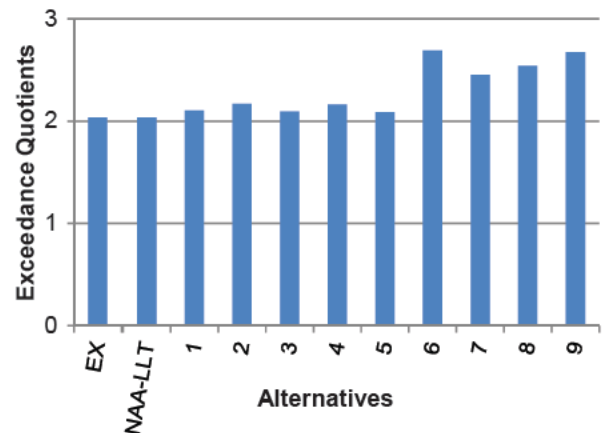
Sacramento River at Mallard Island



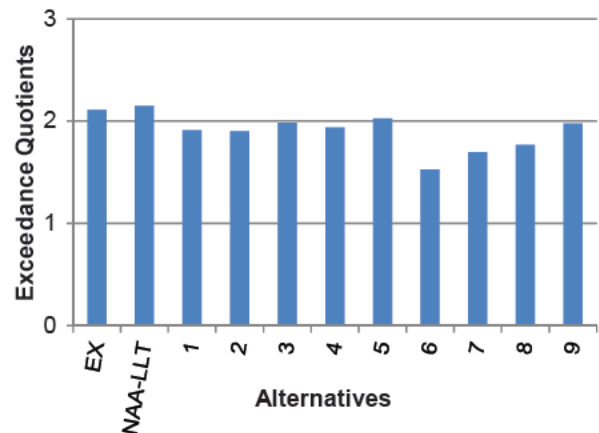
North Bay Aqueduct at Barker Slough Pumping Plant



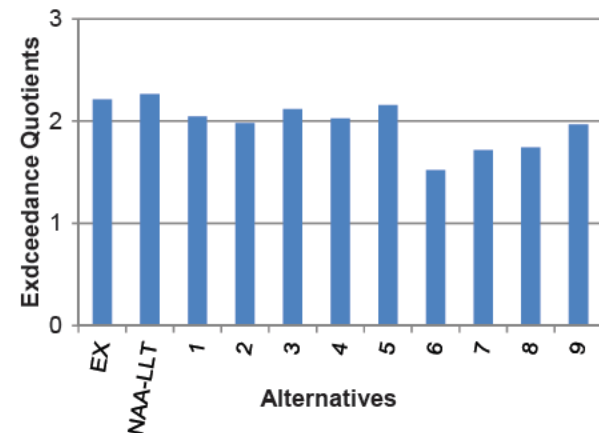
Contra Costa Pumping Plant #1



Banks Pumping Plant

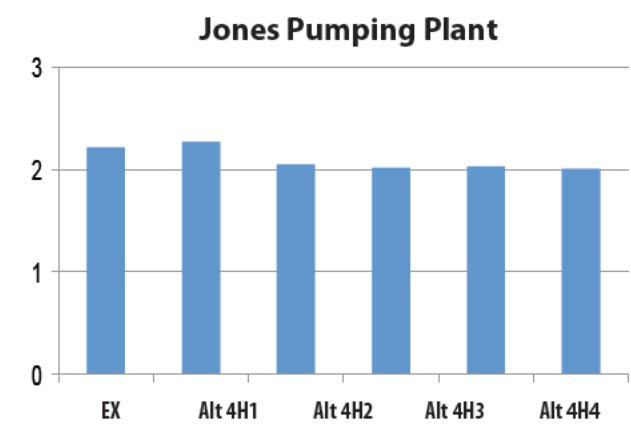
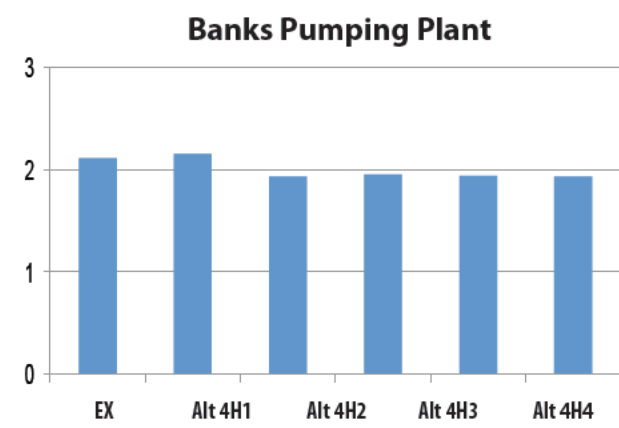
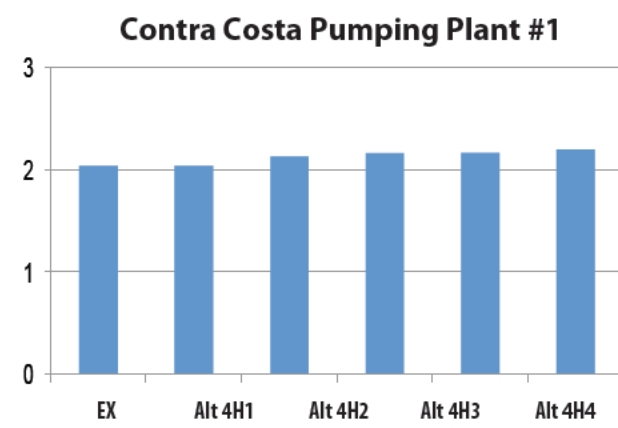
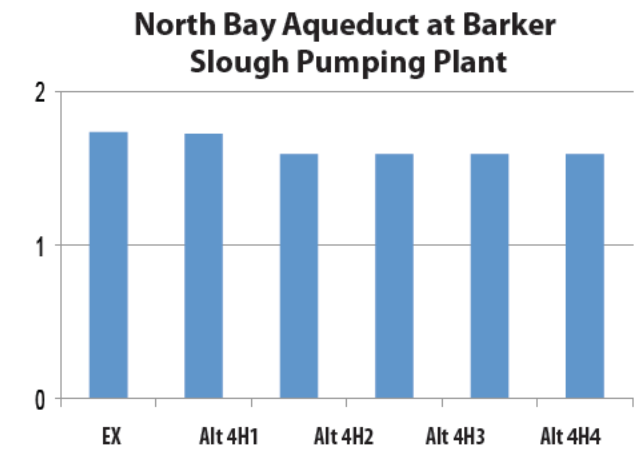
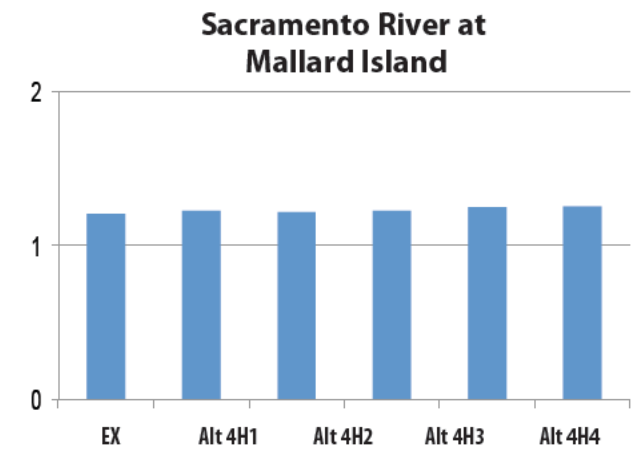
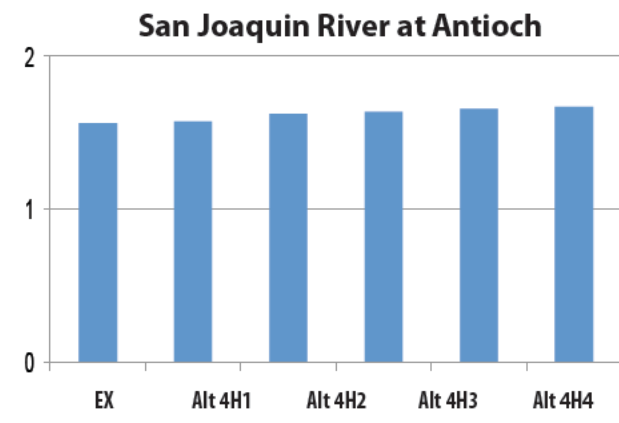
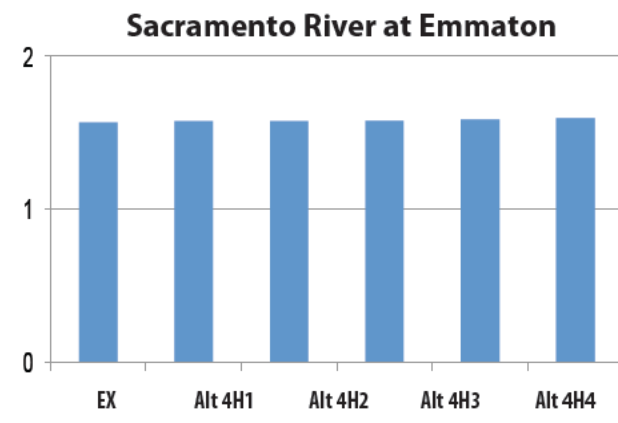
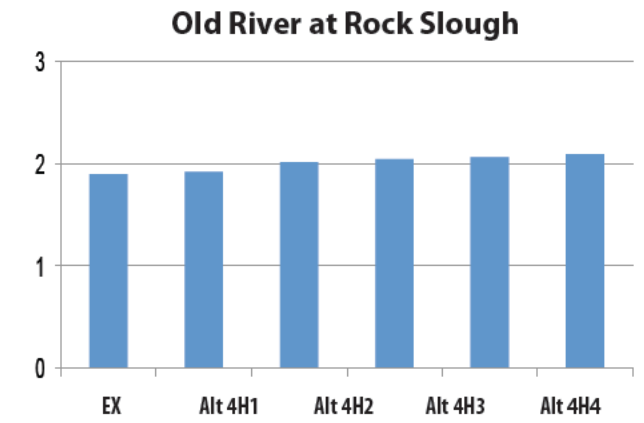
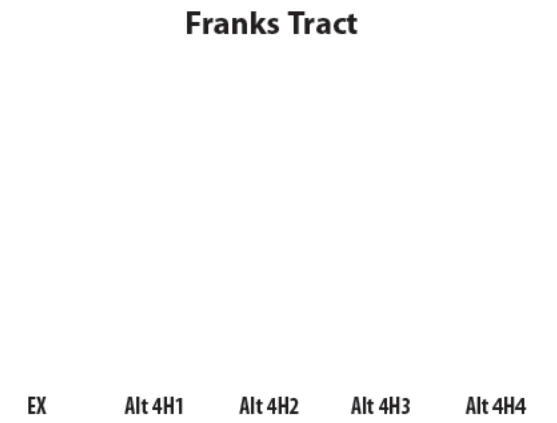
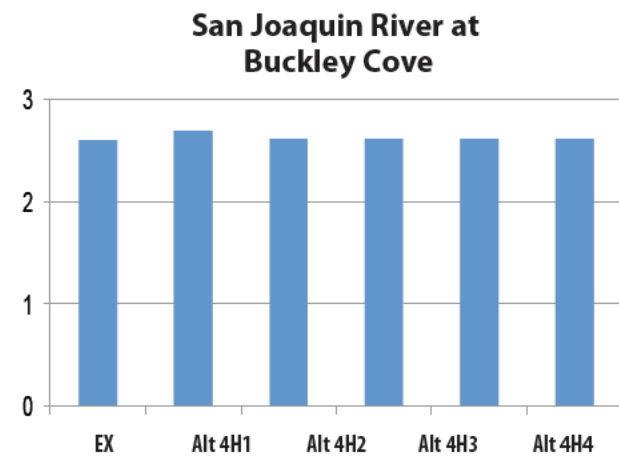
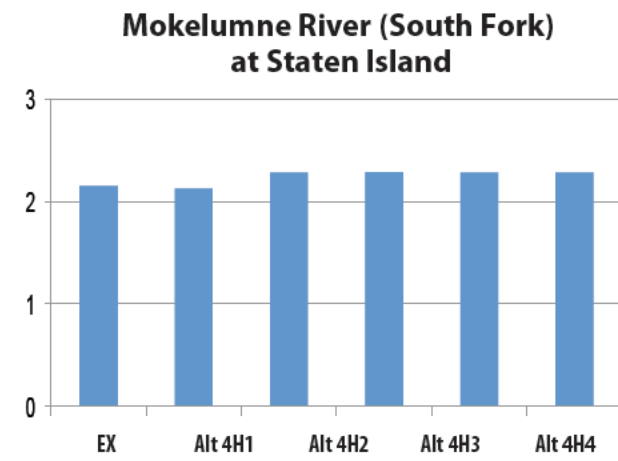


Jones Pumping Plant



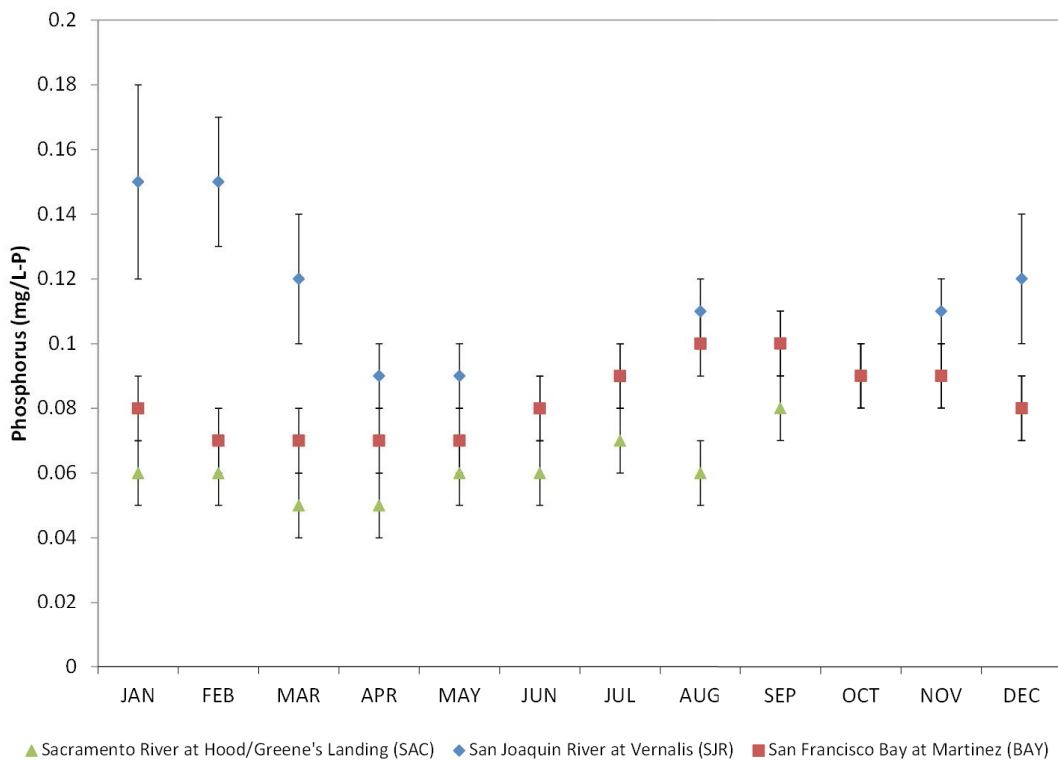
EX Existing Conditions
 NAA-LLT No Action Alternative - Late Long Term

Figure 8-55a
Level of Concern Exceedance Quotients for Methyl Mercury Concentrations
in 350 mm Largemouth Bass Fillets for All Years



EX Existing Conditions
 NAA-LLT No Action Alternative - Late Long Term

Figure 8-55b
Level of Concern Exceedance Quotients for Methyl Mercury Concentrations
in 350 mm Largemouth Bass Fillets for All Years



Period of record is 1975–2009. Error bars represent 95% confidence interval.

Figure 8-56
Monthly Dissolved Phosphorus Concentrations from the
Three Major Delta Source Waters

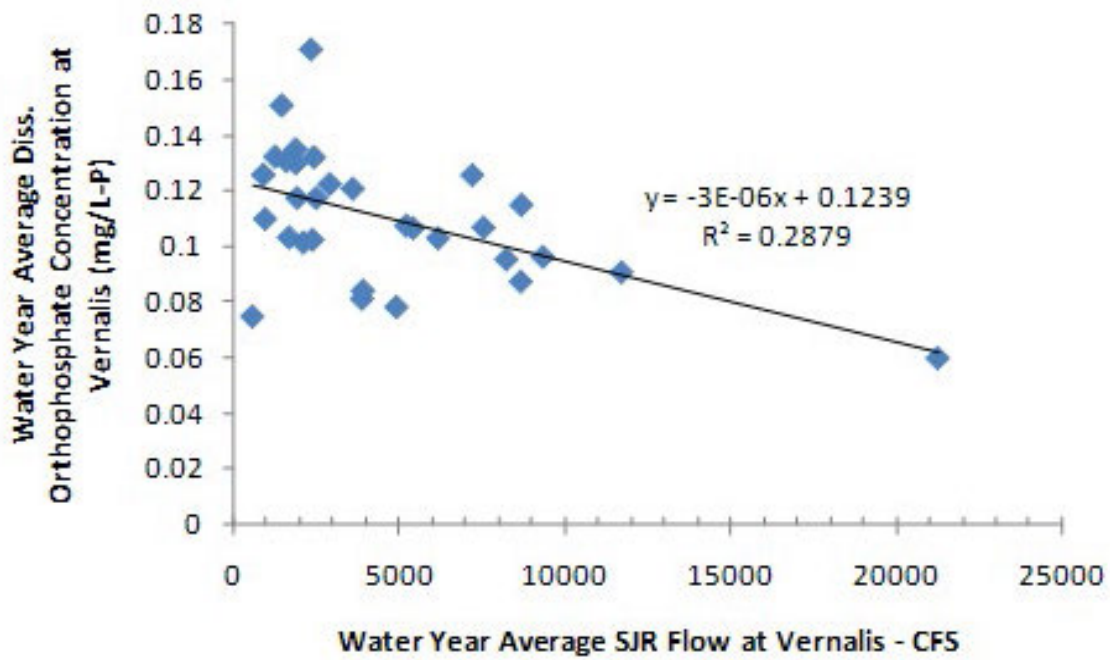
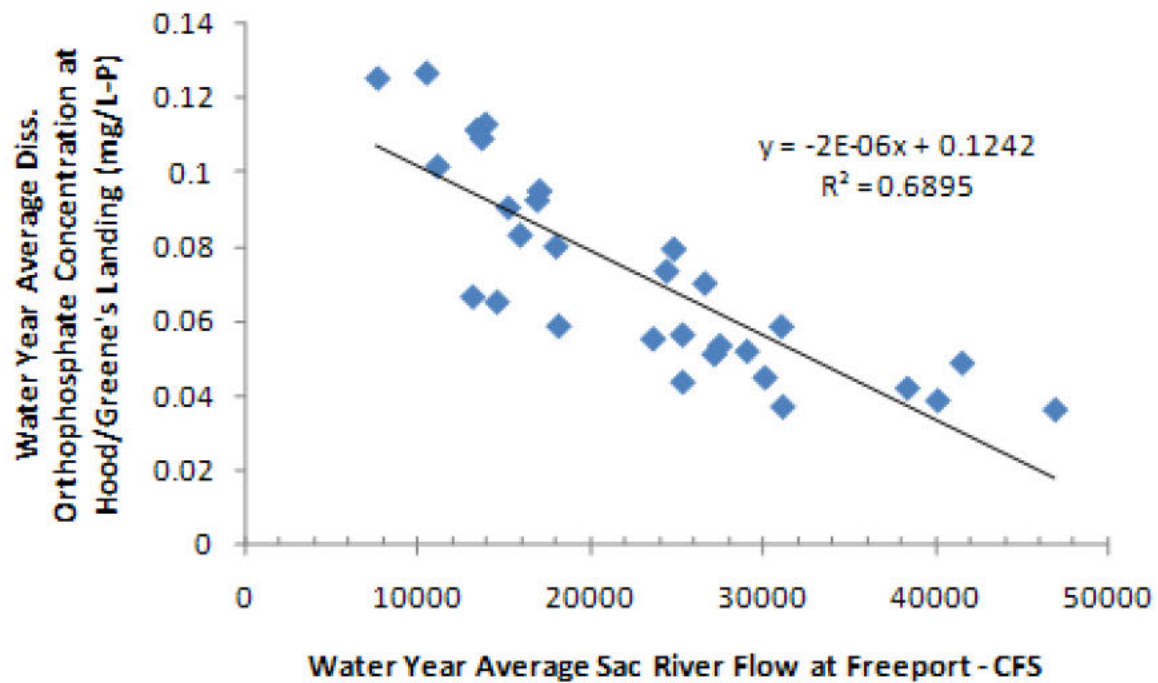


Figure 8-57
Linear Regression between Water Year Average Phosphorus-P Concentration and
Water Year Average Flow in the San Joaquin River at Vernalis (1975–2005)



BDCP Graphics/... BDCP BR-ES/(HDR Aug. 2010) Rev 07/16/2013 AB

Figure 8-58
Linear Regression between Water Year Average Phosphorus-P Concentration at Sacramento River at Greene's Landing or Sacramento River at Hood and Water Year Average Flow in the Sacramento River at Freeport (1975–2004)

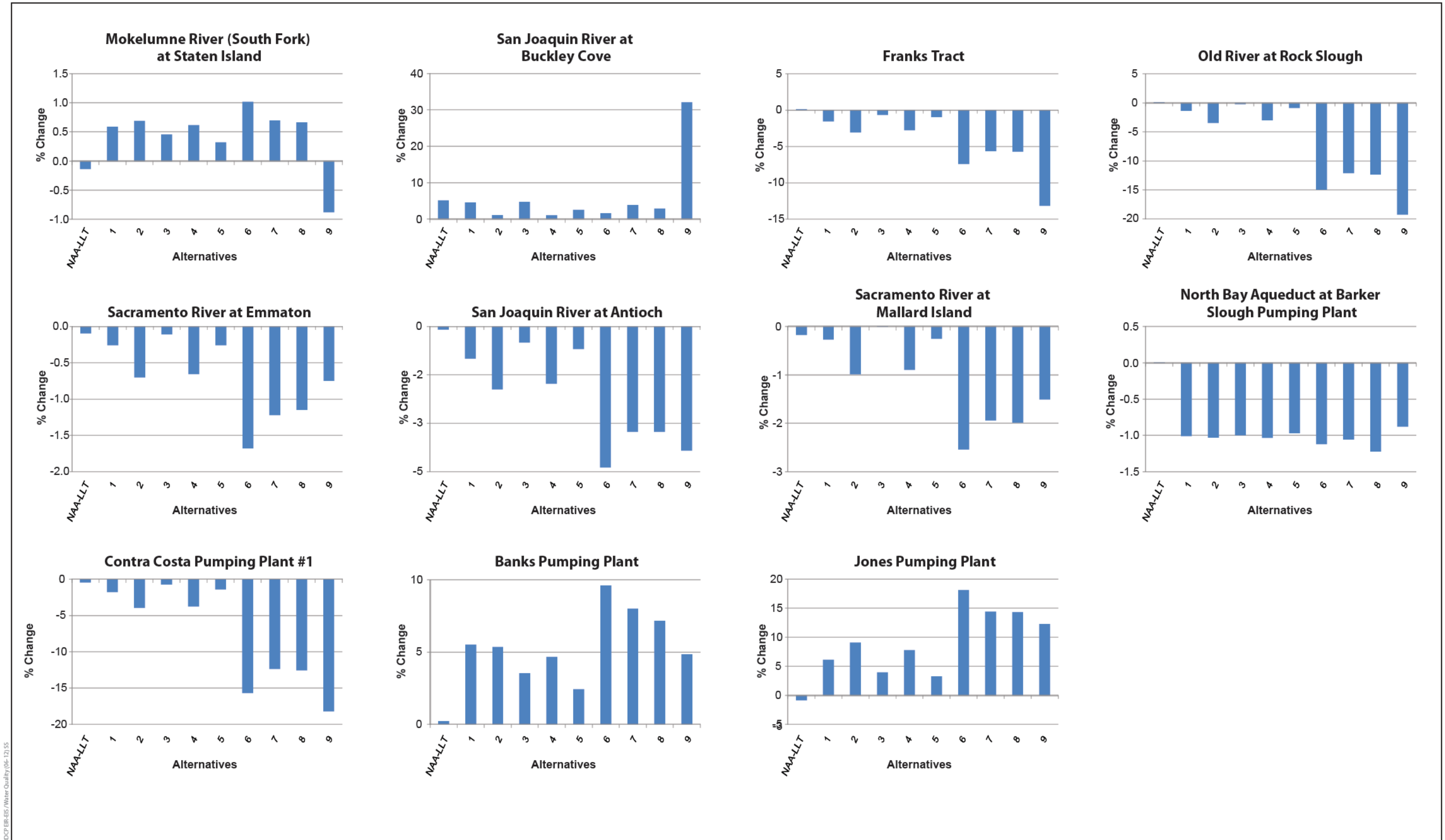


Figure 8-59a
Percent Change in Available Assimilative Capacity for Selenium (Based on 2 µg/L Ecological Risk Benchmark) with Respect to Existing Conditions for All Years

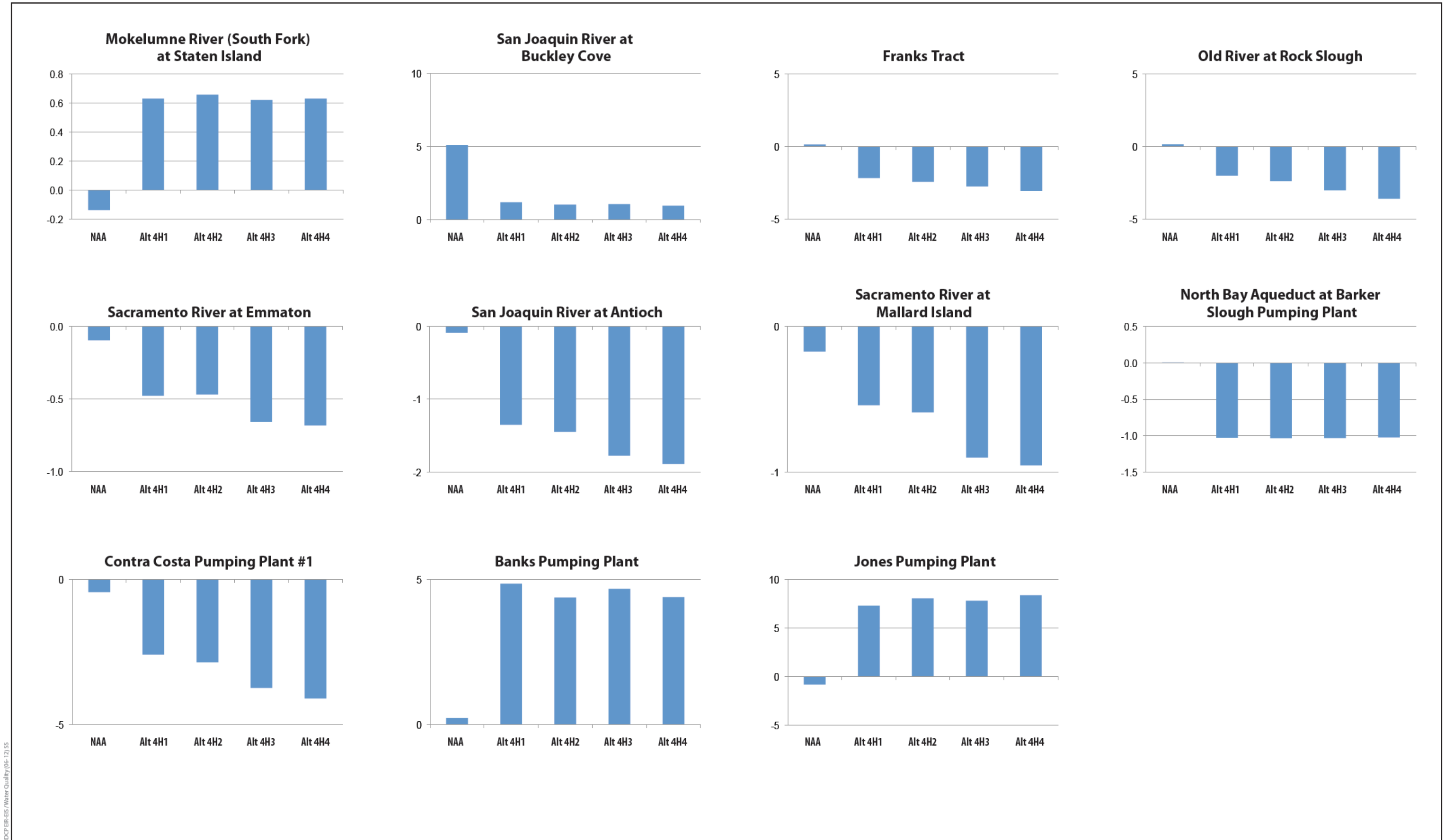


Figure 8-59b
Percent Change in Available Assimilative Capacity for Selenium (Based on 2 µg/L Ecological Risk Benchmark) with Respect to Existing Conditions for All Years

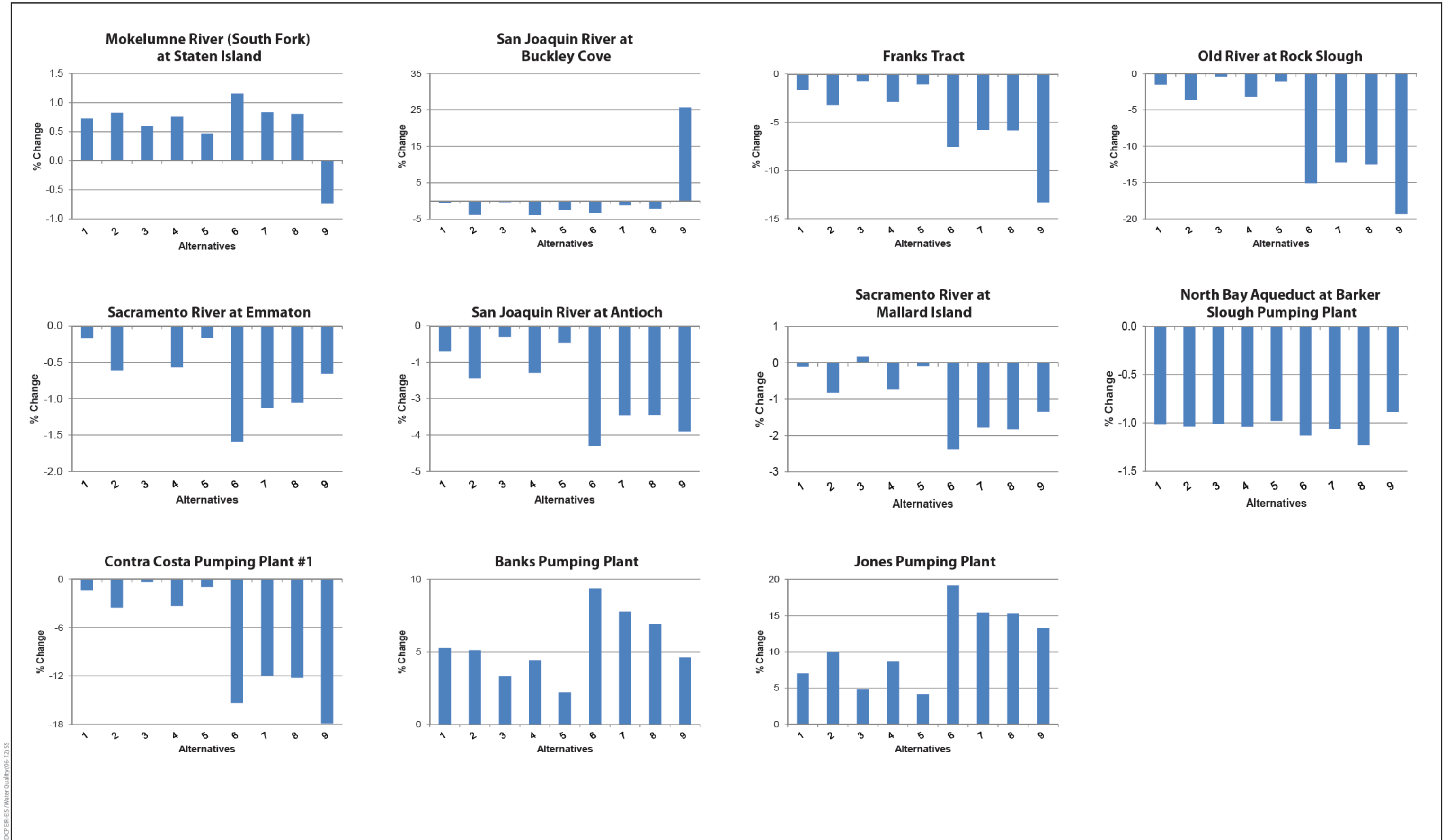


Figure 8-60a
Percent Change in Available Assimilative Capacity for Selenium (Based on 2 µg/L Ecological Risk Benchmark) with Respect to No Action Alternative for All Years

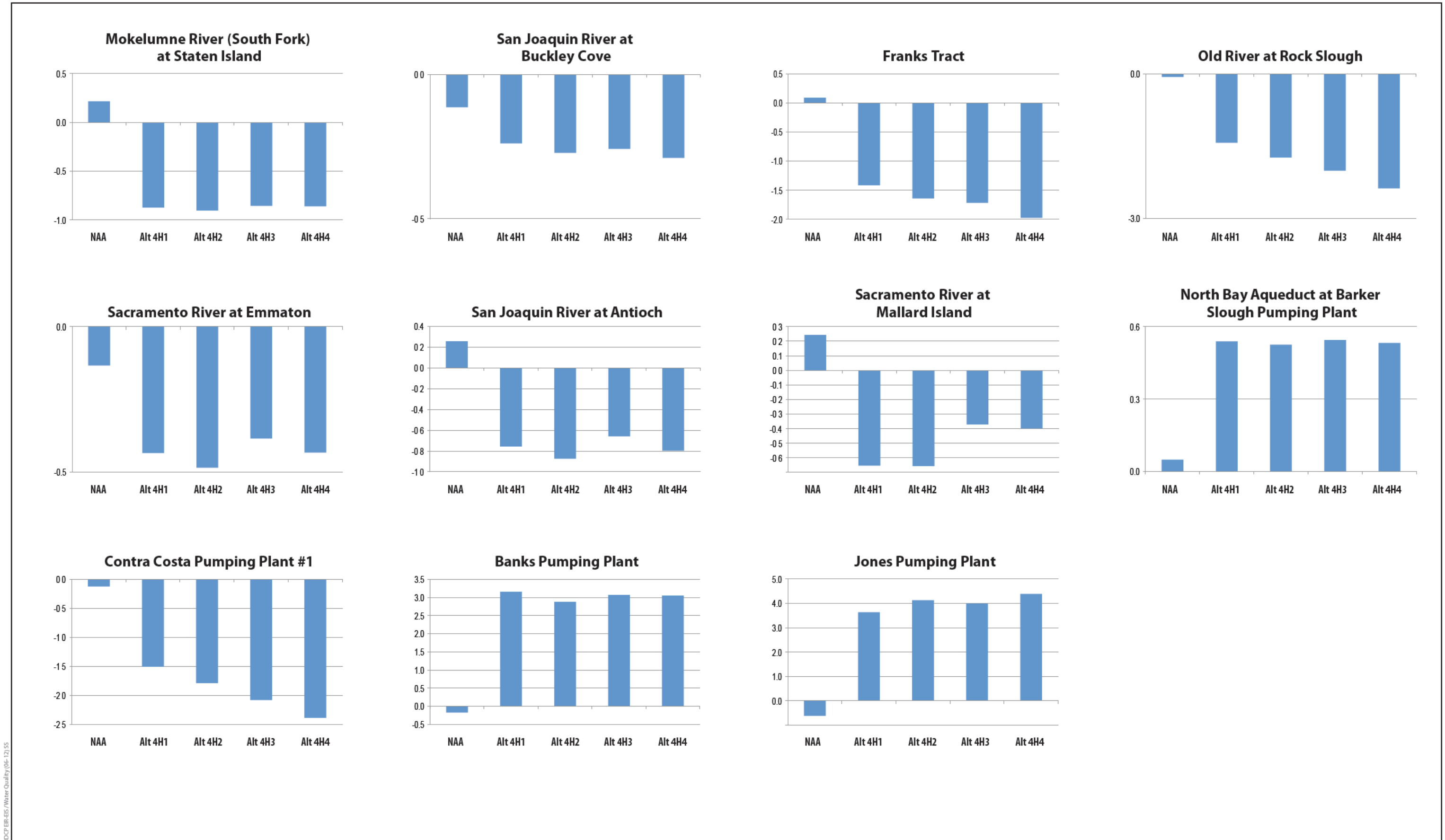


Figure 8-60b
Percent Change in Available Assimilative Capacity for Selenium (Based on 2 µg/L Ecological Risk Benchmark) with Respect to No Action Alternative for All Years

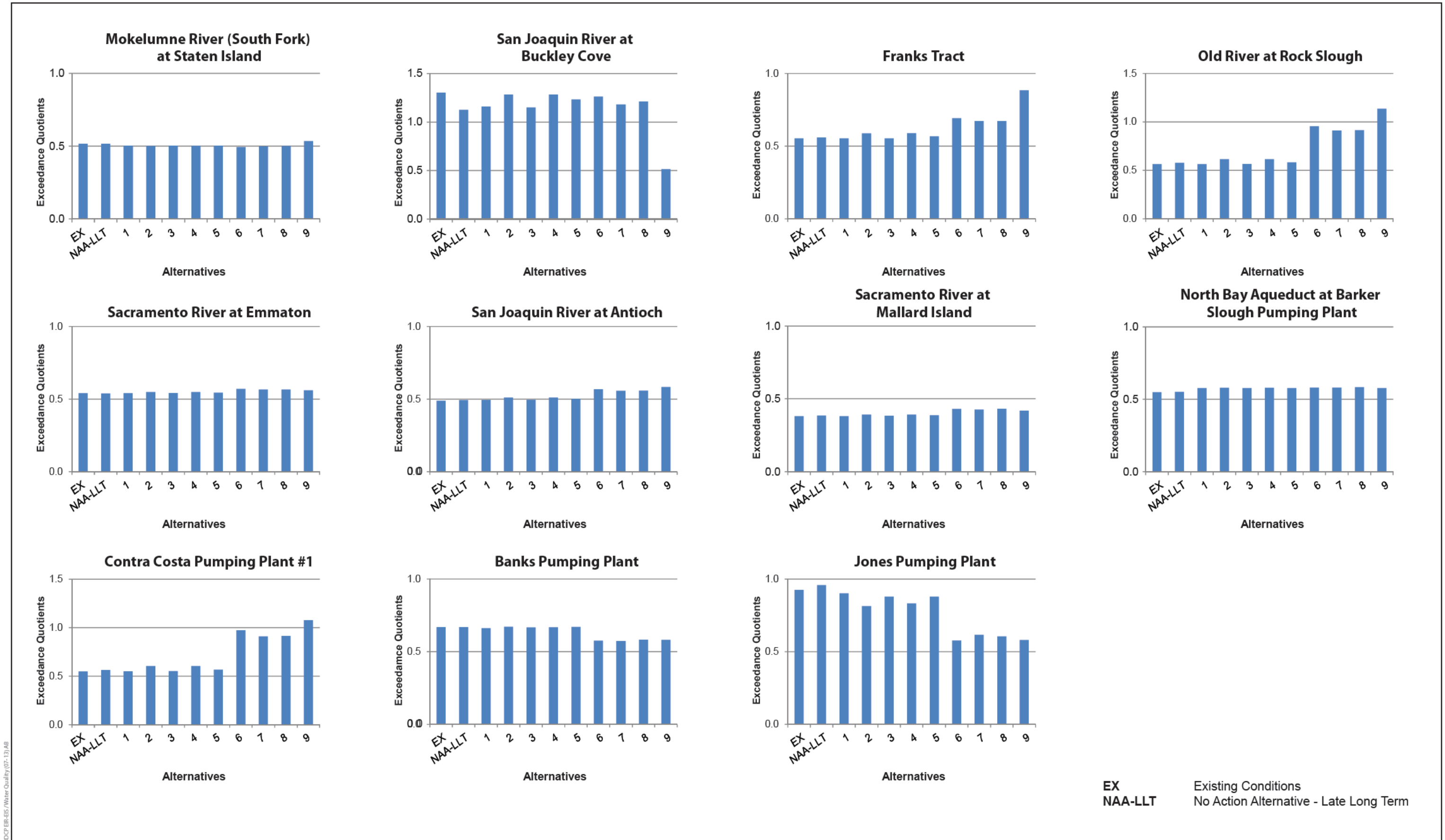
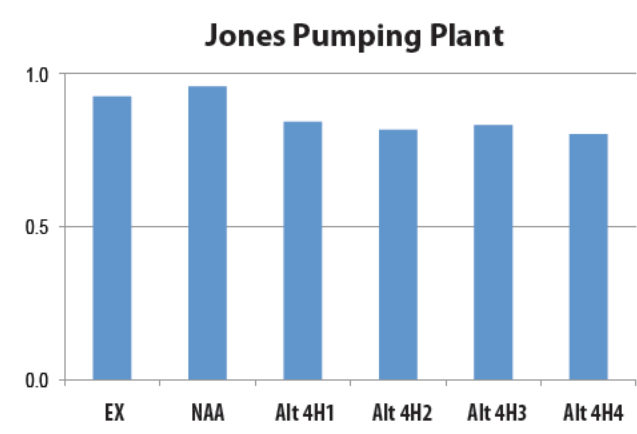
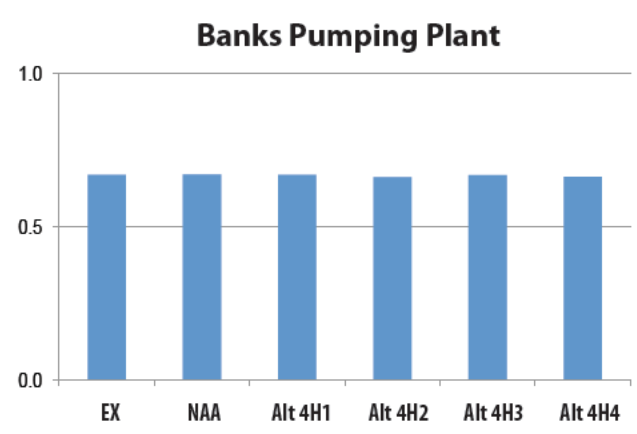
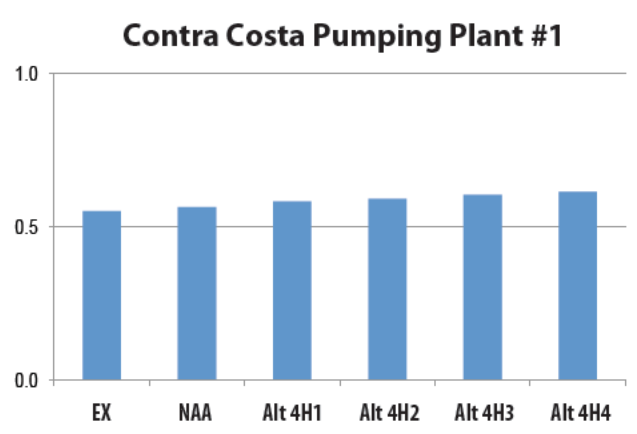
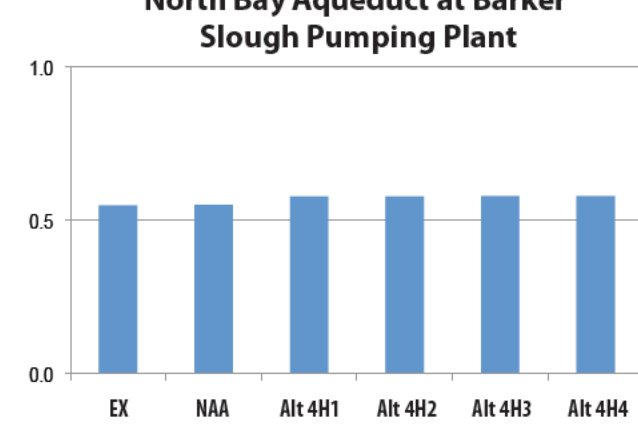
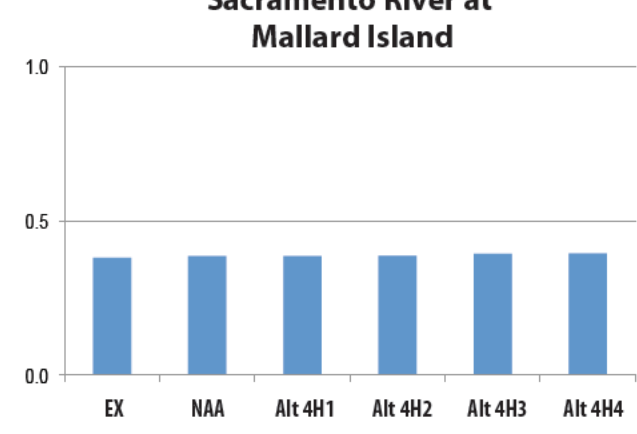
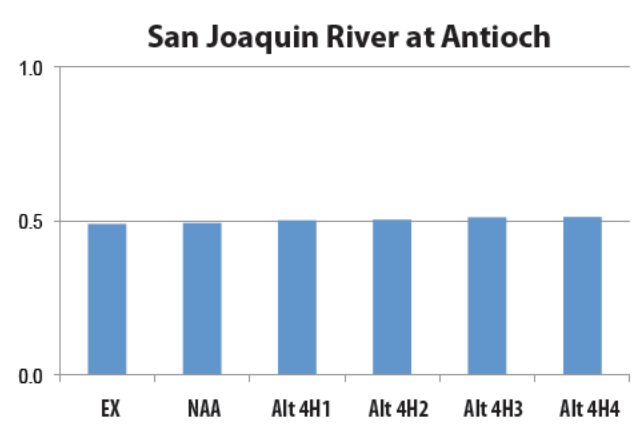
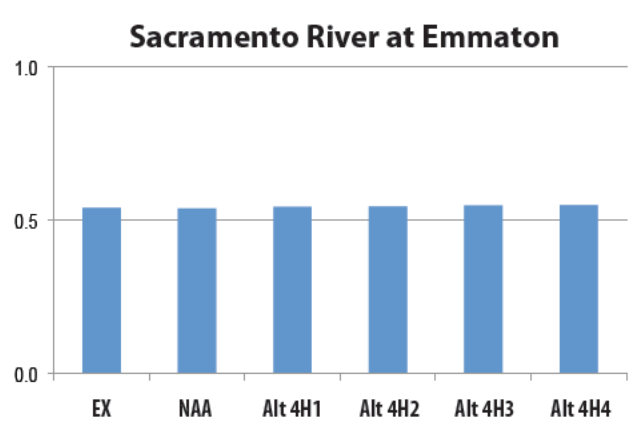
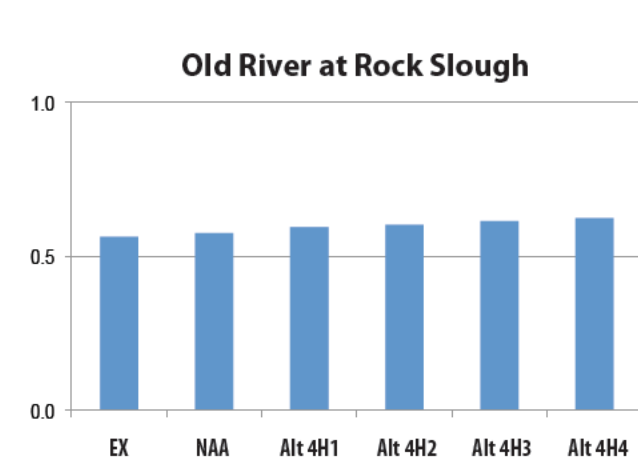
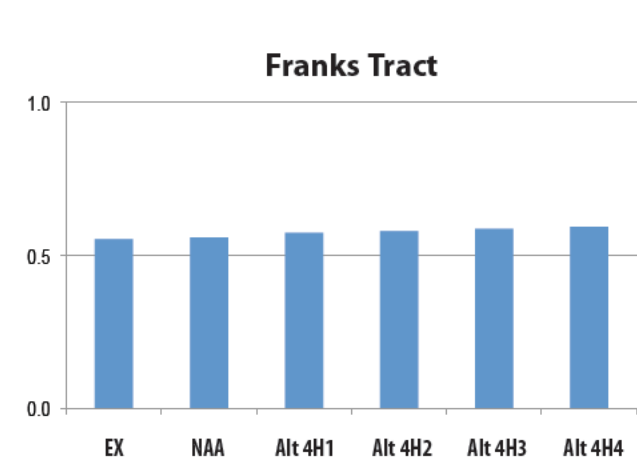
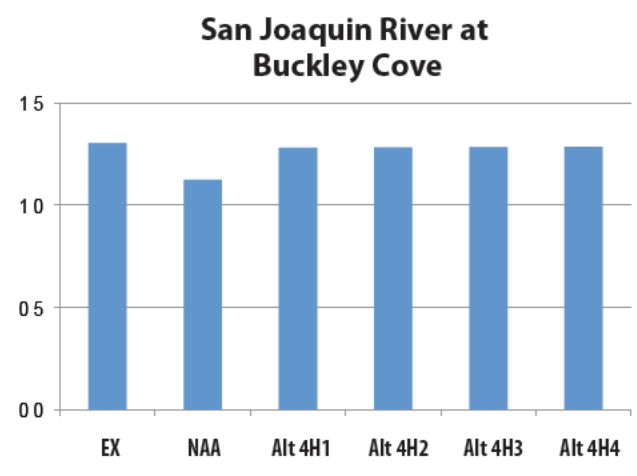
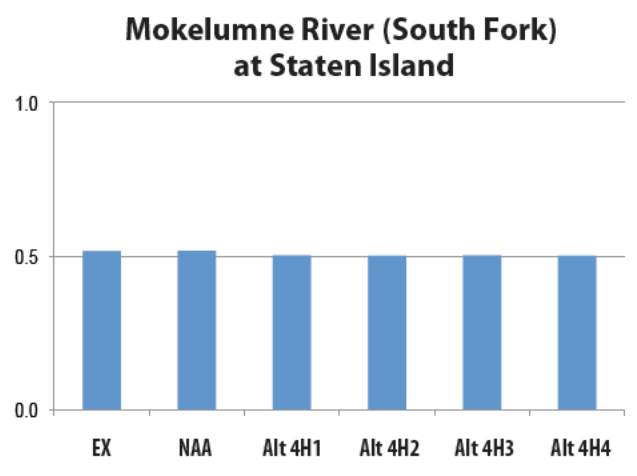


Figure 8-61a
Level of Concern Exceedance Quotients for Selenium Concentrations in Whole-Body Fish for Drought Years

BDCP ER-ES /Water Quality (07-13) AB



EX Existing Conditions
NAA-LLT No Action Alternative - Late Long Term

Figure 8-61b
Level of Concern Exceedance Quotients for Selenium Concentrations in Whole-Body Fish for Drought Years

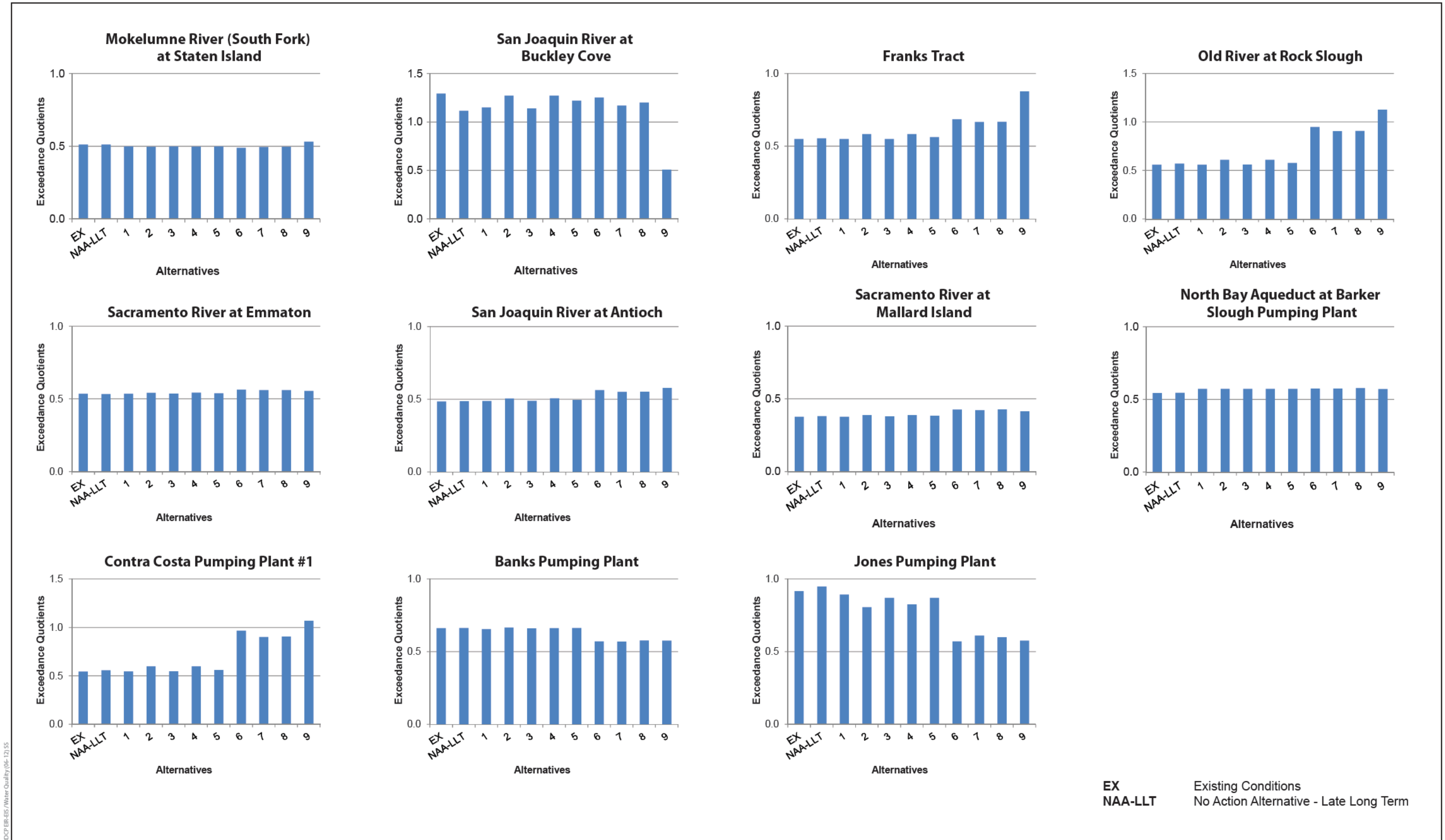


Figure 8-62a
Level of Concern Exceedance Quotients for Selenium Concentrations in Bird Eggs (Invertebrate Diet) for Drought Years

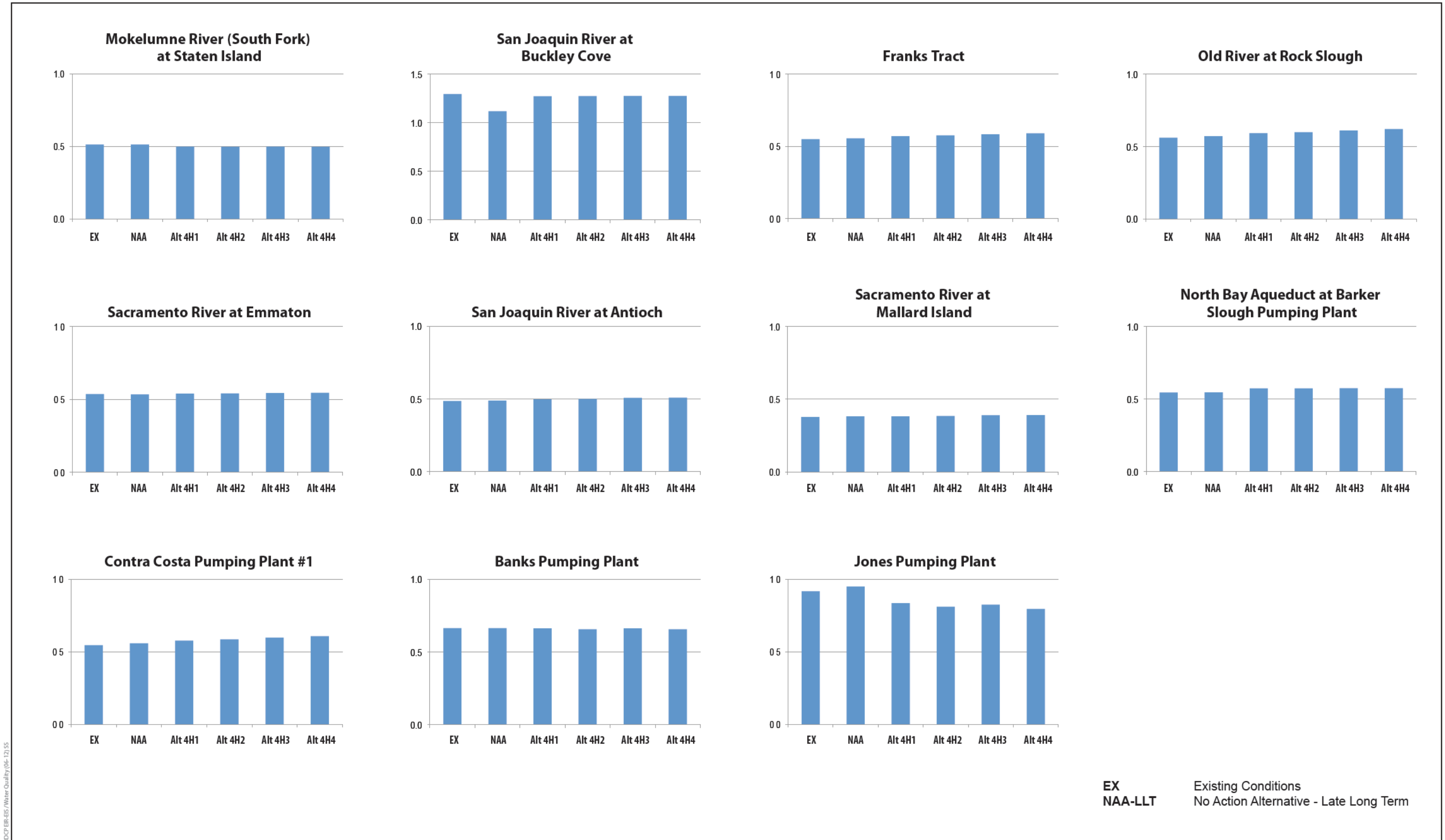
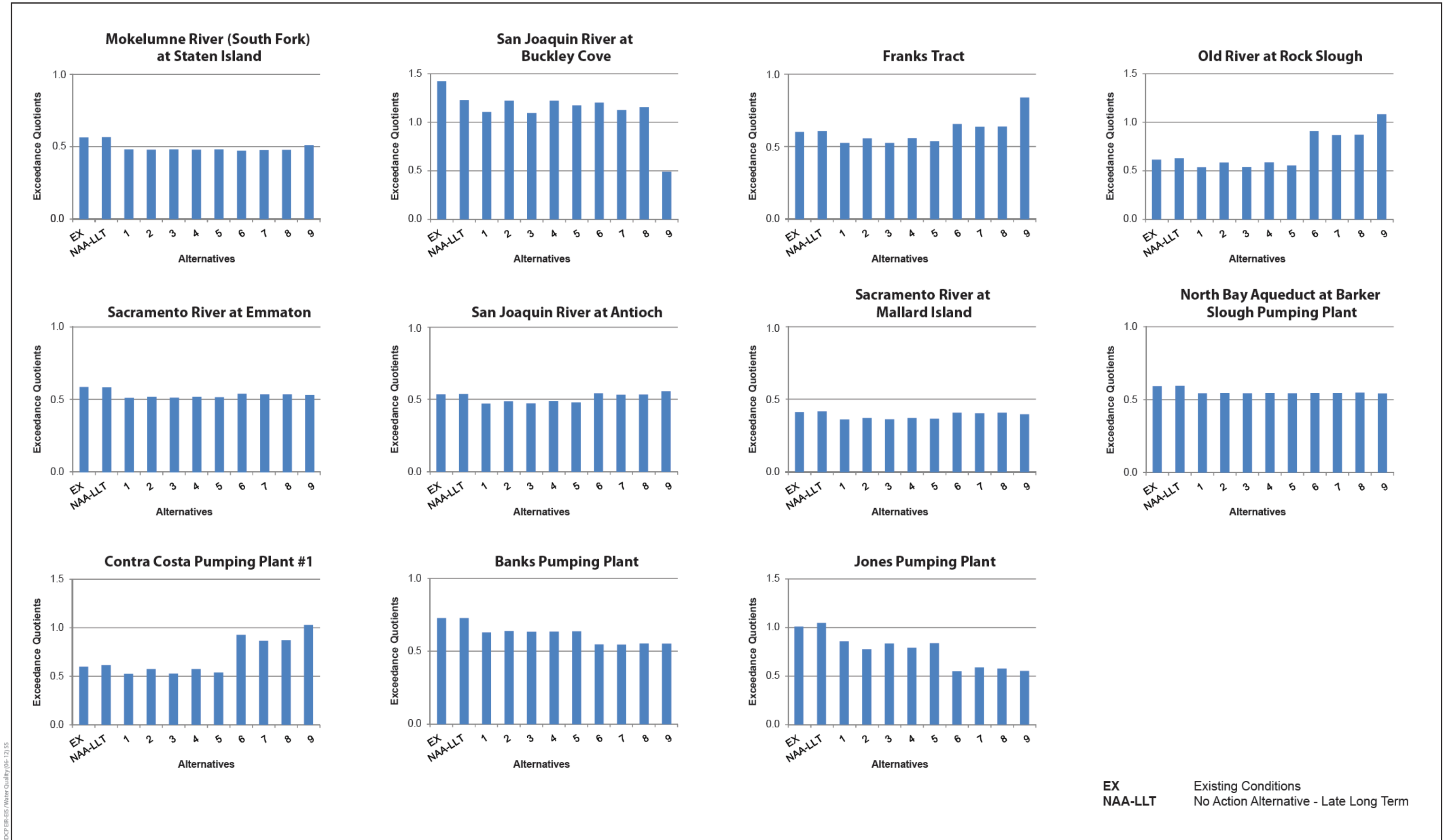


Figure 8-62b
Level of Concern Exceedance Quotients for Selenium Concentrations in Bird Eggs (Invertebrate Diet) for Drought Years

BDCP ER-ES / Water Quality (06-12) SS



BDCP ER-ES / Water Quality (06-12) SS

Figure 8-63a
Level of Concern Exceedance Quotients for Selenium Concentrations in Bird Eggs
(Fish Diet) for Drought Years

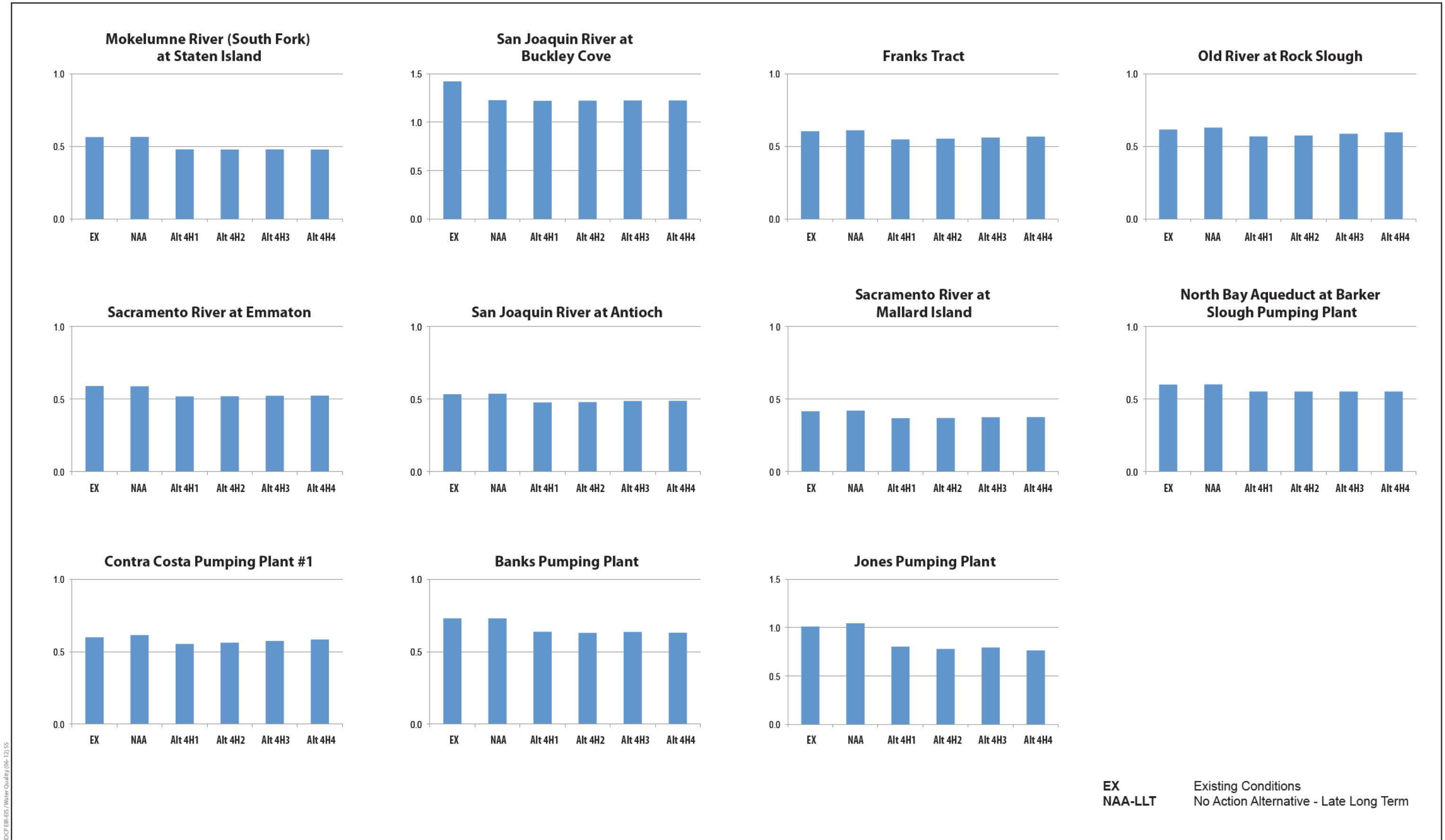
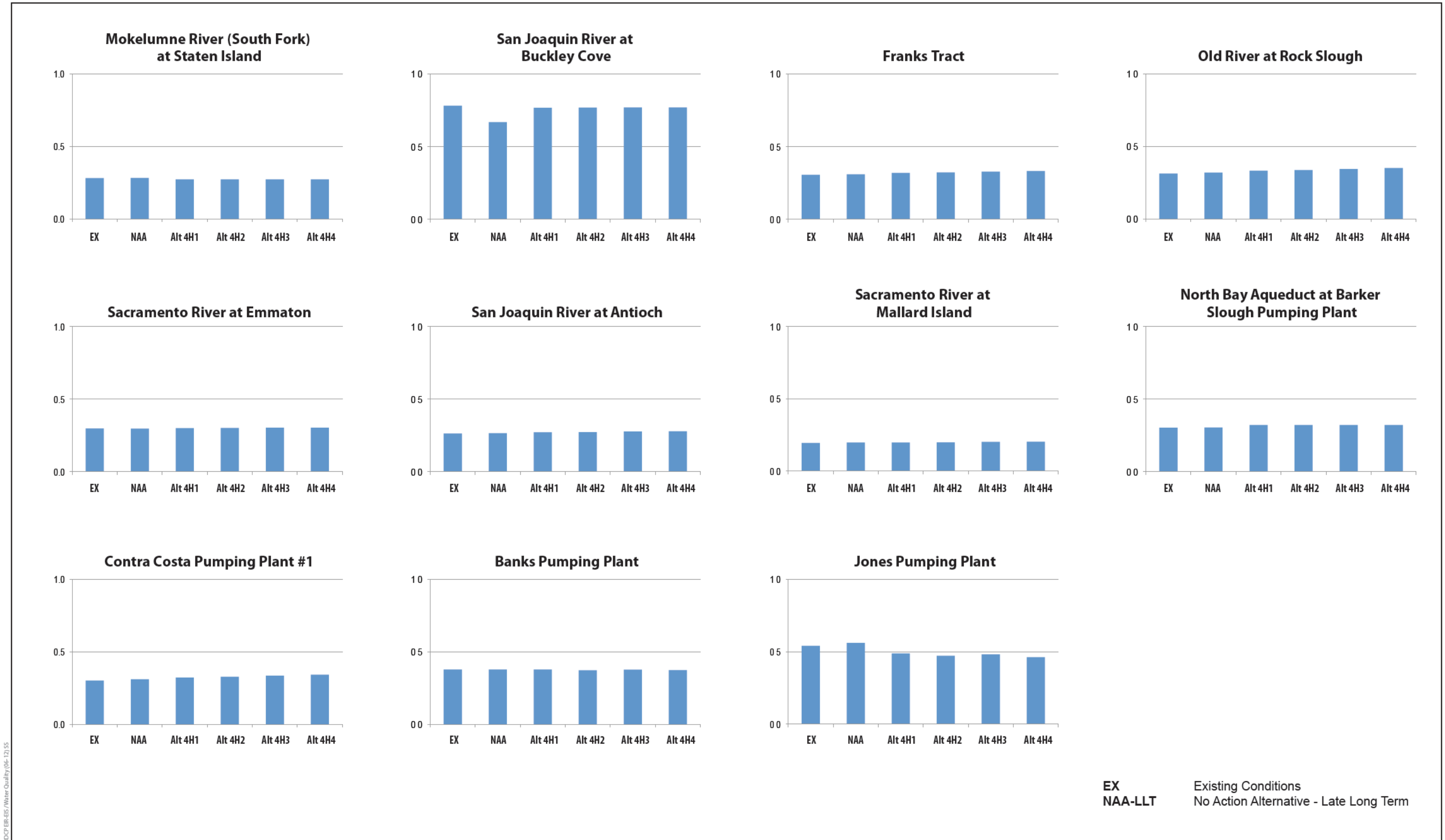


Figure 8-63b
Level of Concern Exceedance Quotients for Selenium Concentrations in Bird Eggs (Fish Diet) for Drought Years



BDCP ER-ES / Water Quality (06-12) SS

Figure 8-64a
Tissue Advisory Level Exceedance Quotients for Selenium Concentrations
in Fish Fillets for Drought Years

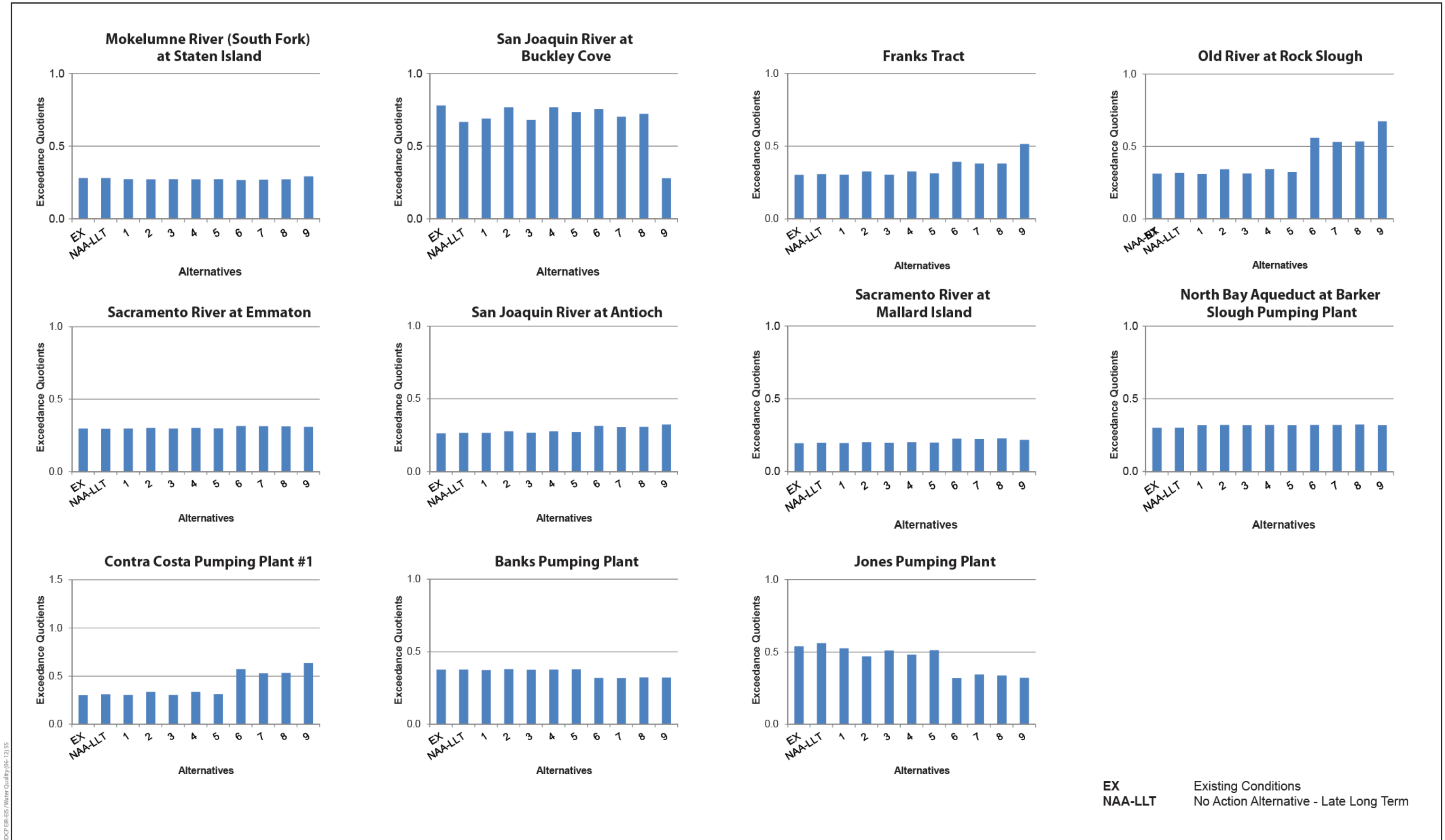


Figure 8-64b
Tissue Advisory Level Exceedance Quotients for Selenium Concentrations in Fish Fillets for Drought Years