### Final California 2010 Integrated Report(303(d) List/305(b) Report)

#### **Supporting Information**

#### Regional Board 1 - North Coast Region

Water Body Name: <u>Trinity River HU, Middle HA</u>
Water Body ID: <u>CAR1063102119990604163706</u>

Water Body Type: River & Stream

DECISION ID 17507 Region 1

Trinity River HU, Middle HA

Pollutant: Hexachlorocyclohexane (HCH), alpha | Hexachlorocyclohexane (HCH), beta |

Aldrin | Atrazine | Azinphos, Ethyl (Ethyl Guthion) | Bolstar | Carbofuran |

Chlordane | Chlorothalonil | Chlorpyrifos | Chlorpyrifos, methyl | Ciodrin | Dacthal | Demeton s | Dichlofenthion | Dichlorvos | Dieldrin | Dimethoate | Dioxathion | Dyfonate (Fonofos or Fonophos) | Endrin | Endrin Ketone | Ethion | Ethoprop | Famphur | Fenchlorphos | Fenitrothion | Fensulfothion | Fenthion | Glyphosate | Heptachlor | Heptachlor epoxide | Hexachlorobenzene/ HCB | Leptophos | Lindane/gamma Hexachlorocyclohexane (gamma-HCH) | Merphos | Methidathion | Methoxychlor | Methyl Parathion | Mevinphos | Molinate | Naled | Oxadiazon | Oxychlordane | Phorate | Phosmet | Phosphamidon | Prometon (Prometone) | Prometryn | Propazine | Secbumeton | Simazine | Simetryn | Sulfotep | Tedion |

Thionazin | Tokuthion | Toxaphene | Trichlorfon | Trichloronate | beta-BHC

(Benzenehexachloride or beta-HCH) | cis-Nonachlor | delta-BHC

(Benzenehexachloride or delta-HCH) | o,p?-DDD

(Dichlorodiphenyldichloroethane) | o,p?-DDE (Dichlorodiphenyldichloroethylene) | p,p'-DDD (Dichlorodiphenyldichloroethane) | p,p'-DDE | p,p?-DDMU | trans-

Terbufos | Terbuthylazine | Terbutryn | Tetrachlorvinphos | Thiobencarb/Bolero |

Nonachlor

**New Decision** 

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final

**Listing Decision:** 

Revision Status Revised Impairment from Pollutant Pollutant

or Pollution:

Conclusion:

These pollutants are being considered for placement on the section 303(d) list under section 3.1 of the Listing Policy. Under section 3.1 a single line of evidence is necessary to assess listing status. Two lines of evidence are available in the administrative record to assess this pollutant. None of the samples in LOE #30171 exceed the water quality objective. The pollutants in LOE #30064do not have water quality objectives and, therefore, a decision could not be made. The samples were analyzed for 95 pesticides, pesticide constituents, isomers, or metabolites. For each of the 95 pesticide analytes, 3 to 4 samples were collected. The samples were collected as part of the Surface Water Ambient Water Monitoring Program (SWAMP). The data are found in the 5-Year Monitoring Report (NCRWQCB 2008). Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category. This conclusion is based on the staff findings that: 1. The data used satisfies the data quality requirements of section 6.1.4 of the Policy. 2. The data used satisfies the data quantity requirements of section 6.1.5 of the Policy, 3. None of 738 samples for both LOEs, #30064, without criteria, or LOE #30171 with criteria, exceeded the water quality guidelines and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy. 4. Pursuant to section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff** 

Decision:

After review of the available data and information, RWQCB staff concludes that the water body-pollutant combination should not be placed on the section 303(d) list

because applicable water quality standards are not being exceeded.

**SWRCB Board Staff** 

**Decision:** 

After review of this Regional Board decision, SWRCB staff recommend the decision be

approved by the State Board.

USEPA Action (if applicable):

#### Line of Evidence (LOE) for Decision ID 17507, Multiple Pollutants Trinity River HU, Middle HA

Region 1

LOE ID: 30171

Pollutant: Hexachlorocyclohexane (HCH), alpha | Hexachlorocyclohexane (HCH), beta |

Aldrin | Atrazine | Carbofuran | Chlordane | Chlorpyrifos | Dacthal | Dieldrin | Endrin | Glyphosate | Heptachlor | Heptachlor epoxide | Hexachlorobenzene/HCB | Lindane/gamma Hexachlorocyclohexane (gamma-HCH) | Methoxychlor

| Molinate | Simazine | Thiobencarb/Bolero | Toxaphene

LOE Subgroup: Pollutant-Water

Matrix: Water Fraction: Dissolved

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 738 Number of Exceedances: 0

**Evaluation Guideline:** 

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: None of the 738 pesticide samples collected in the mainstem Trinity River

exceed the objective as all of the samples were either measured as non-detect or were measured as detected but not quantified with reporting limits below objectives or evaluation guidelines. The samples were analyzed for 95 pesticides, pesticide constituents, isomers, or metabolites. For each of the 95 pesticide analytes, 3 to 4 samples were collected. The samples were collected as part of the Surface Water Ambient Water Monitoring Program (SWAMP). The data are found in the 5-Year Monitoring Report (NCRWQCB 2008).

Data Reference: Surface Water Ambient Monitoring Program (SWAMP). Summary Report for

the North Coast Region (RWQCB-1) for years 2000-2006. North Coast

Regional Water Quality Control Board. March 2008

Water Quality Objective/Criterion: Per the Basin Plan (NCRWQCB 2007): No individual pesticide or combination

of pesticides shall be present in concentrations that adversely affect beneficial uses. There shall be no bioaccumulation of pesticide concentrations found in bottom sediments or aquatic life. Waters designated for use as domestic or municipal supply shall not contain concentrations of pesticides in excess of the limiting concentrations set forth in California Code of Regulations, Title 22, Division 4, Chapter 15, Article 4, Section 64444, and listed in Table 3.2 of the

Basin Plan.

No evaluation guidelines for the dissolved fractions of the pesticides assessed for this waterbody for the Municipal & Domestic Supply beneficial use could be found that meet the requirements of Section 6.1.3 of the Listing Policy. Water Quality Control Plan (Basin Plan) - North Coast Region (Region 1)

Objective/Criterion Reference: <u>Water Quality Control Plan (Basin Plan) - North Coast</u>

Hexachlorocyclohexane, alpha (0.0026 ug/l) Hexachlorocyclohexane, beta (0.0091ug/l)

Aldrin (0.000049 ug/l) Atrazine (0.001 ug/l) Carbofuran (0.04 mg/l) Chlordane (0.0001 ug/l) Chlorpyrifos (0.083 ug/l) Dacthal (70 ug/l) Dieldrin (0.00014 ug/l) Endrin (0.002 ug/l) Glyphosate (700 ug/l) Heptachlor (0.01 ug/l)

Heptachlor epoxide (0.01 ug/l) Hexachlorobenzene/ HCB (0.001 ug/l)

Lindane/gamma Hexachlorocyclohexane (gamma-HCH) (.98 ug/l)

Methoxychlor (0.03 mg/l) Molinate (0.02 mg/l) Simazine (0.04 mg/l)

Thiobencarb/Bolero (0.07 mg/l) Toxaphene (0.003 mg/l)

Guideline Reference: National recommended water quality criteria: 2002. EPA-822-R-02-047

Washington, D.C. USEPA

Water Quality Standards 2000. Establishment of numeric criteria for priority toxic pollutants for the State of California: Rules and regulations. Federal Register Vol. 65, No. 97. Washington, D.C.: Environmental Protection Agency California Code of Regulations, Title 22, Division 4, Chapter 15. Domestic

Water Quality and Monitoring.

http://www.cdph.ca.gov/certlic/drinkingwater/Pages/Lawbook.aspx

Spatial Representation: Samples were collected from the Trinity River Watershed from 2 locations as

follows: (1) from the North Fork Trinity Samples were collected from February 2002 to June 2003. Site visits corresponded to fall, winter, spring and early

summer seasonal conditions.

Temporal Representation: Samples were collected as grab samples during 23 site visits to each of the

three sites from March 2001 to June 2006. Site visits corresponded to fall,

winter, spring and early summer seasonal conditions.

Environmental Conditions: There are no known environmental conditions (e.g., seasonality, land use

practices, fire events, storms, etc.) that are related to these data.

QAPP Information: Quality control was conducted in accordance with the SWAMP Quality

Assurance Management Plan (SWAMP 2002).

QAPP Information Reference(s):

#### Line of Evidence (LOE) for Decision ID 17507, Multiple Pollutants Trinity River HU, Middle HA

Region 1

LOE ID: 30064

Pollutant: Azinphos, Ethyl (Ethyl Guthion) | Bolstar | Carbofuran | Chlorothalonil |

Chlorpyrifos, methyl | Ciodrin | Demeton s | Dichlofenthion | Dichlorvos | Dimethoate | Dioxathion | Dyfonate (Fonofos or Fonophos) | Endrin Ketone | Ethion | Ethoprop | Famphur | Fenchlorphos | Fenitrothion | Fensulfothion | Fenthion | Leptophos | Lindane/gamma Hexachlorocyclohexane (gamma-HCH) | Merphos | Methidathion | Methyl Parathion | Mevinphos | Naled | Oxadiazon | Oxychlordane | Phorate | Phosmet | Phosphamidon | Prometon (Prometone) | Prometryn | Propazine | Secbumeton | Simetryn | Sulfotep | Tedion | Terbufos | Terbuthylazine | Terbutryn | Tetrachlorvinphos |

Thiobencarb/Bolero | Thionazin | Tokuthion | Trichlorfon | Trichloronate | beta-

BHC (Benzenehexachloride or beta-HCH) | cis-Nonachlor | delta-BHC

(Benzenehexachloride or delta-HCH) | o,p?-DDD (Dichlorodiphenyldichloroethane) | o,p?-DDE (Dichlorodiphenyldichloroethylene) | p,p'-DDD

(Dichlorodiphenyldichloroethane) | p,p'-DDE | p,p?-DDMU | trans-Nonachlor

LOE Subgroup: Pollutant-Water

Matrix: Water Fraction: Dissolved

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 738 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: None of the 738 pesticide samples collected in the mainstem Trinity River

exceed the objective as all of the samples were either measured as non-detect or were measured as detected but not quantified with reporting limits below objectives or evaluation guidelines. The samples were analyzed for 95 pesticides, pesticide constituents, isomers, or metabolites. For each of the 95 pesticide analytes, 3 to 4 samples were collected. The samples were collected as part of the Surface Water Ambient Water Monitoring Program (SWAMP). The data are found in the 5-Year Monitoring Report (NCRWQCB 2008). Surface Water Ambient Monitoring Program (SWAMP). Summary Report for

the North Coast Region (RWQCB-1) for years 2000-2006. North Coast

Regional Water Quality Control Board. March 2008

Water Quality Objective/Criterion: Per the Basin Plan (NCRWQCB 2007): No individual pesticide or combination

of pesticides shall be present in concentrations that adversely affect beneficial uses. There shall be no bioaccumulation of pesticide concentrations found in bottom sediments or aquatic life. Waters designated for use as domestic or municipal supply shall not contain concentrations of pesticides in excess of the limiting concentrations set forth in California Code of Regulations, Title 22, Division 4, Chapter 15, Article 4, Section 64444, and listed in Table 3.2 of the

Basin Plan.

No evaluation guidelines for the dissolved fractions of the pesticides assessed for this waterbody for the Municipal & Domestic Supply beneficial use could be found that meet the requirements of Section 6.1.3 of the Listing Policy.

Objective/Criterion Reference: Water Quality Control Plan (Basin Plan) - North Coast Region (Region 1)

Evaluation Guideline: Guideline Reference:

Data Reference:

Spatial Representation: Samples were collected from the Trinity River Watershed from 2 locations as

follows: (1) from the North Fork Trinity River at Helena (SWAMP Station ID 106TRINFH), and (2) from the mainstem Trinity River at Salyer (SWAMP Station ID 106TRINSL). Samples were collected from well-mixed flows in

glides or riffles.

Temporal Representation: Samples were collected from February 2002 to June 2003. Site visits

corresponded to fall, winter, spring and early summer seasonal conditions. There are no known environmental conditions (e.g., seasonality, land use

practices, fire events, storms, etc.) that are related to these data.

Quality control was conducted in accordance with the SWAMP Quality

Assurance Management Plan (SWAMP 2002).

QAPP Information Reference(s):

**Environmental Conditions:** 

**QAPP Information:** 

DECISION ID 12318 Region 1

Trinity River HU, Middle HA

Pollutant: Aluminum

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final New Decision

**Listing Decision:** 

**Revision Status** Revised **Impairment from Pollutant** Pollutant

or Pollution:

**Conclusion:** 

This pollutant is being considered for placement on the Section 303(d) List under Section 3.1 of the Listing Policy. Under Section 3.1, a single line of evidence is necessary to assess listing status. One line of evidence is available in the administrative record to assess this pollutant. None of the 20 aluminum samples exceed the water quality objective. Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category (i.e., sufficient justification to not list). This conclusion is based on the staff findings that: (1) The data used satisfies the data quality requirements of Section 6.1.4 of the Policy. (2) The data used satisfies the data quantity requirements of Section 6.1.5 of the Policy. (3) None of the 20 samples exceeded the aluminum objective, and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy. (4) Pursuant to Section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff** 

Decision:

After review of the available data and information, North Coast Regional Water Board staff concludes that the water body-pollutant combination should not be placed on the Section 303(d) List because applicable water quality standards are being attained.

**SWRCB Board Staff** 

Decision:

After review of this Regional Board decision, SWRCB staff recommend the decision be

approved by the State Board.

USEPA Action (if applicable):

# Line of Evidence (LOE) for Decision ID 12318, Aluminum Trinity River HU, Middle HA

Region 1

LOE ID: 25365

Pollutant: Aluminum LOE Subgroup: Pollutant-Water

Matrix: Water Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 20 Number of Exceedances: 0

Data and Information Type:

PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: None of the 20 aluminum samples collected from the Trinity River Watershed,

Middle Trinity Hydrologic Area exceed the objective. The samples were collected as part of the Surface Water Ambient Water Monitoring Program (SWAMP). The data are found in the SWAMP Summary Report for the North

Coast Region for Years 2000-2006 (NCRWQCB 2008).

Data Reference: <u>Surface Water Ambient Monitoring Program (SWAMP). Summary Report for</u>

the North Coast Region (RWQCB-1) for years 2000-2006. North Coast

Regional Water Quality Control Board. March 2008

Water Quality Objective/Criterion: Per the Basin Plan (NCRWQCB 2007): The Maximum Contaminant Level for

aluminum is 1.0 mg/l (1,000 ug/L).

Objective/Criterion Reference: <u>Title 22. Division 4. Chapter 15. Sections 64400 et seq. California Code of</u>

Regulations

Evaluation Guideline: Guideline Reference:

Spatial Representation:

Samples were collected from the Trinity River Watershed from 2 locations as follows: (1) from the North Fork Trinity River at Helena (SWAMP Station ID TRINFH), and (2) from the mainstem Trinity River at Salyer (SWAMP Station ID TRINSL). Samples were collected from well-mixed flows in glides or riffles.

Temporal Representation: Samples were collected from February 2002 to June 2003. Site visits

> corresponded to fall, winter, spring and early summer seasonal conditions. There are no known environmental conditions (e.g., seasonality, land use

practices, fire events, storms, etc.) that are related to these data. Quality control was conducted in accordance with the SWAMP Quality **QAPP** Information:

Assurance Management Plan (Puckett 2002).

Quality Assurance Management Plan for the State of California's Surface QAPP Information Reference(s):

Water Ambient Monitoring Program. Sacramento, CA. State Water Resources

Control Board. SWAMP. December 2002 (1st version)

**DECISION ID** 15730 Region 1

Trinity River HU, Middle HA

**Environmental Conditions:** 

Pollutant: Ammonia as Nitrogen

**Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final New Decision

**Listing Decision:** 

**Revision Status** Revised Impairment from Pollutant Pollutant

or Pollution:

This pollutant is being considered for placement on the Section 303(d) List under Conclusion:

Section 3.1 of the Listing Policy. Under Section 3.1, a single line of evidence is necessary to assess listing status. One line of evidence is available in the

administrative record to assess this pollutant. None of the 20 ammonia as nitrogen samples exceed the objective. Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the Section 303(d) List in the Water Quality Limited Segments category (i.e., sufficient justification to not list). This conclusion is

based on the staff findings that: (1) The data used satisfies the data quality requirements of Section 6.1.4 of the Policy. (2) The data used satisfies the data quantity requirements of Section 6.1.5 of the Policy. (3) None of the 20 samples exceed the water quality objective, and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy. (4) Pursuant to Section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

**RWQCB Board Staff** 

Decision:

After review of the available data and information, North Coast Regional Water Board staff concludes that the water body-pollutant combination should not be placed on the Section 303(d) List because applicable water quality standards are being attained.

**SWRCB Board Staff** 

Decision:

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

**USEPA Action (if** applicable):

Line of Evidence (LOE) for Decision ID 15730, Ammonia as Nitrogen Trinity River HU, Middle HA

Region 1

LOF ID: 26301

Pollutant: Ammonia as Nitrogen LOE Subgroup: Pollutant-Water

Matrix: Water Fraction: Total

Beneficial Use: Cold Freshwater Habitat

Aquatic Life Use: Fish Migration | Fish Spawning | Freshwater Replenishment | Preservation of

Rare & Endangered Species | Wildlife Habitat

20 Number of Samples: Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: None of the 20 ammonia as nitrogen samples collected from the Trinity River

exceed the objective. The samples were collected as part of the Surface Water Ambient Water Monitoring Program (SWAMP). The data are found in the SWAMP Summary Report for the North Coast Region for Years 2000-

2006 (NCRWQCB 2008).

Data Reference: Surface Water Ambient Monitoring Program (SWAMP). Summary Report for

the North Coast Region (RWQCB-1) for years 2000-2006. North Coast

Regional Water Quality Control Board. March 2008

Water Quality Objective/Criterion: Per the Basin Plan (NCRWQCB 2007): All waters shall be maintained free of

toxic substances in concentrations that are toxic to, or that produce

detrimental physiological responses in human, plant, animal, or aquatic life. Water Quality Control Plan (Basin Plan) - North Coast Region (Region 1) Objective/Criterion Reference:

Per the National Recommended Water Quality Criteria (USEPA 2006): The 1-**Evaluation Guideline:** 

> hour average concentration (acute criterion or CMC) of total ammonia nitrogen (in mg N/L) for freshwater where salmonid fish are present, which is not to be exceeded more than once every three years on average, is calculated using the following equation: CMC=0.275/(1+10^(7.204 - pH)) +

39.0/(1+10^(pH - 7.204)).

National Recommended Water Quality Criteria. United States Environmental Guideline Reference:

Protection Agency. Office of Water. Office of Science and Technology. 4304T

The Blue Book

Samples were collected from the Trinity River Watershed from 2 locations as Spatial Representation:

> follows: (1) from the North Fork Trinity River at Helena (SWAMP Station ID 106TRINFH), and (2) from the mainstem Trinity River at Salyer (SWAMP Station ID 106TRINSL). Samples were collected from well-mixed flows in

Samples were collected from February 2002 to June 2003. Site visits Temporal Representation:

> corresponded to fall, winter, spring and early summer seasonal conditions. There are no known environmental conditions (e.g., seasonality, land use

practices, fire events, storms, etc.) that are related to these data. QAPP Information:

Quality control was conducted in accordance with the SWAMP Quality

Assurance Management Plan (Puckett 2002).

Quality Assurance Management Plan for the State of California's Surface QAPP Information Reference(s):

Water Ambient Monitoring Program. Sacramento, CA. State Water Resources

Control Board. SWAMP. December 2002 (1st version)

**DECISION ID** 10640 Region 1

Trinity River HU, Middle HA

**Environmental Conditions:** 

Pollutant: Arsenic | Cadmium | Chromium (total) | Copper | Lead | Mercury | Nickel |

Selenium | Silver | Zinc

**Final Listing Decision:** Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final **New Decision** 

**Listing Decision:** 

**Revision Status** Revised Impairment from Pollutant Pollutant

or Pollution:

Conclusion:

This pollutant is being considered for placement on the Section 303(d) List under Section 3.1 of the Listing Policy. Under Section 3.1, a single line of evidence is necessary to assess listing status. One line of evidence is available in the

administrative record to assess this pollutant. None of the 200 metals samples exceed the water quality objective. Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category (i.e., sufficient justification to not list). This conclusion is

based on the staff findings that: (1) The data used satisfies the data quality requirements of Section 6.1.4 of the Policy. (2) The data used satisfies the data quantity requirements of Section 6.1.5 of the Policy. (3) None of the 200 samples exceeded the metal objectives, and this does not exceed the allowable frequency of 18 per the binomial distribution described in Section 3.1 of the Listing Policy. (4) Pursuant to Section 3.11 of the Listing Policy, no additional data and information are available

indicating that standards are not met.

**RWQCB Board Staff** 

Decision:

After review of the available data and information, North Coast Regional Water Board staff concludes that the water body-pollutant combination should not be placed on the Section 303(d) List because applicable water quality standards are being attained.

**SWRCB Board Staff** 

Decision:

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

USEPA Action (if applicable):

#### Line of Evidence (LOE) for Decision ID 10640, Multiple Pollutants Trinity River HU, Middle HA

Region 1

LOE ID: 21513

Pollutant: Arsenic | Cadmium | Chromium (total) | Copper | Lead | Mercury | Nickel |

Selenium | Silver | Zinc

LOE Subgroup: Pollutant-Water

Matrix: Water Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 200 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: None of the 200 metals samples collected in the mainstem Trinity River

exceed the objectives. There were 10 samples collected for each of the 10 metal parameters at each of the 2 sites. The samples were collected as part of the Surface Water Ambient Water Monitoring Program (SWAMP). The data are found in the SWAMP Summary Report for the North Coast Region for

Years 2000-2006 (NCRWQCB 2008).

Data Reference: Surface Water Ambient Monitoring Program (SWAMP). Summary Report for

the North Coast Region (RWQCB-1) for years 2000-2006. North Coast

Regional Water Quality Control Board. March 2008

Water Quality Objective/Criterion: Per the Basin Plan (NCRWQCB 2007): Arsenic objective is 0.05 mg/L.

Cadmium objective is 0.01 mg/L. Chromium objective is 0.05 mg/L. Lead objective is 0.05 mg/L. Mercury objective is 0.002 mg/L. Selenium objective is 0.01 mg/L. Silver objective is 0.05 mg/L. Per 22 CCR 64431: Nickel maximum

contaminant level is 0.1 mg/L. Per 22 CCR 64449: Copper secondary

maximum contaminant level is 1.0 mg/L. Zinc secondary maximum

contaminant level is 5.0 mg/L.

Objective/Criterion Reference: <u>Water Quality Control Plan (Basin Plan) - North Coast Region (Region 1)</u>

Title 22. Division 4. Chapter 15. Sections 64400 et seg. California Code of

Regulations

Evaluation Guideline: Guideline Reference:

Spatial Representation: Samples were collected from the Trinity River Watershed from 2 locations as

follows: (1) from the North Fork Trinity River at Helena (SWAMP Station ID 106TRINFH), and (2) from the mainstem Trinity River at Salyer (SWAMP Station ID 106TRINSL). Samples were collected from well-mixed flows in

glides or riffles.

Temporal Representation: Samples were collected from February 2002 to June 2003. Site visits

corresponded to fall, winter, spring and early summer seasonal conditions. There are no known environmental conditions (e.g., seasonality, land use

practices, fire events, storms, etc.) that are related to these data.

QAPP Information: Quality control was conducted in accordance with the SWAMP Quality

Assurance Management Plan (SWAMP 2002).

QAPP Information Reference(s): Quality Assurance Management Plan for the State of California's Surface

Water Ambient Monitoring Program. Sacramento, CA. State Water Resources

Control Board. SWAMP. December 2002 (1st version)

DECISION ID 12439 Region 1

Trinity River HU, Middle HA

**Environmental Conditions:** 

Pollutant: Chloride

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final New Decision

**Listing Decision:** 

Revision Status Revised Impairment from Pollutant Pollutant

or Pollution:

**Conclusion:** This pollutant is being considered for placement on the Section 303(d) List under

Section 3.2 of the Listing Policy. Under Section 3.2, a single line of evidence is necessary to assess listing status. One line of evidence is available in the

administrative record to assess this pollutant. None of the 15 chloride samples exceed the evaluation guideline. Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category (i.e., sufficient justification to not list). This conclusion is based on the staff findings that: (1) The data used satisfies the data quality

requirements of Section 6.1.4 of the Policy. (2) The data used satisfies the data quantity requirements of Section 6.1.5 of the Policy. (3) None of the 15 samples exceeded the chloride evaluation guideline used to interpret the water quality objective, and this does not exceed the allowable frequency listed in Table 3.2 of the Listing Policy. (4) Pursuant to Section 3.11 of the Listing Policy, no additional data and

information are available indicating that standards are not met.

**RWQCB Board Staff** 

**Decision:** 

After review of the available data and information, North Coast Regional Water Board staff concludes that the water body-pollutant combination should not be placed on the Section 303(d) List because applicable water quality standards are being attained.

**SWRCB Board Staff** 

Decision:

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

USEPA Action (if applicable):

#### Line of Evidence (LOE) for Decision ID 12439, Chloride Trinity River HU, Middle HA

Region 1

LOE ID: 25418

Pollutant: Chloride LOE Subgroup: Pollutant-Water

Matrix: Water

Fraction: Not Recorded

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 20 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: None of the 20 chloride samples collected in the mainstem Trinity River

exceed the evaluation guideline. The samples were collected as part of the Surface Water Ambient Water Monitoring Program (SWAMP). The data are found in the SWAMP Summary Report for the North Coast Region for Years

2000-2006 (NCRWQCB 2008).

Data Reference: Surface Water Ambient Monitoring Program (SWAMP). Summary Report for

the North Coast Region (RWQCB-1) for years 2000-2006. North Coast

Regional Water Quality Control Board. March 2008

Water Quality Objective/Criterion: Per the Basin Plan (NCRWQCB 2007): Waters shall not contain taste- or odor

-producing substances in concentrations that impart undesirable tastes or odors to fish flesh or other edible products of aquatic origin, or that cause

nuisance or adversely affect beneficial uses.

Objective/Criterion Reference: Water Quality Control Plan (Basin Plan) - North Coast Region (Region 1)

Evaluation Guideline: Per 22 CCR 64449: The recommended Secondary Maximum Contaminant

Level for chloride is 250 mg/L.

Guideline Reference: Title 22. Division 4. Chapter 15. Sections 64400 et seq. California Code of

Regulations

Spatial Representation: Samples were collected from the Trinity River Watershed from 2 locations as

follows: (1) from the North Fork Trinity River at Helena (SWAMP Station ID 106TRINFH), and (2) from the mainstem Trinity River at Salyer (SWAMP Station ID 106TRINSL). Samples were collected from well-mixed flows in

glides or riffles.

Temporal Representation: Samples were collected from February 2002 to June 2003. Site visits

corresponded to fall, winter, spring and early summer seasonal conditions. There are no known environmental conditions (e.g., seasonality, land use

practices, fire events, storms, etc.) that are related to these data.

Quality control was conducted in accordance with the SWAMP Quality

Assurance Management Plan (SWAMP 2002).

QAPP Information Reference(s): Quality Assurance Management Plan for the State of California's Surface

Water Ambient Monitoring Program. Sacramento, CA. State Water Resources

Control Board. SWAMP. December 2002 (1st version)

DECISION ID 12482 Region 1

Trinity River HU, Middle HA

**Environmental Conditions:** 

QAPP Information:

Pollutant: PCBs (Polychlorinated biphenyls)

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

New Decision

**Last Listing Cycle's Final** 

**Listing Decision:** 

**Revision Status** Revised **Impairment from Pollutant** Pollutant

or Pollution:

**Conclusion:** This pollutant is being considered for placement on the Section 303(d) List under

Section 3.1 of the Listing Policy. Under Section 3.1, a single line of evidence is necessary to assess listing status. One line of evidence is available in the

administrative record to assess this pollutant. None of the 400 polychlorinated biphenyl (PCB) samples exceed the evaluation guideline. Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category (i.e., sufficient justification to not list). This conclusion is based on the staff findings that: (1) The data used satisfies the data quality requirements of Section 6.1.4 of the Policy. (2) The data used satisfies the data quantity requirements of Section 6.1.5 of the Policy. (3) None of the 400 samples exceeded the PCB evaluation guideline used to interpret the water quality objective, and this does not exceed the allowable frequency of 35 per the binomial distribution described in Section 3.1 of the Listing Policy, no additional data and information are available indicating that standards are not

**RWQCB Board Staff** 

Decision:

After review of the available data and information, North Coast Regional Water Board staff concludes that the water body-pollutant combination should not be placed on the Section 303(d) List because applicable water quality standards are being attained.

**SWRCB Board Staff** 

**Decision:** 

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

USEPA Action (if applicable):

Line of Evidence (LOE) for Decision ID 12482, PCBs (Polychlorinated biphenyls) Trinity River HU, Middle HA

Region 1

LOE ID: 25461

Pollutant: PCBs (Polychlorinated biphenyls)

LOE Subgroup: Pollutant-Water

Matrix: Water Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 400 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: None of the 400 polychlorinated biphenyl (PCB) analytes collected in the

mainstem Trinity River exceed the evaluation guideline. Each of the 8 samples were analyzed for 50 PCB cogeners. The samples were collected as part of the Surface Water Ambient Water Monitoring Program (SWAMP). The

data are found in the 5-Year Monitoring Report (NCRWQCB 2008).

Data Reference: Surface Water Ambient Monitoring Program (SWAMP). Summary Report for

the North Coast Region (RWQCB-1) for years 2000-2006. North Coast

Regional Water Quality Control Board. March 2008

Water Quality Objective/Criterion: Per the Basin Plan (NCRWQCB 2007, p. 3-4.00): All waters shall be

maintained free of toxic substances in concentrations that are toxic to, or that

produce detrimental physiological responses in human, plant, animal, or

aquatic life.

Objective/Criterion Reference: Water Quality Control Plan (Basin Plan) - North Coast Region (Region 1)

Evaluation Guideline: Per the "Public Health Goal for Water Soluble Polychlorinated Biphenyls

Expected to Found in Drinking Water" (OEHHA 2007): The health-protective

concentration of water-soluble PCBs in

drinking water associated with a one in one million extra lifetime cancer risk is

0.09 ug/L.

Guideline Reference: Public Health Goal for Water Soluble Polychlorinated Biphenyls Expected to

Be Found in Drinking Water. Pesticide and Environmental Toxicology Branch, Office of Environmental Health Hazard Assessment, California Environmental

**Protection Agency** 

Spatial Representation: Samples were collected from the Trinity River Watershed from 2 locations as

follows: (1) from the North Fork Trinity River at Helena (SWAMP Station ID 106TRINFH), and (2) from the mainstem Trinity River at Salyer (SWAMP Station ID 106TRINSL). Samples were collected from well-mixed flows in

glides or riffles.

Temporal Representation: Samples were collected from February 2002 to June 2003. Site visits

corresponded to fall, winter, spring and early summer seasonal conditions. There are no known environmental conditions (e.g., seasonality, land use

practices, fire events, storms, etc.) that are related to these data.

QAPP Information:

Quality control was conducted in accordance with the SWAMP Quality

Assurance Management Plan (SWAMP 2002).

QAPP Information Reference(s): Quality Assurance Management Plan for the State of California's Surface

Water Ambient Monitoring Program. Sacramento, CA. State Water Resources

Control Board. SWAMP. December 2002 (1st version)

DECISION ID 10020 Region 1

Trinity River HU, Middle HA

**Environmental Conditions:** 

Pollutant: Specific Conductivity

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final New Decision

**Listing Decision:** 

Revision Status Revised Impairment from Pollutant Pollutant

or Pollution:

**Conclusion:** This pollutant is being considered for placement on the Section 303(d) list under

Section 3.2 of the Listing Policy. Under Section 3.2 a single line of evidence is necessary to assess listing status. One line of evidence is available in the administrative record to assess this pollutant. None of the 20 specific conductivity samples exceed the water quality objective. Based on the readily available data and

information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category (i.e., sufficient justification to not list). This conclusion is based on the staff findings that: (1) The data used satisfies the data quality requirements of Section 6.1.4 of the Policy. (2) The data used satisfies the data quantity requirements of Section 6.1.5 of the Policy. (3) None of the 20 samples exceed

the specific conductivity objective, and this does not exceed the allowable frequency listed in Table 3.2 of the Listing Policy. (4) Pursuant to Section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not

met.

**RWQCB Board Staff** 

Decision:

After review of the available data and information, North Coast Regional Water Board staff concludes that the water body-pollutant combination should not be placed on the Section 303(d) List because applicable water quality standards are being attained.

**SWRCB Board Staff** 

After review of this Regional Board decision, SWRCB staff recommend the decision be Decision:

approved by the State Board.

**USEPA Action (if** applicable):

#### Line of Evidence (LOE) for Decision ID 10020, Specific Conductivity Trinity River HU, Middle HA

Region 1

21226 LOE ID:

Pollutant: Specific Conductivity LOE Subgroup: Pollutant-Water

Water Matrix: Fraction: None

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 20 Number of Exceedances:

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: None of the 20 specific conductivity samples collected from the Trinity River

> Watershed, Middle Trinity Hydrologic Area exceed the objective. The samples were collected as part of the Surface Water Ambient Water Monitoring Program (SWAMP). The data are found in the SWAMP Summary Report for

the North Coast Region for Years 2000-2006 (NCRWQCB 2008).

Data Reference: Surface Water Ambient Monitoring Program (SWAMP). Summary Report for

the North Coast Region (RWQCB-1) for years 2000-2006. North Coast

Regional Water Quality Control Board. March 2008

Per 22 CCR 64449: The recommended secondary Maximum Content Level Water Quality Objective/Criterion:

(MCL) is 900 uS/cm.

Objective/Criterion Reference: Title 22. Division 4. Chapter 15. Sections 64400 et seg. California Code of

Regulations

**Evaluation Guideline:** Guideline Reference:

**Environmental Conditions:** 

Spatial Representation: Samples were collected from the Trinity River Watershed from 2 locations as

> follows: (1) from the North Fork Trinity River at Helena (SWAMP Station ID TRINFH), and (2) from the mainstem Trinity River at Salyer (SWAMP Station ID TRINSL). Samples were collected from well-mixed flows in glides or riffles.

Temporal Representation: Samples were collected from February 2002 to June 2003. Site visits

> corresponded to fall, winter, spring and early summer seasonal conditions. There are no known environmental conditions (e.g., seasonality, land use

practices, fire events, storms, etc.) that are related to these data.

Quality control was conducted in accordance with the SWAMP Quality **QAPP** Information:

Assurance Management Plan (Puckett 2002).

QAPP Information Reference(s): Quality Assurance Management Plan for the State of California's Surface

Water Ambient Monitoring Program. Sacramento, CA. State Water Resources

Control Board. SWAMP. December 2002 (1st version)

**DECISION ID** 12509 Region 1

Trinity River HU, Middle HA

Pollutant: Sulfates

**Final Listing Decision:** Do Not List on 303(d) list (TMDL required list) Last Listing Cycle's Final New Decision

**Listing Decision:** 

**Revision Status** Revised **Impairment from Pollutant** Pollutant

or Pollution:

**Conclusion:** This pollutant is being considered for placement on the Section 303(d) List under

Section 3.2 of the Listing Policy. Under Section 3.2, a single line of evidence is necessary to assess listing status. One line of evidence is available in the

administrative record to assess this pollutant. None of the 20 sulfate samples exceed the evaluation guideline. Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the Section 303(d) List in the Water Quality Limited Segments category (i.e., sufficient justification to not list). This conclusion is based on the staff findings that: (1) The data used satisfies the data quality

requirements of Section 6.1.4 of the Policy. (2) The data used satisfies the data quantity requirements of Section 6.1.5 of the Policy. (3) None of the 20 samples exceed the sulfate evaluation guideline used to interpret the water quality objective, and this does not exceed the allowable frequency listed in Table 3.2 of the Listing Policy. (4) Pursuant to Section 3.11 of the Listing Policy, no additional data and information are

available indicating that standards are not met.

**RWQCB Board Staff** 

Decision:

After review of the available data and information, North Coast Regional Water Board staff concludes that the water body-pollutant combination should not be placed on the Section 303(d) List because applicable water quality standards are being attained.

**SWRCB Board Staff** 

Decision:

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

USEPA Action (if applicable):

#### Line of Evidence (LOE) for Decision ID 12509, Sulfates Trinity River HU, Middle HA

Region 1

LOE ID: 25526

Pollutant: Sulfates
LOE Subgroup: Pollutant-Water
Matrix: Water
Fraction: Not Recorded

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 20 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: None of the 20 sulfate samples collected in the mainstem Trinity River exceed

the evaluation guideline. The samples were collected as part of the Surface Water Ambient Water Monitoring Program (SWAMP). The data are found in

the 5-Year Monitoring Report (NCRWQCB 2008).

Data Reference: Surface Water Ambient Monitoring Program (SWAMP). Summary Report for

the North Coast Region (RWQCB-1) for years 2000-2006. North Coast

Regional Water Quality Control Board. March 2008

Water Quality Objective/Criterion: Per the Basin Plan (NCRWQCB 2007, p. 3-3.00): Waters shall not contain

taste- or odor-producing substances in concentrations that impart undesirable tastes or odors to fish flesh or other edible products of aquatic origin, or that

cause nuisance or adversely affect beneficial uses.

Objective/Criterion Reference: Water Quality Control Plan (Basin Plan) - North Coast Region (Region 1)

Evaluation Guideline: Per 22 CCR 64449 (Table 64449-B): The recommended secondary maximum

contaminant level for sulfate is 250 mg/L.

Guideline Reference: Title 22. Division 4. Chapter 15. Sections 64400 et seg. California Code of

Regulations

Spatial Representation: Samples were collected from the Trinity River Watershed from 2 locations as

follows: (1) from the North Fork Trinity River at Helena (SWAMP Station ID 106TRINFH), and (2) from the mainstem Trinity River at Salyer (SWAMP Station ID 106TRINSL). Samples were collected from well-mixed flows in

glides or riffles.

Temporal Representation: Samples were collected from February 2002 to June 2003. Site visits

corresponded to fall, winter, spring and early summer seasonal conditions. There are no known environmental conditions (e.g., seasonality, land use

practices, fire events, storms, etc.) that are related to these data.

Quality control was conducted in accordance with the SWAMP Quality

Assurance Management Plan (SWAMP 2002).

QAPP Information Reference(s):

Quality Assurance Management Plan for the State of California's Surface

Water Ambient Monitoring Program. Sacramento, CA. State Water Resources

Control Board. SWAMP. December 2002 (1st version)

DECISION ID 6926 Region 1

Trinity River HU, Middle HA

**Environmental Conditions:** 

QAPP Information:

Pollutant: Sedimentation/Siltation

Final Listing Decision: List on 303(d) list (being addressed by USEPA approved TMDL)
Last Listing Cycle's Final List on 303(d) list (being addressed by USEPA approved TMDL)(2006)

Listing Decision:

Revision Status Original

Sources: Channel Erosion | Dam Construction | Erosion/Siltation | Flow Regulation/Modification |

Harvesting, Restoration, Residue Management | Hydromodification | Logging Road Construction/Maintenance | Mine Tailings | Placer Mining | Resource Extraction | Silvicultural Point Sources | Silviculture | Streambank Modification/Destabilization |

Upstream Impoundment

TMDL Name: Trinity River Sediment

TMDL Project Code: 505

Date TMDL Approved by 12/2

USEPA:

12/20/2001

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Impairment from Pollutant Pollutant

or Pollution:

**Conclusion:** This pollutant is being considered for listing under section 2.2 of the Listing Policy.

Under this section of the Policy, a minimum of one line of evidence is needed to assess

listing status.

US EPA was the lead agency for development of the technical TMDL for the Trinity River TMDL. US EPA established the Trinity River Technical TMDL for Sediment on

December 20, 2001.

Based on the readily available information, the weight of evidence indicates that there is sufficient justification in favor of placing this water segment-pollutant combination in the Water Quality Limited Segments Being Addressed portion of the section 303(d) list.

**RWQCB Board Staff** 

Decision:

This is a decision made by the State Water Resources Control Board and approved by the USEPA in 2006. No new data were assessed by the Regional Board for 2008. The

decision has not changed.

**SWRCB Board Staff** 

**Decision:** 

After review of this Regional Board decision, SWRCB staff recommend the decision be

approved by the State Board.

## USEPA Action (if applicable):

#### Line of Evidence (LOE) for Decision ID 6926, Sedimentation/Siltation Trinity River HU, Middle HA

Region 1

LOE ID: 1671

Pollutant: Sedimentation/Siltation LOE Subgroup: Pollutant-Water

Matrix: Water Fraction: None

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 0 Number of Exceedances: 0

Data and Information Type: Not Specified

Data Used to Assess Water Quality: Unspecified--This LOE is a placeholder to support a 303(d) listing decision

made prior to 2006.

Data Reference: Placeholder reference 2006 303(d)

Water Quality Objective/Criterion: Objective/Criterion Reference:

Evaluation Guideline: Guideline Reference:

Spatial Representation: Temporal Representation: Environmental Conditions:

QAPP Information: QA Info Missing

QAPP Information Reference(s):