MONITORING SITE INFORMATION

Site ID#: TUO208 Site Name: Woods Creek at Mother Lode Fairgrounds

Sub-Basin: Tuolumne Watershed

Site Description, Location and Access:
This site is located in the town of Sonora along Highway 49. From Seco Street in Jamestown, take Highway 108/49 east and follow Highway 49 north into Sonora. Turn east on Southgate Drive in to the Fairgrounds parking area. Samples were collected at the base of the square white building, downstream of the confluence of Sonora Creek and Woods Creek.

Latitude/Longitude: Lat. N 37º 58' 40" Long. W 120º 23' 25"
County: Tuolumne

WATER SOURCE
Woods Creek at Mother Lode Fairgrounds is located in the town of Sonora along Highway 49. The Woods Creek watershed drains approximately 29 square miles. This site provided an upstream reference to development at the Mill Villa Drive approximately 1 and ½ miles downstream. Approximately 10 meters upstream from the sampling site, Sonora Creek drains into Woods Creek. This site was also chosen for consistency with County Health department sampling and primarily represents drainage from timberland, rangeland, and established rural communities.

MONTHLY PHOTO MONITORING

Site ID#: TUO208 Site Name: Woods Creek at Mother Lode Fairgrounds

Sub-Basin: Tuolumne Watershed

Time Period Monitored: March 2003 – March 2004

04/01/03	05/07/03	06/03/03
07/22/03	08/06/03	09/10/03
10/22/03	11/05/03	01/20/03

Watershed Name – April 2003 – January 2004

MONITORING SITE INFORMATION

Site ID#: TUO205 Site Name: Woods Creek at Highway 108

Sub-Basin: Tuolumne Watershed

Time Period Monitored: February 2003 – March 2003

Site Description, Location and Access:
This site is located about a mile south of Sonora. From Jamestown, follow Highways 108/49 east approximately 3 miles to the split, just south of Sonora. Follow the Highway 49 underpass north. Parking and access to the site is located under the Highway 108 overpass.

Latitude/Longitude: Lat. N 37° 57' 51.8'' Long. W 120° 23' 37''
County: Tuolumne

WATER SOURCE
Woods Creek originates in the Stanislaus National Forest, north of Columbia State Historic Park. The Creek flows south through the town of Sonora, and west, alongside a developing housing tract. This site is representative of upper watershed areas, upstream of urbanization impacts. The site was replaced by Woods Creek at Motherload Fairgrounds (TUO208) in order to coincide with water quality sampling conducted by Tuolumne County and because of easier access.

MONITORING SITE INFORMATION

Site ID#: TUO202 Site Name: Woods Creek at Mill Villa Drive

Sub-Basin: Tuolumne Watershed

Site Description, Location and Access:
This site is located on the southern outskirt of Sonora. From the town of Sonora, continue south on Highway 49/108. Turn south on Mill Villa Road (not Mill Villa Court) before the 49/108 split. Park in the court before the creek or in the dirt area and walk down to the creek to sample near the culvert.

Latitude/Longitude: Lat. N 37º 57' 45" Long. W 120º 23' 55"
County: Tuolumne

WATER SOURCE
Woods Creek originates in the Stanislaus National Forest, north of Columbia State Historic Park. The Creek flows south through the town of Sonora, where flow from Sonora Creek joins it, and west, alongside a developing housing tract. This site was chosen to potentially represent impact from rural development.

MONTHLY PHOTO MONITORING

Site ID#: TUO202 Site Name: Woods Creek at Mill Villa Drive

Sub-Basin: Tuolumne Watershed

Time Period Monitored: January 2003 – March 2004

01/22/03	02/18/03	03/19/03
04/15/03	05/07/03	06/30/03
07/22/03	08/19/03	09/10/03
10/22/03	11/05/03	01/07/04

MONITORING SITE INFORMATION

Site ID# :TUO207 Site Name: Sullivan Creek at Algerine Road

Sub-Basin: Tuolumne Watershed

Site Description, Location and Access:
This site is located south of Jamestown, west of Sonora. From Jamestown, turn right onto Jamestown (Main) Road. Turn right onto Seco Street. Seco Street merges into Algerine Road. The site is located on Algerine Road, south of the Stent cutoff. Parking is on the southwest corner of the creek crossing. Access to the site is on the northwest corner of the creek crossing and is through a break in the fence lining a rock wall. The homeowner at the house located at the site (northeast corner) has been contacted and has given permission to sample. Samples were collected from the bank.

Latitude/Longitude: Lat. N 37º 55' 06" Long. W 120º 23' 44"
County: Tuolumne

WATER SOURCE
Sullivan Creek is a main tributary of the Tuolumne, and originates just south of Sugar Pine above Twain Harte and flows along the eastern portion of the Phoenix Basin before entering Phoenix Lake, a small water supply reservoir constructed near the turn of the 20th century. Above Phoenix Lake, the TUD's Main Ditch imports water into the watershed from three storage reservoirs along the South fork Stanislaus River, Pinecrest Lake, and Philadelphia and Lyons Reservoirs. Below Phoenix Lake, Sullivan Creek serves as a portion of the Phoenix Ditch. The watershed drains 62.7 square miles. Cattle grazing is the most prominent land use surrounding the sampling site.

MONTHLY PHOTO MONITORING

Site ID# :TUO207 Site Name: Sullivan Creek at Algerine Road

Sub-Basin: Tuolumne Watershed

Time Period Monitored: February 2003 – March 2004

03/19/03	04/01/03	05/07/03
06/03/03	07/22/03	08/19/03
09/24/03	10/22/03	11/05/03
01/07/04		

MONITORING SITE INFORMATION

Site ID#: TUO209 Site Name: Curtis Creek at Algerine Road

Sub-Basin: Tuolumne Watershed

Site Description, Location and Access:
This site is located about ¼ mile south on Algerine Road from Sullivan Creek (TUO207). From the intersection of Highways 108/49 south of Sonora, head west in to Jamestown. Turn left (southwest) on to Main Street. Turn left (southeast) on to Seco Street. Turn right (west) onto Jacksonville Road, and then an immediate left (south) on to Algerine Road. Parking space is available on the southwest side of the road.

Latitude/Longitude: Lat. N 37° 54' 45'' Long. W 120° 22' 59.8''
County: Tuolumne

WATER SOURCE
Curtis Creek drains approximately 23 square miles. It is diverted for agricultural irrigation below Old Wards Ferry Road and then continues on, as an ephemeral stream, to Lake Don Pedro. This site was added after field crews observed the creek as a potential major source of watershed drainage and Tuolumne County staff confirmed. In the upper reaches, Curtis Creek is highly altered as a result of old timber practices. Cattle grazing is one of the most prominent land uses near the sampling site though there is potential for construction and development in the area.

MONTHLY PHOTO MONITORING

Site ID#: TUO209 Site Name: Curtis Creek at Algerine Road

Sub-Basin: Tuolumne Watershed

Time Period Monitored: May 2003 – March 2004

05/07/03	06/03/03	07/22/03
08/19/03	09/10/03	10/22/03
11/05/03	01/07/04	

MONITORING SITE INFORMATION

Site ID#: TUO203 Site Name: Tuolumne River at Ward's Ferry

Sub-Basin: Tuolumne Watershed

Time Period Monitored: January 2003 – January 2004

Site Description, Location and Access:
This site is located about twenty miles southeast of Sonora along Wards Ferry Road off County Road E17. From the intersection of Highways 120 and 49 near Moccasin, south of Don Pedro Reservoir, follow Highway 120 east approximately 10 miles. Turn left (north) onto Deer Flat Road. In approximately 1 mile, turn right (northeast) onto Ward's Ferry Road for approximately 6 miles. Parking is available on the side of the road. Walk down the path to the stream bank.

Latitude/Longitude: Lat. N 37° 52' 40.1'' Long. W 120° 17' 39.8''
County: Tuolumne

WATER SOURCE
The Tuolumne River originates from Mount Lyell within the easternmost region of Yosemite National Park. It flows through the Stanislaus National Forest valley and into Don Pedro Reservoir. This site was chosen as representative of pristine waters above the inlet to Don Pedro Lake. The site was removed due to access difficulties and safety issues. The site was replaced as a representative site for the upper watershed by TUO207 and TUO209.

MONITORING SITE INFORMATION

Site ID#: TUO204 Site Name: Tuolumne River at Jacksonville Road

Sub-Basin: Tuolumne Watershed

Time Period Monitored: January 2003 – February 2003

Site Description, Location and Access:
This site is located about twelve miles south of Sonora along Jacksonville Road. From the intersection of Highway 120/49 and Jacksonville Road, sough of Don Pedro Reservoir, follow Jacksonville Road north to the north side of the Tuolumne River. Turn on to the first road north of the river, and park in the pull out area.

Latitude/Longitude: Lat. N 37° 50' 55'' Long. W 120° 20' 20.0''
County: Tuolumne

WATER SOURCE
The Tuolumne River originates from Mount Lyell within the easternmost region of Yosemite National Park. It flows through the Stanislaus National Forest valley and into Don Pedro Reservoir. This site was selected to represent the Tuolumne River above the reservoirs; however this site was removed because during certain times of the year, it was more representative of a lake site than a stream site. Sullivan Creek (TUO207) and Curtis Creek (TUO209) replaced Tuolumne River at Jacksonville Road as the upper watershed representative site.

MONITORING SITE INFORMATION

Site ID#: STC210 Site Name: Tuolumne River at Old La Grange Bridge

Sub-Basin: Tuolumne Watershed

Site Description, Location and Access:
This site is located in the tow of La Grange along La Grange Road. From the town of Coulterville at the Highway 49 and 132 crossing, head west on Highway 132 to the town of La Grange. Turn north on Old La Grange Bridge Road. Park in the pullout to the northeast side of the road, before the bridge. Follow the path at the southwest corner of the bridge down and west. Samples were collected from the large cobblestone area (west of the bridge).

Latitude/Longitude: Lat. N 37º 40' 00" Long. W 120º 28' 00"
County: Stanislaus

WATER SOURCE
Tuolumne River at Old La Grange Bridge is approximately 5 miles downstream of the La Grange Dam. La Grange Dam and New Don Pedro Dam regulate the flow of the Tuolumne River as it drains from the upperwatershed. Approximately one mile upstream of La Grange, the Tuolumne is diverted at the La Grange Dam into supply canals for Modesto Irrigation District and Tuolumne Irrigation District. No major inflows occur between Don Pedro and the sampling site.

MONTHLY PHOTO MONITORING

Site ID#: STC210 Site Name: Tuolumne River at Old La Grange Bridge

Sub-Basin: Tuolumne Watershed

Time Period Monitored: January 2003 – January 2004

01/08/03	02/14/03	03/19/03
04/15/03	05/07/03	06/03/03
07/22/03	08/19/03	09/24/03
10/22/03	11/05/03	01/07/04

MONITORING SITE INFORMATION

Site ID#: STC205 Site Name: Tuolumne River at Mancini Park

Sub-Basin: Tuolumne Watershed

Time Period Monitored: January 2003 – May 2003

Site Description, Location and Access:
This site is located in the City of Modesto, along River Road, approximately 2 miles east of the intersection of 7th Street and River Road. At the bottom of the stairs, go straight to a steep dirt path leading down to the water. Samples were collected from the south bank.

Latitude/Longitude: Lat. N 37º 37' 25" Long. W 120º 58' 40"
County: Stanislaus

WATER SOURCE
Tuolumne River at Mancini Park is located within the city of Modesto, and was included as a site upstream of the confluence of Tuolumne River and Dry Creek. This site is approximately 6 miles downstream of Hughson's sewage disposal well, 3 miles downstream of sewage disposal ponds, and 1 mile downstream of the Modesto Airport. During a storm event, the stairway leading to the site was washed away, resulting in sampling at this site being discontinued and replaced by Tuolumne River at Legion Park (STC216), less than half a mile upstream of STC205 on the north side of the River.

MONITORING SITE INFORMATION

Site ID#: STC216 Site Name: Tuolumne River at Legion Park

Sub-Basin: Tuolumne Watershed

Site Description, Location and Access:
This site is located in the City of Modesto along River Road. From Highway 99, take the Highway 132 east exit. Stay on Highway 132 to S. Santa Cruz Avenue. Highway 132 follows L Street to the northeast. At 9th Street, Highway 132 turns right (southeast). At D Street, turn left (northeast). Highway 132 then veers to the right (east) at Yosemite Boulevard. In about 0.7 miles, turn right (south) onto S. Santa Cruz Avenue. Follow S. Santa Cruz Avenue to Legion Park Drive. Parking is at the Park facility lot. Samples were collected from the bank.

Latitude/Longitude: Lat. N 37° 37' 30'' Long. W 120° 56' 40.1''
County: Stanislaus

WATER SOURCE
Picnicking, jogging, and other recreational activities are prevalent at this site. The area is characterized by sandy banks and riverbeds and represents an upstream comparison of the Tuolumne River to Dry Creek. Sewage disposal ponds are located approximately 3 miles upstream of the park along the north side of the Tuolumne River.

MONTHLY PHOTO MONITORING

Site ID#: STC216 Site Name: Tuolumne River at Legion Park

Sub-Basin: Tuolumne Watershed

Time Period Monitored: May 2003 – March 2004

05/22/03	06/30/03	07/23/03
08/05/03	09/22/03	10/21/03
11/04/03	01/06/04	

MONITORING SITE INFORMATION

Site ID#: STC206 Site Name: Dry Creek at La Loma Road

Sub-Basin: Tuolumne Watershed

Site Description, Location and Access:
This site is located in the City of Modesto along La Loma Road, approximately one mile north of Highway 132. Parking access was available on the North Morton underpass to La Loma Road. Samples were collected from the bank under the bridge.

Latitude/Longitude: Lat. N 37º 38' 55" Long. W 120º 59' 00"
County: Stanislaus

WATER SOURCE

Dry Creek is a free flowing, ephemeral stream originating in the Sierra Foothills and is dominated by agricultural return flows from an MID operation spill between April and November and agricultural drains through the foothill area. This creek has carried tremendous winter flood flows in the past and has been extensively rechannelized and leveed along its lower 12-mile reach as it passes through the City of Modesto before discharging to the Tuolumne River. The confluence of Dry Creek with the Tuolumne River is structured to be a mixing box. Depending on a combination of flow data from Tuolumne River at La Grange, Dry Creek at Clause Road, and Tuolumne River at 9th Street Bridge, this structure can cause Dry Creek flow to come to a stop, or even allow the Tuolumne River to backflow up the Dry Creek channel, provided the ratio of Tuolumne River flow to Dry Creek flow is high enough. This did not occur during the period of this study.

MONTHLY PHOTO MONITORING

Site ID#: STC206 Site Name: Dry Creek at La Loma Road

Sub-Basin: Tuolumne Watershed

Time Period Monitored: January 2003 – March 2004

01/23/03	02/14/03	03/18/03
04/16/03	06/04/03	06/30/03
07/23/03	08/05/03	09/22/03
10/07/03	01/06/04	

MONITORING SITE INFORMATION

Site ID#: STC207 Site Name: Tuolumne River at 9th Street Bridge

Sub-Basin: Tuolumne Watershed

Time Period Monitored: January 2003 – April 2003

Site Description, Location and Access:
Tuolumne River at 9th Street Bridge is located in the City of Modesto along River Road on the south side of the river. From Highway 99, take the Tuolumne Blvd to B Street exit in Modesto. Follow Tuolumne Blvd to the east and continue on the road when it turns in to B Street. Turn right (south) on to 9th Street. Turn right (west) onto River Road. Turn an immediate right (north) on to the underpass that goes below 9th Street. Park on the side of the road of the underpass and walk down to the bank of the river.

Latitude/Longitude: Lat. N 37° 37' 35.0'' Long. W 120° 59' 25.1''
County: Stanislaus

WATER SOURCE
The site is downstream of the confluence of Dry Creek and the Tuolumne River. The site was sampled in order to be consistent with USGS monitoring and was alternated with the 7th Street Bridge site (STC214). Besides the inflow from Dry Creek, urban runoff may also impact the river at this point. This site was discontinued due to a number of safety concerns and was replaced by Audie Peeples Fishing Access (STC215), approximately 2.5 miles downstream.

MONITORING SITE INFORMATION

Site ID#: STC214 Site Name: Tuolumne River at 7th Street

Sub-Basin: Tuolumne Watershed

Time Period Monitored: March 2003 – April 2003

Site Description, Location and Access:
This site is located in the City of Modesto along River Road, on the south side of the river. From Highway 99, take the Tuolumne Blvd to B Street exit in Modesto. Follow Tuolumne Blvd to the east and continue on the road when it turns in to B Street. Turn right (south) on to 9th Street. Turn right (west) onto River Road, and continue to the 7th Street underpass. Samples were collected from the bank of the river.

Latitude/Longitude: Lat. N 37° 37' 35.0'' Long. W 120° 59' 39.8''
County: Stanislaus

WATER SOURCE
The site is downstream of the confluence of Dry Creek and the Tuolumne River. The site was sampled in order to be consistent with USGS monitoring and was alternated with the 9th Street Bridge site (STC207). Besides the inflow from Dry Creek, urban runoff may also impact the river at this point. This site was discontinued due to a number of safety concerns and was replaced by Audie Peeples Fishing Access (STC215), approximately 2.5 miles downstream.

MONITORING SITE INFORMATION

Site ID#: STC215 Site Name: Tuolumne River at Audie Peeples Fishing Access

Sub-Basin: Tuolumne Watershed

Site Description, Location and Access:
This site is located in the City of Modesto along Hatch Road. From Highway 99, exit at Crows Landing Road (south). In about 0.8 miles, turn right (west) onto Hatch Road. Follow Hatch Road approximately 2.5 miles, just past Carpenter Road. Turn right, (northwest) onto Parkdale Drive. Parking for the Audie Peeples Fishing Access is marked with a sign on the north side of Parkdale Road. Access to the sampling site is along a dirt path between an empty lot and a home parcel.

Latitude/Longitude: Lat. N 37° 36' 45.7'' Long. W 121° 2' 18.6''
County: Stanislaus

WATER SOURCE
This site was selected to represent conditions downstream of the confluence of Dry Creek with the Tuolumne River. The site is host to recreational activities such as fishing a boating. This site is approximately five miles downstream of sites STC207 and STC214 and may be impacted by additional inflows, including a golf course and wineries.

MONTHLY PHOTO MONITORING

Site ID#: STC215 Site Name: Tuolumne River at Audie Peeples Fishing Access

Sub-Basin: Tuolumne Watershed

Site Description, Location and Access: May 2003 – March 2004

05/06/03	06/04/03	07/23/03
08/20/03	09/22/03	10/21/03
11/04/06	01/20/04	

MONITORING SITE INFORMATION

Site ID#: STC513 Site Name: Tuolumne River at Shiloh Fishing Access

Sub-Basin: Tuolumne Watershed

Site Description, Location and Access:
The site is located eight miles west of Modesto along Shiloh Road, approximately seven miles upstream of the confluence with the San Joaquin River. Samples were collected on the left bank of the Tuolumne River, under the Shiloh Road Bridge. The site can be reached following the sign for Shiloh fishing access on the south side of the Shiloh Road Bridge.

Latitude/Longitude: Lat. N 37° 36' 11" Long. W 121° 07' 54"
County: Stanislaus

Water Source
Water quality at this site is representative of drainage from the entire watershed (1,540 square miles) and has an average annual unimpaired runoff of about 1.8 million-acre feet. The area is a daytime recreation area and is adjacent to a Recreational Vehicle park. As a long time monitoring site, sampling was augmented as part of this project.

MONTHLY PHOTO MONITORING

Site ID#: STC513 Site Name: Tuolumne River at Shiloh Fishing Access

Sub-Basin: Tuolumne Watershed

Site Description, Location and Access: January 2003 – April 2004

02/14/03	03/05/03	04/02/03
05/22/03	06/04/03	07/23/03
08/20/03	09/22/03	10/07/03
11/04/03	01/06/04	