

Watershed:

Waterbody:

Reach:

Reach Length (miles):

Reach Limits (downstream to upstream):

Flow Regime:

Channel Type(s):

Generalized Land Use in Area:

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	Stream shading, fish assemblage, temperature, DDT, PCBs, chlordane, mercury, selenium, riparian vegetation, barriers, stream type, streambank erosion potential, flow, macroinvertebrates	D0102	Potential/Seasonal Support	B	This reach is an important migratory corridor for salmon and steelhead; Chinook salmon spawn at upper end of reach; the reach does not meet cold insect criteria based on data from a wet summer (1998) or even in May 1997 at upstream end of reach
				D0135			
				D0214			
				D0237			
				D0311			
				D0312			
				D0315			
				D0561			
				D0603			
D0625							

**Watershed:**

**Waterbody:**

**Reach:**

**Reach Length (miles):**

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

**Flow Regime:**

**Channel Type(s):**

**Generalized Land Use in Area:**

**Local Knowledge Comments**

Chinook salmon have never been documented as spawning at the upper end of this reach and would not be expected to do so. Chinook do not spawn in tide water. This area would also not be expected to meet the cold water indicator insect criteria because it is a tidewater area. This reach is also a critically important area where outgoing fish mature and grow and where both incoming and outgoing fish hold to adapt to changes in water salinity. GCRCD temperature data loggers at Tasman Ave. and Montague Expressway show that average hourly temperatures in this reach range from 54 degrees F in the winter to 70 degrees F in the mid summer. From November to April average temperatures were almost always below 60 degrees F. Published temperature information we have seen indicate these temperatures fall within the acceptable range for salmonids. Salmonids are currently supported in this reach and can be expected in this reach pretty much on a continuous basis. Adult Chinook have been documented in upstream areas as early as June and their runs often last into January. Juvenile fish have been documented out-migrating from February to May. Steelhead normally migrate up the river in the December to April time frame and the juveniles out migrate in the April to June time frame after spending at least a year in the river. Lamprey eels normally migrate up the river in the December to April time frame. Out-migrating Chinook juveniles reportedly use estuary areas for maturing and adapting to salt water but it is unknown how long they must remain in the estuary environment. Most likely it would be from several weeks to several months, which would put them in this reach from February to at least July. So salmonids could be expected in this segment year around. This reach should be evaluated for brackish and saltwater biota, which mature or maturing fish will feed on. There is absolutely no canopy cover for the river downstream of the 500 meter point below Montague Expressway, the only shade is provided by the Tasman, SR 237 and Gold Street bridges. Up to about 500 meters below Montague Expressway there are only about a half dozen to a dozen trees and some of them are not in close proximity to the active channel so the river does not have a 94% cover in this area. Channel morphology, river flow rates, debris, trash and pollution should be listed as limiting factors. The support statement for GR-1 should either be Supported, Partially Supported or Not Applicable. This segment definitely supports the in and out migration of cold water species, the maturing of juvenile Chinook salmon and the adaptation of salmonids to fresh/or salt water, depending on if they are in or out migrating. However, it is unclear if tidewater fits the Basin Plan's definition for Cold.

**Limiting Factor(s):**

Exceeds Chinook and steelhead temperature criteria; macroinvertebrate criteria are not met based on limited sampling

**Suspected Cause(s):**

Relatively high, but variable, water temperatures in winter, spring and summer; exceeds temperature criteria, but may support Chinook rearing in some years. Spring and summer streamflows dependent upon regulated releases from upstream reservoirs for groundwater percolation, and presently required release to the reach is only 1 cfs (reach is downstream of percolation recharge zone). Channel is largely lightly shaded, resulting in water warming during sunny periods. No winter or spring sampling data to indicate whether successful Chinook spawning and rearing occur in reach. However, Chinook smolts have been produced in some years from somewhere in the Guadalupe River or in Los Gatos Creek, despite failure to meet temperature criteria in the Guadalupe River.

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

Secondary Indicators = dissolved oxygen, TSS, turbidity, channel substrate, width to depth ratio, bankfull, stage, discharge and width, special status species, instream spawning habitat, instream rearing habitat, water depth, physical barriers to migration, copper, chlorpyrifos, diazinon, dieldrin, dioxin, nickel.

**Fair/Poor Quality Data:**

Secondary Indicators =stream shading, streambank erosion potential, altered channel materials, riparian vegetation, chlordane, DDT, PCB, selenium, mercury.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty	
						Level	Assessment Comments
MUN	Sufficient	Good	Selenium, mercury, copper, nickel, chlordane, diazinon, dieldrin, chlorpyrifos, nitrate, nitrite, PCBs, DDT	D0237	Non Support	B	Data on 12 of the 16 parameters; no data on turbidity or TDS; unable to distinguish between wet and dry weather samples
				D0607			
				D0608			

Watershed:

Waterbody:

Reach:

Reach Length (miles):

Reach Limits (downstream to upstream):

Flow Regime:

Channel Type(s):

Generalized Land Use in Area:

Local Knowledge Comments:

Limiting Factor(s):

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	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 D0639 and stakeholder input suggest that this reach is not able to convey 100 -year flood flows.

D0311
D0321
D0322
D0323
D0324
D0325
D0326
D0380
D0559
D0561
D0564
D0609
D0621
D0639

**Watershed:**

**Waterbody:**

**Reach:**

**Reach Length (miles):**

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

**Flow Regime:**

**Channel Type(s):**

**Generalized Land Use in Area:**

**Local Knowledge Comments**

**Limiting Factor(s):**

**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	D0020	Full Support	A	Full support based on salmonids; additional potential support for CA Clapper Rail, Western Snowy Plover, and Alameda song sparrow; Full support for reaches 1-4 based on the assumption that if salmon are running up the river then all reaches below Los Gatos Creek are essential to migration
				D0084			
				D0087			
				D0111			
				D0112			
				D0135			
				D0136			
				D0561			
				D0580			
				D0609			

**Local Knowledge Comments**

**Limiting Factor(s):**

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

Watershed:

Waterbody:

Reach:

Reach Length (miles):

Reach Limits (downstream to upstream):  Flow Regime:

Channel Type(s):  Generalized Land Use in Area:

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 (6 of 9 parameters); data on tertiary indicators present	Good	Flow (depth), access, copper, nickel, mercury, PCBs, dieldrin, DDT, chlordane	D0102  D0382 D0561 D0607 D0608	Non Support based on secondary indicators; Partial Support based on tertiary indicators; no support statement is able to be made for primary indicators	B	No data sets are available on primary indicators; D0561, D0607, and D0608 have data exceeding criteria for metals and toxic organics in both the water and sediment; access is limited in lower end of reach but good otherwise, limited data on water depth is available; trash problems have been noted

Local Knowledge Comments:

Limiting Factor(s):

Suspected Cause(s):

Data Gap(s) - No Data:

Fair/Poor Quality Data:

Watershed:

Waterbody:

Reach:

Reach Length (miles):

Reach Limits (downstream to upstream):

Flow Regime:

Channel Type(s):

Generalized Land Use in Area:

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, instream spawning habitat, temperature, dissolved oxygen, macroinvertebrates, riparian vegetation, barriers, instream rearing habitat quality, streambank erosion potential, altered channel materials and dimensions, flow	D0135	Potential/Seasonal Support	B	Adult spawning Chinook are present in this reach; reach does not meet cold insect criteria based upon sampling in May 1997 and September 1998.
				D0162			
				D0163			
				D0174			
				D0201			
				D0214			
				D0311			
				D0312			
				D0315			
				D0426			
				D0438			
				D0561			
				D0562			
				D0569			
D0603							
D0625							

**Watershed:**

**Waterbody:**

**Reach:**

**Reach Length (miles):**

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

**Flow Regime:**

**Channel Type(s):**

**Generalized Land Use in Area:**

**Local Knowledge Comments** Below Trimble Ave., support status should be Limited Support. Chinook and chum salmon, steelhead trout and lamprey eel migrate through the area. Chinook salmon have also been photo documented as holding and spawning in this segment for over the last 10 years. GCRCD data loggers at Trimble Ave and upstream indicate hourly temperatures during the dry season, April to September average from 67 to 69 degrees F. Fall/winter temperatures average from 52 to 68 degrees F. Published temperature information we have seen indicates that these temperatures fall within the acceptable summer range for salmonids. The primary limiting factors of channel morphology, flow rates, and pollution are not identified. Above Trimble Ave., support status should be Limited Support. Chinook salmon have been photo documented as migrating through, holding in and spawning in this segment from July through January for over 10 years. A mature chum salmon and numerous steelhead have been documented in this segment and juvenile Chinook have been captured out-migrating. Average hourly water temperatures vary from about 68 degrees F in the dry months to 52 degrees F in the fall/winter. Limiting Factors should be channel flow rates, morphology, temperature, lack of shade or hide cover, lack of good riparian zone and pollution. (GCRCD)

**Limiting Factor(s):**

**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		Assessment Comments
						Level		
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):**

**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		Assessment Comments
						Level		
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 D0639 and stakeholder input suggest that this reach is not able to convey 100 -year flood flows.

Watershed:

Waterbody:

Reach:

Reach Length (miles):

Reach Limits (downstream to upstream):

Flow Regime:

Channel Type(s):

Generalized Land Use in Area:

PPF	Sufficient	Good	Channel capacity, design flow	D0311	Non Support	A	Data sets D0380 and D0559 provide data on the direct indicator (ability to convey 100-year flood flows); data set D0639 and stakeholder input suggest that this reach is not able to convey 100 -year flood flows.
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**Local Knowledge Comments**

Reach should be split into two parts - above and below Trimble Avenue. The lower part of the reach contains a river channel that for the most part is above tidewater. A steep berm has been constructed on the east side of the river but both sides of the channel are well vegetated. Except for a short stretch just below Trimble Ave. there is good riparian habitat and Shaded Riverine Aquatic (SRA) cover. An overflow channel has also been constructed down the right side of the river and the area between the river and overflow channel was planted as a mitigation site for the 1983 Lower Guadalupe Flood Control Project. This site failed as the river has broken through the berm in a number of areas and washed out the mitigation plantings. It has also deposited tons of sediment in the overflow area as it attempts to regain its natural form and build a flood plain. There is no overflow channel, right side channel berm, or dense riparian area downstream of this segment or in the segment immediately upstream. This should be listed as a Quasi-Natural Modified (East Side Berm with a overflow passage) channel. The upper part of the reach should be designated a Modified, Straightened channel. The entire river channel has been moved to the east in the area of San Jose Airport. The channel used to flow through the airport area but it has been substantially straightened and the riverine corridor has been confined by levees on both sides. For the most part, there is little to no shade cover in this segment. There are a few established trees in the riparian areas bordering the river but only a few are close enough to provide shade cover and these are in a few small patches downstream of Airport Blvd. and US 101.

**Limiting Factor(s):**

**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
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Watershed:

Waterbody:

Reach:

Reach Length (miles):

Reach Limits (downstream to upstream):

Flow Regime:

Channel Type(s):

Generalized Land Use in Area:

RARE	Sufficient	Fair	Special status species observations, Habitat	D0020	Full Support	C	Full support for Chinook, potential support for Alameda song sparrow based on historic data; full support for reaches 1-4 based on the assumption that if salmon are running up the river then all reaches below Los Gatos Creek are essential to migration; limited data on species presence and habitat for this reach
				D0084			
				D0087			
				D0112			
				D0135			
				D0136			
				D0174			
				D0561			
				D0569			
				D0609			

**Local Knowledge Comments** Below Trimble Ave., support status should be Limited Support. Although Chinook and steelhead are known to use this area, aquatic habitat and temperatures are marginal. The good riparian habitat has high potential for special status bird species. We have seen reports that indicate several special status bird species have been identified in this area in the past few years. It is recommended that the Audubon Society be contacted for this information. Channel morphology, flow rates, and water temperatures are limiting factors for this use. Above Trimble Ave., support status should be Limited Support. Although Chinook and steelhead are known to use this area, aquatic habitat and temperatures are marginal. Riparian mitigation has been recently planted along channel banks in sections of this segment but it will take years to mature and provide meaningful benefit. A southwestern pond turtle was observed in this segment around 1995. Channel morphology, flow rates, water temperature, lack of a mature riparian zone and SRA cover are limiting factors for this use.

**Limiting Factor(s):**

**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 available on primary indicators; limited data on secondary indicators (3 of 9 parameters); limited data on tertiary indicators	Fair	Flow (depth), mercury, access, copper, nickel, aesthetics	D0102	Non Support based on secondary indicators; Partial Support based on tertiary indicators; no support statement is able to be made based on primary indicators	B	No data sets are available on primary indicators; D0557 and D0561 have data exceeding criteria for metals and toxic organics in both the water and sediment; access is generally good, limited data on water depth is available, trash problems have been noted
				<input type="text" value="D0147"/>			

Watershed:

Waterbody:

Reach:

Reach Length (miles):

Reach Limits (downstream to upstream):

Flow Regime:

Channel Type(s):

Generalized Land Use in Area:

REC-1	No data available on primary indicators; limited data on secondary indicators (3 of 9 parameters); limited data on tertiary indicators	Fair	Flow (depth), mercury, access, copper, nickel, aesthetics	D0163	Non Support based on secondary indicators; Partial Support based on tertiary indicators; no support statement is able to be made based on primary indicators	B	No data sets are available on primary indicators; D0557 and D0561 have data exceeding criteria for metals and toxic organics in both the water and sediment; access is generally good, limited data on water depth is available, trash problems have been noted
				D0382			
				D0561			

**Local Knowledge Comments** Below Trimble Ave., support status should be Limited Support. The reach supports fishing, wading and small watercraft boating. The primary limiting factors for this use are water flow levels, access, pollution, waterborne pathogens and debris. Above Trimble Ave., support status should be Limited Support. The reach supports fishing, wading and small watercraft boating. The primary limiting factors for this use are water flow levels, access, pollution, waterborne pathogens and debris.

**Limiting Factor(s):** Copper, nickel, mercury exceed criteria for water and sediment based on limited data; aesthetics may be a problem

**Suspected Cause(s):** Historic mining waste in stream contributes to mercury; copper, nickel exceedances possibly linked to historic urban stormwater discharges and/or illicit direct discharge to stream; trash is common in urban stream corridors; algae is product of excessive nutrient inputs, possibly yard or landscaping waste from upstream or detergents and human or animal waste.

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

**Fair/Poor Quality Data:**

**Watershed:** Guadalupe

**Waterbody:** Guadalupe River

**Reach:** GR-3

**Reach Length (miles):** 1.05

**Reach Limits (downstream to upstream):** Interstate 880 to Coleman Avenue

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Urban

<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>
COLD	Sufficient on primary indicators, additional data on secondary habitat indicators	Fair	Fish assemblage, instream spawning habitat, temperature, dissolved oxygen, macroinvertebrates, riparian vegetation, barriers, instream rearing habitat	D0135 D0163 D0201 D0214 D0224 D0311 D0312 D0315 D0426 D0438 D0568 D0569 D0576 D0603 D0625	Potential/Seasonal Support	B	Pools present in reach during most summers as streamflow is low and variable; Chinook salmon spawn in reach; reach does not meet insect criteria during late summer based on 1998 sampling; temperature data indicates that criteria are exceeded even in wet years (1998, 1999)

**Watershed: Guadalupe**

**Waterbody:** Guadalupe River  
**Reach Limits (downstream to upstream):** Interstate 880 to Coleman Avenue  
**Channel Type(s):** Natural Modified

**Reach:** GR-3

**Reach Length (miles):** 1.05  
**Flow Regime:** Perennial

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:** Support status should be Limited Support. Chinook salmon have been photo documented as migrating through, holding in and spawning in this segment. Average hourly temperatures in this segment in dry months vary from 64 to 70 degrees F and in fall/winter months from 52 to 64 degrees F. Limiting Factors should be channel flow rates, morphology, temperature, lack of shade or hide cover, marginal riparian zone, pollution and poaching. SCVWD gauges show a lack of streamflow during summer. (GCRC) The SCVWD would prefer to manage the mainstem reaches of the Guadalupe River as a passage corridor. There will always be stray fish that don't stay where they should but observing a fish in a stream reach doesn't provide the basis for a management plan.

**Limiting Factor(s):** Indicator macroinvertebrate criteria are not met in late summer; no records of summer steelhead rearing during 1985-94 sampling

**Suspected Cause(s):** Relatively high, but variable, water temperatures in winter, spring and summer; exceeds temperature criteria, but may support Chinook rearing in some years. Spring and summer streamflows dependent upon regulated releases from upstream reservoirs for groundwater percolation, and presently required release to the reach is only 1 cfs (reach is downstream of percolation recharge zone). Channel is largely lightly shaded, resulting in water warming during sunny periods. No winter or spring sampling data to indicate whether successful Chinook spawning and rearing occur in reach. However, Chinook smolts have been produced in some years from somewhere in the Guadalupe River or in Los Gatos Creek, despite failure to meet temperature criteria in the Guadalupe River. Conditions may also be suitable for Chinook spawning in the reach in some years. During wet periods (1995-1999) cool groundwater inflows may be present. High storm flows resulting from urban runoff may degrade habitat. FAHCE information notes that this reach serves primarily as a migration corridor for steelhead and has poor to no rearing habitat.

**Data Gap(s) - No Data:** Secondary Indicators = TSS, turbidity, stream type, streambank erosion potential, channel substrate, width to depth ratio, bankfull, stage, discharge and width, shaded riverine aquatic habitat, water depth, special status species, altered channel materials and dimensions, 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	Sufficient	Fair	Turbidity, nitrate, nitrite, copper, nickel, fecal coliform, mercury, diazinon, DDT, selenium	D0206 D0219 D0597	Non Support	B	Data on 9 of 16 parameters; uncertainty based on age of some of the data and lack of data on certain parameters; unable to distinguish dry and wet weather sampling for one data set

**Local Knowledge Comments:**

**Limiting Factor(s):** Fecal coliform exceeds criteria; some DDT, turbidity, mercury, and nickel samples also exceed criteria

**Suspected Cause(s):** Natural sources and urban runoff may contribute to nickel. Historic mining waste in stream contributes to elevated concentrations of mercury in water samples. Uncertain regarding fecal coliform and turbidity.

**Data Gap(s) - No Data:** Chlordane, chlorpyrifos, dieldrin, dioxin, MTBE, PCB, nickel, TDS

**Fair/Poor Quality Data:** Fecal coliform, turbidity, copper, DDT, diazinon, nitrate, nitrite, 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:** Guadalupe

**Waterbody:** Guadalupe River

**Reach:** GR-3

**Reach Length (miles):** 1.05

**Reach Limits (downstream to upstream):** Interstate 880 to Coleman Avenue

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Urban

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); because of this, it was not necessary to review other data sets on secondary indicators; (2) this reach supports PFF except for two critical urban reaches which are not large enough to convey the 1% flood: Hedding to Taylor (SCVWD stationing #59450 to 61450) and Hobson to Coleman (62200 to 63600) (3) Only Contract 1 of the Flood Control Project is completed to date (as per personal communication with Randy Talley of SCVWD on March 13, 2002), therefore, this reach of the river cannot be considered "protected" from large flood events such as the 100-year flood, until all portions of the project are completed -- once all the portions are completed the support status of this reach can be changed from "Non-Support" to "Full Support"

- D0311
- D0321
- D0322
- D0323
- D0324
- D0325
- D0326
- D0380
- D0559
- D0564
- D0565
- D0577
- D0609
- D0621

**Watershed: Guadalupe**

**Waterbody:** Guadalupe River  
**Reach Limits (downstream to upstream):** Interstate 880 to Coleman Avenue  
**Channel Type(s):** Natural Modified

**Reach:** GR-3

**Reach Length (miles):** 1.05  
**Flow Regime:** Perennial

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:** Support status should be full support after completion of the Downtown Flood Control Project (Contract 2); Channel type should be Quasi-Natural Straightened, Incised (berms on both sides of main channel). The main channel is down cutting (about a foot per year since 1996) as a direct result of the recently constructed flood control project. Areas of the bypass channel are eroding and in other areas there is severe deposition. The berm on the west side of the channel was breached a number of times soon after project construction and has since been armored with rocks and log crib walls in areas which are now being undercut. The low flow channel weirs just downstream of Coleman Ave. that were installed to guarantee fish passage have for the most part been buried by

**Limiting Factor(s):** Channel is unable to convey the 100-year flow in two segments; land uses adjacent to the stream in these segments consist of urban commercial

**Suspected Cause(s):** (a) Creek may not have sufficient channel capacity to convey flood flows and/or (b) Encroachment of urban commercial development into the natural channel floodplain. Problem segments are: Hedding to Taylor (SCVWD stationing #59450 to 61450) and Hobson to Coleman (62200 to 63600). Only Contract 1 of the Flood Control Project is completed to date. Therefore, this reach of the river cannot be considered "protected" from large flood events such as the 100-year flood until all portions of the project are completed. Once all the portions are completed the support status of this reach can be changed from "Non-Support" to "Full Support".

**Data Gap(s) - No Data:** 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	D0020	Full Support	A	Full support based on Chinook; full support for reaches 1-4 based on the assumption that if salmon are running up the river then all reaches below Los Gatos Creek are essential to migration
				D0084			
				D0087			
				D0135			
				D0136			
				D0568			
				D0569			
				D0609			

**Local Knowledge Comments:** Support Status should be Limited Support. Although Chinook and steelhead are known to use this area, aquatic habitat and temperatures are marginal. Vegetation has been planted in the area between the channel and bypass channel and advertised as riparian mitigation but it is out of the riparian zone and does not provide shade cover for the river. Much of the once dense riparian zone has been lost due to bank erosion caused by river confinement, denying the river access to a floodplain. This area has potential habitat for the southwestern pond turtle based on a 1995 survey by a pond turtle expert hired by the GCRCD. Channel morphology, flow rates, and water temperatures are limiting factors for this use.

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed:** Guadalupe

**Waterbody:** Guadalupe River

**Reach:** GR-3

**Reach Length (miles):** 1.05

**Reach Limits (downstream to upstream):** Interstate 880 to Coleman Avenue

**Flow Regime:** Perennial

**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
REC-1	Sufficient on primary indicator; sufficient on secondary indicator; limited on tertiary indicator	Fair	Aesthetics, flow (depth), fecal coliform, copper, mercury, nickel, chlordane, DDT, dieldrin	D0147  D0163 D0206 D0383 D0561 D0570 D0597	Non Support based on primary indicator; Non Support based on secondary indicators; insufficient data on tertiary	C	D0206 and D0597 have data on fecal coliform, but the former is 20 years old and the latter is only for winter (non-recreation season) -- most data exceed criteria; limited data is available on several secondary indicators -- these indicate that toxic organics exceed criteria in reach, as do some of the mercury water samples and all mercury sediment samples; very limited aesthetics data indicates some problems but data is insufficient to base a support

**Local Knowledge Comments:** Support Status should be Limited Support. The reach supports fishing, wading and small watercraft boating. The primary limiting factors for this use are water flow levels, access, pollution, debris, waterborne pathogens and vagrant encampments and human waste.

**Limiting Factor(s):** Fecal coliform exceeds criteria, including during one recreation season (summer); mercury, chlordane, DDT, and dieldrin exceed criteria based on limited sampling

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed:** Guadalupe

**Waterbody:** Guadalupe River

**Reach:** GR-4

**Reach Length (miles):** 1.44

**Reach Limits (downstream to upstream):** Coleman Ave. to Interstate 280

**Flow Regime:** Perennial

**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, additional data on secondary habitat indicators	Fair	Fish assemblage, instream spawning habitat, temperature, dissolved oxygen, macroinvertebrates, mercury, nickel, copper, TSS, riparian vegetation, barriers, turbidity, instream rearing	D0135 D0163 D0201 D0207 D0214 D0311 D0312 D0315 D0426 D0438 D0568 D0569 D0576 D0603 D0625	Potential/Seasonal Support	B	Pools present in reach during most summers as streamflow is variable; adult Chinook present in reach and spawning sites have been observed; reach does not meet insect criteria in late summer; temperature data indicates that the criteria are exceeded even in wet years (1998, 1999) at 2



**Watershed: Guadalupe**

**Waterbody:** Guadalupe River

**Reach:** GR-4

**Reach Length (miles):** 1.44

**Reach Limits (downstream to upstream):** Coleman Ave. to Interstate 280

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:** Support Status should be Limited Support. Chinook salmon have been photo documented as migrating through, holding in and spawning in this segment, lamprey eel also migrate and spawn in this area. Average hourly temperatures in this segment in dry months vary from 64 to 70 degrees F and in fall/winter months from 52 to 64 degrees F. Limiting Factors should be channel flow rates, morphology, water temperature, marginal shade/hide cover, pollution, poaching, barriers. SCVWD stream gauges show a lack of streamflow during summer. (GCRCD) The SCVWD would prefer to manage the mainstem reaches of the Guadalupe River as a passage corridor. There will always be stray fish that don't stay where they should but observing a fish in a stream reach doesn't provide the basis for a management plan. (SCVWD)

**Limiting Factor(s):** Indicator macroinvertebrate criteria are not met in late summer; no records of summer steelhead rearing during 1985-94 sampling (see comment under D0163 below)

**Suspected Cause(s):** Relatively high, but variable, water temperatures in winter, spring and summer; exceeds temperature criteria, but may support Chinook rearing in some years. Spring and summer streamflows dependent upon regulated releases from upstream reservoirs for groundwater percolation, and presently required release to the reach is only 1 cfs (reach is downstream of percolation recharge zone). Channel is largely lightly shaded, resulting in water warming during sunny periods. No winter or spring sampling data to indicate whether successful Chinook spawning and rearing occur in reach. However, Chinook smolts have been produced in some years from somewhere in the Guadalupe River or in Los Gatos Creek, despite failure to meet temperature criteria in the Guadalupe River. Conditions may also be suitable for Chinook spawning in the reach in some years. During wet periods (1995-1999) cool groundwater inflows may be present. High storm flows resulting from urban runoff may degrade habitat. FAHCE information notes that this reach serves primarily as a migration corridor for steelhead and has poor to no rearing habitat.

**Data Gap(s) - No Data:** Secondary Indicators = TSS, turbidity, stream type, streambank erosion potential, channel substrate, width to depth ratio, bankfull, stage, discharge and width, shaded riverine aquatic habitat, water depth, special status species, altered channel materials and dimensions, chlordane, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium.

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	Sufficient	Fair	Mercury, nickel, copper, selenium, turbidity, nitrite	D0207	Non Support	C	Data available on 6 of 16 parameters; uncertainty over USGS data reporting -- some data is highly irregular and questionable; lack of other constituents; unable to distinguish dry from wet weather samples
				D0426			

**Local Knowledge Comments:**

**Limiting Factor(s):** Turbidity, nickel, mercury, selenium, copper all exceed criteria

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:** Turbidity, copper, 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: Guadalupe**

**Waterbody: Guadalupe River**

**Reach: GR-4**

**Reach Length (miles): 1.44**

**Reach Limits (downstream to upstream): Coleman Ave. to Interstate 280**

**Flow Regime: Perennial**

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

**Generalized Land Use in Area: Urban**

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); because of this, it was not necessary to review other data sets on secondary indicators; (2) this reach supports PFF except for one critical urban reach which is not large enough to convey the 1% flood: upstream of Auzerais Street (70000 to 71500)
				D0311			
				D0321			
				D0322			
				D0323			
				D0324			
				D0325			
				D0326			
				D0380			
				D0559			
				D0564			
				D0565			
				D0577			
				D0609			
				D0621			

**Local Knowledge Comments:** Channel type should be Quasi-Natural Widened, Straightened and Incised. The upper part of this segment has a concrete bypass channel, which is not operational as yet. At least two more bypass channels are slated for construction down stream. Much of the channel has been lined with rock gabions and is

**Limiting Factor(s):** Channel is unable to convey the 100-year flow in one segment; land uses adjacent to the stream in this segment consist of urban commercial and residential

**Suspected Cause(s):** (a) Creek does 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 segment is upstream of Auzerais Street (70000 to 71500).

**Data Gap(s) - No Data:** 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	D0020	Full Support	A	Full support based on Chinook; full support for reaches 1-4 based on the assumption that if salmon are running up the river then all reaches below Los Gatos Creek are essential to migration
				D0084			

**Watershed: Guadalupe**

**Reach: GR-4**

**Reach Length (miles): 1.44**

**Waterbody: Guadalupe River**  
**Reach Limits (downstream to upstream): Coleman Ave. to Interstate 280**

**Flow Regime: Perennial**

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

**Generalized Land Use in Area: Urban**

RARE	Sufficient	Good	Special status species observations, Habitat	D0087	Full Support	A	Full support based on Chinook; full support for reaches 1-4 based on the assumption that if salmon are running up the river then all reaches below Los Gatos Creek are essential to migration
				D0135			
				D0136			
				D0568			
				D0569			
				D0609			

**Local Knowledge Comments:** Support Status should be Limited Support. Although Chinook and steelhead are known to use this area, aquatic habitat and temperatures are marginal. The riparian area is narrow and has been degraded by the rock gabions. Much of the mitigation vegetation planted in the gabions has been washed away. Channel morphology, flow rates, water temperature, and instream barriers are limiting factors for this use.

**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 available on primary indicators; limited data on secondary indicators (3 of 9 parameters); limited data on tertiary indicators	Good	Aesthetics, mercury, nickel, copper, flow (depth)	D0147	Non Support on secondary indicator; Non Support on tertiary indicator; no support statement is able to be made on primary indicators	C	D0281, D0561, and D0570 have data on mercury in water (some samples exceed criteria) and sediment (all samples exceed criteria), other constituents meet criteria, though data is limited; limited aesthetics information indicates problems but data is quite old; no pathogen data is available
				D0163			
				D0207			
				D0383			
				D0561			
				D0570			

**Watershed:** Guadalupe

**Waterbody:** Guadalupe River

**Reach:** GR-4

**Reach Length (miles):** 1.44

**Reach Limits (downstream to upstream):** Coleman Ave. to Interstate 280

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:** Support Status should be Limited Support. The reach supports fishing, wading and small watercraft boating. The primary limiting factors for this use are water flow levels, access, pollution, debris, waterborne pathogens and vagrant encampments and human waste.

**Limiting Factor(s):** Mercury in both water and sediment exceeds criteria; aesthetics are poor based on limited data

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Waterbody: Guadalupe River**

**Reach: GR-5**

**Reach Length (miles): 6.12**

**Reach Limits (downstream to upstream): Interstate 280 to Guadalupe and Alamitos Creek confluence**

**Flow Regime: Perennial**

**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, additional data on secondary habitat indicators	Fair	Barriers, riparian vegetation, fish assemblage, temperature, dissolved oxygen, instream spawning habitat, flow, channel alterations, instream rearing habitat, macroinvertebrates	D0001	Partial Support and Potential/Seasonal Support	B	Well documented use of this reach by spawning Chinook and steelhead; occasionally used by juvenile steelhead; reach does not meet insect criteria during late summer; high summer stream temperatures exist within this reach; exceeds steelhead and Chinook temperature criteria
				D0087			
				D0135			
				D0159			
				D0161			
				D0163			
				D0164			
				D0165			
				D0172			
				D0173			
				D0174			
				D0201			
				D0214			
				D0224			
				D0227			
				D0311			
				D0312			
				D0315			
				D0412			
				D0416			
				D0418			
				D0419			
				D0422			
				D0423			
				D0426			
				D0438			

**Watershed: Guadalupe**

**Waterbody:** Guadalupe River  
**Reach Limits (downstream to upstream):** Interstate 280 to Guadalupe and Alamitos Creek confluence  
**Channel Type(s):** Natural Modified

**Reach:** GR-5

**Reach Length (miles):** 6.12

**Flow Regime:** Perennial

**Generalized Land Use in Area:** Urban

COLD	Sufficient on primary indicators, additional data on secondary habitat indicators	Fair	Barriers, riparian vegetation, fish assemblage, temperature, dissolved oxygen, instream spawning habitat, flow, channel alterations, instream rearing habitat, macroinvertebrates	D0569	Partial Support and Potential/Seasonal Support	B	Well documented use of this reach by spawning Chinook and steelhead; occasionally used by juvenile steelhead; reach does not meet insect criteria during late summer; high summer stream temperatures exist within this reach; exceeds steelhead and Chinook temperature criteria
				D0603			
				D0625			

**Local Knowledge Comments:** In Segment A, Support Status should be Limited Support. Chinook salmon are known to migrate through, hold and spawn in this segment. Lamprey eel also migrate and spawn in this area. Average hourly temperatures in this segment in dry months vary from 64 to 70 degrees F and in fall/winter months from 52 to 64 degrees F. Limiting Factors should be channel flow rates, morphology, water temperature, pollution, debris and rubble. In Segment B, Support Status should be Limited Support. Chinook salmon have been photo documented as migrating through, holding in and spawning in this segment over the past 10 years. Lamprey eels also migrate and spawn in this area. Rock gabions are detrimental to salmonid spawning as the fish often try to dig the rock out of the wire baskets and rip themselves apart on the wire or they will sometimes deposit their eggs in the baskets and then can not cover them. Average hourly temperatures in this segment in dry months vary from 66 to 72 degrees F and in fall/winter months from 52 to 66 degrees F. Limiting Factors should be channel flow rates, morphology, water temperature, marginal shade/hide cover, gabions, pollution and poaching. In Segment C, Support Status should be Limited Support. Chinook salmon have been photo documented as migrating through, holding in and spawning in this segment over the past 10 years. Lamprey eel are also known to migrate and spawn in the lower parts of this segment. Average hourly temperatures in this segment in dry months vary from 65 to 72 degrees F and in fall/winter months from 55 to 65 degrees F and are elevated from downstream temperatures because of the lack of shade cover upstream. Limiting Factors should be channel flow rates, morphology, water temperature, marginal shade/hide cover, pollution and poaching. In Segment D, Support Status should be Limited Support. Chinook salmon have been photo documented as migrating through, holding in and spawning in this segment over the past few years. Average hourly temperatures in this segment in dry months vary from 65 to 72 degrees F and in fall/winter months from 55 to 65 degrees F and are elevated from downstream temperatures because of the lack of shade cover in this segment and upstream areas. Unfortunately the fish ladder installed on the dam only leads the fish to an inhospitable environment at this time (Lake Almaden and shallow hot creeks). The dam has backed up sediment, which is causing problems both up and down stream and needs to be removed. Limiting Factors should be channel flow rates, morphology, water temperature, marginal shade/hide cover, pollution, 15 foot high dam and poaching. (GCRCD) The SCVWD would prefer to manage the mainstem reaches of the Guadalupe River as a passage corridor. There will always be stray fish that don't stay where they should but observing a fish in a stream reach doesn't provide the basis for a management plan. (SCVWD)

**Limiting Factor(s):** Indicator macroinvertebrate criteria are not met in late summer

**Suspected Cause(s):** Similar to reaches GR-1-4, in that summer streamflows depend upon releases from upstream reservoirs for groundwater percolation. However, the reach is within the recharge zone and streamflows are higher within this reach, but flows rapidly decline and temperatures increase downstream within this reach; suitable fast-water feeding habitat is scarce within the reach, so summer steelhead rearing is usually limited, but variable among years. The reach is lightly shaded and the channel is generally wide. Winter water temperatures exceed Chinook spawning and rearing criteria, but successful spawning and rearing may occur in some years. High storm flows resulting from urban runoff may degrade habitat. FAHCE information notes that this reach serves primarily as a migration corridor for steelhead and has poor to no

**Data Gap(s) - No Data:** Secondary Indicators = TSS, turbidity, stream type, streambank erosion potential, channel substrate, width to depth ratio, bankfull, stage, discharge and width, shaded riverine aquatic habitat, water depth, special status species, 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
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**Watershed: Guadalupe**

**Waterbody:** Guadalupe River

**Reach:** GR-5

**Reach Length (miles):** 6.12

**Reach Limits (downstream to upstream):** Interstate 280 to Guadalupe and Alamitos Creek confluence

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Urban

MUN	Sufficient	Fair	Turbidity, nitrate, nitrite, copper, nickel, fecal coliform, mercury, diazinon, chlordane	D0073 Non Support	C	Data on 8 of 16 parameters; much of the data is very old; cannot distinguish dry/wet weather samples for most of data
				D0206		

**Local Knowledge Comments:**

**Limiting Factor(s):** Fecal coliform, with some nickel samples exceeding criteria

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Chlorpyrifos, DDT, dieldrin, dioxin, MTBE, PCB, selenium, TDS

**Fair/Poor Quality Data:** Fecal coliform, turbidity, chlordane, copper, diazinon, nitrate, nitrite, 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	D0311	Non Support	A	(1) 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; (2) this reach supports PFF except for three specific critical urban locations: 78000 (at WPRR), 82700 (Malone), 90800 (Capital Expwy) where channel is too
				D0321			
				D0322			
				D0323			
				D0324			
				D0325			
				D0326			
				D0380			
				D0559			
				D0562			
				D0564			
				D0609			
				D0621			

**Watershed: Guadalupe**

**Waterbody: Guadalupe River**

**Reach: GR-5**

**Reach Length (miles):**

6.12

**Reach Limits (downstream to upstream):** Interstate 280 to Guadalupe and Alamitos Creek confluence

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:** Reach should be split into four parts - (A) from lower end to Curtner Ave; (B) Curtner to Gage Station 23B; (C) Gage Station 23B to Branham Lane; and (D) Branham to Lake Almaden. Segment A is a Quasi-Natural, Incised channel with a decent riparian zone but the channel is deeply incised. It contains a lot of construction rubble that is sliding off the banks where it has been dumped in the past. The channel has very limited access. Water temperatures start to cool down in this area as a result of the shade cover. Segment B should be listed as Widened, Straightened and Gabion Contained. The river channel was relocated in this segment when Almaden Expressway was constructed. This segment of channel has little, if any, SRA cover and the riparian vegetation is poor. The designed channel was overly wide and gabion lined on both sides but the stream has since constructed a narrower channel. Segment C should be listed as Quasi-Natural Straightened, Incised. The channel is overly wide in areas but has natural but steep banks in most areas. This segment also has two areas where drop structures have been removed and replaced with a series of rock weirs. While the weirs have improved conditions greatly they were not properly designed which is causing some erosion problems in both areas. This area has a fair but narrow riparian area and provides fair SRA cover. Segment D should be listed as Modified Straightened. However, a new Quasi-Natural Meandering channel is starting to develop in this segment. The channel's width/depth ratio is substantially decreasing and it is starting to meander within the corridor levees. Riparian vegetation is taking hold, riffles and pools are developing in the new channel and spawning gravel is being recruited. Towards the top of this segment there is a 15 foot high dam that blocked fish migration up until several years ago when a fish ladder was installed. In the recent past, the channel in this area was wide and shallow due to a series of instream dirt spreader dams that were constructed every year and gabions line a good portion of the channel. There was virtually no riparian habitat or shade cover as the dams would drown upstream vegetation and deprive downstream vegetation of any water. Water temperatures in this area were elevated due to the lack of shade cover, the wide shallow channels, and water coming from Lake Almaden and the creeks upstream.

**Limiting Factor(s):** Channel is unable to convey the 100-year flow in three segments; land uses adjacent to the stream in these segments 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: 78000 (at WPRR), 82700 (Malone), 90800 (Capital Expwy).

**Data Gap(s) - No Data:** 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	D0020	Full Support	B	Full support based on Chinook and steelhead presence; potential support for sharp shinned hawk, Cooper's hawk, yellow warbler, merlin, loggerhead shrike, burrowing owl (it is believed that double crested cormorant is present and should be on the list and burrowing owl is present and on the list however, owl is dependent on the levees and not on
				D0084			
				D0087			
				D0135			
				D0136			
				D0137			
				D0159			
				D0164			
				D0165			
				D0174			



**Watershed: Guadalupe**

**Waterbody: Guadalupe River**

**Reach: GR-5**

**Reach Length (miles):**

6.12

**Reach Limits (downstream to upstream):** Interstate 280 to Guadalupe and Alamitos Creek confluence

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Urban

RARE	Sufficient	Good	Special status species observations, Habitat	D0412	Full Support	B	Full support based on Chinook and steelhead presence; potential support for sharp shinned hawk, Cooper's hawk, yellow warbler, merlin, loggerhead shrike, burrowing owl (it is believed that double crested cormorant is present and should be on the list and burrowing owl is present and on the list however, owl is dependent on the levees and not on
				D0416			
				D0418			
				D0419			
				D0425			
				D0561			
				D0566			
				D0569			
				D0609			

**Local Knowledge Comments:** In Segment A, Support Status should be Limited Support. Although Chinook and steelhead are known to use this area, aquatic habitat and temperatures are marginal. The riparian area is narrow and has been degraded by concrete rubble dumped over the banks in the past. A southwestern pond turtle was observed and photographed in the upper end of this segment in 1994. Channel morphology, flow rates, water temperature, and instream barriers are limiting factors for this use. Because of this segment's isolation there is good potential habitat for rare song bird species. In Segment B, Support Status should be Limited Support. Although Chinook and steelhead are known to use this area, shade and hide cover and temperatures are marginal. The riparian area is poor and there is little, if any SRA cover. An April 2001 survey of this segment revealed evidence that young trees that were trying to establish themselves had recently been sprayed with herbicide. Channel morphology, flow rates, water temperature, and the gabion confined channel are limiting factors for this use. In Segment C, Support Status should be Limited Support. Although Chinook and steelhead are known to use this area, water temperatures are marginal. Channel morphology, flow rates, and water temperature, are limiting factors for this use. In Segment D, Support Status should be Limited Support. Although Chinook and steelhead are known to use this area, water temperatures are marginal. Channel morphology, flow rates, and water temperature, are limiting factors for

**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	Sufficient on primary indicator; limited but sufficient on secondary indicator; limited on tertiary indicator	Fair	Aesthetics, flow (depth), fecal coliform, copper, mercury, nickel, chlordane	D0147	Non Support (primary indicator meets criteria during recreation season, some secondary indicators exceed relevant criteria, tertiary indicators do not appear to meet criteria)	B	D0206 has data on fecal coliform, but is 20 years old -- most data meets criteria for REC; limited data is available on several secondary indicators -- these indicate that chlordane and mercury exceed criteria in reach, as do some mercury sediment samples; aesthetics data indicates some problems, particularly with water clarity

**Watershed: Guadalupe**

**Waterbody: Guadalupe River**

**Reach: GR-5**

**Reach Length (miles):**

6.12

**Reach Limits (downstream to upstream):** Interstate 280 to Guadalupe and Alamitos Creek confluence

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Urban

REC-1	Sufficient on primary indicator; limited but sufficient on secondary indicator; limited on tertiary indicator	Fair	Aesthetics, flow (depth), fecal coliform, copper, mercury, nickel, chlordane	D0163	Non Support (primary indicator meets criteria during recreation season, some secondary indicators exceed relevant criteria, tertiary indicators do not appear to meet criteria)	B	D0206 has data on fecal coliform, but is 20 years old -- most data meets criteria for REC; limited data is available on several secondary indicators -- these indicate that chlordane and mercury exceed criteria in reach, as do some mercury sediment samples; aesthetics data indicates some problems, particularly with water clarity
				D0206			
				D0383			
				D0557			
				D0561			
				D0603			
				D0613			

**Local Knowledge Comments:** In Segment A, Support Status should be Limited Support. The reach supports small watercraft boating. The primary limiting factors for this use are water flow levels, access, pollution, debris, waterborne pathogens and rubble. In Segment B, Support Status should be Limited Support. The reach supports fishing, wading small watercraft boating. The primary limiting factors for this use are water flow levels, pollution, debris, waterborne pathogens and vagrant encampments. In Segment C, Support Status should be Limited Support. The reach supports fishing, wading small watercraft boating. The primary limiting factors for this use are water flow levels, access, pollution, debris, waterborne pathogens and vagrant encampments. In Segment D, Support Status should be Limited Support. The reach supports fishing, wading, small watercraft boating. The primary limiting factors for this use are water flow levels, access,

**Limiting Factor(s):** Fecal coliform exceeds criteria during winter; mercury, chlordane exceed criteria based on limited sampling; aesthetics appear to be poor throughout reach (water clarity, trash do not meet criteria)

**Suspected Cause(s):** Historic mining waste in stream contributes to mercury; uncertain regarding fecal coliform; chlordane is a component of commonly used pesticides/herbicides and is present in urban stormwater; trash is common in urban stream corridors; uncertain regarding water clarity (possible illicit discharges/spills).

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

**Fair/Poor Quality Data:**

**Watershed:** Guadalupe

**Waterbody:** Guadalupe Creek

**Reach:** GR/GC-1

**Reach Length (miles):** 2.41

**Reach Limits (downstream to upstream):** Guadalupe River to Camden Avenue

**Flow Regime:** Perennial (Intermittent in recent past)

**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, additional data on secondary habitat indicators	Fair	Riparian vegetation, fish assemblage, temperature, barriers, instream rearing habitat, macroinvertebrates, instream spawning habitat	D0001	Partial Support	A	Adult and juvenile rainbow trout observed in upstream portion of reach; no records for trout in lower half of reach; reach met insect criterion at midreach site during a very wet year (1998); suitable habitat declines with distance downstream in this reach
				D0087			
				D0102			
				D0135			
				D0157			
				D0160			
				D0201			
				D0227			
				D0312			
				D0315			
				D0422			
				D0438			
				D0569			
				D0624			
				D0625			

**Watershed: Guadalupe**

**Waterbody: Guadalupe Creek**

**Reach: GR/GC-1**

**Reach Length (miles): 2.41**

**Reach Limits (downstream to upstream): Guadalupe River to Camden Avenue**

**Flow Regime: Perennial (Intermittent in recent past)**

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

**Generalized Land Use in Area: Urban**

**Local Knowledge Comments:** Below Masson Dam, should be currently Not Supported but High Potential Support for Steelhead. There have been no salmonids observed living in this segment although rainbow trout are known to inhabit upstream segments and could now frequent this area on occasion. This segment of the creek is too shallow and hot to support salmonids, especially large Chinook, which are mainstem spawners. Average hourly water temperatures in this segment in dry months vary from 65 to 88 degrees F and in fall/winter months from 54 to 70 degrees F. They are greatly elevated from upstream temperatures because of the lack of shade cover, wide shallow channels and very low flow rates. At the upstream edge of this segment the Masson Dam provided a fish passage barrier until it was removed and replaced with a dam containing a fish ladder. Unfortunately the flashboard dam and fish ladder require constant maintenance and will have severe impacts on sediment transport and water temperature. Thousands of trees and bushes have been planted which should improve shade cover when they mature. If the new vegetation can protect the channel banks it may become more narrow and increase its depth as it tries to restore its natural form. Limiting Factors should be channel flow rates, morphology, water temperature, marginal shade/hide cover, and dam. Above Masson Dam, Support Status should be Supported. Rainbow trout are known to inhabit this stream segment and since the Masson Dam has been laddered there is potential for steelhead and perhaps even coho to return. Water temperatures in this area rarely get above 60 degrees F, even in the hot summer and early fall months. Limiting Factors should be flow levels.

**Limiting Factor(s):** Temperature and streamflow conditions decline downstream within reach; upper portion of reach meets criteria in wet years; limited temperature data exceeds criteria

**Suspected Cause(s):** Releases from Guadalupe Reservoir and Trans-Valley Pipeline for percolation support summer streamflow, but flow declines and temperatures increase within the reach. Amount and quality of fast-water feeding habitat therefore declines with the reach, and conditions change with year to year variation in the amount of releases. Upper half of the reach, with higher flows and lower temperatures is likely to be suitable, but lower half of reach may usually be too warm and slow. High storm flows resulting from urban runoff may degrade habitat. FAHCE information notes that the riparian zone in this reach is very sparse, the channel incised, and the substrate compacted leading to a fair to poor rating for salmonid habitat.

**Data Gap(s) - No Data:** Secondary Indicators = TSS, bankfull, stage, discharge and width, altered channel materials and dimensions, shaded riverine aquatic habitat, turbidity, water depth, dissolved oxygen, stream type, channel substrate, streambank erosion potential, width to depth ratio, special status species, 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	Sufficient	Fair	TDS, turbidity	D0102	Non Support	D	Uncertainty due to data gaps; only 2 of 16 parameters available

**Local Knowledge Comments:**

**Limiting Factor(s):** TDS

**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

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 set D0380 provides 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

**Watershed:** Guadalupe

**Waterbody:** Guadalupe Creek

**Reach:** GR/GC-1

**Reach Length (miles):** 2.41

**Reach Limits (downstream to upstream):** Guadalupe River to Camden Avenue

**Flow Regime:** Perennial (Intermittent in recent past)

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

**Generalized Land Use in Area:** Urban

PFF Sufficient Good

Channel capacity, design flow D0311 Full Support

A Data set D0380 provides 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

- D0321
- D0322
- D0323
- D0324
- D0325
- D0326
- D0380
- D0609
- D0621

**Local Knowledge Comments:** Reach should be split into two parts - above and below Masson Dam. Below Masson Dam, the channel is relatively wide and shallow due to a series of instream dirt spreader dams that were constructed every year up until 1995. There is little mature riparian habitat or shade cover as the dams would drown upstream vegetation and deprive down stream vegetation of any water. Water temperatures in this area are extremely elevated due to the lack of shade cover and the wide shallow channels. The channel should be listed as Quasi-Natural, Modified. A restoration project has just been completed in this segment which should reduce channel width and provide shade cover for the stream which should improve flows, increase habitat and decrease temperatures. Above Masson Dam, the channel is a typical meandering C-type channel. There is a good riparian area on both sides of the channel and there is a broad flood plain

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = historic 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; Limited observation data but habitat data allows for potential support finding	Fair	Special status species observations, Habitat	D0020	Potential Support	B	Potential support based on habitat conditions for yellow warbler, red legged frog (and double crested cormorant if included); data contains sightings of several special status species but few repeat
				D0084			
				D0087			
				D0112			
				D0113			
				D0135			

**Watershed: Guadalupe**

**Waterbody: Guadalupe Creek**

**Reach: GR/GC-1**

**Reach Length (miles): 2.41**

**Reach Limits (downstream to upstream):** Guadalupe River to Camden Avenue

**Flow Regime:** Perennial (Intermittent in recent past)

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

**Generalized Land Use in Area:** Urban

RARE	Sufficient; Limited observation data but habitat data allows for potential support finding	Fair	Special status species observations, Habitat	D0416	Potential Support	B	Potential support based on habitat conditions for yellow warbler, red legged frog (and double crested cormorant if included); data contains sightings of several special status species but few repeat
				D0569			
				D0609			

**Local Knowledge Comments:** Below Masson Dam, Support Status should be Non Support but High Potential. No rare species are known in this area. Channel morphology, flow rates, water temperatures, and lack of mature riparian vegetation are limiting factors for this use. Above Masson Dam, Support Status should be Full Support. The Limiting Factors should be flow levels and the dam. The SCVWD has conducted a specific survey in this reach for red legged frogs and found none.

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

**Suspected Cause(s):** Potential support based on habitat conditions for yellow warbler, red legged frog (and double crested cormorant if included); data contains sightings of several special status species but few repeat occurrences. Red-legged frog not thought to be present due to lack of suitable habitat and presence of aquatic predators. Habitat is marginal for salmonids as flow declines and temperatures increase within the reach. The amount and quality of fast-water feeding habitat therefore declines with the reach, and conditions change with year to year variation in the amount of releases. Upper half of the reach, with higher flows and lower temperatures is likely to be suitable, but lower half of reach may usually be too warm and slow. Data did not allow limiting factors specific to this reach affecting other special status species to be

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

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

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	No data available on primary or secondary indicators; limited data on tertiary indicators	Fair	Flow, aesthetics	D0102	Non Support based on tertiary indicator; no support statement is able to be made based on primary or secondary indicators	C	Data is very limited for this reach; aesthetics data does not include any information concerning stream access; no data available on primary or secondary
				D0148			
				D0383			

**Local Knowledge Comments:** Below Masson Dam, Support Status should be Limited Support. The reach supports fishing, wading and small watercraft boating at high flows. The primary limiting factors for this use are water flow levels, access, and the dam. Above Masson Dam, Support Status should be Limited Support. The reach supports fishing, wading small watercraft boating at high flows. The primary limiting factors for this use are water flow levels, access, debris and the dam.

**Limiting Factor(s):** Generally poor aesthetics and flow, including significant trash and debris

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Waterbody: Guadalupe Creek**

**Reach: GR/GC-2**

**Reach Length (miles): 3.42**

**Reach Limits (downstream to upstream): Camden Avenue to Guadalupe Reservoir**

**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	Good	Fish assemblage, instream rearing habitat, macroinvertebrates, barriers, dissolved oxygen, temperature, flow	D0020	Full Support	A	Rainbow trout are common in this reach; indicator macroinvertebrates were found at multiple sites in 1997 and 1998
				D0102			
				D0135			
				D0201			
				D0312			
				D0315			
				D0438			
				D0558			
				D0569			
				D0598			
				D0603			
				D0624			
				D0625			

**Local Knowledge Comments:** Support Status should be Supported. Rainbow trout are known to inhabit this stream segment and since the Masson Dam has been laddered there is potential for steelhead and perhaps even coho to return. Water temperatures in this area rarely get above 60 degrees F, even in the hot summer and early fall months.

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = turbidity, special status species, stream type, water depth, TSS, Width to depth ratio, bankfull, stage, discharge and width, shaded riverine aquatic habitat, channel substrate, dissolved oxygen, streambank erosion potential, altered channel materials and dimensions, 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	Sufficient	Fair	TDS, turbidity, nitrite, copper, fecal coliform, DDT, mercury, chlordane, diazinon,	D0102	Non Support	C	Data on 10 of 16 parameters; uncertainty due to lack of data on some parameters and age of data; generally unable to distinguish dry and wet weather
				D0206			
				D0558			

**Watershed: Guadalupe**

**Waterbody:** Guadalupe Creek

**Reach:** GR/GC-2

**Reach Length (miles):** 3.42

**Reach Limits (downstream to upstream):** Camden Avenue to Guadalupe Reservoir

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Rural

MUN Sufficient Fair TDS, turbidity, nitrite, copper, D0597 Non Support  
fecal coliform, DDT,  
mercury, chlordane, diazinon,

C Data on 10 of 16 parameters; uncertainty due to lack of data on some parameters and age of data; generally unable to distinguish dry and wet weather

**Local Knowledge Comments:**

**Limiting Factor(s):** Fecal coliform and turbidity, with some exceedances for DDT and TDS

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Chlorpyrifos, dieldrin, dioxin, MTBE, nitrate, PCB, selenium,

**Fair/Poor Quality Data:** TDS, turbidity, copper, fecal coliform, DDT, mercury, chlordane, diazinon, 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 set D0380 provides 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			
				D0322			
				D0323			
				D0324			
				D0325			
				D0326			
				D0380			
				D0609			
				D0621			

**Local Knowledge Comments:** The creek channel in this segment is a typical B type channel. There is a good riparian area on both sides of the channel with a narrow flood plain.

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = historic flooding occurrence information.

**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: Guadalupe**

**Waterbody: Guadalupe Creek**

**Reach: GR/GC-2**

**Reach Length (miles): 3.42**

**Reach Limits (downstream to upstream): Camden Avenue to Guadalupe Reservoir**

**Flow Regime: Perennial**

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

**Generalized Land Use in Area: Rural**

RARE	Sufficient for habitat; Limited for species observations	Fair	Special status species observations, Habitat	D0020	Potential Support	D	Potential support is based on limited red-legged frog observations within the reach as well as limited habitat data for red legged frog, yellow legged frog, western pond turtle, steelhead, and Chinook
				D0084			
				D0087			
				D0111			
				D0135			
				D0569			
				D0609			

**Local Knowledge Comments:** Support Status should be Full Support.

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

**Suspected Cause(s):**

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

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

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	Sufficient on primary indicator; limited but sufficient on secondary and tertiary indicators	Good	Flow (depth), aesthetics, fecal coliform, copper, nickel, mercury, DDT, e.coli, chlordane, dieldrin	D0102	Non Support (one sample exceeds primary indicator criteria during recreation season, some secondary indicators exceed relevant criteria, tertiary indicators do not meet criteria)	C	D0206 has data on fecal coliform, but is 20 years old; D0558 has more recent data which meets criteria -- most data meets criteria for REC; limited data is available on several secondary indicators -- these indicate that DDT and mercury exceed criteria in reach, as do mercury sediment samples; aesthetics data indicates some problems
				D0148			
				D0206			
				D0383			
				D0557			
				D0558			
				D0597			
				D0603			

**Watershed:** Guadalupe

**Waterbody:** Guadalupe Creek

**Reach:** GR/GC-2

**Reach Length (miles):** 3.42

**Reach Limits (downstream to upstream):** Camden Avenue to Guadalupe Reservoir

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Rural

**Local Knowledge Comments:** Support Status should be Limited Support. The reach supports fishing, wading small watercraft boating at high flows. The primary limiting factors for this use are water flow levels, debris and access.

**Limiting Factor(s):** One fecal coliform sample exceeds criterion during summer (recreation season) though more recent fecal coliform and e.coli data indicates support; mercury in water and sediment and DDT exceed criteria based on limited sampling; aesthetics appear to be poor throughout reach with excessive trash and debris noted in stream channel

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Reach: GR/GC-3**

**Reach Length (miles): 1.65**

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

**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	Limited but sufficient data on some primary indicators; secondary habitat indicator data available	Poor	Fish assemblage, instream rearing habitat, instream spawning habitat, temperature, barriers	D0158	Partial Support	C	Trout and other fish were present in a one time survey, but data is very limited and no macroinvertebrate data is available for this reach;
				D0160			
				D0312			
				D0315			

**Local Knowledge Comments:** Pipe culvert, waterfall and stream down cutting block anadromous fish migration and are limiting factors affecting these uses.

**Limiting Factor(s):** Instream spawning habitat does not meet particle size criteria

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = macroinvertebrates. Secondary Indicators = dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge, width, altered channel materials and dimensions, special status species, 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, Secondary Indicators = instream rearing habitat, temperature, physical barriers to migration

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: Guadalupe**

**Reach: GR/GC-3**

**Reach Length (miles): 1.65**

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

**Flow Regime: Perennial to Intermittent**

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

**Generalized Land Use in Area: Rural**

PFF	Sufficient	Good	Channel capacity, design flow	D0311	Full Support	A	Data set D0380 provides 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
				D0321			
				D0322			
				D0323			
				D0324			
				D0325			
				D0326			
				D0380			
				D0609			

**Local Knowledge Comments:** The channel enters Guadalupe Creek via an inadequate elevated pipe culvert under Hicks Road. This culvert is causing erosion both up and downstream of the pipe and due to the large amount of scour below the pipe, a waterfall has developed which blocks fish up-migration opportunities.

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = historic 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:** Pipe culvert, waterfall and stream down cutting block anadromous fish migration and are limiting factors affecting these uses.

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

**Suspected Cause(s):**

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

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

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 on primary, secondary, tertiary indicators available

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

**Watershed:** Guadalupe  
**Reach:** GR/GC-3

**Reach Length (miles):** 1.65  
**Flow Regime:** Perennial to Intermittent

**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: Guadalupe**

**Reach: GR/GC-4**

**Reach Length (miles): 2.24**

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

**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	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data available on either primary or secondary indicators

**Local Knowledge Comments:** Pipe culvert, waterfall and stream down cutting block anadromous fish migration and are limiting factors affecting these uses.

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = macroinvertebrates, fish assemblage. Secondary Indicators = dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge, width, altered channel materials and dimensions, special status species, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, instream rearing habitat, instream spawning habitat, temperature, 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
PFF	Sufficient	Good	Channel capacity, design flow	D0380	Full Support	A	Data set D0380 provides 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

**Watershed:** Guadalupe

**Reach:** GR/GC-4

**Reach Length (miles):** 2.24

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

**Flow Regime:** Intermittent

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

**Generalized Land Use in Area:** Rural

**Local Knowledge Comments:** The channel enters Guadalupe Creek via an elevated culvert under Hicks Road and the creek has been buried by the property owner on the west side of the road. This culvert is causing erosion downstream of the pipe and due to the large amount of scour below the pipe, a waterfall has developed which blocks fish up-migration opportunities.

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = historic 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:** Pipe culvert, waterfall and stream down cutting block anadromous fish migration and are limiting factors affecting these uses.

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

**Suspected Cause(s):**

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

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

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 on primary, secondary, tertiary indicators available

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed:** Guadalupe  
**Reach:** GR/GC/GR

**Waterbody:** Guadalupe Reservoir

**Reach Length (miles):**

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

**Flow Regime:** Reservoir

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

**Generalized Land Use in Area:** Rural

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Insufficient data on primary indicators; very limited data on secondary habitat	Good	Barriers, dissolved oxygen, temperature	D0312 D0315 D0558	Unable to Determine	N/A	Insufficient data available on primary and secondary indicators

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = macroinvertebrates, fish assemblage. Secondary Indicators = TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge, width, altered channel materials and dimensions, special status species, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, instream rearing habitat, instream spawning habitat, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB,

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	Sufficient	Good	Mercury, copper, fecal coliform, nitrite, turbidity, chlordane, diazinon, nitrate	D0558 D0584 D0642	Partial Support	B	Data on 7 of 16 parameters; uncertainty is due to lack of wet/dry weather correlation data and lack of data on several parameters

**Local Knowledge Comments:**

**Limiting Factor(s):** Several turbidity samples exceed criteria during winter/spring months

**Suspected Cause(s):** Uncertain

**Data Gap(s) - No Data:** Chlorpyrifos, DDT, dieldrin, dioxin, MTBE, 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
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**Watershed:** Guadalupe  
**Reach:** GR/GC/GR

**Reach Length (miles):**  
**Flow Regime:** Reservoir

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

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

**Generalized Land Use in Area:** Rural

PFF	None on primary indicators; data on secondary indicators consist of GIS shapefiles without hard supporting data available for	Fair	Historic flooding; 100-year flood zones	D0321	Full Support	D	(1) No data available on primary indicators; (2) SCVWD GIS files show no historic flooding around the reservoir; no areas within FEMA flood zones are
				D0322			
				D0323			
				D0324			
				D0326			

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

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

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Very limited data on historic species observations and general habitat (not reach specific)	Poor	Special status species observations, Habitat	D0020	Unable to Determine	N/A	Limited data on historic rainbow trout sightings; data is not of recent vintage; insufficient data to make a support statement
				D0084			
				D0087			
				D0135			

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

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

**Watershed:** Guadalupe

**Reach:** GR/GC/GR

**Reach Length (miles):**

**Flow Regime:** Reservoir

**Waterbody:** Guadalupe Reservoir

**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
REC-1	Sufficient on primary indicator; limited but sufficient on secondary indicator; no data on tertiary indicator	Good	Mercury, copper, e.coli, fecal coliform, chlordane, dieldrin	D0557	Full Support based on primary and limited secondary indicator data; no support statements are able to be made based on tertiary indicator	C	Fecal coliform and e.coli data are below criteria (1973 data appears to be total coliform and not of any use); limited water quality and sediment sampling meets relevant criteria or detection limit is above criteria; no data on aesthetics
				D0558			

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Waterbody: Guadalupe Creek**

**Reach: GR/GC-5**

**Reach Length (miles): 2.75**

**Reach Limits (downstream to upstream):** Entire Creek above Guadalupe Reservoir

**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	Good	Fish assemblage, barriers, macroinvertebrates	D0020	Full Support	A	Rainbow trout regularly present within reach; indicator macroinvertebrates found at one site in 1997 and 1998 in late summer
				D0201			
				D0312			
				D0315			
				D0438			
				D0624			
				D0625			

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = temperature, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge, width, altered channel materials and dimensions, special status species, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, instream rearing habitat, instream spawning habitat, dissolved oxygen, 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:** Guadalupe

**Waterbody:** Guadalupe Creek

**Reach:** GR/GC-5

**Reach Length (miles):** 2.75

**Reach Limits (downstream to upstream):** Entire Creek above Guadalupe Reservoir

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Rural

PFF Sufficient Good Channel capacity, design flow D0311 Full Support

A Data set D0380 provides 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

D0321  
D0322  
D0323  
D0324  
D0325  
D0326  
D0380  
D0609

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = historic 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	D0087	Full Support	B	Full support based on native rainbow trout

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**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:** Guadalupe

**Waterbody:** Guadalupe Creek

**Reach:** GR/GC-5

**Reach Length (miles):** 2.75

**Reach Limits (downstream to upstream):** Entire Creek above Guadalupe Reservoir

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Rural

REC-1	No data on primary or secondary indicators; insufficient data	Poor	Flow (depth)	D0383	Unable to Determine	N/A	No data on primary or secondary indicators is available; limited general data on water depth indicates that reach carries water in the summer -- cannot base support statement on this
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**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Waterbody: Los Gatos Creek**

**Reach: GR/LG-1**

**Reach Length (miles): 7.88**

**Reach Limits (downstream to upstream):** Guadalupe River confluence to Vasona Reservoir

**Flow Regime:** Perennial 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, additional data on secondary habitat indicators	Fair	Riparian vegetation, fish assemblage, temperature, altered channel dimensions, flow, instream rearing habitat, nickel, copper, TSS, barriers, dissolved oxygen, instream spawning habitat, macroinvertebrates	D0001	Partial Support and Potential Seasonal Support	B	Chinook spawning noted within reach; some juvenile steelhead records; indicator macroinvertebrates were not found in late summer in 1998
				D0044			
				D0046			
				D0048			
				D0049			
				D0102			
				D0135			
				D0207			
				D0311			
				D0312			
				D0315			
				D0328			
				D0412			
				D0418			
				D0419			
				D0422			
				D0423			
				D0438			
				D0569			
				D0603			
				D0625			

**Watershed: Guadalupe**

**Waterbody:** Los Gatos Creek  
**Reach:** GR/LG-1  
**Reach Limits (downstream to upstream):** Guadalupe River confluence to Vasona Reservoir  
**Channel Type(s):** Natural Modified

**Reach Length (miles):** 7.88  
**Flow Regime:** Perennial to Intermittent

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:** Segment A should be Limited Support. A steelhead/rainbow trout was observed and video documented living in the area of Santa Clara Street most of the summer several years ago. Average hourly water temperatures range from about 51 to 60 degrees F in the fall/winter months to 55 to 67 in the dry months. Chinook salmon and lamprey eel migrate through and probably spawn in this reach. Limiting Factors should be channel flow rates, morphology, water temperature, shade/hide cover, pollution and poaching. Segment B should be Limited Support. Steelhead trout, Chinook salmon and lamprey eel are known to migrate though and spawn in this segment. The riparian area and shade cover along this segment is poor due to heavy water diversions. Limiting Factors should be channel flow rates, morphology, water temperature, shade/hide cover, pollution and poaching. Segment C should be Limited Support. Steelhead trout, Chinook salmon and lamprey eel are known to migrate though and spawn in this segment. The riparian area and shade cover along this segment is fairly good. Limiting Factors should be channel flow rates, morphology, water temperature, shade/hide cover, pollution and poaching. Segment D should be Limited Support. Steelhead trout, Chinook salmon and lamprey eel are known to migrate though and spawn in this segment. The riparian area and shade cover along this segment are poor due to past instream seasonal dirt spreader dam construction but is now improving. Trees are being naturally recruited, the stream's width/depth ratio is decreasing and a meander pattern is emerging. Limiting Factors should be channel flow rates, morphology, water temperature, shade/hide cover, pollution and poaching. Segment E should be Not Supported. Temperatures are high in this segment as the water backs up behind the dams and bakes in the sun, as there is no shade cover. Segment F should be Limited Support. Temperatures are fairly high in this segment as the water flowing in to the area comes from Vasona Reservoir, which is a fairly small facility. Limiting Factors should be channel flow rates, morphology, water temperature, dams shade/hide cover, and pollution.

**Limiting Factor(s):** Low streamflows and high temperatures; indicator macroinvertebrates not present in late summer (1998)

**Suspected Cause(s):** Spring and summer streamflows dependent upon releases from Lexington and Vasona reservoirs, with substantial water heating through the percolation zones upstream of Meridian Avenue. Some augmentation from groundwater in wet periods (1995-1999). Low streamflows and high water temperatures restrict summer steelhead rearing to scarce fast-water habitats. Winter and spring water temperatures are likely to exceed Chinook spawning and rearing criteria, due to limited shading in portions of reach; however, temperature data and winter/spring fish sampling data are absent. High storm flows resulting from urban runoff may degrade habitat.

**Data Gap(s) - No Data:** Secondary Indicators = turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge, width, special status species, shaded riverine aquatic habitat, water depth, chlordane, chlorpyrifos, DDT, diazinon, dioxin, dieldrin, PCB, selenium, mercury.

**Fair/Poor Quality Data:** Primary Indicators = fish assemblage, macroinvertebrates. Secondary Indicators = riparian vegetation, temperature, altered channel materials and dimensions, flow, instream rearing habitat, nickel, copper, TSS, dissolved oxygen, physical barriers to migration.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	Sufficient	Fair	TDS, turbidity	D0102	Non Support	C	Data available on 2 of 16 parameters; high uncertainty due to lack of data on most parameters

**Local Knowledge Comments:**

**Limiting Factor(s):** TDS exceeds in both wet and dry seasons

**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

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

**Waterbody:** Los Gatos Creek

**Reach:** GR/LG-1

**Reach Length (miles):** 7.88

**Reach Limits (downstream to upstream):** Guadalupe River confluence to Vasona Reservoir

**Flow Regime:** Perennial to Intermittent

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

**Generalized Land Use in Area:** Urban

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); because of this, it was not necessary to review other data sets on secondary indicators; (2) this reach supports PFF except for two critical urban sections: 0 to 1800 (lower part of reach) and 37000 to 39650 where channel is too small

- D0311
- D0321
- D0322
- D0323
- D0324
- D0325
- D0326
- D0380
- D0609
- D0621



**Watershed: Guadalupe**

**Waterbody:** Los Gatos Creek

**Reach:** GR/LG-1

**Reach Length (miles):** 7.88

**Reach Limits (downstream to upstream):** Guadalupe River confluence to Vasona Reservoir

**Flow Regime:** Perennial to Intermittent

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

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:** Reach should be split into six segments - (A) Guadalupe River to Auzerais; (B) Auzerais to Lincoln; (C) Lincoln to Leigh; (D) Leigh to Camden; (E) Camden to Lark; and (F) Lark to Vasona Dam. Segment A always has a flow of water from groundwater pump discharges and upwelling and has a good but narrow riparian habitat. Should be listed as Quasi Natural, Straightened, Incised. Channel has very steep banks along most of its length and very limited access. Segment B usually dries out in the summer and has a narrow marginal riparian area with little SRA cover. Should be listed as Quasi Natural, Straightened, Widened, Incised. The riverine corridor has very steep banks along most of its length. Segment C usually has water in it unless the water is shut off by the SCVWD. The segment has a fairly good riparian area with good SRA cover. It also has some very deep pools, which are good holding areas for salmonids. Should be listed as Quasi Natural, Incised. The riverine corridor has very steep banks along most of its length. Segment D always has water in it but the riparian area is marginal because much of this segment had dirt instream spreader dams installed yearly until 1995 when the permits for such dams were not renewed. For the first few years after construction of the spread dams was prohibited, the channel was devoid of vegetation and was overly wide and shallow. In the past few years the channel has narrowed, started to meander and vegetation has established itself in the newly forming flood plain. There is a substantial drop structure at Campbell Ave. that salmonids can only jump at high flows. There is an impassable 20 foot high dam at Camden Ave./San Tomas Expressway, which blocks fish passage and navigation. Should be listed as Quasi Natural, Straightened, Widened, Incised. The riverine corridor has very steep banks along most of its length. Segment E always has water in it but there is little to no riparian area. The channel and corridor are straight and there are a series of impassable dams in this section. The 20-foot high Camden Ave./San Tomas Expressway dam blocks fish migration and navigation at the lower end of this segment. Should be listed as Modified, Straightened, Widened. The riverine corridor has very steep banks and a series of dams used for water percolation and diversion, which elevates water temperatures, limits downstream flows and block fish migration. Segment F always has water in it. There is a quasi-natural channel and fair to good riparian area. Should be listed as Quasi Natural. The river channel is fairly natural and has attempted to restore itself after the construction of the Vasona dam at the upstream end of this segment.

**Limiting Factor(s):** Channel cannot convey the expected 100-year flow in two specific segments of this reach; land uses adjacent to the channel in these segments consist of urban residential and/or commercial uses

**Suspected Cause(s):** (a) Creek may not have sufficient channel capacity to convey flood flows and/or (b) encroachment of urban and industrial developments into the natural channel floodplain. Problem segments are: 0 to 1800 (lower part of reach) and 37000 to 39650.

**Data Gap(s) - No Data:** Secondary Indicators = historic 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	D0020	Potential Support	B	Potential support based on yellow warbler, western pond turtle, and red-legged frog, a salmonid redd (nest), and double crested cormorant observations
				D0084			
				D0102			
				D0135			
				D0412			
				D0416			
				D0418			
				D0419			
				D0609			

**Watershed: Guadalupe**

**Waterbody:** Los Gatos Creek

**Reach:** GR/LG-1

**Reach Length (miles):** 7.88

**Reach Limits (downstream to upstream):** Guadalupe River confluence to Vasona Reservoir

**Flow Regime:** Perennial to Intermittent

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

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:** Segment A should be Limited Support. No rare species animal or bird species are known in this area. Channel morphology, flow rates, water temperatures, and lack of a wide riparian zone and steep eroding banks are limiting factors for this use. Segment B should be Limited Support. Chinook salmon and steelhead are known to migrate through and probably spawn in this segment. Channel morphology, flow rates, water temperatures, and lack of a wide riparian zone and steep eroding banks are limiting factors for this use. Segment C should be Limited Support. Chinook salmon and steelhead are known to migrate through and spawn in this segment. Channel morphology, flow rates, water temperatures, and steep eroding banks are limiting factors for this use. Segment D should be Limited Support. Chinook salmon and steelhead are known to migrate through and spawn in this segment. Channel morphology, flow rates, water temperatures, and lack of a mature riparian zone and steep eroding banks are limiting factors for this use. Segment E should be Not Supported. There is no riparian habitat in the area and no rare species are known to exist in or frequent the area. Segment F should be Potential Support. This segment has good riparian habitat in the area and could easily support rare species. Channel morphology, flow rates, water temperatures, and dams are limiting factors for this

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

**Suspected Cause(s):** Potential support based on yellow warbler, western pond turtle, and red-legged frog, a salmonid redd (nest), and double crested cormorant observations. Low streamflows and high water temperatures restrict summer steelhead rearing to scarce fast-water habitats. Winter and spring water temperatures are likely to exceed Chinook spawning and rearing criteria, due to limited shading in portions of reach. Data did not allow limiting factors specific to this reach affecting other special status species

**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	Sufficient data on primary indicators; sufficient but limited data on secondary indicators; limited but sufficient data on tertiary indicators	Good	Flow (depth), mercury, fecal coliform, copper, nickel, DDT, aesthetics	D0102  D0206 D0557 D0603	Non Support based on primary indicator data (secondary indicator data also signals Non Support, tertiary indicator data also signals Non Support)	C	Fecal coliform data exceeds criteria during winter sampling but data is 20 years old; Mercury in sediment meets criteria but DDT in water exceeds - no other data on primary or secondary indicators is available; water depth appears marginal for REC-1 but data is limited; garbage, oil, and other refuse appears throughout reach based on 1995 data

**Watershed:** Guadalupe

**Waterbody:** Los Gatos Creek

**Reach:** GR/LG-1

**Reach Length (miles):** 7.88

**Reach Limits (downstream to upstream):** Guadalupe River confluence to Vasona Reservoir

**Flow Regime:** Perennial to Intermittent

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

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:** Segment A should be Limited Support. The reach supports fishing, wading and small watercraft boating at moderate flows. The primary limiting factors for this use are water flow levels, access, pollution, debris, waterborne pathogens and vagrant encampments. Segment B should be Limited Support. The reach supports fishing, wading and small watercraft boating at moderate flows. The primary limiting factors for this use are water flow levels, access, pollution, debris, waterborne pathogens and vagrant encampments. Segment C should be Limited Support. The reach supports fishing, wading and small watercraft boating at moderate flows. The primary limiting factors for this use are water flow levels, access, pollution, debris, and waterborne pathogens. Segment D should be Limited Support. The reach supports fishing, wading and small watercraft boating at moderate flows. The primary limiting factors for this use are water flow levels, access, pollution, debris, and waterborne pathogens. Segment E should be Potential Limited Support. This area could provided limited support for fishing. It is possible for warm water fish, such as carp, to live in this area if they are washed over the dams or through the diversion gates. Segment F should be Limited Support. This area provides limited support for fishing, wading and small watercraft boating. The primary limiting factors for this

**Limiting Factor(s):** Fecal coliform data exceeds criterion during winter; DDT; trash and oil problems

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed:** Guadalupe  
**Reach:** GR/LG/VR

**Waterbody:** Vasona Reservoir

**Reach Length (miles):**

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

**Flow Regime:** Reservoir

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

**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 data on primary indicators; very limited data on secondary habitat	Fair	Barriers	D0312	Unable to Determine	N/A	Insufficient data available on primary and secondary indicators

D0315

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

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

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	Sufficient	Fair	Nitrate, fecal coliform, turbidity	D0584	Non Support	C	Nitrate data is too old to be of use, support statement based on fecal coliform and turbidity; as no exceedances have been noted between 1998 and 2001, water quality in this reservoir may be

D0642

**Local Knowledge Comments:**

**Limiting Factor(s):** Fecal coliform, turbidity

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, MTBE, PCB, selenium, mercury, nickel, TDS

**Fair/Poor Quality Data:** Nitrate, fecal coliform, turbidity

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

**Reach:** GR/LG/VR

**Reach Length (miles):**

**Flow Regime:** Reservoir

**Waterbody:** Vasona Reservoir

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

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

**Generalized Land Use in Area:** Transition

PFF	None on primary indicators; data on secondary indicators is in the form of GIS shapefiles with no hard data available for review	Fair	Historic flooding; 100-year flood zones	D0311	Full Support	C	(1) No data available on primary indicators; (2) secondary indicator data consists of SCVWD GIS files which display FEMA flood zones and historic flooding; FEMA flood zone extends beyond reservoir perimeter at upstream end; no hard data available to review; land uses in the area that would be inundated consist of parks and recreation; therefore, reach would still support PFF as no critical urban land uses would be affected
				D0321			
				D0322			
				D0323			
				D0324			
				D0326			

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

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

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Sufficient but Limited	Fair	Special status species observations	D0020	Potential Support	D	Potential support based on western pond turtle observation; little data available however
				D0111			
				D0609			

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**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:** Guadalupe  
**Reach:** GR/LG/VR

**Reach Length (miles):**  
**Flow Regime:** Reservoir

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

**Generalized Land Use in Area:** Transition

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

REC-1    None                    N/A                    N/A

No Data    Unable to Determine  
Sets

N/A    1973 coliform data was not used as it appears to be total coliform, not fecal; no other data on primary, secondary, tertiary indicators are available

**Local Knowledge Comments:** Support Status should be Limited Support. This area provides limited support for fishing, wading and small watercraft boating. The primary limiting factors for this use are waterborne pathogens.

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Waterbody:** Los Gatos Creek

**Reach:** GR/LG-2

**Reach Length (miles):** 2.07

**Reach Limits (downstream to upstream):** Vasona Reservoir to County Park boundary

**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	Insufficient on primary indicators, additional data on secondary habitat indicators	Poor	Riparian vegetation, barriers, temperature, macroinvertebrates	D0311	Potential Support	C	No fish data for reach; indicator macroinvertebrates were found in late summer in 1998
				D0312			
				D0315			
				D0603			
				D0625			

**Local Knowledge Comments:** Limiting Factors should be channel flow rates, morphology, water temperature, dams shade/hide cover, and pollution.

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:** Primary Indicators = macroinvertebrates. Secondary Indicators = riparian vegetation, temperature, physical barriers to migration.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	Sufficient	Fair	TDS, turbidity	D0102	Non Support	D	Data on 2 of 16 parameters; some question concerning data quality; high uncertainty due to data

**Local Knowledge Comments:**

**Limiting Factor(s):** TDS exceeds criteria during wet season

**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

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

**Waterbody:** Los Gatos Creek

**Reach:** GR/LG-2

**Reach Length (miles):**

2.07

**Reach Limits (downstream to upstream):** Vasona Reservoir to County Park boundary

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Transition

PFF Sufficient Good Channel capacity, design flow D0311 Full Support

A (1) 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; (2) this reach supports PFF except for one section: 46000 to 47550 where channel is too small; however, land uses are park/recreation open space so segment

D0321  
D0322  
D0323  
D0324  
D0325  
D0326  
D0380  
D0609  
D0621

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = historic 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 but Limited	Fair	Special status species observations	D0020	Potential Support	D	Potential support based on Yellow warbler observation; little data available however
				D0084			
				D0112			
				D0609			



**Watershed: Guadalupe**

**Waterbody:** Los Gatos Creek

**Reach:** GR/LG-2

**Reach Length (miles):** 2.07

**Reach Limits (downstream to upstream):** Vasona Reservoir to County Park boundary

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Transition

**Local Knowledge Comments:** Support Status should be Limited Support. If there was a special status species observed using the area there must be limited support. Channel morphology, flow rates, water temperatures, good riparian areas and dams are limiting factors for this use.

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	Limited but sufficient data available on primary and secondary indicators; limited and insufficient data available on tertiary indicator	Fair	Flow (depth), fecal coliform, copper, nickel, mercury	D0102  D0206 D0383	Full Support based on primary and secondary indicator data; insufficient data on tertiary indicators available	C	Data on fecal coliform meets criteria but data is 20 years old, leading to higher uncertainty; water and sediment quality data meets relevant criteria but data is old; limited water depth data indicates flows that are too minimal to support recreational use but data is very limited and insufficient to base support statement on; no other data available on indicators

**Local Knowledge Comments:** Support Status should be Limited Support. This area most likely supports fishing and wading. The primary limiting factors for this use are water flow levels, access, and waterborne pathogens.

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Waterbody:** Los Gatos Creek

**Reach:** GR/LG-3

**Reach Length (miles):** 1.01

**Reach Limits (downstream to upstream):** County Park boundary to Lexington Reservoir

**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	Insufficient on primary indicators, additional data on secondary habitat indicators	Poor	Riparian vegetation, barriers, temperature, macroinvertebrates	D0311 D0312 D0315 D0625	Potential Support	C	No fish data for reach; indicator macroinvertebrates were found in late summer in 1998

**Local Knowledge Comments:** Limiting Factors should be channel flow rates, morphology, water temperature, dams shade/hide cover, and pollution.

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:** Primary Indicators = macroinvertebrates. Secondary Indicators = riparian vegetation, temperature, physical barriers to migration.

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, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, MTBE, nitrate, PCB, selenium, mercury, nickel, TDS, turbidity

**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	D0311	Full Support	A	Data set D0380 provides 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

**Watershed: Guadalupe**

**Waterbody:** Los Gatos Creek

**Reach:** GR/LG-3

**Reach Length (miles):** 1.01

**Reach Limits (downstream to upstream):** County Park boundary to Lexington Reservoir

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Rural

PFF Sufficient Good Channel capacity, design flow D0321 Full Support

A Data set D0380 provides 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

- D0322
- D0323
- D0324
- D0325
- D0326
- D0380
- D0609
- D0621

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = historic 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	Insufficient for support statement	Poor	Special status species observations	D0020	Unable to Determine	N/A	No recent, reach-specific species or habitat data is available
				D0084			
				D0609			

**Local Knowledge Comments:** Channel morphology, flow rates, water temperatures, good riparian areas and dams are limiting factors for this use.

**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
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**Watershed:** Guadalupe

**Waterbody:** Los Gatos Creek

**Reach:** GR/LG-3

**Reach Length (miles):**

1.01

**Reach Limits (downstream to upstream):** County Park boundary to Lexington Reservoir

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Rural

REC-1	No data on primary indicators; sufficient but very limited data on secondary indicators; insufficient, limited data on tertiary indicators	Good	Flow (depth), mercury, copper, nickel	D0383	Full Support based on secondary indicators; partial support based on tertiary indicators; no support statement able to be made for primary indicators	C	Limited water quality data indicates support based on 3 secondary indicators; water depth appears to be marginal during dry seasons; no other data available on primary indicators
				D0597			
				D0603			

**Local Knowledge Comments:** Support Status should be Limited Support. This area most likely supports fishing and wading. The primary limiting factors for this use are water flow levels, access, and waterborne pathogens.

**Limiting Factor(s):** Water depth is marginal for supporting recreation during dry season

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed:** Guadalupe

**Reach:** GR/LG/LR

**Reach Length (miles):**

**Flow Regime:** Reservoir

**Waterbody:** Lexington Reservoir

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

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

**Generalized Land Use in Area:** Rural

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Insufficient data on primary indicators; very limited data on secondary habitat	Good	Temperature, dissolved oxygen, barriers	D0246 D0312 D0315	Unable to Determine	N/A	Insufficient data available on primary and secondary indicators

**Local Knowledge Comments:** Should be Supported. There are many reports that the reservoir supports rainbow trout. Limiting Factors should be water temperature, dams and pollution. The dam itself, however, in conjunction with 13 other diversions upstream of the reservoir (SJWC) eliminates salmonid access to the tributary headwaters which feature some of the best habitat in the watershed.

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = fish assemblage, macroinvertebrates. Secondary Indicators = TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge, width, altered channel materials and dimensions, special status species, shaded riverine aquatic habitat, water depths and velocities, instream rearing habitat, instream spawning habitat, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel.

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

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	Limited but sufficient	Good	Mercury, nitrite, fecal coliform, nickel, nitrate	D0246 D0584 D0642	Non Support	D	Data on 6 of 16 parameters; high uncertainty due to data gaps and age of data; unable to distinguish between wet and dry weather samples; Most samples from recent years are below criteria suggesting that water quality may be improving in this reservoir

**Local Knowledge Comments:**

**Limiting Factor(s):** Fecal coliform and turbidity

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, MTBE, PCB, selenium, TDS, turbidity

**Fair/Poor Quality Data:**

**Watershed:** Guadalupe

**Reach:** GR/LG/LR

**Waterbody:** Lexington Reservoir

**Reach Length (miles):**

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

**Flow Regime:** Reservoir

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

**Generalized Land Use in Area:** Rural

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
PFF	None on primary indicators; data on secondary indicators is in the form of GIS shapefiles with no hard data available for review	Fair	Historic flooding; 100-year flood zones	D0311	Full Support	C	(1) No data available on primary indicators; (2) secondary indicator data consists of SCVWD GIS files which display FEMA flood zones and historic flooding; FEMA flood zone extends beyond reservoir perimeter in a few places; no hard data available to review; land uses in the area that would be inundated consist of parks and recreation; therefore, reach would still support PFF as no critical urban land uses would be affected
				D0321			
				D0322			
				D0323			
				D0324			
				D0326			

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

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

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Insufficient for support statement	Poor	Special status species observations	D0020	Unable to Determine	N/A	No recent, reach-specific species or habitat data is available

**Local Knowledge Comments:** Should be Limited Support. It is almost certain that Lexington supports trout. Water temperature, well-vegetated perimeter areas, access and dams are limiting factors for this use.

**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.

**Watershed:** Guadalupe  
**Reach:** GR/LG/LR

**Reach Length (miles):**  
**Flow Regime:** Reservoir

**Waterbody:** Lexington Reservoir  
**Reach Limits (downstream to upstream):** Entire Reservoir  
**Channel Type(s):** N/A

**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	Sufficient on primary indicator; limited but sufficient on secondary indicators; no data on tertiary	Fair	Fecal coliform, mercury, nickel	D0246  D0557	Full Support (based on primary and secondary indicators; no data on tertiary indicators)	D	No data is available on tertiary aesthetics indicators in order to make a confident support statement; 1973 coliform data not used as it appears to be for total, not fecal coliform

**Local Knowledge Comments:** This area supports fishing, wading and boating. The primary limiting factors for this use are water levels, access, pollution and waterborne pathogens.

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Waterbody: Los Gatos Creek**

**Reach: GR/LG-4**

**Reach Length (miles): 4.15**

**Reach Limits (downstream to upstream): Lexington Reservoir to Lake Elsmar**

**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	Good	Fish assemblage, barriers, macroinvertebrates	D0020	Full Support	A	Trout regularly present in reach; indicator macroinvertebrates were found in late summer in 1998 at two sites
				D0312			
				D0315			
				D0438			
				D0625			

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge, width, altered channel materials and dimensions, special status species, shaded riverine aquatic habitat, water depths and velocities, instream rearing habitat, instream spawning habitat, dissolved oxygen, temperature, riparian vegetation, 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	Limited but sufficient	Poor	Mercury, nitrite, fecal coliform, nickel	D0246	Non Support	D	Data on 4 of 16 parameters; high uncertainty due to data gaps and age of data; unable to distinguish between wet and dry weather samples

**Local Knowledge Comments:**

**Limiting Factor(s):** Fecal coliform

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, MTBE, PCB, selenium, TDS, turbidity, nitrate

**Fair/Poor Quality Data:** Mercury, fecal coliform, nickel

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

**Waterbody: Los Gatos Creek**

**Reach: GR/LG-4**

**Reach Length (miles): 4.15**

**Reach Limits (downstream to upstream): Lexington Reservoir to Lake Elsman**

**Flow Regime: Perennial**

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

**Generalized Land Use in Area: Rural**

PFF	Sufficient	Good	Channel capacity, design flow	D0311	Full Support	A	Data set D0380 provides 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
				D0321			
				D0322			
				D0323			
				D0324			
				D0325			
				D0326			
				D0380			
				D0609			

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = historic 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	D0020	Potential Support	B	Potential support based on CA red-legged frog and western pond turtle observations
				D0111			

**Local Knowledge Comments:**

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

**Suspected Cause(s):** Potential support based on CA red-legged frog and western pond turtle observations. Data did not allow limiting factors specific to this reach affecting other special status species to be identified.

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

**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:** Guadalupe

**Waterbody:** Los Gatos Creek

**Reach:** GR/LG-4

**Reach Length (miles):**

4.15

**Reach Limits (downstream to upstream):** Lexington Reservoir to Lake Elsman

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Rural

REC-1	Limited but sufficient on primary indicator; insufficient on secondary indicator; no data on tertiary indicator	Poor	Fecal coliform, mercury, nickel	D0246	Full Support based on primary indicator data; insufficient data on secondary and tertiary indicators available	D	Fecal coliform data is limited; no other useful data is available
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**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Waterbody:** Los Gatos Creek

**Reach:** GR/LG-5

**Reach Length (miles):** 4.13

**Reach Limits (downstream to upstream):** Entire Creek above Williams Reservoir

**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 but limited on primary indicators, additional data on secondary habitat indicators	Poor	Instream spawning habitat, fish assemblage, instream rearing habitat, macroinvertebrates, barriers	D0043	Partial Support	C	Rainbow trout observed on one occasion but data is very old; recent macroinvertebrate data did not find indicator insects in late summer; high uncertainty
				D0312			
				D0315			
				D0625			

**Local Knowledge Comments:**

**Limiting Factor(s):** Indicator macroinvertebrates not present in late summer

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:** Primary Indicators = fish assemblage, macroinvertebrates. Secondary Indicators = stream rearing habitat, physical barriers to migration.

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	Sufficient	Good	Channel capacity, design flow	D0311	Full Support	A	Data set D0380 provides 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

**Watershed:** Guadalupe

**Waterbody:** Los Gatos Creek

**Reach:** GR/LG-5

**Reach Length (miles):** 4.13

**Reach Limits (downstream to upstream):** Entire Creek above Williams Reservoir

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Rural

PFF Sufficient Good Channel capacity, design flow D0321 Full Support

A Data set D0380 provides 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

D0322  
D0323  
D0324  
D0325  
D0326  
D0380  
D0609

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = historic 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	Insufficient for support statement	Poor	Special status species observations	D0020	Unable to Determine	N/A	No recent, well-documented, reach-specific species or habitat data is available
				D0043			

**Local Knowledge Comments:**

**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	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data on primary, secondary, tertiary indicators available

**Waterbody:** Los Gatos Creek  
**Watershed:** Guadalupe  
**Reach:** GR/LG-5  
**Reach Length (miles):** 4.13  
**Reach Limits (downstream to upstream):** Entire Creek above Williams Reservoir  
**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:**

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Reach: GR/LG-8**

**Reach Length (miles): 2.04**

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

**Flow Regime: Ephemeral**

**Channel Type(s): 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	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data available on either primary or secondary indicators

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = macroinvertebrates, fish assemblage. Secondary Indicators = dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge, width, altered channel materials and dimensions, special status species, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, instream rearing habitat, instream spawning habitat, temperature, 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
PFF	Sufficient	Good	Channel capacity, design flow	D0380	Full Support	A	Data set D0380 provides 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

**Watershed:** Guadalupe

**Reach:** GR/LG-8

**Reach Length (miles):** 2.04

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

**Flow Regime:** Ephemeral

**Channel Type(s):** Concrete-lined

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**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 on primary, secondary, tertiary indicators available

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Reach: GR/LG-13**

**Reach Length (miles): 1.26**

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

**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 but limited on one primary indicator, very limited data on secondary habitat indicator available	Good	Fish assemblage, barriers	D0312	Partial Support	B	Rainbow trout observed in 2001 by USFWS; no indicator macroinvertebrate data is available; no other habitat data is available
				D0315			
				D0598			

**Local Knowledge Comments:**

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

**Suspected Cause(s):** Probably fully supported, at least during wet years, but insect data are absent.

**Data Gap(s) - No Data:** Primary Indicators = macroinvertebrates. Secondary Indicators = dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge, width, altered channel materials and dimensions, special status species, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, instream rearing habitat, instream spawning habitat, temperature, 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 primary or secondary indicators



**Watershed:** Guadalupe

**Reach:** GR/LG-13

**Reach Length (miles):** 1.26

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

**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:** Primary Indicators = estimated 100-yr flood flow, design channel capacity. Secondary Indicators = historic 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. Secondary Indicators = habitat requirements.

**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 on primary, secondary, tertiary indicators available

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Reach: GR/LG-19**

**Reach Length (miles): 2.21**

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

**Flow Regime: Ephemeral**

**Channel Type(s): Concrete-lined, rock-lined**

**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 either primary or secondary indicators

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = macroinvertebrates, fish assemblage. Secondary Indicators = dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge, width, altered channel materials and dimensions, special status species, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, instream rearing habitat, instream spawning habitat, temperature, 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
PFF	Sufficient	Good	Channel capacity, design flow	D0380	Full Support	A	Data set D0380 provides 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

**Watershed:** Guadalupe

**Reach:** GR/LG-19

**Reach Length (miles):** 2.21

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

**Flow Regime:** Ephemeral

**Channel Type(s):** Concrete-lined, rock-lined

**Generalized Land Use in Area:** Transition

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**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 on primary, secondary, tertiary indicators available

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed:** Guadalupe

**Reach:** GR/AL/LA

**Reach Length (miles):**

**Flow Regime:** Reservoir

**Waterbody:** Lake Almaden

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

**Generalized Land Use in Area:** Urban

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

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Limited but sufficient data on primary indicators, other data is available on secondary habitat indicators	Poor	Fish assemblage, turbidity, temperature, dissolved oxygen	D0073	Potential/Seasonal Support	C	Rainbow trout observed in spring 1996 but no summer fish data is available; no indicator macroinvertebrate data is available; other habitat data indicates that temperature and turbidity exceed criteria in places but data is temporally limited
				D0074			
				D0075			
				D0076			
				D0077			
				D0078			

**Local Knowledge Comments:** This lake most likely would not support cold water species. Water temperature is far too warm. Data loggers on lower parts of Guadalupe and Alamos Creek and one just downstream of the Alamos Drop Structure all indicate high summer and winter temperatures not favored by salmonids.

**Limiting Factor(s):** Turbidity is high, temperature at surface is high

**Suspected Cause(s):**

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

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

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:** Guadalupe

**Reach:** GR/AL/LA

**Waterbody:** Lake Almaden

**Reach Length (miles):**

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

**Flow Regime:** Reservoir

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

**Generalized Land Use in Area:** Urban

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
PPF	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 = estimated 100-yr flood flow, design channel capacity. Secondary Indicators = historic 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:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
REC-1	Data on one primary indicator	Fair	Fecal coliform	D0641	Full Support for primary indicator based on limited data; No data on secondary or tertiary indicators	C	Limited data on primary; No data on secondary, tertiary indicators available

**Local Knowledge Comments:** This lake supports swimming, wading, fishing and boating.

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed:** Guadalupe

**Waterbody:** Alamitos Creek

**Reach:** GR/AL-1

**Reach Length (miles):** 3.08

**Reach Limits (downstream to upstream):** Lake Almaden to Arroyo Calero confluence

**Flow Regime:** Perennial

**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; additional data available on secondary habitat indicators	Fair	Flow, fish assemblage, riparian vegetation, macroinvertebrates, instream spawning habitat, temperature, barriers, instream rearing habitat,	D0024	Partial Support	A	Rainbow trout present within reach; reach does not meet insect criteria at 2 out of 3 sites during key late summer period
				D0028			
				D0029			
				D0030			
				D0087			
				D0102			
				D0163			
				D0201			
				D0311			
				D0312			
				D0315			
				D0328			
				D0438			
				D0569			
				D0603			
				D0613			
				D0625			

**Watershed: Guadalupe**

**Waterbody:** Alamitos Creek

**Reach:** GR/AL-1

**Reach Length (miles):** 3.08

**Reach Limits (downstream to upstream):** Lake Almaden to Arroyo Calero confluence

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:** Below Greystone Creek, should probably be either Not Supported or Very Limited Support. Water temperatures in this segment are high due to wide channel width and lack of riparian area and shade cover. Winter temperatures normally range from 55 to 60 degrees F and spring, summer and fall temperatures range from the mid 60's to low 70's. Limiting Factors should be channel flow rates, morphology, water temperature, drop structures, downstream, the lake and dam, poor riparian area, shade/hide cover, and pollution. Above Greystone Creek, should be Limited Support. Rainbow Trout have been reported in this segment of creek. Limiting Factors should be channel flow rates, morphology, water temperature, drop structures, downstream lake and dam, poor riparian area,

**Limiting Factor(s):** Indicator macroinvertebrates not present at 2 of 3 locations in late summer

**Suspected Cause(s):** Releases from Almaden and Calero Reservoirs for percolation provide summer streamflow, but flows decline and temperatures increase within the reach. Fast-water feeding habitat declines downstream within the reach. Channel is less shaded downstream within the reach increasing temperature effects. High storm flows resulting from urban runoff may degrade habitat. FAHCE information notes that this reach contains a suitable combination of pools, riffles, and runs with good quality habitat and relatively good complex shelter for salmonids.

**Data Gap(s) - No Data:** Secondary Indicators = TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge, width, altered channel materials and dimensions, special status species, shaded riverine aquatic habitat, dissolved oxygen, water depth, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, 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	D0102	Non Support	C	Data on 2 of 16 parameters; some question concerning data quality; high uncertainty due to data gaps; unable to distinguish between dry and wet

**Local Knowledge Comments:**

**Limiting Factor(s):** TDS

**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

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 set D0380 provides 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			
				D0322			
				D0323			

**Watershed: Guadalupe**

**Waterbody:** Alamitos Creek

**Reach:** GR/AL-1

**Reach Length (miles):** 3.08

**Reach Limits (downstream to upstream):** Lake Almaden to Arroyo Calero confluence

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Urban

PFF	Sufficient	Good	Channel capacity, design flow	D0324	Full Support	A	Data set D0380 provides 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
				D0325			
				D0326			
				D0380			
				D0593			
				D0609			
				D0621			

**Local Knowledge Comments:** The creek is affected by the flood control project where it was over-widened from Lake Almaden upstream. This reach should be split into two segments - above and below Greystone Creek. Below Greystone Creek, it should be listed as a Modified Straightened channel. Just upstream of Golf Creek there is a drop structure and an overflow channel and a very wide corridor. There is another drop structure where the creek empties into Lake Almaden. These drop structures inhibit fish migration except at high flows. Above Greystone Creek, it should be listed as a Quasi Natural, Modified channel. There is more riparian habitat and shade cover and the creek channel starts to meander and is far less incised.

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = historic 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	D0020	Full Support	B	Full support based on native rainbow trout observations; habitat is marginal to poor for salmonids
				D0084			
				D0087			
				D0102			
				D0569			
				D0609			



**Watershed:** Guadalupe

**Waterbody:** Alamitos Creek

**Reach:** GR/AL-1

**Reach Length (miles):** 3.08

**Reach Limits (downstream to upstream):** Lake Almaden to Arroyo Calero confluence

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:** Below Greystone Creek, should be Limited support. Riparian and channel habitat is poor in this area, water temperatures are warm and drop structures impede movement. Channel morphology, flow rates, water temperature, poor riparian area drop structures and downstream lake and dam are limiting factors for this use. Above Greystone Creek, channel morphology, flow rates, water temperature, poor riparian area drop structures and downstream lake and dam are limiting factors for this use.

**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	Good	Aesthetics, flow (depth)	D0102 D0199 D0383 D0603	Partial Support based on tertiary indicators; no support statement able to be developed on primary and secondary	C	Aesthetics data indicates some algae and debris/garbage problems and flow appears to be marginal for supporting summer recreation

**Local Knowledge Comments:** Below Greystone Creek, should be Limited Support. This area supports fishing and wading and small watercraft boating. The primary limiting factors for this use are water flow levels, access, and waterborne pathogens. Above Greystone Creek, should be Limited Support. This area supports fishing and wading and small watercraft boating. The primary limiting factors for this use are water flow levels, access, and waterborne pathogens.

**Limiting Factor(s):** Some concern over aesthetics and marginal flow for summer recreation

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Waterbody: Alamitos Creek**

**Reach: GR/AL-2**

**Reach Length (miles): 4.30**

**Reach Limits (downstream to upstream): Arroyo Calero confluence to Almaden Reservoir**

**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 available on secondary habitat indicators	Fair	Temperature, flow, turbidity, dissolved oxygen, fish assemblage, riparian vegetation, macroinvertebrates, instream rearing habitat, barriers, instream spawning habitat	D0023	Partial Support	A	Rainbow trout regularly present; steelhead observed occasionally; indicator macroinvertebrates present but not in late summer during most recent sampling (DO625) possibly due to 97/98 reservoir construction; mercury exceeds criteria
				D0025			
				D0026			
				D0031			
				D0102			
				D0163			
				D0201			
				D0311			
				D0312			
				D0315			
				D0438			
				D0569			
				D0598			
				D0603			
				D0613			
				D0625			

**Local Knowledge Comments:** Limiting Factors should be channel flow rates, morphology, water temperature, drop structures, downstream lake and dam, poor riparian area, shade/hide cover, and pollution.

**Limiting Factor(s):** Indicator macroinvertebrates not present in late summer 1998; older data indicates they are present; mercury exceeds criteria; turbidity exceeds criteria in limited sampling

**Suspected Cause(s):** Releases from Almaden Reservoir for percolation in downstream reaches maintain relatively high and cool streamflows for most of summer in most years. Outlet structures require periodic maintenance and reservoir draining, which may impact availability of streamflow and could affect indicator macroinvertebrate presence. FAHCE information notes that this reach contains a suitable combination of pools, riffles, and runs with good quality habitat and relatively good complex shelter for

**Data Gap(s) - No Data:** Secondary Indicators = TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge, width, altered channel materials and dimensions, special status species, shaded riverine aquatic habitat, dissolved oxygen, water depth, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, nickel.

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Waterbody:** Alamitos Creek

**Reach:** GR/AL-2

**Reach Length (miles):** 4.30

**Reach Limits (downstream to upstream):** Arroyo Calero confluence to Almaden Reservoir

**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	D0023 D0102	Partial Support	D	Data on 2 of 16 parameters; some question concerning data quality; high uncertainty due to data

**Local Knowledge Comments:**

**Limiting Factor(s):** TDS during wet season

**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

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	(1) Data set D0380 provides 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; (2) this reach supports PFF except for one section: 23000 to 33100 where channel is too small; however, land uses are undeveloped and open space so segment is not
				D0311			
				D0321			
				D0322			
				D0323			
				D0324			
				D0325			
				D0326			
				D0380			
				D0593			

**Watershed: Guadalupe**

**Waterbody:** Alamitos Creek

**Reach:** GR/AL-2

**Reach Length (miles):** 4.30

**Reach Limits (downstream to upstream):** Arroyo Calero confluence to Almaden Reservoir

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Transition

**Local Knowledge Comments:** The creek is affected by the flood control project where it was over-widened from the confluence with Arroyo Calero upstream to McKean; above McKean it appears much more natural; the creek re-routed itself near New Almaden per some storm flow action, resulting in some stream meander

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = historic 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	D0020	Full Support	B	Full support based on native rainbow trout observations, potential support for western pond turtle and red legged frog; habitat conditions appear marginal for salmonids at lower end of reach but good at upper end
				D0027			
				D0084			
				D0087			
				D0102			
				D0569			
				D0609			

**Local Knowledge Comments:** Support level should be Limited Support. Salmonids normally wouldn't have access to this area except at very high flows due to downstream drop structures. Channel morphology, flow rates, water temperature, poor riparian area drop structures and downstream lake and dam are limiting factors for this use.

**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
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**Watershed: Guadalupe**

**Waterbody: Alamitos Creek**

**Reach: GR/AL-2**

**Reach Length (miles): 4.30**

**Reach Limits (downstream to upstream): Arroyo Calero confluence to Almaden Reservoir**

**Flow Regime: Perennial**

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

**Generalized Land Use in Area: Transition**

REC-1	No data available on primary indicators, limited data on secondary indicators; limited data on tertiary indicators	Fair	Flow (depth), aesthetics, mercury, copper, nickel	D0102	Full Support based on secondary indicators; Non Support based on tertiary indicators; no support status able to be determined based on primary indicators	C	This reach appears from the data to have problems with vegetative overgrowth blocking access to the stream and negatively impacting aesthetics - trash is also a problem; flow in the lower end of the reach also appears marginal during the late summer
				D0199			
				D0597			
				D0603			

**Local Knowledge Comments:** Support Status should be Limited Support. This area probably supports wading and fishing. The primary limiting factors for this use are water flow levels, access, and waterborne pathogens.

**Limiting Factor(s):** Poor aesthetic environment noted in data; marginal flow in lower portion of reach for recreation

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed:** Guadalupe  
**Reach:** GR/AL/AR

**Waterbody:** Almaden Reservoir

**Reach Length (miles):**

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

**Flow Regime:** Reservoir

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

**Generalized Land Use in Area:** Rural

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
COLD	Very limited on primary indicator; additional secondary habitat indicator data available	Fair	Temperature, dissolved oxygen, instream spawning habitat, fish assemblage, barriers	D0025 D0026 D0071 D0072 D0312 D0315	Potential Support	D	Rainbow trout observed in 1956 CDFG study; no recent fish assemblage data and no macroinvertebrate data is available; high uncertainty.

**Local Knowledge Comments:**

**Limiting Factor(s):** Temperature, barriers

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:** Primary Indicators = fish assemblage. Secondary Indicators = temperature, dissolved oxygen, physical barriers to migration.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	Sufficient	Fair	Fecal coliform, turbidity, MTBE, nitrate	D0584 D0642	Non Support	C	Nitrate data is too old to be of use, support statement based on fecal coliform, turbidity and MTBE

**Local Knowledge Comments:**

**Limiting Factor(s):** fecal coliform, MTBE, turbidity

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel

**Fair/Poor Quality Data:** TDS, fecal coliform, MTBE, nitrate

**Watershed:** Guadalupe

**Reach:** GR/AL/AR

**Reach Length (miles):**

**Flow Regime:** Reservoir

**Waterbody:** Almaden Reservoir

**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
PFF	None on primary indicators; data on secondary indicators consist of GIS shapefiles without hard supporting data available for	Fair	Historic flooding; 100-year flood zones	D0321	Full Support	D	(1) No data available on primary indicators; (2) SCVWD GIS files show no historic flooding around the reservoir; no areas within FEMA flood zones are
				D0322			
				D0323			
				D0324			
				D0326			

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

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

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
RARE	Sufficient but Limited	Poor	Special status species observations	D0020	Potential Support	D	Potential support based on western pond turtle observation; no details are available on this sighting so uncertainty level is high
				D0609			

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

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

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

**Reach:** GR/AL/AR

**Reach Length (miles):**

**Flow Regime:** Reservoir

**Waterbody:** Almaden Reservoir

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

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

**Generalized Land Use in Area:** Rural

REC-1 No data available Fair Access, mercury  
on primary  
indicator; limited  
data on secondary  
indicator;  
insufficient data  
on tertiary indicator

D0071 Non Support based on  
secondary indicator; no  
determination is able to be  
made on primary and tertiary

C Limited access data is over 40 years old; 1973  
coliform data is probably total, not fecal

D0557

**Local Knowledge Comments:**

**Limiting Factor(s):** Mercury in sediment

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**



**Watershed:** Guadalupe

**Reach:** GR/AL-4

**Reach Length (miles):** 3.12

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

**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 available on secondary habitat indicators	Fair	Riparian vegetation, temperature, dissolved oxygen, fish assemblage, barriers, macroinvertebrates	D0025	Partial Support	C	Indicator macroinvertebrates common in reach; only one observation of rainbow trout in 1997; no other fish data available
				D0311			
				D0312			
				D0315			
				D0613			
				D0625			

**Local Knowledge Comments:**

**Limiting Factor(s):** Dissolved oxygen (limited data)

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge, width, altered channel materials and dimensions, special status species, shaded riverine aquatic habitat, water depths and velocities, instream rearing habitat, instream spawning habitat, 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, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, MTBE, nitrate, PCB, selenium, mercury, nickel, TDS, turbidity

**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:** Guadalupe

**Reach:** GR/AL-4

**Reach Length (miles):** 3.12

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

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Rural

PPF Sufficient Good Channel capacity, design flow D0311 Full Support

A Data set D0380 provides 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

D0321  
D0322  
D0323  
D0324  
D0325  
D0326  
D0380

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = historic 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 and cannot be interpreted	Poor	Special status species observations	D0609	Unable to Determine	N/A	Data cannot be interpreted

**Local Knowledge Comments:**

**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	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data on primary, secondary, tertiary indicators available

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

**Watershed:** Guadalupe  
**Reach:** GR/AL-4

**Reach Length (miles):** 3.12  
**Flow Regime:** Perennial

**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: Guadalupe**

**Reach: GR/AL-5**

**Reach Length (miles): 3.50**

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

**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	Insufficient data on one primary indicator; insufficient data on secondary habitat indicators	Poor	Macroinvertebrates, riparian vegetation, barriers	D0201	Unable to Determine	N/A	No fish assemblage data is available; macroinvertebrates are present in May 1997, but no late summer data is available
				D0311			
				D0312			
				D0315			

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:** Primary Indicators = macroinvertebrates. Secondary Indicators = physical barriers to migration, riparian vegetation.

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	Sufficient	Good	Channel capacity, design flow	D0311	Full Support	A	Data set D0380 provides 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

**Watershed:** Guadalupe

**Reach:** GR/AL-5

**Reach Length (miles):** 3.50

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

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Rural

PFF Sufficient Good Channel capacity, design flow D0321 Full Support

A Data set D0380 provides 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

D0322  
D0323  
D0324  
D0325  
D0326  
D0380

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = historic 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 and cannot be interpreted	Poor	Special status species observations	D0609	Unable to Determine	N/A	Data cannot be interpreted

**Local Knowledge Comments:**

**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	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data on primary, secondary, tertiary indicators available

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

**Watershed:** Guadalupe  
**Reach:** GR/AL-5

**Reach Length (miles):** 3.50  
**Flow Regime:** Perennial

**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: Guadalupe**

**Reach: GR/AL-9**

**Reach Length (miles): 1.99**

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

**Flow Regime: Intermittent**

**Channel Type(s): Concrete-lined, rock-lined, earthen levee**

**Generalized Land Use in Area: Urban**

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 either primary or secondary indicators

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = macroinvertebrates, fish assemblage. Secondary Indicators = dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge, width, altered channel materials and dimensions, special status species, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, instream rearing habitat, instream spawning habitat, temperature, 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
PFF	Sufficient	Good	Channel capacity, design flow	D0380	Full Support	A	Data set D0380 provides 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

**Watershed:** Guadalupe

**Reach:** GR/AL-9

**Reach Length (miles):** 1.99

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

**Flow Regime:** Intermittent

**Channel Type(s):** Concrete-lined, rock-lined, earthen levee

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = historic 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	Data is not species specific	Poor	Habitat	D0609	Unable to Determine	N/A	Data is too general to be used for support statement

**Local Knowledge Comments:**

**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.

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 on primary, secondary, tertiary indicators available

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**



**Watershed:** Guadalupe

**Reach:** GR/AL-10

**Reach Length (miles):** 3.28

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

**Flow Regime:** Intermittent

**Channel Type(s):** Concrete-lined, rock-lined, earthen levee

**Generalized Land Use in Area:** Urban

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 either primary or secondary indicators

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

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

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	Sufficient	Good	Channel capacity, design flow	D0380	Full Support	A	Data set D0380 provides 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

**Watershed:** Guadalupe

**Reach:** GR/AL-10

**Reach Length (miles):** 3.28

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

**Flow Regime:** Intermittent

**Channel Type(s):** Concrete-lined, rock-lined, earthen levee

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Secondary Indicators = historic 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:**

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

**Suspected Cause(s):**

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

**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 available on primary, secondary indicators; insufficient data on tertiary	Good	Flow (depth)	D0603	Unable to Determine	N/A	No data on primary, secondary indicators available; limited flow data indicates non support

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Reach: GR/AL-11**

**Reach Length (miles): 2.93**

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

**Flow Regime: Perennial to Intermittent**

**Channel Type(s): Concrete-lined, rock-lined, earthen levee**

**Generalized Land Use in Area: Urban**

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 either primary or secondary indicators

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = macroinvertebrates, fish assemblage. Secondary Indicators = dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge, width, altered channel materials and dimensions, special status species, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, instream rearing habitat, instream spawning habitat, temperature, 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
PFF	Sufficient	Good	Channel capacity, design flow	D0311	Non Support	A	(1) Data set D0380 provides 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; (2) this reach does not supports PFF along most of its length: from 79 to 2150 and from 2651 to 2875; land uses along these segments are critical urban uses
				D0321			
				D0322			
				D0323			

**Watershed: Guadalupe**

**Reach: GR/AL-11**

**Reach Length (miles): 2.93**

**Flow Regime: Perennial to Intermittent**

**Waterbody: Randol Creek**

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

**Generalized Land Use in Area: Urban**

**Channel Type(s): Concrete-lined, rock-lined, earthen levee**

PFF Sufficient Good Channel capacity, design flow D0324 Non Support

A (1) Data set D0380 provides 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; (2) this reach does not supports PFF along most of its length: from 79 to 2150 and from 2651 to 2875; land uses along these segments are critical urban uses

D0325  
D0326  
D0380  
D0609  
D0621

**Local Knowledge Comments:** The West Branch of Randol Creek has a very good riparian area and natural channel.

**Limiting Factor(s):** Channel does not have adequate capacity to convey expected 100-year flows along most of this reach; land uses adjacent to the channel within the flood zone in this reach consist of urban residential (most of this reach is culverted)

**Suspected Cause(s):** (a) Creek may not have sufficient channel capacity to convey flood flows and/or (b) encroachment of urban residential developments into the natural channel floodplain. Problem segments are: from 79 to 2150 and from 2651 to 2875.

**Data Gap(s) - No Data:** Secondary Indicators = historic 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	Data is not species specific	Poor	Habitat	D0609	Unable to Determine	N/A	Data is too general to be used for support statement

**Local Knowledge Comments:**

**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.

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 on primary, secondary, tertiary indicators available

**Waterbody:** Randol Creek  
**Reach Limits (downstream to upstream):** Entire Creek  
**Channel Type(s):** Concrete-lined, rock-lined, earthen levee

**Watershed:** Guadalupe  
**Reach:** GR/AL-11

**Reach Length (miles):** 2.93  
**Flow Regime:** Perennial to Intermittent

**Generalized Land Use in Area:** Urban

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

**Watershed: Guadalupe**

**Waterbody: Arroyo Calero**

**Reach: GR/AC-1**

**Reach Length (miles): 3.97**

**Reach Limits (downstream to upstream):** Alamitos Creek confluence to Calero Reservoir

**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 available on secondary habitat indicators	Good	Temperature, dissolved oxygen, instream rearing habitat, fish assemblage, macroinvertebrates, riparian vegetation, barriers, instream spawning habitat, flow	D0025	Partial Support	A	Rainbow trout are regularly present in this reach; indicator macroinvertebrates were reported as common but in one recent study (D0625) did not meet macroinvertebrate criteria at 3 of 4 sites
				D0102			
				D0163			
				D0201			
				D0311			
				D0312			
				D0315			
				D0438			
				D0569			
				D0598			
				D0603			
				D0613			
				D0625			

**Local Knowledge Comments:**

**Limiting Factor(s):** Indicator macroinvertebrates not present at 3 of 4 sites in reach in 1998

**Suspected Cause(s):** Stream substrate is dominated by fine sediment and summer streamflows are relatively turbid, which may affect insect abundance and presence of intolerant species. Summer streamflows depend upon releases from Calero Reservoir for groundwater percolation, primarily downstream of the reach. Releases vary seasonally and among years due to reservoir storage. Summer temperatures are relatively cool, but increase downstream within the reach. High storm flows resulting from urban runoff may degrade habitat. FAHCE information notes that this reach contains a suitable combination of pools, riffles, and runs with good quality habitat and relatively good

**Data Gap(s) - No Data:** Secondary Indicators = TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge, width, altered channel materials and dimensions, special status species, shaded riverine aquatic habitat, altered channel materials and dimensions, special status species, water depths, 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
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**Watershed: Guadalupe**

**Waterbody:** Arroyo Calero

**Reach:** GR/AC-1

**Reach Length (miles):** 3.97

**Reach Limits (downstream to upstream):** Alamitos Creek confluence to Calero Reservoir

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Transition

MUN	Sufficient	Fair	TDS, turbidity, selenium, mercury, copper, nickel	D0102	Full Support	C	Data on 6 of 16 parameters available; turbidity exceeds on rare occasions but nearly always is below the criteria; uncertainty due to data gaps and inability to distinguish dry and wet weather samples
				D0597			

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:** TDS, turbidity, selenium, mercury, nickel, copper

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	(1) Data set D0380 provides 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; (2) this reach supports PFF except for two sections: 2000 to 3000 and 8250 to 21000 where channel is too small; however, land uses are undeveloped and park land/open space so segment is not critical
				D0311			
				D0321			
				D0322			
				D0323			
				D0324			
				D0325			
				D0326			
				D0380			
				D0609			
				D0621			

**Watershed:** Guadalupe

**Waterbody:** Arroyo Calero

**Reach:** GR/AC-1

**Reach Length (miles):** 3.97

**Reach Limits (downstream to upstream):** Alamitos Creek confluence to Calero Reservoir

**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:** Secondary Indicators = historic 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	D0020	Potential Support	C	Potential support based on California tiger salamander and red legged frog; saltmarsh common yellowthroat assumed to be common because of the location and habitat; potential support due to presence of habitat suitable for burrowing owl, golden eagle, tricolored blackbird, red-legged frog, Opler's longhorn moth, unsilvered fritillary, Hom's microblind harvestman, peregrine falcon, California tiger salamander, western pond turtle and bay checkered
				D0111			
				D0125			
				D0569			
				D0609			

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

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

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

**Reach:** GR/AC-1

**Reach Length (miles):** 3.97

**Waterbody:** Arroyo Calero

**Reach Limits (downstream to upstream):** Alamitos Creek confluence to Calero Reservoir

**Flow Regime:** Perennial

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

**Generalized Land Use in Area:** Transition

REC-1	No data on primary indicators; sufficient but very limited data on secondary indicators; insufficient, limited data on tertiary indicators	Good	Flow (depth), mercury, copper, nickel, aesthetics	D0102	Full Support based on secondary indicators; no support statement is able to be made based on primary, tertiary indicators	D	Very limited data is available for this reach; support statement made based on very limited sampling at upper end of reach (1988) so uncertainty is high; flow depth appears marginal for supporting recreation but not enough information is available
				D0383			
				D0597			
				D0603			

**Local Knowledge Comments:** Wading and fishing may be supported but there are access problems.

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed:** Guadalupe

**Reach:** GR/AC/CR

**Reach Length (miles):**

**Flow Regime:** Reservoir

**Waterbody:** Calero Reservoir

**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	Insufficient on primary indicators; insufficient on secondary habitat indicators	Poor	Fish assemblage, streambank erosion potential, barriers, instream spawning habitat	D0070	Unable to Determine	N/A	Limited fish data from 1977 does not indicate presence of cold freshwater species; secondary habitat data is too general to use as basis for support
				D0121			
				D0312			
				D0315			
				D0569			

**Local Knowledge Comments:** Most of the reservoir is quite warm; there is no opportunity for trout to move away from the heat during summer months; the deeper hole in front of the dam where the water may be cooler is often low in oxygen

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:** Primary Indicators = fish assemblage. Secondary Indicators, streambank erosion potential, physical barriers to migration.

Use/Interest	Data Quantity	Data Quality	Criteria Used	Data Sets Used	Support Status	Uncertainty Level	Assessment Comments
MUN	Sufficient	Good	Fecal coliform, turbidity, MTBE, nitrate	D0584	Non Support	B	Nitrate data is too old to be of use, support statement based on fecal coliform, turbidity and MTBE
				D0642			

**Local Knowledge Comments:**

**Limiting Factor(s):** Fecal coliform, MTBE, turbidity

**Suspected Cause(s):** MTBE due to use of personal watercraft on reservoir; uncertain regarding fecal coliform and turbidity. It should be noted that MTBE has not exceeded the criterion since the SCVWD developed an MTBE management strategy with the County Parks Dept.

**Data Gap(s) - No Data:** Chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, 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:** Guadalupe  
**Reach:** GR/AC/CR

**Reach Length (miles):**  
**Flow Regime:** Reservoir

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

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

**Generalized Land Use in Area:** Rural

PFF	None on primary indicators; data on secondary indicators consist of GIS shapefiles without hard supporting data available for	Fair	Historic flooding; 100-year flood zones	D0321	Full Support	D	(1) No data available on primary indicators; (2) SCVWD GIS files show no historic flooding around the reservoir; no areas within FEMA flood zones are
				D0322			
				D0323			
				D0324			
				D0326			

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:** Secondary Indicators = historic flooding occurrence information, 100-yr flood zones.

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	D0020	Full Support	B	Full support based on golden eagles, tiger salamanders and abundance of several other special
				D0111			
				D0113			
				D0122			
				D0569			
				D0609			

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed:** Guadalupe

**Reach:** GR/AC/CR

**Reach Length (miles):**

**Flow Regime:** Reservoir

**Waterbody:** Calero Reservoir

**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
REC-1	No data on primary indicators; sufficient but very limited data on secondary indicators; insufficient, limited data on tertiary indicators	Fair	Access, mercury	D0121	Non Support based on secondary indicator; no support statements are able to be made based on primary or	C	Access is good but no other aesthetics data is available; 1973 coliform data was not used as it appears to be total, not fecal coliform

D0557

**Local Knowledge Comments:** Support Status should be Full Support. This reservoir supports fishing, wading and boating.

**Limiting Factor(s):** Mercury in sediment

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Reach: GR/AC-2**

**Reach Length (miles): 1.96**

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

**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	Insufficient data on primary indicators; very limited data on secondary habitat	Fair	Barriers, macroinvertebrates	D0312	Unable to Determine	N/A	Macroinvertebrates common in early summer; no data is available on fish assemblages or late summer macroinvertebrates
				D0315			
				D0613			

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:** Primary Indicators = macroinvertebrates. Secondary Indicators = physical barriers to migration.

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 primary or secondary indicators

**Watershed:** Guadalupe

**Reach:** GR/AC-2

**Reach Length (miles):** 1.96

**Waterbody:** Cherry Canyon Creek

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

**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:** Primary Indicators = estimated 100-yr flood flow, design channel capacity. Secondary Indicators = historic 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 but sufficient	Fair	Special status species observations	D0111	Potential Support	C	Potential support based on red legged frog observations; little data is available to assess whether population is reoccurring, thus potential
				D0609			

**Local Knowledge Comments:**

**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	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data on primary, secondary, tertiary indicators available

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Reach: GR/AC-4**

**Reach Length (miles): 2.86**

**Waterbody: Santa Teresa Creek**  
**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	Insufficient data on primary indicators; very limited data on secondary habitat	Fair	Barriers	D0312	Unable to Determine	N/A	Insufficient data available on primary and secondary indicators
				D0315			

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

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

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: Guadalupe**

**Reach: GR/AC-4**

**Reach Length (miles): 2.86**

**Waterbody: Santa Teresa 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 D0102 Full Support

A (1) 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; (2) this reach supports PFF except for one section: SCVWD stationing #4800 to 10007, where capacity is slightly under the 100-year flow; however, land uses in this area are non-critical (open space, parkland)

- D0311
- D0321
- D0322
- D0323
- D0324
- D0325
- D0326
- D0380
- D0609
- D0621

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = estimated 100-yr flood flow, design channel capacity. Secondary Indicators = historic 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	D0102	Non Support	D	Would expect to find herps (red legged frogs), but the data indicates that none were found within this

**Local Knowledge Comments:**

**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.



**Watershed:** Guadalupe

**Reach:** GR/AC-4

**Reach Length (miles):** 2.86

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

**Flow Regime:** Perennial

**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	No data on primary or secondary indicators; insufficient data	Fair	Aesthetics	D0102	Unable to Determine	N/A	Some aesthetics concerns based on limited field assessment; no other data on primary, secondary, tertiary indicators available

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed:** Guadalupe

**Reach:** GR/CC-1

**Reach Length (miles):** 7.37

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

**Flow Regime:** Perennial

**Channel Type(s):** Earthen levee, 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	Limited data on one primary indicator; limited secondary habitat indicator data	Fair	Temperature, fish assemblage, riparian vegetation, barriers	D0163	Non Support	D	Based on limited data, this reach does not meet temperature criteria nor were cold freshwater fish species observed in limited sampling; high
				D0311			
				D0312			
				D0315			

**Local Knowledge Comments:** Limiting Factors should be channel flow rates, morphology, water temperature, concrete culvert drop structure, no riparian area, lack of spawning gravel shade/hide cover, and pollution.

**Limiting Factor(s):** No cold freshwater species present in limited sampling; temperature

**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:**

**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
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**Watershed: Guadalupe**

**Reach: GR/CC-1**

**Reach Length (miles): 7.37**

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

**Flow Regime: Perennial**

**Channel Type(s): Earthen levee, rock-lined, concrete-lined**

**Generalized Land Use in Area: Urban**

PFF Sufficient Good Channel capacity, design flow D0311 Non-Support

A (1) Data set D0380 provides 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; (2) this reach does not support PFF for most of its length: from 1650 to 29555 and from 29615 to 39000 where channel is too small; all of this is critical urban area; however, reach is only slightly undersized

- D0321
- D0322
- D0323
- D0324
- D0325
- D0326
- D0380
- D0562
- D0609
- D0621

**Local Knowledge Comments:**

**Limiting Factor(s):** Channel does not have adequate capacity to convey expected 100-year flows; land uses adjacent to the channel in these areas consist of urban residential and commercial

**Suspected Cause(s):** (a) Creek may not have sufficient channel capacity to convey flood flows and/or (b) encroachment of urban residential and commercial developments into the natural channel floodplain. Problem segments are from 1650 to 29555 and from 29615 to 39000; however, reach is only slightly undersized.

**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; Habitat	D0084	Potential Support	D	Potential support based on burrowing owl and western pond turtle sightings; also on Chinook sighting though habitat for Chinook appears to be very poor
				D0087			
				D0569			
				D0609			

**Watershed:** Guadalupe

**Reach:** GR/CC-1

**Reach Length (miles):** 7.37

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

**Flow Regime:** Perennial

**Channel Type(s):** Earthen levee, rock-lined, concrete-lined

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:** Support level should be Non Support. Salmonids normally wouldn't have access to this area, except at very high flows, due to the concrete culvert drop structure, which may be as high as 4 feet, depending on the water levels at the confluence with the Guadalupe River. There is little, if any habitat for salmonids once they gain access to the channel. Channel morphology, flow rates, water temperature, no riparian area, drop structure, lack of natural channel, lack of spawning gravel and pollution are limiting factors for this use.

**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	Poor	Flow (depth)	D0163	Unable to Determine	N/A	Water clarity does not meet criteria based on limited data (one-time sampling); no other data on primary, secondary, tertiary indicators are available

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Waterbody: Ross Creek**

**Reach: GR/RC-1**

**Reach Length (miles): 4.53**

**Reach Limits (downstream to upstream):** Guadalupe River confluence to Blossom Hill Road

**Flow Regime:** Intermittent

**Channel Type(s):** Earthen levee, 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	Limited data on one primary indicator; secondary habitat indicator data is available	Fair	Flow, barriers, instream rearing habitat, stream cover, instream spawning habitat, turbidity, riparian vegetation, fish assemblage	D0083	Non Support	C	Based on limited data, this reach does not meet several of the secondary habitat indicator criteria nor were cold freshwater fish species observed in limited sampling; high uncertainty
				D0084			
				D0102			
				D0311			
				D0312			
				D0315			

**Local Knowledge Comments:**

**Limiting Factor(s):** No cold freshwater fish found during limited sampling; low streamflows, pool depth, stream cover, instream rearing and spawning habitat do not meet criteria

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = macroinvertebrates. Secondary Indicators = dissolved oxygen, TSS, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge, width, altered channel materials and dimensions, special status species, shaded riverine aquatic habitat, water depths, temperature, chlordane, copper, chlorpyrifos, DDT, diazinon, dieldrin, dioxin, PCB, selenium, mercury, nickel.

**Fair/Poor Quality Data:** Primary Indicators = fish assemblage. Secondary Indicators = physical barriers to migration, flow, instream rearing habitat, stream cover, turbidity, riparian vegetation.

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: Guadalupe**

**Waterbody: Ross Creek**

**Reach: GR/RC-1**

**Reach Length (miles): 4.53**

**Reach Limits (downstream to upstream):** Guadalupe River confluence to Blossom Hill Road

**Flow Regime:** Intermittent

**Channel Type(s):** Earthen levee, rock-lined, concrete-lined

**Generalized Land Use in Area:** Urban

PFF	Sufficient	Good	Channel capacity, design flow	D0102	Non-Support	A	(1) Data set D0380 provides 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; (2) this reach does not support PFF in three separate sections: from 4411 to 5580, from 8564 to 9503, and from 12710 to 15549 where channel is too small; all of this
				D0311			
				D0321			
				D0322			
				D0323			
				D0324			
				D0325			
				D0326			
				D0380			
				D0562			
				D0609			
				D0621			

**Local Knowledge Comments:**

**Limiting Factor(s):** Channel does not have adequate capacity to convey expected 100-year flows in three specific segments of this reach; land uses adjacent to the channel in these areas consist of urban residential and commercial

**Suspected Cause(s):** (a) Creek may not have sufficient channel capacity to convey flood flows and/or (b) encroachment of urban residential and commercial developments into the natural channel floodplain. Problem segments are from 4411 to 5580, from 8564 to 9503, and from 12710 to 15549.

**Data Gap(s) - No Data:** Secondary Indicators = historic 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 but sufficient	Fair	Special status species observations; Habitat	D0084	Potential Support	C	Potential support based on cooper's hawk observations and potential rainbow trout observations
				D0087			
				D0112			
				D0609			

**Watershed:** Guadalupe

**Waterbody:** Ross Creek

**Reach:** GR/RC-1

**Reach Length (miles):** 4.53

**Reach Limits (downstream to upstream):** Guadalupe River confluence to Blossom Hill Road

**Flow Regime:** Intermittent

**Channel Type(s):** Earthen levee, rock-lined, concrete-lined

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

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

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	Good	Flow (depth), aesthetics	D0084	Unable to Determine	N/A	Water depth appears marginal for recreational use and one observation of yard waste in the stream was found but no other aesthetic data is available; no other data on primary, secondary, tertiary indicators
				D0102			
				D0383			
				D0603			

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Reach: GR/RC-2**

**Reach Length (miles): 1.68**

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

**Flow Regime: Intermittent**

**Channel Type(s): 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	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data available on either primary or secondary indicators

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = macroinvertebrates, fish assemblage. Secondary Indicators = dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge, width, altered channel materials and dimensions, special status species, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, instream rearing habitat, instream spawning habitat, temperature, 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
PFF	Sufficient	Good	Channel capacity, design flow	D0380	Full Support	A	Data set D0380 provides 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



**Watershed:** Guadalupe

**Reach:** GR/RC-2

**Reach Length (miles):** 1.68

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

**Flow Regime:** Intermittent

**Channel Type(s):** Concrete-lined

**Generalized Land Use in Area:** Urban

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**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 on primary, secondary, tertiary indicators available

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**

**Watershed: Guadalupe**

**Reach: GR/RC-3**

**Reach Length (miles): 1.87**

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

**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	None	N/A	N/A	No Data Sets	Unable to Determine	N/A	No data available on either primary or secondary indicators

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

**Data Gap(s) - No Data:** Primary Indicators = macroinvertebrates, fish assemblage. Secondary Indicators = dissolved oxygen, TSS, turbidity, stream type, channel substrate, streambank erosion potential, width to depth ratio, bankfull, stage, discharge, width, altered channel materials and dimensions, special status species, shaded riverine aquatic habitat, riparian vegetation, water depths and velocities, instream rearing habitat, instream spawning habitat, temperature, 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
PFF	Sufficient	Good	Channel capacity, design flow	D0380	Full Support	A	Data set D0380 provides 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

**Watershed:** Guadalupe

**Reach:** GR/RC-3

**Reach Length (miles):** 1.87

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

**Flow Regime:** 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:** Secondary Indicators = historic 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. Secondary Indicators = habitat requirements.

**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 on primary, secondary, tertiary indicators available

**Local Knowledge Comments:**

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

**Suspected Cause(s):**

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

**Fair/Poor Quality Data:**