

**Watershed: San Francisquito**

**Waterbody:** San Francisquito Creek

**Reach:** SF-1

**Reach Length (miles):**

1.49

**Reach Limits (downstream to upstream):** San Francisco Bay to U.S. 101 Bridge

**Flow Regime:** Tidal

**Channel Type(s):** Earthen levee

**Generalized Land Use in Area:** Transition

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Insufficient on primary indicators; some limited data on secondary habitat indicators but not sufficient for support statement	Poor	Instream spawning habitat, riparian vegetation, fish assemblage, flow, barriers, macroinvertebrates, instream rearing habitat, stream type, temperature, turbidity, dissolved oxygen, channel substrate, streambank erosion potential	D0042	Unable to Determine	N/A	This reach is an important migratory route for anadromous fish, although the reach is probably too warm for steelhead; insufficient data is available to determine rearing; no reach-specific data on primary indicators (cold water dependent fish species presence, temperature, macroinvertebrates) is available; very limited reach-specific data on two secondary indicators indicates that criteria for support are not met within reach, but data is not sufficient for support statement
				D0101			
				D0103			
				D0104			
				D0459			
				D0602			
				D0609			
				D0620			

**Local Knowledge Comments:** Steelhead/rainbow trout were not observed during recent (1999-2001) surveys but this reach is an important acclimation zone for smolts and migrating adult steelhead.

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = TSS, bankfull, stage, discharge and width, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel.

**Fair/Poor Quality Data:** Primary Indicators = fish assemblage, macro-invertebrate data. Secondary Indicators = temperature, dissolved oxygen, turbidity, channel substrate, altered channel materials and dimensions, water depths and velocities.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available for either wet or dry weather

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**Flow Regime:** Tidal

**Channel Type(s):** Earthen levee

**Generalized Land Use in Area:** Transition

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Fecal coliform, turbidity, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, MTBE, nitrate, PCB, selenium, mercury, nickel, TDS

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
PFF	Sufficient	Good	Channel capacity, design flow	D0102	Non Support	A	Data sets D0380 and D0559 provide data on the direct indicator (ability to convey 100-year flood flows); because of this, it was not necessary to review other data sets on secondary indicators; D0638 and stakeholder input contain information on this reach of San Francisquito Creek that overtopped in the February 2-3, 1998 flood event, which was estimated between 6,500 to 8,000 cfs, which is equivalent to a 100 -year event.
				D0216			
				D0311			
				D0321			
				D0322			
				D0323			
				D0324			
				D0325			
				D0326			
				D0380			
				D0559			
				D0583			
				D0586			
				D0587			
				D0589			
				D0609			
				D0620			
				D0621			

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**Flow Regime:** Tidal

**Channel Type(s):** Earthen levee

**Generalized Land Use in Area:** Transition

PFF	Sufficient	Good	Channel capacity, design flow	D0638	Non Support	A	Data sets D0380 and D0559 provide data on the direct indicator (ability to convey 100-year flood flows); because of this, it was not necessary to review other data sets on secondary indicators; D0638 and stakeholder input contain information on this reach of San Francisquito Creek that overtopped in the February 2-3, 1998 flood event, which was estimated between 6,500 to 8,000 cfs, which is equivalent to a 100 -year event.
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**Local Knowledge Comments:** The February 1998 flood event was estimated at between 6,500 and 8,000 cfs, which is within the range of the 100-year flow estimates of both FEMA (7,860 cfs) and USGS (6,925 cfs); the San Francisquito Creek JPA is funding an interim flood control project to restore the levees downstream of U.S. 101 to their original design height because of existing creek capacity deficiencies; the SCVWD has recently completed development of an updated hydraulic model that documents the inadequacy of the reaches' flood-carrying capacity; flood problems in SF-1 would be worse if water did not overtop and exit the creek upstream in SF-3 during severe storms and capacity in SF-1 will need to be increased if SF-3 is improved to allow passage of additional flow; continuing build-up of sediment is incrementally decreasing flow capacity in SF-1. The JPA has recently received approval from Congress for an Army COE Reconnaissance Study.

**Limiting Factor(s):** This reach overtopped in the February 2-3, 1998 flood event which was equivalent to a 100-year event

**Suspected Cause(s):** Creek does not have sufficient flow capacity in the main channel to convey major flood flows; probable cause is disconnection of main channel from natural floodplain (levees, urban development, etc.).

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Sufficient	Good	Special status species observations	D0101	Full Support	A	Full support based on breeding clapper rail, breeding salt marsh harvest mice, breeding salt common yellowthroat, yellow rumped warblers (Note: data shows SF gartersnake and yellow rumped warbler present on creek but is not reach specific)
				D0111			
				D0112			
				D0459			
				D0609			
				D0620			

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**Waterbody:** San Francisquito Creek

**Reach:** SF-1

**Reach Length (miles):**

1.49

**Reach Limits (downstream to upstream):** San Francisco Bay to U.S. 101 Bridge

**Flow Regime:** Tidal

**Channel Type(s):** Earthen levee

**Generalized Land Use in Area:** Transition

**Local Knowledge Comments:** Fieldwork associated with the sediment TMDL by the JPA and complementary habitat assessment by SCVWD will enable refinement of the RARE assessment through several reaches of the SFC watershed. Steelhead/rainbow trout were not observed during recent (1999-2001) surveys but this reach is an important acclimation zone for smolts and migrating adult steelhead.

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = habitat requirements for individual special status species.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	No data on primary or secondary indicators; limited data on tertiary indicator (aesthetics/access)	Poor	Aesthetics (trash, algae), access	D0042  D0452 D0620	Non-Support for tertiary indicator; no support statement is able to be made for primary and secondary indicators	D	No data sets are available on the primary, secondary indicators; limited support statement was developed based ONLY on tertiary indicator; data sets D0042 and D0620 provided limited data, some of which is quite dated; high level of uncertainty regarding this reach

**Local Knowledge Comments:**

**Limiting Factor(s):** Presence of trash and algae in reach; poor/limited accessibility to stream

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Waterbody:** San Francisquito Creek

**Reach:** SF-2

**Reach Length (miles):** 1.01

**Reach Limits (downstream to upstream):** U.S. 101 to University Avenue

**Flow Regime:** Ephemeral

**Channel Type(s):** Rock-lined, concrete-lined

**Generalized Land Use in Area:** Urban

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Insufficient on primary indicators (some limited flow data but no good temperature, fish assemblage, or macroinvertebrate data); sufficient on secondary habitat indicators	Fair	instream rearing habitat, instream rearing (location and extent), stream type, channel substrate, riparian vegetation, physical barriers, temperature, turbidity, dissolved oxygen, instream spawning habitat, fish assemblage	D0101	Non Support	A	Primary consideration is that the reach is dry during most summers and cannot therefore support cold water dependent fish habitat
				D0102			
				D0103			
				D0104			
				D0311			
				D0312			
				D0459			
				D0462			
				D0602			
				D0609			
				D0612			
				D0620			

**Local Knowledge Comments:** These findings are an artifact of a methodology that presupposes that all four beneficial uses apply to all reaches. The Clarke St. barrier was notched by the San Francisquito Watershed Council and is no longer considered a significant problem. Steelhead/rainbow trout were observed from 300 feet upstream of US 101 to University Avenue in 1999-2001 (juveniles during out-migration).

**Limiting Factor(s):** Stream goes dry in most summers - reach is ephemeral; poor spawning habitat; barriers to fish migration

**Suspected Cause(s):** Low streamflows from upstream are lost to percolation and riparian vegetation use before they get to this reach in summer.

**Data Gap(s) - No Data:** Primary Indicators = macro-invertebrate data. Secondary Indicators = TSS, width to depth ratio, bankfull, stage, discharge and width, shaded riverine aquatic habitat, water depths and velocities, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel.

**Fair/Poor Quality Data:** Secondary Indicators = temperature, dissolved oxygen, turbidity, altered channel materials and dimensions.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	Limited but sufficient	Good	Selenium, mercury, fecal coliform, DDT, dieldrin	D0233	Non Support	D	Data is from 1994 and 1995, only six sample dates in entire data set with minimal exceedances

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**Reach Length (miles):** 1.01

**Reach Limits (downstream to upstream):** U.S. 101 to University Avenue

**Flow Regime:** Ephemeral

**Channel Type(s):** Rock-lined, concrete-lined

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:**

**Limiting Factor(s):** Selenium, mercury

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Turbidity, chlordane, copper, chlorpyrifos, diazinon, dioxin, MTBE, nitrate, PCB, selenium, nickel, TDS

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
PFF	Sufficient	Good	Channel capacity, design flow	D0102	Non Support	A	Data sets D0380 and D0559 provide data on the direct indicator (ability to convey 100-year flood flows); data set D0638 and stakeholder input suggest that this reach can not convey 100- year flood flows
				D0216			
				D0311			
				D0321			
				D0322			
				D0323			
				D0324			
				D0325			
				D0326			
				D0380			
				D0559			
				D0583			
				D0586			
				D0587			
				D0589			
				D0609			
				D0620			
				D0621			
				D0638			

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**Reach:** SF-2

**Reach Length (miles):** 1.01

**Reach Limits (downstream to upstream):** U.S. 101 to University Avenue

**Flow Regime:** Ephemeral

**Channel Type(s):** Rock-lined, concrete-lined

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:** The February 1998 flood event was estimated at between 6,500 and 8,000 cfs, which is within the range of the 100-year flow estimates of both FEMA (7,860 cfs) and USGS (6,925 cfs); in the lower part of SF-2, flood protection is provided by a "temporary" flood wall of questionable integrity - a portion of this wall is proposed to be replaced as part of the JPA's levee restoration project; flood problems in SF-2 would be worse if water did not overtop and exit the creek upstream in SF-3 during severe storms and capacity in SF-2 will need to be increased if SF-3 is improved to allow passage of additional flow. The JPA has recently received approval from Congress for an Army COE Reconnaissance Study.

**Limiting Factor(s):** Not able to convey 100-year flood flows

**Suspected Cause(s):** Creek does not have sufficient flow capacity in the main channel to convey major flood flows; probable cause is disconnection of main channel from natural floodplain (levees, urban development, etc.).

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Sufficient	Fair	Special status species observations	D0111	Full Support	C	Full support based on salt marsh harvest mice presence
				D0459			
				D0609			
				D0620			

**Local Knowledge Comments:** Steelhead/rainbow trout were observed from 300 feet upstream of US 101 to University Avenue in 1999-2001 (juveniles during out-migration).

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = assemblages of special status species.

**Fair/Poor Quality Data:** Primary Indicators = special status species.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	No data on primary or secondary indicators; limited data on tertiary indicator (aesthetics/access)	Poor	Aesthetics (trash, algae), access	D0042	Non-Support for tertiary indicator; no support statement is able to be made for primary and secondary indicators	C	No data sets are available on the primary, secondary indicators; limited support statement was developed based ONLY on tertiary indicator; data sets D0042 and D0620 provided limited data, some of which is quite dated; high level of uncertainty regarding this reach
				D0452			
				D0620			

**Watershed:** San Francisquito

**Waterbody:** San Francisquito Creek

**Reach:** SF-2

**Reach Length (miles):**

1.01

**Reach Limits (downstream to upstream):** U.S. 101 to University Avenue

**Flow Regime:** Ephemeral

**Channel Type(s):** Rock-lined, concrete-lined

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:**

**Limiting Factor(s):** Presence of trash and algae in reach; poor/limited accessibility to stream

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Waterbody:** San Francisquito Creek

**Reach:** SF-3

**Reach Length (miles):** 4.41

**Reach Limits (downstream to upstream):** University Avenue to Sand Hill Road

**Flow Regime:** Ephemeral to Intermittent

**Channel Type(s):** Natural Modified

**Generalized Land Use in Area:** Urban

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Sufficient on primary indicators (macroinvertebrates, fish assemblage); additional data on secondary habitat indicators	Fair	Instream rearing habitat, instream rearing (location and extent), stream type, channel substrate, riparian vegetation, physical barriers, temperature, turbidity, dissolved oxygen, instream spawning habitat, fish assemblage, streambank erosion potential, macroinvertebrates	D0101	Partial Support	C	Pools present in this reach during most summers; the reach met the insect criteria during a very wet year (1998); documented steelhead occurrences within reach; no good reach-specific temperature data leads to high uncertainty; fish data in reach SF-4 upstream indicates declining suitability downstream; COLD support in reach SF-3 is probably marginal even in wet years
				D0102			
				D0103			
				D0104			
				D0311			
				D0312			
				D0315			
				D0457			
				D0459			
				D0464			
				D0602			
				D0609			
				D0612			
				D0620			
				D0624			
				D0625			

**Local Knowledge Comments:** Steelhead/rainbow trout were observed throughout this reach during recent (1999-2001) surveys (juveniles during out-migration).

**Limiting Factor(s):** Reach is dry or intermittent during average or dry years

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = TSS, bankfull, stage, discharge and width, altered channel materials, shaded riverine aquatic habitat, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel.

**Fair/Poor Quality Data:** Secondary Indicators = temperature, dissolved oxygen, turbidity.

**Watershed: San Francisquito**

**Waterbody:** San Francisquito Creek

**Reach:** SF-3

**Reach Length (miles):** 4.41

**Reach Limits (downstream to upstream):** University Avenue to Sand Hill Road

**Flow Regime:** Ephemeral to Intermittent

**Channel Type(s):** Natural Modified

**Generalized Land Use in Area:** Urban

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	Limited but sufficient	Fair	Nitrate, turbidity, fecal coliform, dieldrin, DDT	D0233 D0578	Non Support	D	Limited data on 4 of 16 parameters; high uncertainty due to lack of data on most parameters

**Local Knowledge Comments:**

**Limiting Factor(s):** Fecal coliform, dieldrin, DDT

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Fecal coliform (wet weather), turbidity, chlordane, copper, chlorpyrifos, DDT (wet weather), diazinon, dieldrin (wet weather), dioxin, MTBE, nitrate, PCB, selenium, mercury, nickel, TDS

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
PFF	Sufficient	Good	Channel capacity, design flow	D0102	Non Support	A	(1) Data sets D0380 and D0559 provide data on the direct indicator (ability to convey 100-year flood flows); data set D0638 and stakeholder input suggest that this reach can not convey 100 -year flood flows; (2) this reach supports PFF except for two critical urban reaches: Chaucer to Middlefield (SCVWD stationing #17700 to 22075) and Middlefield to Waverley (22175 to 25400) that cannot pass the 1% flood
				D0216			
				D0311			
				D0321			
				D0322			
				D0323			
				D0324			
				D0325			
				D0326			
				D0380			
				D0455			
				D0559			
				D0583			

**Watershed: San Francisquito**

**Waterbody:** San Francisquito Creek

**Reach:** SF-3

**Reach Length (miles):** 4.41

**Reach Limits (downstream to upstream):** University Avenue to Sand Hill Road

**Flow Regime:** Ephemeral to Intermittent

**Channel Type(s):** Natural Modified

**Generalized Land Use in Area:** Urban

PFF	Sufficient	Good	Channel capacity, design flow	D0586	Non Support	A	(1) Data sets D0380 and D0559 provide data on the direct indicator (ability to convey 100-year flood flows); data set D0638 and stakeholder input suggest that this reach can not convey 100 -year flood flows; (2) this reach supports PFF except for two critical urban reaches: Chaucer to Middlefield (SCVWD stationing #17700 to 22075) and Middlefield to Waverley (22175 to 25400) that cannot pass the 1% flood
				D0587			
				D0589			
				D0609			
				D0620			
				D0621			
				D0638			

**Local Knowledge Comments:** The upper end of this reach will vary depending on the year (dry, wet, normal) with the limit of streamflow. Future analyses should consider splitting this reach into different segments corresponding to amount or type of streamflow and location of perennial pools. The JPA has recently received approval from Congress for an Army COE Reconnaissance Study.

**Limiting Factor(s):** Adequate channel capacity to convey the expected 100-year flow does not exist within two sections of this reach; land uses adjacent to the stream within the flood zone consist of urban commercial and residential

**Suspected Cause(s):** (a) Creek may not have sufficient channel capacity to convey flood flows and/or (b) encroachment of urban commercial and residential development into the natural channel floodplain. Problem segments are from Chaucer to Middlefield (SCVWD stationing #17700 to 22075) and Middlefield to Waverley (22175 to 25400).

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Limited data	Fair	Special status species observations	D0106	Potential Support	D	Potential support based on western pond turtle; not enough data to indicate full support (regular reproducing population)
				D0111			
				D0459			
				D0609			
				D0620			

**Watershed: San Francisquito**

**Waterbody:** San Francisquito Creek

**Reach:** SF-3

**Reach Length (miles):** 4.41

**Reach Limits (downstream to upstream):** University Avenue to Sand Hill Road

**Flow Regime:** Ephemeral to Intermittent

**Channel Type(s):** Natural Modified

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:** Steelhead/rainbow trout were observed throughout this reach during recent (1999-2001) surveys (juveniles during out-migration).

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = habitat requirements.

**Fair/Poor Quality Data:** Primary Indicators = assemblages of special status species.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	No data on primary or secondary indicators; limited data on tertiary indicator (aesthetics/access)	Fair	Aesthetics (trash, algae), access, water depth	D0039  D0042 D0578 D0620	Partial support for tertiary indicator; no support statement is able to be made for primary and secondary indicators	C	No data sets are available on the primary, secondary indicators; limited support statement was developed based ONLY on tertiary indicator; data sets D0039, D0042, D0578, and D0620 provided limited data, some of which is quite dated; high level of uncertainty regarding this reach; poor aesthetics were noted; access appears to be available

**Local Knowledge Comments:**

**Limiting Factor(s):** Presence of trash and algae in reach

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Waterbody:** San Francisquito Creek

**Reach:** SF-4

**Reach Length (miles):** 1.57

**Reach Limits (downstream to upstream):** Sand Hill Road to Los Trancos Creek confluence

**Flow Regime:** Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Urban

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Sufficient on primary indicators (macroinvertebrates, temperature, fish assemblage); additional data on secondary habitat indicators	Fair	Fish assemblage, dissolved oxygen, instream rearing habitat, instream rearing (location and extent), stream type, channel substrate, riparian vegetation, physical barriers, temperature, turbidity, instream spawning habitat, macroinvertebrates, flow	D0020	Partial Support	B	Pools present at lower end of reach during most summers; steelhead regularly present in the reach downstream to the USGS gage though there is a general decline in abundance downstream within the reach; temperature meets criteria; insect criteria were not met at a downstream site within the reach in 1998 (very wet year)
				D0040			
				D0101			
				D0102			
				D0103			
				D0104			
				D0311			
				D0312			
				D0315			
				D0438			
				D0451			
				D0459			
				D0461			
				D0462			
				D0464			
				D0556			
				D0578			
				D0582			
				D0602			
				D0609			
				D0612			
				D0616			
				D0618			
				D0620			

**Watershed: San Francisquito**

**Waterbody:** San Francisquito Creek

**Reach:** SF-4

**Reach Length (miles):**

1.57

**Reach Limits (downstream to upstream):** Sand Hill Road to Los Trancos Creek confluence

**Flow Regime:** Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Urban

COLD	Sufficient on primary indicators (macroinvertebrates, temperature, fish assemblage); additional data on secondary habitat indicators	Fair	Fish assemblage, dissolved oxygen, instream rearing habitat, instream rearing (location and extent), stream type, channel substrate, riparian vegetation, physical barriers, temperature, turbidity, instream spawning habitat, macroinvertebrates, flow	D0625	Partial Support	B	Pools present at lower end of reach during most summers; steelhead regularly present in the reach downstream to the USGS gage though there is a general decline in abundance downstream within the reach; temperature meets criteria; insect criteria were not met at a downstream site within the reach in 1998 (very wet year)
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**Local Knowledge Comments:** Steelhead/rainbow trout were observed throughout this reach during recent (1999-2001) surveys (juveniles during out-migration and over-summering).

**Limiting Factor(s):** Low streamflows and scarce riffles inhibit insect production within this reach

**Suspected Cause(s):** Low streamflows in reach, which decline or are absent in the lower portion of the reach. Substrate quality and stream gradient decline downstream within the reach, reducing riffle quantity and quality. Groundwater pumping may be aggravating naturally dry watershed conditions.

**Data Gap(s) - No Data:** Secondary Indicators = TSS, altered channel materials, shaded riverine aquatic habitat, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel.

**Fair/Poor Quality Data:** Secondary Indicators = temperature, instream spawning habitat.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	Sufficient	Fair	TDS, turbidity, selenium, mercury, nickel, nitrate, copper, nitrite, chlorpyrifos, diazinon	D0102	Partial Support	C	9 of 16 data types present; no QA/QC for one major data set; uncertainty over dry/wet weather sampling (no information provided in most data sets); no data available on remaining data types
				D0554			
				D0556			
				D0578			

**Local Knowledge Comments:**

**Limiting Factor(s):** Turbidity during wet season and to a small degree during dry season (exceeds primary but not secondary MCL by small amount)

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Fecal coliform, chlordane, DDT, diazinon, dieldrin, dioxin, MTBE, PCB

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
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**Watershed: San Francisquito**

**Waterbody:** San Francisquito Creek

**Reach:** SF-4

**Reach Length (miles):** 1.57

**Reach Limits (downstream to upstream):** Sand Hill Road to Los Trancos Creek confluence

**Flow Regime:** Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Urban

PFF	Sufficient	Good	Channel capacity, design flow	D0102	Full Support	A	Data sets D0380 and D0559 provide data on the direct indicator (ability to convey 100-year flood flows); because of this, it was not necessary to review other data sets on secondary indicators
				D0311			
				D0321			
				D0323			
				D0324			
				D0325			
				D0326			
				D0380			
				D0559			
				D0586			
				D0587			
				D0589			
				D0609			
				D0620			
				D0621			

**Local Knowledge Comments:** The lower end of this reach will vary depending on the year (dry, wet, normal) with the limit of streamflow.

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Sufficient	Good	Special status species observations; Habitat	D0111	Full Support	B	Full support based on steelhead and habitat description; additional potential support status based on western pond turtle and red legged frog
				D0459			
				D0602			
				D0609			
				D0618			

**Watershed: San Francisquito**

**Waterbody:** San Francisquito Creek

**Reach:** SF-4

**Reach Length (miles):**

1.57

**Reach Limits (downstream to upstream):** Sand Hill Road to Los Trancos Creek confluence

**Flow Regime:** Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Urban

RARE	Sufficient	Good	Special status species observations; Habitat	D0620	Full Support	B	Full support based on steelhead and habitat description; additional potential support status based on western pond turtle and red legged frog
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**Local Knowledge Comments:** Steelhead/rainbow trout were observed throughout this reach during recent (1999-2001) surveys (juveniles during out-migration and over-summering).

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = habitat requirements for individual special status species.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	No data on primary indicator; limited data on secondary indicator (2 of 9 parameters); data on tertiary indicators present	Good	Aesthetics (trash, algae), access, water depth, some constituents	D0039	Full support on secondary indicator but with high uncertainty due to limited data; partial support on tertiary indicator; no support statement is able to be made for primary indicator	D	No data sets are available on the primary indicators; limited support statement was developed based ONLY on secondary and tertiary indicators; data sets D0556 on secondary indicator and D0039, D0042, D0101, D0102, D0303, D0618, and D0620 on tertiary indicator provided limited data; high level of uncertainty regarding this reach due to lack of data on most water quality parameters; good aesthetics and water depth were noted; access appears to be limited
				D0042			
				D0101			
				D0102			
				D0383			
				D0463			
				D0556			
				D0618			
				D0620			

**Watershed:** San Francisquito

**Waterbody:** San Francisquito Creek

**Reach:** SF-4

**Reach Length (miles):** 1.57

**Reach Limits (downstream to upstream):** Sand Hill Road to Los Trancos Creek confluence

**Flow Regime:** Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:** Well permit data for the watershed have been obtained as a follow-up to concerns about base flow depletion raised by the recent Regional Board draft report on the South Bay Groundwater Basins (January 2002).

**Limiting Factor(s):** Limited public access

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed:** San Francisquito

**Waterbody:** San Francisquito Creek

**Reach:** SF-5

**Reach Length (miles):** 3.86

**Reach Limits (downstream to upstream):** Los Trancos Creek to Searsville Lake

**Flow Regime:** Perennial to Intermittent

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Sufficient on primary indicators; additional data on secondary habitat indicators	Good	Fish assemblage, dissolved oxygen, instream rearing habitat, stream type, channel substrate, riparian vegetation, physical barriers, temperature, turbidity, instream spawning habitat, macroinvertebrates, mercury, PCBs	D0020	Full Support	A	Steelhead regularly present; two of four sites met insect criteria in 1998; most sites met criteria in 1993; low summer streamflows (with portions being intermittent) may affect level of COLD support in this reach during some years
				D0040			
				D0101			
				D0103			
				D0104			
				D0438			
				D0451			
				D0459			
				D0461			
				D0556			
				D0578			
				D0602			
				D0612			
				D0615			
				D0616			
				D0618			
				D0625			

**Local Knowledge Comments:** Steelhead/rainbow trout were observed throughout this reach during recent (1999-2001) surveys (observed 29-inch long steelhead attempting to jump Searsville Dam in 1991).

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = TSS, width to depth ratio, altered channel materials, instream spawning habitat, instream rearing habitat, chlordane, DDT, dieldrin, dioxin, selenium.

**Fair/Poor Quality Data:** Secondary Indicators = turbidity, physical barriers to migration.

**Watershed: San Francisquito**

**Waterbody:** San Francisquito Creek

**Reach:** SF-5

**Reach Length (miles):** 3.86

**Reach Limits (downstream to upstream):** Los Trancos Creek to Searsville Lake

**Flow Regime:** Perennial to Intermittent

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	Sufficient	Fair	TDS, turbidity, selenium, mercury, nickel, nitrate, copper, nitrite, chlorpyrifos, diazinon, fecal coliform, dieldrin, DDT	D0101	Non Support	B	12 of 16 data types present; no QA/QC for one major data set; some uncertainty over dry/wet weather sampling (no information provided in most data sets); no data available on remaining data types
				D0233			
				D0554			
				D0556			
				D0578			
				D0582			

**Local Knowledge Comments:**

**Limiting Factor(s):** TDS in summer; turbidity in winter; fecal coliform, DDT, dieldrin

**Suspected Cause(s):** High TDS due to groundwater sources to streams in summer. Turbidity due to erosion (stream or rill) during winter storms. Uncertain regarding fecal coliform, DDT, and dieldrin.

**Data Gap(s) - No Data:** Chlordane, dioxin, MTBE, PCB

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
PFF	Sufficient with higher uncertainty for upper portion of reach	Good for lower section; fair for upper section	Channel capacity, design flow for lower section of reach; conclusions regarding channel capacity based on historic flooding, but no direct measurement for upper section of reach	D0102	Full Support	A for lower portion of reach; C for upper portion	(1) Data sets D0380 and D0559 provide data on the direct indicator (ability to convey 100-year flood flows) for the lower part of the reach (up to a point of 1200 feet upstream of I-280); no data on the primary indicator was available for the upper portion of the reach; (2) D0102 provides channel cross sections but existing and 100-year flow data is unavailable so existing and design flows cannot be calculated in order to assess the primary indicator; (3) D0602 contains a qualitative conclusion that the upper part of the reach can convey the 100-year flow and provides a cross-section at a point in this segment to illustrate that the channel has been able to convey historic flows up to the 75-year event
				D0216			
				D0380			

**Watershed:** San Francisquito

**Waterbody:** San Francisquito Creek

**Reach:** SF-5

**Reach Length (miles):** 3.86

**Reach Limits (downstream to upstream):** Los Trancos Creek to Searsville Lake

**Flow Regime:** Perennial to Intermittent

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

PFF	Sufficient with higher uncertainty for upper portion of reach	Good for lower section; fair for upper section	Channel capacity, design flow for lower section of reach; conclusions regarding channel capacity based on historic flooding, but no direct measurement for upper section of reach	D0559	Full Support	A for (1) Data sets D0380 and D0559 provide data on the lower direct indicator (ability to convey 100-year flood portion flows) for the lower part of the reach (up to a point of 1200 feet upstream of I-280); no data on the primary reach; indicator was available for the upper portion of the C for reach; (2) D0102 provides channel cross sections but upper existing and 100-year flow data is unavailable so portion existing and design flows cannot be calculated in order to assess the primary indicator; (3) D0602 contains a qualitative conclusion that the upper part of the reach can convey the 100-year flow and provides a cross-section at a point in this segment to illustrate that the channel has been able to convey historic flows up to the 75-year event
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D0602

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = channel capacity, estimated 100 year flood flow. Secondary Indicators = historical flooding.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Sufficient	Good	Special status species observations	D0106	Full Support	A	Full support based on steelhead and red legged frog; additional potential support for western pond turtle
				D0111			
				D0459			
				D0465			
				D0602			
				D0609			
				D0618			
				D0620			

**Watershed: San Francisquito**

**Waterbody:** San Francisquito Creek

**Reach:** SF-5

**Reach Length (miles):** 3.86

**Reach Limits (downstream to upstream):** Los Trancos Creek to Searsville Lake

**Flow Regime:** Perennial to Intermittent

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

**Local Knowledge Comments:** Potential presence of western pond turtle in mid-watershed reaches; steelhead observed during recent surveys

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = habitat requirements for individual special status species.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	No data on primary indicator; limited data on secondary indicator (3 of 9 parameters); data on tertiary indicators present	Fair	Access, aesthetics (trash, algae), flow (depth), copper, mercury, nickel	D0039	Full support on secondary indicator but with high uncertainty due to limited data; partial support on tertiary indicator; no support statement is able to be made for primary indicator	D	No data sets are available on the primary indicators; limited support statement was developed based ONLY on secondary and tertiary indicators; data sets D0556 on secondary indicator and D0039, D0042, D0101, D0102, D0383, D0452, D0463, and D0618 on tertiary indicator provided limited data; high level of uncertainty regarding this reach due to lack of data on most water quality parameters; generally good water depth was noted; access appears to be limited; algae present
				D0042			
				D0101			
				D0102			
				D0383			
				D0452			
				D0463			
				D0556			
				D0614			
				D0618			

**Local Knowledge Comments:**

**Limiting Factor(s):** Limited public access; presence of algae

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Reach: SF/SL**

**Reach Length (miles):**

**Flow Regime: Reservoir**

**Waterbody: Searsville Lake**

**Reach Limits (downstream to upstream): Entire Reservoir**

**Generalized Land Use in Area: Rural**

**Channel Type(s): N/A**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available on primary or secondary indicators; reach is a shallow, warm-water reservoir

**Local Knowledge Comments:** Lake may be too small to support trout during the warm, late summer period. No steelhead/rainbow trout were observed during recent (1999-2001) surveys; exotic species appear to dominate, prey on native salmonids, spread downstream.

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available for either wet or dry weather

**Local Knowledge Comments:** Stanford University historically used water from Searsville for irrigation and groundwater recharge for non-potable supply wells. Data from Stanford were not made available to the assessment team.

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
PFF	No data on primary indicator (reservoir capacity, 100-year flood volume); data on secondary indicator (utility of facility for flood protection) available	Fair	Flood protection	D0602	Non Support	C	Conclusion of report from 1956 is that Searsville Lake/dam has no value as a flood control facility; storage capacity is limited and normal operation requires that the lake be filled to capacity; conclusion reconfirmed by 2001 sediment impact study; Stakeholder comment: The capacity of Searsville Lake is shrinking due to the continual trapping of sediment behind the dam.

D0621

**Watershed:** San Francisquito

**Reach:** SF/SL

**Reach Length (miles):**

**Waterbody:** Searsville Lake

**Reach Limits (downstream to upstream):** Entire Reservoir

**Flow Regime:** Reservoir

**Channel Type(s):** N/A

**Generalized Land Use in Area:** Rural

**Local Knowledge Comments:** The capacity of Searsville Lake is shrinking due to the continual trapping of sediment behind the dam. Studies are also currently underway about options to address the continuing siltation of Searsville Lake as only about twelve feet of freeboard now remain at the 64-foot high 110-year old dam.

**Limiting Factor(s):** Limited storage capacity and high water level

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Limited data	Poor	Special status species observations	D0111	Potential Support	D	Potential support based on 1941 Western leatherwood data; no recent data to support a finding of full support.

**Local Knowledge Comments:** No steelhead/rainbow trout were observed during recent (1999-2001) surveys; exotic species appear to dominate, prey on native salmonids, spread downstream.

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	No data on primary or secondary indicators; limited data on tertiary indicator (aesthetics/access)	Fair	Access	D0614	Full Support for tertiary indicator (access); no support statement is able to be made for primary and secondary indicators	C	No data sets are available on the primary, secondary indicators; limited support statement was developed based ONLY on tertiary indicator; data set D0614 provided general accessibility data

**Local Knowledge Comments:** Data from Stanford concerning recreational uses were not made available to the assessment team.

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Reach: SF/LL**

**Reach Length (miles):**

**Flow Regime: Reservoir**

**Waterbody: Lake Lagunita**

**Reach Limits (downstream to upstream): Entire Reservoir**

**Generalized Land Use in Area: Transition**

**Channel Type(s): N/A**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available on primary or secondary indicators

**Local Knowledge Comments:** No steelhead/rainbow trout were observed during recent (1999-2001) surveys; an adult steelhead was caught here (likely from diversion on SF Creek) in the early 1970s

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = fish assemblage, macro-invertebrate data. Secondary Indicators = temperature, dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge and width, altered channel materials, instream spawning habitat, instream rearing habitat, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, physical barriers to migration, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available for either wet or dry weather

**Local Knowledge Comments:** Stanford University uses water from Lagunita for irrigation and groundwater recharge for non-potable supply wells. Data from Stanford were not made available to the assessment team.

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Fecal coliform, turbidity, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, MTBE, nitrate, PCB, selenium, mercury, nickel, TDS

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
PFF	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data available on either primary or secondary indicators

**Watershed:** San Francisquito

**Reach:** SF/LL

**Reach Length (miles):**

**Waterbody:** Lake Lagunita

**Reach Limits (downstream to upstream):** Entire Reservoir

**Flow Regime:** Reservoir

**Channel Type(s):** N/A

**Generalized Land Use in Area:** Transition

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = estimated 100 year flood flow, design channel capacity. Secondary Indicators = historical flooding occurrence information.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Sufficient	Good	Special status species observations	D0111	Full Support	A	Full support based on California tiger salamander presence; additional potential support based on western pond turtle presence
				D0112			

**Local Knowledge Comments:** No steelhead/rainbow trout were observed during recent (1999-2001) surveys; an adult steelhead was caught here (likely from diversion on SF Creek) in the early 1970s

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = assemblages of special status species. Secondary Indicators = habitat requirements for individual special status species.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available on primary, secondary, or tertiary indicators

**Local Knowledge Comments:** Data from Stanford concerning recreational uses were not made available to the assessment team.

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Waterbody:** Bear Creek

**Reach:** SF/BC-1

**Reach Length (miles):** 2.53

**Reach Limits (downstream to upstream):** Confluence with San Francisquito Creek to confluence with West Union Creek **Flow Regime:** Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Transition

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Sufficient on primary indicators, additional data on secondary habitat indicators available	Good	Fish assemblage, flow, temperature, physical barriers, mercury	D0020	Partial Support	A	Probably full support but no macroinvertebrate data is available for this reach
				D0036			
				D0457			
				D0461			
				D0462			
				D0466			
				D0556			
				D0612			
				D0617			
				D0618			

**Local Knowledge Comments:** The Watershed Council has been awarded a grant by the California Department of Fish and Game to remediate two of the three Bear Creek high priority sites identified in the report "Adult Steelhead Passage in the Bear Creek Watershed" (Bear dams #1 and #3). The third high priority barrier is Woodside's bridge apron (#10) at the Fox Hollow Road crossing. Woodside has no capital improvement scheduled, so the Steelhead Taskforce will evaluate an alternative of a series of weirs downstream of the bridge. Steelhead/rainbow trout were observed throughout this reach during recent surveys (1999-2001); two steelhead (27- and 30-inch) were observed in 1995 and 1998.

**Limiting Factor(s):** Low summer streamflows and the presence of a fish passage barrier

**Suspected Cause(s):** Low summer streamflows, with portions of the channel intermittent in drier years. Channel is well-shaded, and summer water temperatures should be cool. Private groundwater pumping may be impacting summer streamflows in a naturally relatively dry watershed.

**Data Gap(s) - No Data:** Primary Indicators = macro-invertebrate data. Secondary Indicators = dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge and width, altered channel materials, instream spawning habitat, instream rearing habitat, shaded riverine aquatic habitat, riparian vegetation, chlordane, diazinon, mercury, nickel.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	Sufficient	Fair	TDS, turbidity, selenium, mercury, nickel, copper, nitrite, chlorpyrifos, diazinon	D0101	Partial Support	C	9 of 16 data types present; no QA/QC for one major data set; some uncertainty over dry/wet weather sampling (no information provided in most data sets); no data available on remaining data types
				D0556			

**Watershed: San Francisquito**

**Waterbody: Bear Creek**

**Reach: SF/BC-1**

**Reach Length (miles): 2.53**

**Reach Limits (downstream to upstream):** Confluence with San Francisquito Creek to confluence with West Union Creek **Flow Regime:** Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Transition

**Local Knowledge Comments:**

**Limiting Factor(s):** Turbidity during the winter months exceeds secondary MCL criteria (most samples exceed primary MCL)

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Fecal coliform, chlordane, DDT, diazinon, dieldrin, dioxin, MTBE, PCB, selenium

**Fair/Poor Quality Data:** Turbidity, copper, chlorpyrifos, nitrate, mercury, nickel, TDS

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
PPF	Not Sufficient	Fair	Channel cross sections, bank characteristics	D0102	Unable to Determine	N/A	D0102 provides channel cross sections but existing and 100-year flow data is unavailable so existing and design flows cannot be calculated in order to assess the primary indicator

**Local Knowledge Comments:**

**Limiting Factor(s):** None identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = estimated 100 year flood flow, design channel capacity. Secondary Indicators = historical flooding occurrence information.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Sufficient	Good	Special status species observations; Habitat	D0602 D0617 D0618 D0620	Full Support	A	Full support based on steelhead presence

**Local Knowledge Comments:** Potential presence of western pond turtle in mid-watershed reaches; steelhead observed during recent surveys

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed:** San Francisquito

**Waterbody:** Bear Creek

**Reach:** SF/BC-1

**Reach Length (miles):** 2.53

**Reach Limits (downstream to upstream):** Confluence with San Francisquito Creek to confluence with West Union Creek **Flow Regime:** Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Transition

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	No data on primary indicator; limited data on secondary indicator (3 of 9 parameters); data on tertiary indicators present	Fair	Access, flow (depth), copper, mercury, nickel	D0038  D0102 D0463 D0556 D0618	Non Support on secondary indicator but with high uncertainty due to limited data; Full Support on tertiary indicator (flow); no support statement is able to be made for primary indicator	D	No data sets are available on the primary indicators; limited support statement was developed based ONLY on secondary and tertiary indicators; data sets D0556 on secondary indicator and D0038, D0102, D0463, and D0618 on tertiary indicator provided limited data; high level of uncertainty regarding this reach due to lack of data on most water quality parameters; generally good water depth was noted

**Local Knowledge Comments:** Well permit data for the watershed have been obtained as a follow-up to concerns about base flow depletion raised by the recent Regional Board draft report on the South Bay Groundwater Basins (January 2002).

**Limiting Factor(s):** Mercury concentration exceeds criteria

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Reach: SF/BC-2**

**Reach Length (miles): 2.23**

**Waterbody: Dry Creek**  
**Reach Limits (downstream to upstream): Entire Creek**

**Flow Regime: Ephemeral to Intermittent**

**Channel Type(s): Natural Unmodified**

**Generalized Land Use in Area: Transition**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Sufficient on primary indicators, additional data on secondary habitat indicators available	Good	Fish assemblage, physical barriers	D0438	Partial Support	A	Juvenile steelhead sometimes present in early summer but this reach is dry by end of summer for all but the wettest years; no macroinvertebrate data available
				D0617			

**Local Knowledge Comments:** At the time fieldwork was done for the steelhead passage report, landowner permissions were not obtained for access to Dry Creek. Juvenile steelhead/rainbow trout were present 50 feet upstream of the Woodside Road crossing in 1999.

**Limiting Factor(s):** Reach is ephemeral; barriers

**Suspected Cause(s):** Small, dry watershed, with substrate dominated by sand. Unlikely to support significant steelhead rearing, though some juvenile presence has been noted, even in wet years due to lack of surface flow by fall. This is a case where the limiting factors are primarily natural.

**Data Gap(s) - No Data:** Primary Indicators = macro-invertebrate data. Secondary Indicators = temperature, dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge and width, altered channel materials, instream spawning habitat, instream rearing habitat, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available for either wet or dry weather

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Fecal coliform, turbidity, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, MTBE, nitrate, PCB, selenium, mercury, nickel, TDS

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
PFF	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data available on either primary or secondary indicators

**Watershed:** San Francisquito

**Reach:** SF/BC-2

**Reach Length (miles):** 2.23

**Waterbody:** Dry Creek  
**Reach Limits (downstream to upstream):** Entire Creek

**Flow Regime:** Ephemeral to Intermittent

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Transition

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = estimated 100 year flood flow, design channel capacity. Secondary Indicators = historical flooding occurrence information.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data available

**Local Knowledge Comments:** Juvenile steelhead/rainbow trout were present 50 feet upstream of the Woodside Road crossing in 1999.

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = assemblages of special status species, special status species. Secondary Indicators = habitat requirements for individual special status species.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available on primary, secondary, or tertiary indicators

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Waterbody:** Bear Gulch

**Reach:** SF/BC-3

**Reach Length (miles):** 0.89

**Reach Limits (downstream to upstream):** Confluence with West Union Creek to Bear Gulch diversion dam

**Flow Regime:** Intermittent

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Sufficient on primary indicators, additional data on secondary habitat indicators available	Good	Fish assemblage, physical barriers	D0020	Partial Support	A	Lack of macroinvertebrate data; much of reach is ephemeral or intermittent; steelhead present in portions of reach during wet years
				D0438			
				D0462			
				D0466			
				D0617			

**Local Knowledge Comments:** Discussions with Cal Water about the Bear Gulch Diversion Dam are being explored by the Watershed Council, the California Department of Fish and Game and the Department of Water Resources. The dam is considered a high priority for remediation. Steelhead/rainbow trout present throughout reach during recent (1999-2001) surveys; a 31-inch steelhead was relocated from downstream of the SR 84 culvert in June of 1999 - important habitat.

**Limiting Factor(s):** Low summer stream flow

**Suspected Cause(s):** Low summer streamflows, with portions of the channel intermittent in drier years. Channel is well-shaded, and summer water temperatures should be cool. Private groundwater pumping may be impacting summer streamflows in a naturally relatively dry watershed. Major diversion for domestic water upstream reduces streamflows.

**Data Gap(s) - No Data:** Primary Indicators = macro-invertebrate data. Secondary Indicators = temperature, dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge and width, altered channel materials, instream spawning habitat, instream rearing habitat, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available for either wet or dry weather

**Local Knowledge Comments:** Data from Cal Water were not available for use in the assessment.

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Fecal coliform, turbidity, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, MTBE, nitrate, PCB, selenium, mercury, nickel, TDS

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
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**Watershed: San Francisquito**

**Waterbody:** Bear Gulch

**Reach:** SF/BC-3

**Reach Length (miles):** 0.89

**Reach Limits (downstream to upstream):** Confluence with West Union Creek to Bear Gulch diversion dam

**Flow Regime:** Intermittent

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

PFF	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data available on either primary or secondary indicators
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**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = estimated 100 year flood flow, design channel capacity. Secondary Indicators = historical flooding occurrence information.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Sufficient	Good	Special status species observations; Habitat	D0457 D0602 D0617	Full Support	B	Full support based on steelhead habitat and presence

**Local Knowledge Comments:** Steelhead/rainbow trout present throughout reach during recent (1999-2001) surveys; a 31-inch steelhead was relocated from downstream of the SR 84 culvert in June of 1999 - important habitat.

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	No data on primary or secondary indicators; insufficient data on tertiary indicators present	Poor	Aesthetics (trash, algae), flow (depth)	D0452	Unable to Determine	N/A	No data available on primary or secondary indicators; limited data on tertiary indicators is too isolated to be used as the basis for a support statement

**Watershed:** San Francisquito

**Waterbody:** Bear Gulch

**Reach:** SF/BC-3

**Reach Length (miles):** 0.89

**Reach Limits (downstream to upstream):** Confluence with West Union Creek to Bear Gulch diversion dam

**Flow Regime:** Intermittent

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Waterbody:** Bear Gulch

**Reach:** SF/BC-4

**Reach Length (miles):** 3.20

**Reach Limits (downstream to upstream):** Entire Creek above Bear Gulch diversion dam

**Flow Regime:** Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Sufficient on primary indicators, additional data on secondary habitat indicators available	Good	Fish assemblage	D0438 D0466 D0617	Partial Support	B	Probably full support but lacks macroinvertebrate data to make this determination; resident rainbow trout present

**Local Knowledge Comments:** Steelhead/rainbow trout present from the diversion dam upstream 0.4 miles to natural falls; this reach has some of the best salmonid habitat in the watershed with good summer flow but much is inaccessible to steelhead.

**Limiting Factor(s):** None Identified

**Suspected Cause(s):** Cool, relatively abundant summer streamflows. Probably fully supports use.

**Data Gap(s) - No Data:** Primary Indicators = macro-invertebrate data. Secondary Indicators = temperature, dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge and width, altered channel materials, instream spawning habitat, instream rearing habitat, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, physical barriers to migration, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available for either wet or dry weather

**Local Knowledge Comments:** The Bear Gulch diversion dam provides water to a municipal drinking water supply owned by California Water Service; this water is blended with other sources and treated prior to being delivered to consumers

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Fecal coliform, turbidity, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, MTBE, nitrate, PCB, selenium, mercury, nickel, TDS

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
PFF	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data available on either primary or secondary indicators

**Watershed:** San Francisquito

**Waterbody:** Bear Gulch

**Reach:** SF/BC-4

**Reach Length (miles):** 3.20

**Reach Limits (downstream to upstream):** Entire Creek above Bear Gulch diversion dam

**Flow Regime:** Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = estimated 100 year flood flow, design channel capacity. Secondary Indicators = historical flooding occurrence information.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Sufficient	Fair	Special status species observations; Habitat	D0602 D0617	Full Support	C	Full support due to steelhead habitat and presence

**Local Knowledge Comments:** Steelhead/rainbow trout present from the diversion dam upstream 0.4 miles to natural falls; this reach has some of the best salmonid habitat in the watershed with good summer flow but much is inaccessible to steelhead.

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = assemblages of special status species.

**Fair/Poor Quality Data:** Secondary Indicators = habitat requirements for individual special status species, special status species.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	No data on primary or secondary indicators; insufficient data on tertiary indicators present	Poor	Flow (depth)	D0452	Unable to Determine	N/A	No data available on primary or secondary indicators; limited data on tertiary indicators is too isolated to be used as the basis for a support statement

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Waterbody:** West Union Creek

**Reach:** SF/WU-1

**Reach Length (miles):** 1.37

**Reach Limits (downstream to upstream):** Confluence with Bear Gulch/Bear Creek to Huddart Park (confluence with Squealer Gulch)

**Flow Regime:** Intermittent

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Transition

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Sufficient on primary indicators, additional data on secondary habitat indicators available	Fair	Fish assemblage, physical barriers	D0020 D0462 D0556 D0617	Partial Support	B	Pools present during most summers; could be full support but lacks macroinvertebrate data to make this determination; barriers may be a problem during dry winters; portions of reach are intermittent except during very wet years

**Local Knowledge Comments:** The steelhead passage report assigns low to moderate priority for remediation to the barriers in West Union Creek with the CalTrans bridge apron (#17) at Highway 84 deemed the most important. At this time, CalTrans has no maintenance improvement planned at that site. Steelhead/rainbow trout found throughout this reach during recent surveys (1999-2001); important spawning and rearing habitat in this reach.

**Limiting Factor(s):** Low summer streamflows; possible barriers

**Suspected Cause(s):** Low summer streamflows, with portions of the channel intermittent in drier years. Channel is well-shaded, and summer water temperatures should be cool. Private groundwater pumping may be impacting summer streamflows in a naturally relatively dry watershed.

**Data Gap(s) - No Data:** Primary Indicators = macro-invertebrate data. Secondary Indicators = temperature, dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge and width, altered channel materials, instream spawning habitat, instream rearing habitat, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, chlordane, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury.

**Fair/Poor Quality Data:** Primary Indicators = fish assemblage.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	Sufficient	Fair	Nitrite, copper, chlorpyrifos, diazinon, selenium, mercury, nickel	D0556	Full Support	D	Questions regarding quality of data, protocols and methods; only one study and one station covering 7 of 16 parameters

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Fecal coliform, turbidity, chlordane, DDT, dieldrin, dioxin, MTBE, PCB, TDS

**Fair/Poor Quality Data:** Copper, chlorpyrifos, diazinon, nitrate, selenium, mercury, nickel

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
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**Watershed: San Francisquito**

**Waterbody:** West Union Creek

**Reach:** SF/WU-1

**Reach Length (miles):** 1.37

**Reach Limits (downstream to upstream):** Confluence with Bear Gulch/Bear Creek to Huddart Park (confluence with Squealer Gulch)

**Flow Regime:** Intermittent

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Transition

PFF	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data available on either primary or secondary indicators
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**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = estimated 100 year flood flow, design channel capacity. Secondary Indicators = historical flooding occurrence information.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Sufficient	Good	Special status species observations; Habitat	D0457 D0602 D0617	Full Support	B	Full support based on steelhead habitat and presence

**Local Knowledge Comments:** Potential presence of western pond turtle in mid-watershed reaches; steelhead observed during recent surveys

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	No data on primary indicator; limited data on secondary indicator (3 of 9 parameters); data on tertiary indicators present	Fair	Access, aesthetics (trash, algae), flow (depth), copper, mercury, nickel	D0452	Full Support on secondary indicator but with high uncertainty due to limited data; Seasonal Support on tertiary indicators (flow and aesthetics); no support statement is able to be made for primary indicator	D	No data sets are available on the primary indicators; limited support statement was developed based ONLY on secondary and tertiary indicators; data sets D0556 on secondary indicator and D0452 on tertiary indicators provided limited data; high level of uncertainty regarding this reach due to lack of data on most water quality parameters; low summer flow may adversely impact recreation value, as may observed pollution problems -- data was not repeated so this could have been a one-time incident
				D0556			

**Watershed:** San Francisquito

**Waterbody:** West Union Creek

**Reach:** SF/WU-1

**Reach Length (miles):** 1.37

**Reach Limits (downstream to upstream):** Confluence with Bear Gulch/Bear Creek to Huddart Park (confluence with Squealer Gulch)

**Flow Regime:** Intermittent

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Transition

**Local Knowledge Comments:** The San Francisquito Watershed Council is currently corresponding with the San Mateo County Board of Supervisors regarding low flows in West Union Creek.

**Limiting Factor(s):** Low/discontinuous summer flow; possible pollution problems

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Waterbody:** West Union Creek

**Reach:** SF/WU-2

**Reach Length (miles):** 3.09

**Reach Limits (downstream to upstream):** Entire Watershed above Squealer Gulch

**Flow Regime:** Intermittent to Ephemeral

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Sufficient on primary indicators, additional data on secondary habitat indicators available	Fair	Fish assemblage, physical barriers	D0020 D0438 D0462 D0466 D0617	Partial Support	B	Could be full support but lacks macroinvertebrate data to make this determination; portions of reach intermittent or dry except in the wettest years

**Local Knowledge Comments:** The steelhead passage report assigns low to moderate priority for remediation to the barriers in West Union Creek with the CalTrans bridge apron (#17) at Highway 84 deemed the most important. At this time, CalTrans has no maintenance improvement planned at that site. Steelhead/rainbow trout found upstream to the falls and 150 feet upstream of the Huddart Park boundary during recent surveys (1999-2001); important spawning and rearing habitat in this reach, GGNRA steelhead surveys are available.

**Limiting Factor(s):** Low summer streamflows; possible barriers

**Suspected Cause(s):** Low summer streamflows, with portions of the channel intermittent in drier years. Channel is well-shaded, and summer water temperatures should be cool. Private groundwater pumping may be impacting summer streamflows in a naturally relatively dry watershed.

**Data Gap(s) - No Data:** Primary Indicators = macro-invertebrate data. Secondary Indicators = temperature, dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge and width, altered channel materials, instream spawning habitat, instream rearing habitat, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, physical barriers to migration, chlordane, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury.

**Fair/Poor Quality Data:** Primary Indicators = fish assemblage. Secondary Indicators = nickel, copper.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	Sufficient but limited	Fair	TDS, turbidity	D0101	Partial Support	D	Very limited data (2 of 16 parameters); some question regarding accuracy of some results leads to high uncertainty

**Local Knowledge Comments:**

**Limiting Factor(s):** Data indicate that turbidity exceeds criteria during winter months

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Fecal coliform, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, MTBE, nitrate, PCB, selenium, mercury, nickel

**Fair/Poor Quality Data:** TDS, turbidity

**Watershed: San Francisquito**

**Waterbody:** West Union Creek

**Reach:** SF/WU-2

**Reach Length (miles):** 3.09

**Reach Limits (downstream to upstream):** Entire Watershed above Squealer Gulch

**Flow Regime:** Intermittent to Ephemeral

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
PFF	Not Sufficient	Fair	Channel cross sections, bank characteristics	D0102	Unable to Determine	N/A	D0102 provides channel cross sections but existing and 100-year flow data is unavailable so existing and design flows cannot be calculated in order to assess the primary indicator

**Local Knowledge Comments:**

**Limiting Factor(s):** None identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = estimated 100 year flood flow, design channel capacity. Secondary Indicators = historical flooding occurrence information.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Limited data on habitat; no data on species presence	Good	Habitat	D0602	Unable to Determine	N/A	Data suggests suitable habitat for steelhead in lower portion of reach; no data on species observation; unable to make a support statement

**Local Knowledge Comments:** Steelhead/rainbow trout found upstream to the falls and 150 feet upstream of the Huddart Park boundary during recent surveys (1999-2001); important spawning and rearing habitat in this reach, GGNRA steelhead surveys are available.

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = assemblages of special status species, special status species.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	No data on primary or secondary indicators; insufficient data on tertiary indicator (aesthetics/access)	Fair	Aesthetics (trash, algae), flow (depth), access	D0102  D0452	Seasonal Support for tertiary indicators (flow, access); no support statement is able to be made for primary and secondary indicators	D	No data sets are available on the primary, secondary indicators; limited support statement was developed based ONLY on tertiary indicator; data set D0102 and D0452 provided general flow and accessibility data

**Watershed:** San Francisquito

**Waterbody:** West Union Creek

**Reach:** SF/WU-2

**Reach Length (miles):** 3.09

**Reach Limits (downstream to upstream):** Entire Watershed above Squealer Gulch

**Flow Regime:** Intermittent to Ephemeral

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

**Local Knowledge Comments:** The San Francisquito Watershed Council is currently corresponding with the San Mateo County Board of Supervisors regarding low flows in West Union Creek.

**Limiting Factor(s):** Upper portion of reach is dry during low flow season

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Reach: SF/WU-3**

**Reach Length (miles): 1.23**

**Waterbody: Appletree Gulch**  
**Reach Limits (downstream to upstream): Entire Creek**

**Flow Regime: Ephemeral**

**Channel Type(s): Natural Unmodified**

**Generalized Land Use in Area: Rural**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Limited but sufficient on primary indicator	Fair	Fish assemblage	D0438	Non Support	A	Reach is dry in summer

**Local Knowledge Comments:** These findings are an artifact of a methodology that presupposes that all four beneficial uses apply to all reaches.

**Limiting Factor(s):** Reach is ephemeral

**Suspected Cause(s):** Naturally small, dry watershed. Winter streamflow only. Limiting factors are primarily natural.

**Data Gap(s) - No Data:** Primary Indicators = macro-invertebrate data. Secondary Indicators = temperature, dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge and width, altered channel materials, instream spawning habitat, instream rearing habitat, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, physical barriers to migration, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel.

**Fair/Poor Quality Data:** Primary Indicators = fish assemblage.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available for either wet or dry weather

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Fecal coliform, turbidity, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, MTBE, nitrate, PCB, selenium, mercury, nickel, TDS

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
PFF	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data available on either primary or secondary indicators

**Watershed:** San Francisquito

**Reach:** SF/WU-3

**Reach Length (miles):** 1.23

**Waterbody:** Appletree Gulch  
**Reach Limits (downstream to upstream):** Entire Creek

**Flow Regime:** Ephemeral

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = estimated 100 year flood flow, design channel capacity. Secondary Indicators = historical flooding occurrence information.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	None	N/A		No Data Sets	Unable to Determine	N/A	No data available

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = assemblages of special status species, special status species. Secondary Indicators = habitat requirements for individual special status species.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	None	N/A		No data sets	Unable to Determine	N/A	No data available on primary, secondary, or tertiary indicators

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Reach: SF/WU-4**

**Reach Length (miles): 1.39**

**Waterbody: Tripp Gulch**  
**Reach Limits (downstream to upstream): Entire Creek**

**Flow Regime: Ephemeral**

**Channel Type(s): Natural Unmodified**

**Generalized Land Use in Area: Rural**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Limited but sufficient on primary indicator	Fair	Fish assemblage	D0438	Non Support	A	Reach is dry in summer

**Local Knowledge Comments:** These findings are an artifact of a methodology that presupposes that all four beneficial uses apply to all reaches.

**Limiting Factor(s):** Reach is ephemeral

**Suspected Cause(s):** Naturally small, dry watershed. Winter streamflow only. Limiting factors are primarily natural.

**Data Gap(s) - No Data:** Primary Indicators = macro-invertebrate data. Secondary Indicators = temperature, dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge and width, altered channel materials, instream spawning habitat, instream rearing habitat, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, physical barriers to migration, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel.

**Fair/Poor Quality Data:** Primary Indicators = fish assemblage.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available for either wet or dry weather

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Fecal coliform, turbidity, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, MTBE, nitrate, PCB, selenium, mercury, nickel, TDS

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
PFF	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data available on either primary or secondary indicators

**Watershed:** San Francisquito

**Reach:** SF/WU-4

**Reach Length (miles):** 1.39

**Waterbody:** Tripp Gulch  
**Reach Limits (downstream to upstream):** Entire Creek

**Flow Regime:** Ephemeral

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = estimated 100 year flood flow, design channel capacity. Secondary Indicators = historical flooding occurrence information.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	None	N/A		No Data Sets	Unable to Determine	N/A	No data available

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = assemblages of special status species, special status species. Secondary Indicators = habitat requirements for individual special status species.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	None	N/A		No data sets	Unable to Determine	N/A	No data available on primary, secondary, or tertiary indicators

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Waterbody:** Squealer Gulch  
**Reach Limits (downstream to upstream):** Entire Creek

**Reach:** SF/WU-5

**Reach Length (miles):** 2.42

**Flow Regime:** Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Limited but sufficient on primary indicator	Fair	Fish assemblage	D0438	Partial Support	A	Could be full support with macroinvertebrate data though upper part of reach is steep and impassable to steelhead upstream

**Local Knowledge Comments:** No steelhead/rainbow trout were observed during recent (1999-2001) surveys (only one short field trip)

**Limiting Factor(s):** Low summer streamflows; natural barriers present in upper part of reach

**Suspected Cause(s):** Small spring-fed stream, which presently sustains flows throughout year. Suitable for small juvenile steelhead. California giant salamanders present in the steeper, fishless portions of the stream.

**Data Gap(s) - No Data:** Primary Indicators = macro-invertebrate data. Secondary Indicators = temperature, dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge and width, altered channel materials, instream spawning habitat, instream rearing habitat, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, physical barriers to migration, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel.

**Fair/Poor Quality Data:** Primary Indicators = fish assemblage.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available for either wet or dry weather

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Fecal coliform, turbidity, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, MTBE, nitrate, PCB, selenium, mercury, nickel, TDS

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
PFF	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data available on either primary or secondary indicators

**Watershed: San Francisquito**

**Reach: SF/WU-5**

**Reach Length (miles): 2.42**

**Waterbody: Squealer Gulch**  
**Reach Limits (downstream to upstream): Entire Creek**

**Flow Regime: Perennial**

**Channel Type(s): Natural Unmodified**

**Generalized Land Use in Area: Rural**

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = estimated 100 year flood flow, design channel capacity. Secondary Indicators = historical flooding occurrence information.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Limited data on habitat; no data on species presence	Good	Habitat	D0602	Unable to Determine	N/A	Data suggests suitable habitat for steelhead in lower portion of reach; no data on species observation; unable to make a support statement
				D0617			

**Local Knowledge Comments:** No steelhead/rainbow trout were observed during recent (1999-2001) surveys (only one short field trip)

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = assemblages of special status species, special status species.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	No data on primary or secondary indicators; limited data on tertiary indicator (aesthetics/access)	Fair	Aesthetics (trash, algae), flow (depth)	D0452	Non Support for tertiary indicator (aesthetics); no support statement is able to be made for primary and secondary indicators	B	No data sets are available on the primary, secondary indicators; limited support statement was developed based ONLY on tertiary indicator; data set D0452 provided general flow and aesthetics data; flow data indicates likelihood of seasonal support

**Local Knowledge Comments:**

**Limiting Factor(s):** Debris located in the stream channel; upper portion of reach has no summer streamflow

**Suspected Cause(s):** Debris (car body) in stream channel (illegal dumping); streamflow is naturally ephemeral in upper portion of reach.

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Reach: SF/WU-6**

**Reach Length (miles): 1.78**

**Waterbody: McGarvey Gulch**  
**Reach Limits (downstream to upstream): Entire Creek**

**Flow Regime: Ephemeral to Intermittent**

**Channel Type(s): Natural Unmodified**

**Generalized Land Use in Area: Rural**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Limited but sufficient on primary indicator	Fair	Fish assemblage	D0438	Partial Support	C	Reach is intermittent or dry in late summer except in very wet years; natural barriers exist in upper part of reach

**Local Knowledge Comments:** Steelhead/rainbow trout observed from the West Union Creek confluence 0.3 miles upstream during recent (1999-2001) surveys; important rearing habitat for juvenile steelhead

**Limiting Factor(s):** Low summer streamflows

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = macro-invertebrate data. Secondary Indicators = temperature, dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge and width, altered channel materials, instream spawning habitat, instream rearing habitat, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, physical barriers to migration, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel.

**Fair/Poor Quality Data:** Primary Indicators = fish assemblage.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available for either wet or dry weather

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Fecal coliform, turbidity, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, MTBE, nitrate, PCB, selenium, mercury, nickel, TDS

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
PFF	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data available on either primary or secondary indicators

**Watershed:** San Francisquito

**Reach:** SF/WU-6

**Reach Length (miles):** 1.78

**Waterbody:** McGarvey Gulch  
**Reach Limits (downstream to upstream):** Entire Creek

**Flow Regime:** Ephemeral to Intermittent

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = estimated 100 year flood flow, design channel capacity. Secondary Indicators = historical flooding occurrence information.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Limited data on habitat; no data on species presence	Good	Habitat	D0602	Unable to Determine	N/A	Data suggests suitable habitat for steelhead in lower portion of reach; no data on species observation; unable to make a support statement
				D0617			

**Local Knowledge Comments:** Steelhead/rainbow trout observed from the West Union Creek confluence 0.3 miles upstream during recent (1999-2001) surveys; important rearing habitat for juvenile steelhead

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = assemblages of special status species, special status species.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available on primary, secondary, or tertiary indicators

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Waterbody:** Corte Madera Creek

**Reach:** SF/CM-1

**Reach Length (miles):** 3.97

**Reach Limits (downstream to upstream):** Searsville Lake to Hamms Gulch

**Flow Regime:** Perennial

**Channel Type(s):** Natural Modified

**Generalized Land Use in Area:** Transition

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Sufficient on primary indicators, additional data on secondary habitat indicators available	Fair	Fish assemblage, streambank erosion potential, macroinvertebrates	D0020 D0556 D0614 D0624 D0625	Full Support	C	Macroinvertebrate data meets criteria; fish presence data is limited within reach, leads to higher uncertainty

**Local Knowledge Comments:** Steelhead/rainbow trout observed throughout this reach during recent surveys (1999-2001) but are most abundant in upper reach (upstream of Westridge Bridge)

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = temperature, dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge and width, altered channel materials, instream spawning habitat, instream rearing habitat, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, physical barriers to migration, chlordane, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury.

**Fair/Poor Quality Data:** Primary Indicators = fish assemblage, macro-invertebrate data. Secondary Indicators = copper, nickel.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	Sufficient	Fair	TDS, turbidity, nitrite, copper, chlorpyrifos, diazinon, selenium, mercury, nickel	D0101 D0556	Non Support	C	Data on 8 of 16 parameters; only two studies with poor QA/QC; generally not able to distinguish between wet and dry weather samples

**Local Knowledge Comments:**

**Limiting Factor(s):** Turbidity problems throughout year; TDS exceedances during summer

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Fecal coliform, chlordane, DDT, dieldrin, dioxin, MTBE, PCB

**Fair/Poor Quality Data:** Turbidity, copper, chlorpyrifos, diazinon, nitrate, selenium, mercury, nickel, TDS

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
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**Watershed: San Francisquito**

**Waterbody:** Corte Madera Creek

**Reach:** SF/CM-1

**Reach Length (miles):** 3.97

**Reach Limits (downstream to upstream):** Searsville Lake to Hamms Gulch

**Flow Regime:** Perennial

**Channel Type(s):** Natural Modified

**Generalized Land Use in Area:** Transition

PFF	Not Sufficient for Primary Indicator; Sufficient for Secondary Indicator	Fair	Channel cross sections, historic flooding, erosion detail	D0102	Partial Support	B	(1) D0102 provides channel cross sections but existing and 100-year flow data is unavailable so existing and design flows cannot be calculated in order to assess the primary indicator; the model used in D0555 could be used to evaluate 1% flood capacity of channel but data is not included in report; (2) D0555 and D0614 describe recent flooding events at a specific location in a residential area; no data to indicate flow frequency, but certainly less than 100-year event; (3) conclusions in D0614 regarding erosion and depositional environment within reach likely indicates that the channel can convey large flows without overbank flow except in the specific location described above
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D0555  
D0614

**Local Knowledge Comments:** These issues are part of continuing discussions between the residents and Stanford University.

**Limiting Factor(s):** Inadequate capacity to convey flows at Cooper's Corner on Family Farm Road overcrossing

**Suspected Cause(s):** Creek does not have sufficient flow capacity in the main channel to convey major flood flows; probable cause is residential/urban encroachment into stream channel or an undersized stream crossing. Data indicates that the channel can likely convey large flows without overbank flow except in the specific location described above.

**Data Gap(s) - No Data:** Primary Indicators = estimated 100 year flood flow. Secondary Indicators = historical flooding occurrence information.

**Fair/Poor Quality Data:** Primary Indicators = design channel capacity.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Limited data on habitat; no data on species presence	Good	Habitat	D0602	Unable to Determine	N/A	Data suggests suitable habitat for rainbow trout; no data on species observation; unable to make a support statement

**Local Knowledge Comments:** Potential presence of western pond turtle in mid-watershed reaches; steelhead observed during recent surveys

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = assemblages of special status species, special status species.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
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**Watershed:** San Francisquito

**Waterbody:** Corte Madera Creek

**Reach:** SF/CM-1

**Reach Length (miles):**

3.97

**Reach Limits (downstream to upstream):** Searsville Lake to Hamms Gulch

**Flow Regime:** Perennial

**Channel Type(s):** Natural Modified

**Generalized Land Use in Area:** Transition

REC-1	No data on primary indicator; limited data on secondary indicator (3 of 9 parameters); data on tertiary indicators present	Fair	Aesthetics (trash, algae), nickel, mercury, copper	D0102	Full Support on secondary indicators	D	No data sets are available on primary indicators; D0556 indicates support on secondary indicators but with high uncertainty due to lack of many parameters; other data on tertiary indicator is inconclusive
				D0556			

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Waterbody:** Sausal Creek

**Reach:** SF/SC-1

**Reach Length (miles):** 2.72

**Reach Limits (downstream to upstream):** Terminus near wetlands above Searsville Lake to source

**Flow Regime:** Ephemeral

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Transition

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available on primary or secondary indicators

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = fish assemblage, macro-invertebrate data. Secondary Indicators = temperature, dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge and width, altered channel materials, instream spawning habitat, instream rearing habitat, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, physical barriers to migration, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available for either wet or dry weather

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Fecal coliform, turbidity, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, MTBE, nitrate, PCB, selenium, mercury, nickel, TDS

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
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**Watershed: San Francisquito**

**Waterbody:** Sausal Creek

**Reach:** SF/SC-1

**Reach Length (miles):** 2.72

**Reach Limits (downstream to upstream):** Terminus near wetlands above Searsville Lake to source

**Flow Regime:** Ephemeral

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Transition

PFF	None on primary indicators; sufficient on secondary indicators	Good	Historic flooding; erosion detail	D0555	Partial Support	B	(1) No data available on primary indicators; (2) D0555 and D0614 describe recent flooding at one location at lower end of reach; unclear what flow level this corresponds to, certainly less than 100-year event; (3) D0614 characterizes upper portion of reach as being deeply incised and eroding; from this, it is concluded that the reach can likely convey the 1% flow without overbank flooding (4) section that drains into large willow swamp at the upstream end of the Searsville Lake could cause floodwaters to backup through the creek over to Portola Road; This general conclusion was made based on data set D0640 from the USGS topographic map for the Searsville Lake area and the observation made by Anne Resenthal during the flood event on 2/6/98 (Palo Alto Weekly, Feb. 18, 1998).
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D0614  
D0640

**Local Knowledge Comments:** These issues are part of continuing discussions between the residents and Stanford University.

**Limiting Factor(s):** Inadequate capacity to convey flows at Family Farm Road overcrossing

**Suspected Cause(s):** Creek does not have sufficient flow capacity in the main channel to convey major flood flows; probable cause is residential/urban encroachment into stream channel or an undersized stream crossing; the lower end of this reach drains into a large willow swamp at the upstream end of Searsville Lake, which could cause floodwaters to back up through the creek over to Portola Road. Data indicates that the channel can likely convey large flows without overbank flow except in the specific location described above.

**Data Gap(s) - No Data:** Primary Indicators = estimated 100 year flood flow, design channel capacity.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data available

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = assemblages of special status species. Secondary Indicators = habitat requirements for individual special status species.

**Fair/Poor Quality Data:**

**Watershed:** San Francisquito

**Waterbody:** Sausal Creek

**Reach:** SF/SC-1

**Reach Length (miles):** 2.72

**Reach Limits (downstream to upstream):** Terminus near wetlands above Searsville Lake to source

**Flow Regime:** Ephemeral

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Transition

<b>Use/Interest</b>	<b>Data Quantity</b>	<b>Data Quality</b>	<b>Criteria Used</b>	<b>Data Sets Used</b>	<b>Support Status</b>	<b>Uncertainty Level</b>	<b>Assessment Comments</b>
REC-1	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available on primary, secondary, or tertiary indicators

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Reach: SF/SC-2**

**Reach Length (miles): 1.48**

**Waterbody: Dennis Martin Creek**  
**Reach Limits (downstream to upstream): Entire Creek**

**Flow Regime: Ephemeral**

**Channel Type(s): Natural Unmodified**

**Generalized Land Use in Area: Rural**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	None	N/A		No data sets	Unable to Determine	N/A	No data available on primary or secondary indicators

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = fish assemblage, macro-invertebrate data. Secondary Indicators = temperature, dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge and width, altered channel materials, instream spawning habitat, instream rearing habitat, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, physical barriers to migration, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	None	N/A		No data sets	Unable to Determine	N/A	No data available for either wet or dry weather

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Fecal coliform, turbidity, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, MTBE, nitrate, PCB, selenium, mercury, nickel, TDS

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
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**Watershed:** San Francisquito

**Reach:** SF/SC-2

**Reach Length (miles):** 1.48

**Waterbody:** Dennis Martin Creek  
**Reach Limits (downstream to upstream):** Entire Creek

**Flow Regime:** Ephemeral

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

PFF	None on primary indicators; qualitative description on secondary indicator	Good	Erosion detail	D0614	Partial Support	C	(1) No data available on primary indicators; (2) D0614 describes reach as incised and sediment producing; is therefore likely to convey high flows such as the 1% (3) section that drains into large willow swamp at the upstream end of the Searsville Lake could cause floodwaters to backup through the creek over to Portola Road; This general conclusion was made based on data set D0640 from the USGS topographic map for the Searsville Lake area and the observation made by Anne Resenthal during the flood event on 2/6/98 (Palo Alto Weekly, Feb. 18, 1998).
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D0640

**Local Knowledge Comments:**

**Limiting Factor(s):** Inadequate capacity to convey flows

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = estimated 100 year flood flow, design channel capacity.

**Fair/Poor Quality Data:** Secondary Indicators = historical flooding occurrence information.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data available

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = assemblages of special status species, special status species. Secondary Indicators = habitat requirements for individual special status species.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available on primary, secondary, or tertiary indicators

**Waterbody:** Dennis Martin Creek  
**Reach Limits (downstream to upstream):** Entire Creek  
**Channel Type(s):** Natural Unmodified

**Watershed:** San Francisquito  
**Reach:** SF/SC-2

**Reach Length (miles):** 1.48  
**Flow Regime:** Ephemeral

**Generalized Land Use in Area:** Rural

**Local Knowledge Comments:**  
**Limiting Factor(s):** None Identified  
**Suspected Cause(s):**  
**Data Gap(s) - No Data:**  
**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Waterbody:** Los Trancos Creek

**Reach:** SF/LT-1

**Reach Length (miles):** 3.60

**Reach Limits (downstream to upstream):** San Francisquito Creek confluence to confluence with Buckeye Creek in Palo Alto **Flow Regime:** Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Transition

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Sufficient on primary indicators, additional data on secondary habitat indicators available	Fair	Fish assemblage, flow, temperature, physical barriers, riparian vegetation, channel substrate, width/depth, instream spawning habitat, shaded habitat, depth, macroinvertebrates, dissolved oxygen, turbidity	D0020	Full Support	B	Macroinvertebrate data supports at 3 sites during a very wet year (1998); steelhead are regularly present; low summer streamflows may affect support level during some years
				D0036			
				D0041			
				D0311			
				D0312			
				D0315			
				D0413			
				D0438			
				D0461			
				D0466			
				D0556			
				D0578			
				D0582			
				D0618			
				D0624			
				D0625			

**Local Knowledge Comments:** Steelhead/rainbow trout found throughout this reach during recent surveys (1999-2001); good spawning and rearing habitat for steelhead; diversion dam limits flow downstream and migration upstream.

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = fish assemblage. Secondary Indicators = TSS, turbidity, width to depth ratio, bankfull, stage, discharge and width, altered channel materials, instream spawning habitat, instream rearing habitat, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel.

**Fair/Poor Quality Data:** Secondary Indicators = dissolved oxygen, shaded riverine aquatic habitat, riparian vegetation.

**Watershed: San Francisquito**

**Waterbody:** Los Trancos Creek

**Reach:** SF/LT-1

**Reach Length (miles):** 3.60

**Reach Limits (downstream to upstream):** San Francisquito Creek confluence to confluence with Buckeye Creek in Palo Alto

**Flow Regime:** Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Transition

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	Sufficient	Fair	TDS, turbidity, nitrite, copper, chlorpyrifos, diazinon, selenium, mercury, nickel, nitrate	D0101	Non Support	B	Data on 11 of 16 parameters; questionable data quality in some cases; generally not able to distinguish between wet and dry weather samples; good quality sampling in 1994 and 95 but no other years for that data set
				D0233			
				D0556			
				D0578			
				D0582			

**Local Knowledge Comments:** Stanford University uses water from Los Trancos for irrigation and groundwater recharge for non-potable supply wells

**Limiting Factor(s):** TDS in summer; turbidity in winter

**Suspected Cause(s):** High TDS possibly due to groundwater sources to streams during summer. High turbidity possibly due to local geologic conditions (faulting), which contribute to increased erosion during wet weather.

**Data Gap(s) - No Data:** Fecal coliform, chlordane, DDT, dieldrin, dioxin, MTBE, PCB, TDS

**Fair/Poor Quality Data:** Turbidity, copper, chlorpyrifos, diazinon, nitrate, selenium, mercury, nickel

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
PFF	Sufficient	Good	Channel capacity, design flow	D0102	Full Support	A	Data sets D0380 and D0559 provide data on the direct indicator (ability to convey 100-year flood flows); because of this, it was not necessary to review other data sets on secondary indicators
				D0380			
				D0559			
				D0586			
				D0587			
				D0589			
				D0609			

**Watershed: San Francisquito**

**Waterbody:** Los Trancos Creek

**Reach:** SF/LT-1

**Reach Length (miles):** 3.60

**Reach Limits (downstream to upstream):** San Francisquito Creek confluence to confluence with Buckeye Creek in Palo Alto **Flow Regime:** Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Transition

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = estimated 100 year flood flow.

**Fair/Poor Quality Data:** Secondary Indicators = historical flooding occurrence information.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Sufficient	Good	Special status species observations	D0041	Full Support	A	Full support based on western leatherwood and steelhead and/or rainbow trout presence.
				D0101			
				D0111			
				D0413			
				D0602			
				D0609			
				D0618			
				D0620			

**Local Knowledge Comments:** Potential presence of western pond turtle in mid-watershed reaches; steelhead observed during recent surveys

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	No data on primary indicator; limited data on secondary indicator (3 of 9 parameters); data on tertiary indicators present	Fair	Aesthetics (trash, algae), flow (depth), access, copper, mercury, nickel	D0102	Full Support on secondary indicators	D	No data sets are available on primary indicators; D0556 indicates support on secondary indicators but with high uncertainty due to lack of many parameters; other data on tertiary indicators indicates that access is good, but aesthetics are poor and flow is marginal to support recreation

**Watershed:** San Francisquito

**Waterbody:** Los Trancos Creek

**Reach:** SF/LT-1

**Reach Length (miles):** 3.60

**Reach Limits (downstream to upstream):** San Francisquito Creek confluence to confluence with Buckeye Creek in Palo Alto

**Flow Regime:** Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Transition

REC-1 No data on primary indicator; limited data on secondary indicator (3 of 9 parameters); data on tertiary indicators present Fair

Aesthetics (trash, algae), flow (depth), access, copper, mercury, nickel

D0383 Full Support on secondary indicators

D No data sets are available on primary indicators; D0556 indicates support on secondary indicators but with high uncertainty due to lack of many parameters; other data on tertiary indicators indicates that access is good, but aesthetics are poor and flow is marginal to support recreation

- D0413
- D0452
- D0463
- D0556
- D0618

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Waterbody:** Los Trancos Creek

**Reach:** SF/LT-2

**Reach Length (miles):** 3.12

**Reach Limits (downstream to upstream):** Entire Creek above confluence with Buckeye Creek in Palo Alto

**Flow Regime:** Ephemeral to Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Limited data on fish assemblage and macroinvertebrate; additional secondary indicators	Fair	Fish assemblage, riparian vegetation, physical barriers, flow, channel substrate, width/depth, instream spawning habitat, shaded habitat, depth, macroinvertebrates	D0041	Non Support	D	Pools present in lower portion of reach during most summers; fish assemblage data is too old to rely upon though there may be steelhead and rainbow trout in headwaters of reach; no indicator macroinvertebrates were present during limited sampling; support statement based on lack of macroinvertebrates, but high uncertainty
				D0311			
				D0312			
				D0315			
				D0413			
				D0466			
				D0625			

**Local Knowledge Comments:** Steelhead/rainbow trout found from the confluence of Buckeye Creek upstream for 0.7 miles during recent surveys (1999-2001); the lower part of this reach becomes dry but pools remain in the upper reach; steelhead/rainbow trout also observed 150 feet upstream of the PV Ranch Tributary

**Limiting Factor(s):** Reach is ephemeral except in steeper upstream portion

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = temperature, dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge and width, altered channel materials, instream rearing habitat, riparian vegetation, water depths and velocities, physical barriers to migration, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel.

**Fair/Poor Quality Data:** Primary Indicators = macro-invertebrate data. Secondary Indicators = instream spawning habitat, shaded riverine aquatic habitat.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available for either wet or dry weather

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Fecal coliform, turbidity, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, MTBE, nitrate, PCB, selenium, mercury, nickel, TDS

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Waterbody:** Los Trancos Creek

**Reach:** SF/LT-2

**Reach Length (miles):** 3.12

**Reach Limits (downstream to upstream):** Entire Creek above confluence with Buckeye Creek in Palo Alto

**Flow Regime:** Ephemeral to Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
PFF	Sufficient	Good	Channel capacity, design flow	D0380	Full Support	A	Data sets D0380 and D0559 provide data on the direct indicator (ability to convey 100-year flood flows); because of this, it was not necessary to review other data sets on secondary indicators
				D0559			
				D0586			
				D0587			
				D0589			
				D0609			

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = estimated 100 year flood flow, design channel capacity.

**Fair/Poor Quality Data:** Secondary Indicators = historical flooding occurrence information.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Sufficient	Good	Special status species observations	D0041	Full Support	B	Full support for western leather wood and steelhead trout, however 1985 study noted that fish were in poor condition
				D0111			
				D0413			
				D0609			
				D0620			

**Local Knowledge Comments:** Steelhead/rainbow trout found from the confluence of Buckeye Creek upstream for 0.7 miles during recent surveys (1999-2001); the lower part of this reach becomes dry but pools remain in the upper reach; steelhead/rainbow trout also observed 150 feet upstream of the PV Ranch Tributary

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = assemblages of special status species. Secondary Indicators = habitat requirements for individual special status species.

**Fair/Poor Quality Data:**

**Watershed:** San Francisquito

**Waterbody:** Los Trancos Creek

**Reach:** SF/LT-2

**Reach Length (miles):** 3.12

**Reach Limits (downstream to upstream):** Entire Creek above confluence with Buckeye Creek in Palo Alto

**Flow Regime:** Ephemeral to Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Rural

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	No data on primary or secondary indicators; insufficient data on tertiary indicator (aesthetics/access)	Poor	Flow (depth)	D0413	Unable to Determine	N/A	No data available on primary or secondary indicators; limited data on tertiary indicators is too isolated to be used as the basis for a support statement
				D0618			

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

**Watershed: San Francisquito**

**Waterbody:** Buckeye Creek

**Reach:** SF/LT-3

**Reach Length (miles):** 2.99

**Reach Limits (downstream to upstream):** Entire Creek

**Flow Regime:** Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Transition

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available on primary or secondary indicators

**Local Knowledge Comments:** Steelhead/rainbow trout observed from the Los Trancos Creek confluence upstream to the Los Trancos Road culvert during recent surveys (1999-2001); juvenile steelhead in the reach downstream of the culvert; unable to check upstream of Los Trancos Road (private property)

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = fish assemblage, macro-invertebrate data. Secondary Indicators = temperature, dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge and width, altered channel materials, instream spawning habitat, instream rearing habitat, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, physical barriers to migration, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	None	N/A	N/A	No data sets	Unable to Determine	N/A	No data available for either wet or dry weather

**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Fecal coliform, turbidity, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, MTBE, nitrate, PCB, selenium, mercury, nickel, TDS

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
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**Watershed: San Francisquito**

**Reach: SF/LT-3**

**Reach Length (miles): 2.99**

**Waterbody: Buckeye Creek**  
**Reach Limits (downstream to upstream): Entire Creek**

**Flow Regime: Perennial**

**Channel Type(s): Natural Unmodified**

**Generalized Land Use in Area: Transition**

PFF	Sufficient	Good	Channel capacity, design flow	D0643	Non Support	B	Stakeholder comment: There has been historical flood and erosion damage along Buckeye Creek through the City of Palo Alto's Foothills Park; Personal communication with SCVWD on March 13, 2002: The creek flows through an 18' culvert outside the park boundary at Los Trancos Woods Road, which is unlikely to have enough flow capacity for large storm events such as the 100-year flood event; Historical evidence has suggested that the road section at this location has flooded many times during large storm events.
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**Local Knowledge Comments:** The 18-inch culvert with flooding problems is located outside the boundary of Foothill Park (beneath Los Trancos Woods Road)

**Limiting Factor(s):** Culvert at Los Trancos Woods Road is likely undersized

**Suspected Cause(s):** Stakeholder comment: There has been historical flood and erosion damage along Buckeye Creek through the City of Palo Alto's Foothills Park; Personal communication with SCVWD on March 13, 2002: The creek flows through an 18' culvert outside the park boundary at Los Trancos Woods Road, which is unlikely to have enough flow capacity for large storm events such as the 100-year flood event; Historical evidence has suggested that the road section at this location has flooded many times during large storm events.

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data available

**Local Knowledge Comments:** Steelhead/rainbow trout observed from the Los Trancos Creek confluence upstream to the Los Trancos Road culvert during recent surveys (1999-2001); juvenile steelhead in the reach downstream of the culvert; unable to check upstream of Los Trancos Road (private property)

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = assemblages of special status species, special status species. Secondary Indicators = habitat requirements for individual special status species.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
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**Watershed:** San Francisquito

**Reach:** SF/LT-3

**Reach Length (miles):** 2.99

**Waterbody:** Buckeye Creek  
**Reach Limits (downstream to upstream):** Entire Creek

**Flow Regime:** Perennial

**Channel Type(s):** Natural Unmodified

**Generalized Land Use in Area:** Transition

REC-1	No data on primary or secondary indicators; insufficient data on tertiary indicator (aesthetics/access)	Fair	Flow (depth)	D0618	Unable to Determine	N/A	No data available on primary or secondary indicators; limited data on tertiary indicators is too general and qualitative to be used as the basis for a support statement
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**Local Knowledge Comments:**

**Limiting Factor(s):** None Identified

**Suspected Cause(s):**

**Data Gap(s) - No Data:**

**Fair/Poor Quality Data:**