

Los Angeles County Municipal Storm Water Permit

STATUS OF POLLUTANTS OF CONCERN

Documentation of Pollutants of Concern and Analysis of Potential Sources

The City of Industry has been informed by the State Water Resources Control Board through the Regional Water Quality Control Board of pollutants of concern in the San Gabriel River Watershed and specifically in the San Jose Creek. The information was distributed in the form of the Section 303(d) list. The following is the updated listings for the San Jose Creek and San Gabriel River which are partially impacted by the stormwater and dry weather discharge from the City of Industry.

2002 Clean Water Act - Section 303(d) List of Water Quality Limited Segment for the City of Industry

SEGMENT NAME	POLLUTANT STRESSOR	POTENTIAL SOURCES
San Gabriel River Estuary		
	Abnormal Fish Histology	Non-point/Point Source
San Gabriel River Reach 1 (Estuary to Firestone)		
	Abnormal Fish Histology	Non-point/Point Source
	Algae	Non-point/Point Source
	High Coliform Count	Non-point/Point Source
	Lead	Non-point/Point Source
	Toxicity	Point Source
San Gabriel River Reach 2 (Firestone to Whittier Narrows Dam)		
	Copper, Dissolved	Non-point Source
	High Coliform Count	Non-point/Point Source
	Lead	Non-point/Point Source
	Zinc, Dissolved	Non-point Source
San Jose Creek Reach 1 (SG Confluence to Temple Street)		
	Algae	Non-point/Point Source
	High Coliform Count	Non-point/Point Source

Proposed 2006 Clean Water Act - Section 303(d) List of Water Quality Limited Segment for the City of Industry

SEGMENT NAME	POLLUTANT STRESSOR	POTENTIAL SOURCES	STATUS
San Gabriel River Estuary			
	Abnormal Fish Histology	Non-point/Point Source	De-List
	Ammonia as Nitrogen	Point Source	De-List
San Gabriel River Reach 1 (Estuary to Firestone)			
	Abnormal Fish Histology	Non-point/Point Source	De-List
	Algae	Non-point/Point Source	De-List
	Ammonia	Point Source	List

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SEGMENT NAME	POLLUTANT STRESSOR	POTENTIAL SOURCES	STATUS
	Coliform Bacteria	Non-point/Point Source	List
	pH	Source Unknown	List
	Toxicity	Point Source	De-List
San Gabriel River Reach 2 (Firestone to Whittier Narrows Dam)			
	Aluminum	Non-point/Point Source	List
	Ammonia	Point Source	List
	Chloride	Non-point/Point Source	Do Not List
	Coliform Bacteria	Non-point/Point Source	List
	Copper	Non-point/Point Source	Do Not List
	Fecal Coliform	Non-point/Point Source	Do Not List
	Iron	Non-point/Point Source	Do Not List
	Lead	Non-point/Point Source	De-List
	Total Dissolved Solids	Non-point/Point Source	Do Not List
	Zinc, Dissolved	Non-point Source	De-List
San Jose Creek Reach 1 (SG Confluence to Temple Street)			
	Algae	Non-point/Point Source	De-List
	Ammonia	Point Source	List
	Coliform Bacteria	Non-point/Point Source	List

In addition, the City of Industry receives information regarding pollutants of concern from the TMDL proposals. This information includes the San Gabriel River Trash TMDL which is in development by the RWQCB and the San Gabriel River Metals TMDL which lists the following pollutants of concern:

San Gabriel Estuary

- Copper

San Gabriel River Reach 2 (Firestone to Whittier Narrows Dam)

- Copper
- Lead
- Zinc

San Jose Creek Reach 1 (SG Confluence to Temple Street)

- Selenium

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The next source of information used by the City of Industry is information from US Environmental Protection Agency - Region 9 regarding pollutants of concern. This includes the Total Maximum Daily Loads for Metals and Selenium San Gabriel River and Impaired Tributaries:

San Gabriel Estuary

- Copper

San Gabriel River Reach 2 (Firestone to Whittier Narrows Dam)

- Lead

San Jose Creek Reach 1 (SG Confluence to Temple Street)

- Selenium

This information does not always present a clear picture of the pollutants of concern, as can be seen by the Lead and Zinc information presented above. Both of these pollutants were listed in the 2002 303(d) List for the San Gabriel River Reach 2 from Firestone to Whittier Narrows Dam. They were proposed by the SWRCB to be de-listed in the 2006 version of the 303(d) List. However, they were still included in the documentation developed by the Los Angeles RWQCB for the San Gabriel River Metals TMDL and Lead remains in the US EPA Region 9 TMDL for the San Gabriel River Metals, but Zinc has been removed.

This information is combined with the monitoring provided by the Los Angeles County NPDES program to evaluate pollutants of concern and identify potential illicit connections or illegal discharges.

If we concentrate on the listed impairments in the 2002 303(d) list and the proposed 2006 303(d) list we will address potential sources for the following pollutants of concern:

Aluminium

The Fact Sheets supporting the revision to the Section 303(d) list that were developed by the SWRCB identify the following information regarding this listing and pages 158 and 159 for Reach 2 of the San Gabriel River only:

Two out of 12 samples at this location exceeded the objective for total aluminum.

Samples taken on 10/10/2002 and 4/30/2003 were 'DRY' samples. All others were 'WET'.

From this information the City will continue to provide Industrial/Commercial inspections; Construction inspections; identify and investigate all reported Illicit Connections and Illegal Discharges; review the water quality monitoring information reported by the Los Angeles County Department of Public Works; and review the monitoring of the San Jose Creek water quality provided by the City of Industry. Additional dry weather samples are required to determine the concentration, location and distribution of this pollutant of concern.

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Ammonia

The Fact Sheets supporting the revision to the Section 303(d) list that were developed by the SWRCB identify the following information regarding this listing and pages 152 and 153 for the Estuary, Reach 1 and Reach 2 of the San Gabriel River and Reach 1 of the San Jose Creek:

An alternative enforceable program is in place that will address ammonia water quality standards exceedances for this reach. In June 1995, the seven water reclamation plants discharging in the San Gabriel River and Santa Clara River watersheds received NPDES permits containing requirements regarding compliance with the Basin Plan water quality objectives for ammonia. In accordance with these permits, the Los Angeles County Sanitation Districts have been pursuing the addition of nitrification and denitrification facilities at each of these plants to comply with the ammonia objectives. By June 2003, it is expected that these new facilities will be operational and ammonia will be drastically reduced. Research facility operation shows that the monthly average ammonia concentration will fully comply with the chronic ammonia objective that are expected to be applicable in June 2003.

It is probable that the majority of ammonia discharged to this water body was contributed by POTWs. Information in the record indicates that the majority (over 95%) of the ammonia in the Los Angeles River was contributed by POTWs. It is probable that the contribution in the San Gabriel River watershed is dominated by contributions from POTWs as well. Generally, concentrations of ammonia upstream of the treatment plants are much lower than downstream concentrations (up to an order of magnitude difference).

From this information the City will continue to provide Industrial/Commercial inspections; Construction inspections; identify and investigate all reported Illicit Connections and Illegal Discharges; review the water quality monitoring information reported by the Los Angeles County Department of Public Works; and review the monitoring of the San Jose Creek water quality provided by the City of Industry. Additional dry weather samples are required to determine the effects of the POTWs program on this pollutant of concern.

Coliform Bacteria

This pollutant was not included in the Fact Sheets supporting the revision to the Section 303(d) list that were developed by the SWRCB for the Reach 1 and Reach 2 of the San Gabriel River and Reach 1 of the San Jose Creek.

From this information the City will continue to provide Industrial/Commercial inspections; Construction inspections; identify and investigate all reported Illicit Connections and Illegal Discharges; review the water quality monitoring information reported by the Los Angeles County Department of Public Works; and review the monitoring of the San Jose Creek water quality provided by the City of Industry. Coliform concentrations serve as indicators for the potential presence of human waste and viruses. The sources of this pollutant are discharge from public or private sanitary sewer systems; discharge from potable toilets; animal waste discharge; and re-growth in the storm drain system. Continued monitoring is required to determine the concentration, location and distribution of this pollutant of concern.

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The City of Industry is also in the process of developing and implementing the Sanitary Sewer Management Plan associated with the WDR and Sanitary Districts of Los Angeles County. This program has increased the reporting, containment and clean-up of public and private sanitary sewer discharges and has a direct impact on the discharge of human waste and viruses and the presence of the indicator bacteria – Coliform.

pH

The Fact Sheets supporting the revision to the Section 303(d) list that were developed by the SWRCB identify the following information regarding this listing and pages 156 and 157 for Reach 1 of the San Gabriel River only:

Eighty-five samples of 284 total samples exceed the pH objective (LACSD, 2004b).

From this information the City will continue to provide Industrial/Commercial inspections; Construction inspections; identify and investigate all reported Illicit Connections and Illegal Discharges; review the water quality monitoring information reported by the Los Angeles County Department of Public Works; and review the monitoring of the San Jose Creek water quality provided by the City of Industry. Potential sources are discharge of concrete waste products from construction sites which result in an increase of pH. Other potential sources, such as pool water discharge or discharge of acids from industrial sites result in a decrease of pH.