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# **Evaluation of the Municipal Stormwater-Monitoring Network, Dallas-Fort Worth area, Texas, 1992–2000**

Water-Resources Investigations Report 01–\_\_\_\_\_

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**By Timothy H. Raines, Susan C. Gándara, and David S. Brown**

**U.S. GEOLOGICAL SURVEY  
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**In cooperation with the North Central Texas Council of Governments**

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# CONTENTS

- Abstract .....
- Introduction .....
- Purpose and Scope.....
- Description of the Study Area .....
- Monitoring Network .....
- Sample Collection and Analysis .....
- Acknowledgments .....
- Evaluation of Monitoring Network.....
- Land Use Characteristics .....
- Water-Quality Characteristics .....
- Selection of Constituents .....
- Summary Statistics .....
- Statistical Tests.....
- Hydraulic Characteristics.....
- Rainfall Characteristics.....
- Alternative Network Designs.....
- Summary.....
- References Cited.....

**FIGURES—(figures follow text)**

- 1. Map showing location of study area and stormwater monitoring sites .....
- 2. Hydrograph showing accumulated precipitation, discharge, and times of composite- and grab-sample collection at 08056390 Bastille Street Outfall at La Reunion Parkway, Dallas, Texas, May 15, 1997 .....
- 3. Graph showing 1990 NCTCOG land use .....
- 4. Graph showing 1995 NCTCOG land use .....
- 5–14. Boxplots showing concentrations by land-use category of: .....
- 5. Nitrite plus nitrate, nitrogen .....
- 6. Biochemical oxygen demand .....
- 7. Chemical oxygen demand .....
- 8. Suspended solids .....
- 9. Dissolved solids .....
- 10. Fecal coliform .....
- 11. Copper .....
- 12. Lead .....
- 13. Diazinon .....
- 14. Oil and Grease .....

**TABLES—(tables follow figures)**

- 1. NPDES municipal stormwater sites and summary of sampling .....
- 2. Land-use characteristics of stormwater monitoring sites and seven cities .....
- 3. Summary statistics by site and constituent .....
- 4. Summary statistics by constituent and land-use category .....
- 5. Results of Mann-Whitney statistical tests .....
- 6. Results of Kruskal-Wallis statistical tests between sites within the same land-use category .....
- 7. Results of Kruskal-Wallis statistical tests between different land-use categories .....
- 8. Selected characteristics of sampled storms .....
- 9. Municipal stormwater sites for Network Alternative 1 .....
- 10. Municipal stormwater sites for Network Alternative 2 .....
- 11. Municipal stormwater sites for Network Alternative 3 .....

# Evaluation of Municipal Stormwater-Monitoring Network, Dallas-Fort Worth, Texas, 1992–2000

By Timothy H. Raines, Susan C. Gándara, and David S. Brown

## Abstract

About 450 stormwater samples were collected from the municipal stormwater-monitoring network, Dallas-Fort Worth area, during February 1992–June 2000. Two-hundred ten samples were collected from a 30-site network of predominantly single-land-use sites during 1992–1994, and each sample was analyzed for 188 properties and constituents. Two-hundred thirty-eight samples were collected from a 22-site network during 1997–2000, and each sample was analyzed for 23 properties and constituents.

The current 22-site network was evaluated on the basis of land use, water quality, hydraulic, and rainfall characteristics. Land-use data for 1990 and 1995 was aggregated into seven categories. The seven cities in the area typically are about 35-percent residential, 10-percent commercial, 5-percent industrial, 5-percent highway, 35-percent undeveloped, and 10-percent water and other. The 22-site network consists of 4 residential, 4 commercial, 4 industrial, 3 highway, 1 undeveloped, and 6 mixed land-use sites. Statistically significant differences in concentrations of diazinon and oil and grease between 1992–94 samples and 1997–2000 samples were most common among constituents. Four sites have hydraulic problems affecting the accuracy and representativeness of sample collection. Because of the annual distribution of storms, more frequent sampling during February–September than during March–August is reasonable.

Three network alternatives were developed on the basis of the current network evaluation. All three alternatives propose collecting three samples per year at each current or reactivated site (two samples from September–February and one sample during March–August) and six samples per year at each new site (three samples from September–February and three sample during March–August). The first alternative consists of discontinuing two sites and adding one new site. The second alternative consists of discontinuing four sites and adding one new site. The third alternative consists of discontinuing 7 sites, reactivating 1 site, and adding 3 sites.

## **INTRODUCTION**

During 1992–94, the U.S. Geological Survey (USGS), in cooperation with the North Central Texas Council of Governments (NCTCOG), collected samples to characterize stormwater runoff from predominantly single-land-use sites for the seven cities and two Texas Department of Transportation (TxDOT) Districts in the Dallas-Fort Worth (DFW) area. These data were used by the cities and TxDOT in the application process for National Pollutant Discharge Elimination System (NPDES) stormwater permits. Cities with populations of 100,000 or greater and TxDOT districts with population centers of 100,000 or greater are required to obtain permits from the U.S. Environmental Protection Agency (EPA) to discharge stormwater into the Nation's waters (U.S. Environmental Protection Agency, 1990). The following cities and districts in the DFW area met the population criteria: Arlington, Dallas, Fort Worth, Garland, Irving, Mesquite, Plano, TxDOT Dallas District, and TxDOT Fort Worth District.

The stormwater discharge permits issued to the seven cities and two TxDOT districts in 1997 required additional sampling for a 5-year period. In 1997, the USGS began a study in cooperation with the NCTCOG to collect stormwater samples and characterize stormwater runoff for the seven cities and two TxDOT districts for the period 1997–2001. In 2000, the USGS began a study in cooperation with the NCTCOG to evaluate the existing stormwater-monitoring network and propose possible changes to the network design and sampling schedule.

## Purpose and Scope

This report presents the evaluation of the existing stormwater-monitoring network and proposes alternatives for future data collection. The analysis was limited to 105 samples collected at 15 sites during 1992–94 and 238 samples collected at 22 sites (15 original sites and 7 new sites) during February 1997–September 2000. Selected statistical tests were used in the analysis. The land uses for the sites and for the cities were compared.

## Description of the Study Area

The DFW area is located in north-central Texas (fig. 1) and lies within Collin, Dallas, Denton, and Tarrant Counties. Of the seven cities, three (Arlington, Dallas, and Fort Worth) have populations greater than 250,000 (North Central Texas Council of Governments, 1993). The DFW area is in the upper Trinity River Basin with three major tributaries of the Trinity River draining the 1,700-square-mile area—West Fork Trinity River, Elm Fork Trinity River, and East Fork Trinity River. Mean annual precipitation in the study area varies from about 31 inches in Tarrant County to 36 inches in Dallas County, with the months of April and May typically the wettest and the months of July and August the driest (Ramos, 1999).

## Monitoring Network

Thirty monitoring sites were established during 1992–93 in small (160 acres or less) drainage basins, each categorized by a single predominant land use (11 residential, 9 industrial, 6 commercial, and 4 highway). Five sites each were located in the cities of Dallas and Fort Worth, four in Arlington, three each in Garland, Irving, Mesquite, and Plano, and two sites each in TxDOT Dallas and TxDOT Fort Worth. Fifteen of the original 30 monitoring sites (1–15, table 1) were reactivated for the 1997–2000 sampling period, including 4 residential, 4 industrial, 4 commercial, and 3 highway. Three sites each are located in Dallas and Fort Worth, two sites each in Arlington and TxDOT Dallas, and one site each in Garland, Irving, Mesquite, Plano, and TxDOT Fort Worth. The remaining 15 original sites were discontinued for the 1997–2001 sampling period (16–30, table 1). Seven

new sites (31–37, table 1) were established during 1997–98. One site is located in each of the seven cities; no new TxDOT sites were established. Six of the new sites are located in drainage basins with mixed land use, and one site is located in an undeveloped drainage basin. Three of the six sites with mixed land use are located at outfalls with drainage areas less than 500 acres, and the remaining three sites are located instream with drainage areas of at least 2,500 acres (table 1). Most of the monitoring sites are located at storm-sewer outfalls or in concrete-lined open channels. Two sites are located at natural channels.

### Sample Collection and Analysis

Two conditions are required for sample collection: (1) Antecedent dry-weather conditions (no more than 0.1 inch of precipitation in a 24-hour period) during the 72 hours before the storm event to allow for accumulation of possible contaminants, and (2) the total storm precipitation should range from 0.2 to 1.5 inches (Baldys and others, 1998).

During 1992–94, seven samples were collected at each of the 30 sites and analyzed for 188 selected properties and constituents (Baldys and others, 1997). During the 1997–2001 sampling period, the 13 samples scheduled for the 15 reactivated sites and the 24 samples scheduled for the 7 new sites will be analyzed for a reduced list of 23 properties and constituents. The sampling schedule is divided into two 6-month periods (September–February and March–August), during which a predetermined number of samples are to be collected. For the reactivated sites, five samples were scheduled in the first year (two samples in the first 6-month period and three samples in the next period) and two samples per year (one in each 6-month period) for the following 4 years. For the new sites, six samples per year (three in each 6-month period) are scheduled for the last 4 years of the 5-year period. Table 1 lists the number of samples scheduled for the 1997–2001 period and the number of samples actually collected during February 1997–August 2000. Some samples were not collected as scheduled because of extended periods of little or no precipitation, backwater conditions, or equipment failure.

Two types of samples are collected for analysis of water-quality properties and constituents. Grab samples are collected manually, and composite samples are collected by an automatic sampler. The samples are analyzed



for selected properties and constituents in accordance with guidelines set by EPA (U.S. Environmental Protection Agency, 1992). Figure 2 shows an example of the accumulated precipitation, the discharge, and the times of the grab and composite aliquot samples for a storm sampled on May 15, 1997, at site 08056390 Bastille Street Outfall at La Reunion Parkway, Dallas.

A grab sample typically is collected during the first 2 hours of a storm to catch the first flush of the basin—the initial stormwater runoff that often contains accumulations of possible contaminants. Grab samples are analyzed for fecal coliform bacteria, fecal streptococcus bacteria, oil and grease, phenols (TxDOT Dallas only), and field properties. The field properties—specific conductance, pH, and water temperature—are measured at the time of sample collection.

A composite sample is a combination of discharge-weighted sample aliquots collected throughout a storm by the automatic sampler programmed to collect discrete samples after a site-specific, specified volume of flow has passed the site. Composite samples are analyzed for biochemical oxygen demand, chemical oxygen demand, suspended solids, dissolved solids, ammonia plus organic nitrogen, nitrite plus nitrate nitrogen, total phosphorus, dissolved phosphorus, arsenic, cadmium, chromium, copper, lead, nickel (TxDOT Dallas only), zinc, and diazinon.

## Acknowledgments

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## EVALUATION OF MONITORING NETWORK

The current (2001) 22-site network was analyzed on the basis of available land-use data, measured water-quality data, hydraulic site characteristics, and rainfall characteristics.

### Land-Use Characteristics

Land-use data from 1990 and 1995 (figs. 3, 4), the drainage basins for 19 of the 22 sites, and the jurisdictional boundaries of the seven cities in the DFW area were provided by the NCTCOG. The land-use data were aggregated into the following major categories: residential, commercial, industrial, highway, undeveloped, water, and other. The land-use subcategories of single family, multi-family, mobile home parks, and group quarters were classified as residential. The land-use subcategories of office, retail, institution, and hotel and motel were classified as commercial. The land-use subcategories of transportation, roadway, and airport were classified as highway. The land-use subcategories of utilities, parks and recreation, flood control, under construction, and parking were classified as other. The land-use categories of industrial, undeveloped, and water consisted only of those single land uses. The land use summarized by category for the 22 active sites and seven cities are listed in table 2.

Of the 16 predominantly single-land-use sites (excludes mixed), the site land-use characterization matches the land use in at least 70 percent of the upstream basin area for all except Pylon Street Outfall (Fort Worth) (table 2). The majority of the drainage basin for Pylon Street Outfall, classified as an industrial outfall, is

undeveloped. The majority of the drainage basin for the Mountain Creek Outfall site (TxDOT) consists of highway median draining a large hillside. Although the Beck Branch (Plano) undeveloped site drains a basin predominantly zoned as industrial, the only existing development includes the roads and associated drainage and one building constructed since the site was established. The Sycamore Creek (Fort Worth) and Rush Creek (Arlington) mixed-land-use sites primarily are a mix of residential and undeveloped land. The smaller mixed-land-use sites Mills Branch (Garland) and Knights Branch (Dallas) are about 50-percent residential, and the Cottonwood Branch site (Irving) is about 50-percent industrial. Drainage-basin data for the North Mesquite Creek site were not available from NCTCOG.

Land use associated with the 15 predominately single-land-use sites did not change substantially from 1990 to 1995. For the large mixed-land-use sites, the amount of undeveloped land decreased slightly and the amount of residential, commercial, and industrial land use increased slightly between 1990 and 1995. There was a decrease in residential land and an increase in undeveloped land associated with the Eastern Hill High School Outfall (Fort Worth) for unknown reasons. The Beck Branch Outfall site reflects a decrease in industrial land use and an increase in highway land use between 1990 and 1995, which reflects the construction of new roads in the drainage basin.

The current (2001) 22-site network drains only about 6.6 percent of the area of the seven cities. Without the Sycamore Creek, Rush Creek, and North Mesquite Creek (Mesquite) sites, the remaining 19 sites would represent about 0.3 percent of the area of the seven cities. The cities typically are about 35-percent residential, 10-percent commercial, 5-percent industrial, 5-percent highway, 35-percent undeveloped, and 10-percent water and other.

## Water-Quality Characteristics

Of the 238 samples that were collected during February 1997–August 2000, 107 samples were analyzed at the USGS National Water Quality Laboratory (NWQL) in Denver, Colo., and the remaining samples were analyzed at the Armstrong Laboratory in Arlington, Tex. The Armstrong Laboratory currently (2001) is involved in the process of being certified as a USGS-approved laboratory.

Summary statistics were computed for 23 properties and constituents included in the 1997–2000 sampling. Statistical tests were applied to a subset of the properties and constituents to test for differences between sites within the same land-use group. Twenty-four samples were not used in the analysis because the composite samples were not deemed representative of the entire storm event.

### Selection of Constituents

Of the 23 properties and constituents analyzed during 1997–2000, 10 were selected for the additional analysis. Two constituents from grab samples were analyzed (fecal coliform and oil and grease), and eight constituents from composite samples were analyzed (nitrite plus nitrate, biochemical oxygen demand, chemical oxygen demand, suspended solids, dissolved solids, copper, lead, and diazinon). The samples were selected on the basis of being representative of major groups, NWQL approval of that constituent at the Armstrong Laboratory, and the number of concentrations measured above the detection levels.

### Summary Statistics

Logarithmic plotting distribution estimation techniques (Helsel and Cohn, 1988) were used to compute statistics for constituent concentrations less than the laboratory minimum reporting level (MRL). The logarithmic plotting distribution estimation technique also can be used for constituents with multiple MRLs (Helsel and Cohn, 1988) such as diazinon. The use of the robust probability-plot method has been shown to perform well for estimating summary statistics and reducing errors that would be introduced using other methods (Helsel and Hirsch, 1992).

Simple boxplots (figs. 5–14) are used to display the period-of-record data for each site for the 10 constituents selected for this analysis because they provide a concise graphical summary of the distributions of the data. Boxplots show center of the data (median), variation of spread (interquartile range), skewness (quartile skew), and presence or absence of unusual values. A simple boxplot is constructed by ranking data from smallest to largest, and a box is drawn from the 25th to the 75th percentile. The box length is from the 25th percentile to the 75th percentile. The box length equals the interquartile range. A line is drawn through the box at the median. “Whiskers” are then drawn from the quartiles to the maximum and minimum data values.

Summary statistics for each of the 15 original sites were computed for all of the analyzed constituents for the 1992–94 period and the 1997–2000 period and for the seven new sites for the 1997–2000 period as shown in table 3. Summary statistics also were computed for each of the 10 major constituents discussed in this report for each land use for the two sampling periods of the project as shown in table 4. Apparent differences by land use for each of the 10 major constituents are discussed below.

The median concentrations of nitrite plus nitrate for the six land-use categories for data from both periods ranged from 0.42 to 0.73 milligrams per liter (mg/L). The median concentration for the highway land-use sites increased from 0.6 mg/L for the 1992–94 period to 0.73 mg/L for the 1997–2000 period. The median concentration for the new mixed land-use sites was 0.6 mg/L and for the undeveloped land-use site was 0.65 mg/L for the 1997–2000 period.

The median concentrations of biochemical oxygen demand for the six land-use categories for data from both periods ranged from 6.3 to 8.3 mg/L. The median concentration for the commercial land-use sites increased from 4.95 mg/L for the 1992–94 period to 7.30 mg/L for the 1997–2000 period. The median concentration for the new mixed land-use sites was 8.3 mg/L and for the undeveloped land-use site was 4.2 mg/L for the 1997–2000 period.

The median concentrations of chemical oxygen demand for the six land-use categories for data from both periods ranged from 5.0 to 69.5 mg/L. The median concentration for the 1997–2000 period was less than that of the 1992–94 period for the four land-use groups. The median concentration for the residential land-use sites

decreased from 69.5 to 59.5 mg/L. The median concentration for the commercial land-use sites decreased from 47.0 to 38.0 mg/L. The median concentration for the industrial land-use sites decreased from 61.0 to 32.8 mg/L. The median concentration for the highway land-use sites decreased from 59.0 to 44 mg/L. The median concentration for the new mixed land-use sites was 36.7 mg/L and for the undeveloped land-use site was 5.0 mg/L for the 1997–2000 period.

The median concentrations of suspended solids for the six land-use categories for data from both periods ranged from 28.0 to 278.0 mg/L. The median concentration for the commercial land-use sites increased from 28.0 mg/L for the 1992–94 period to 42.0 mg/L for the 1997–2000 period. The median concentration for the highway land-use sites increased from 88 mg/L for the 1992–94 period to 134 mg/L for the 1997–2000 period. The median concentration for the new mixed land-use sites was 278.0 mg/L and for the undeveloped land-use site was 200.5 mg/L for the 1997–2000 period.

The median concentrations of dissolved solids for the six land-use categories for data from both periods ranged from 50.0 to 209.5 mg/L. The median concentration for the residential land-use sites increased from 60.0 mg/L for the 1993–94 period to 76.0 mg/L for the 1997–2000 period. The median concentration for the new mixed land-use sites was 148.0 mg/L and for the undeveloped land-use site was 118.5 mg/L for the 1997–2000 period.

The median concentrations of fecal coliform for the six land-use categories for data from both periods ranged from 9,350 to 46,000 mg/L. The median concentration for the commercial land-use sites increased from 9,350 mg/L for the 1992–94 period to 21,500 mg/L for the 1997–2000 period, and the median concentration for the industrial land-use sites increased from 10,000 mg/L for the 1992–94 period to 24,000 mg/L for the 1997–2000 period. The median concentration for the new mixed land-use sites was 46,000 mg/L and for the undeveloped land-use site was 42,000 mg/L for the 1997–2000 period.

The median concentrations of copper for the six land-use categories for data from both periods ranged from 6.0 to 17.0 µg/L. The median concentration for the residential land-use sites increased from 7.0 µg/L for the 1992–94 period to 10.0 µg/L for the 1997–2000 period. For the same periods, the median concentration for the

commercial land-use sites increased from 6.0 µg/L to 9.0 µg/L, and the median concentration for the highway land-use sites decreased from 13.0 µg/L to 10.8 µg/L. The median concentration for the new mixed land-use sites was 17.0 µg/L and for the undeveloped land-use site was 7.50 µg/L for the 1997–2000 period.

The median concentrations of lead for the six land-use categories for data from both periods ranged from 6.2 to 32.0 µg/L. The median concentration for the industrial land-use sites decreased from 32.0 µg/L for the 1992–94 period to 15.2 µg/L for the 1997–2000 period. The median concentration for the new mixed land-use sites was 23.4 µg/L and for the undeveloped land-use site was 6.2 µg/L for the 1997–2000 period.

The median concentrations of diazinon for the six land-use categories for data from both periods ranged from 0.01 to 0.40 µg/L. The median concentration for the residential land-use sites decreased from 0.40 µg/L for the 1992–94 period to 0.18 µg/L for the 1997–2000 period. For the same periods, the median concentration for the commercial land-use sites decreased from 0.10 µg/L to 0.02 µg/L, and the median concentration for the industrial land-use sites decreased from 0.04 µg/L to 0.01 µg/L. The median concentration for the new mixed land-use sites was 0.052 µg/L for the 1997–2000 period; and there were no detections of diazinon for the undeveloped land-use site.

The median concentration of oil and grease for the six land-use categories for data from both periods ranged from 0.2 µg/L to 11.0 µg/L. The median concentration increased for the 1997–2000 period for the four land-use categories with data from both periods. The median concentration for the residential land-use sites increased from 1.0 to 4.0 µg/L. The median concentration for the commercial land-use sites increased from 2.0 to 5.0 µg/L. The median concentration for the industrial land-use sites increased from 0.5 to 3.0 µg/L. The median concentration for the highway land-use sites increased from 0.2 to 3.0 µg/L. The median concentration for the new mixed land-use sites was 3.0 µg/L and for the undeveloped land-use site was 11.0 µg/L for the 1997–2000 period.

## Statistical Tests

A Mann-Whitney test (Helsel and Hirsch, 1992) was used to compare the data collected during 1992–94 with the data collected during 1997–2000 at the 15 reactivated sites for a selected property or constituent. The test is a rank-based procedure to determine if the medians for two groups of data are significantly different. A rank-based test is a more robust measure than a parametric test when data are not normally distributed; water-quality data typically are not normally distributed. The null hypothesis is that the medians are the same; the alternative hypothesis is that the medians are different. The null hypothesis is rejected in favor of the alternative hypothesis if the p-value from the test is less than or equal to a predetermined level of significance (alpha level). This test thus indicates whether there were significant temporal changes in the water quality at the 15 sites.

Results of the Mann-Whitney tests ( $\alpha = 0.05$ ) are presented in table 5. Commercial land-use sites consistently indicate that concentrations of diazinon and oil and grease are significantly different between the two sampling periods. Highway sites consistently indicate that concentrations of oil and grease are significantly different between the two periods. Industrial sites consistently indicate that concentrations of chemical oxygen demand and oil and grease are significantly different, and the residential sites consistently indicate that concentrations of suspended solids are significantly different between the two periods.

Results of the Mann-Whitney tests further indicate that oil and grease concentrations generally are higher for all land uses; the reason is unknown. Nitrite plus nitrate, biochemical oxygen demand, dissolved solids, and lead concentrations generally remained unchanged during the two periods for all land uses. Chemical oxygen demand, suspended solids, fecal coliform, copper, diazinon, and oil and grease concentrations showed mixed changes among land uses.

A Kruskal-Wallis test (Helsel and Hirsch, 1992) was used to compare data collected between sites within the same land-use group. The test is a rank-based procedure, similar to the Mann-Whitney test, to determine whether the medians for three or more groups of data are significantly different. The null hypothesis is that the medians are the same; the alternative hypothesis is that the median of at least one group is different. The null hypothesis is rejected in favor of the alternative hypothesis if the p-value from the test is less than or equal to the



alpha level. The Kruskal-Wallis test was used to determine whether there is a significant difference between sites within a land-use group for 10 selected properties and constituents.

Results of the Kruskal-Wallis tests ( $\alpha=0.05$ ) for 10 selected properties and constituents for six land-use groups (table 6) indicate a significant difference at  $\alpha=0.05$  between the four residential sites for nitrite plus nitrate, suspended solids, dissolved solids, lead, diazinon, and oil and grease. There is a significant difference between the four commercial sites for chemical oxygen demand, copper, and lead. There is a significant difference between the four industrial sites for nitrite plus nitrate, biochemical oxygen demand, chemical oxygen demand, suspended solids, dissolved solids, copper, and lead. There is a significant difference between the three highway sites for chemical oxygen demand, dissolved solids, fecal coliform, copper, and lead. There is a significant difference between the six mixed sites for nitrite plus nitrate, chemical oxygen demand, suspended solids, dissolved solids, and lead.

A Kruskal-Wallis test also was used to determine if there is a significant difference between land-use groups for the 10 selected properties and constituents (table 7). There is a significant difference between the six land use groups at  $\alpha=0.05$  for all 10 properties and constituents.

## Hydraulic Characteristics

Hydraulic characteristics for the current (2000) 22-site network were reviewed. Sites that have backwater, confined space, high velocity, or sediment build-up were identified. Sites that have these adverse hydraulic conditions are candidates for removal from the existing network. These hydraulic conditions affect the ability to collect representative flow-weighted samples. Sites with such conditions typically must have rainfall events that are small (0.20–0.50 inch) in order to collect representative flow-weighted samples. Because only small rainfall events can be sampled, the probability of collecting representative stormwater samples is reduced. Backwater conditions occur at sites Bachman Branch Outfall, Dry Branch Outfall, Tributary to Duck Creek

Outfall, and White Rock Creek Outfall; confined space and high velocity conditions exist at site White Rock Creek Outfall; and sediment build-up occurs at Bachman Branch Outfall and Dry Branch Outfall sites.

The larger instream sites (Sycamore Creek, Rush Creek, and North Mesquite Creek) have different hydraulic characteristics than the smaller single-land-use sites. Typically, hydrograph duration is measured in days for instream sites and in hours for single-land-use sites. Real-time flow-weighted compositing is difficult because predicting the volume of runoff for a given storm event is difficult. The predicted runoff volume is used to determine when the sampler will take a sample. Hence, a more appropriate method of sample collection might be to use a timed sampling routine. The samples would be collected on a timed schedule and then individual samples would be flow-weighted after-the-fact. Flow-weighted compositing of the sample would occur after the event in the laboratory.

### Rainfall Characteristics

Rainfall characteristics determine when collection of stormwater samples can occur. No rainfall means no stormwater sample. The characteristics of storms for which stormwater samples were collected during the 1992–94 and 1007–2000 are listed in table 8. The distribution of sample collection, by month, is shown below:

Number of stormwater samples collected, by month, 1992–94 and 1997–2000 data combined

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Number of samples collected	38	47	66	70	41	26	9	9	27	37	33	54

The fewest and most widely scattered storms during the two sampling periods occurred in June, July, and August. The fewest samples (nine each) were collected in July and August due to dry weather; and the most samples (66 and 70, respectively) were collected in March and April due to wet weather.

Scheduling more frequent stormwater sampling during September–February than during March–August is reasonable. Typically, rainfall in March–August is less frequent and less uniformly distributed than in September–February. If storm sampling is missed for some reason, another opportunity to collect a sample is

more likely occur in the September–February period. Hence, the potential risk for not collecting samples would be minimized if proportionally more samples were scheduled for collection during September–February than March–August.

## **ALTERNATIVE NETWORK DESIGNS**

Possible alternative network designs were developed to guide future data-collection to adequately characterize municipal stormwater runoff in the Dallas-Fort Worth area. Site selection for the development of network alternatives was based on the following five factors: land-use characteristics, water-quality characteristics, hydraulic characteristics, rainfall characteristics, and site location within city boundaries. The current (2000) network consists of 22 sites characterized by upstream basin land use. Two samples per year (one per 6-month period) are scheduled at the 15 reactivated sites, and six samples per year (three per 6-month period) are scheduled at the seven new sites. No further reduction in the number of properties and constituents to be analyzed is proposed.

The first network alternative is summarized in table 9. This alternative consists of discontinuing the two Dallas TxDOT sites and replacing them with one new highway site and collecting three samples per year at each of the 20 current sites in the network and six samples per year at the proposed new site. At each of the current sites, two samples per year would be collected during September–February, and one sample per year would be collected during March–August. A two-to-one ratio for sample collection in September–February and March–August reflects the typical temporal distribution of the number of storms occurring during the two 6-month periods. At the new site, three samples per year would be collected during September–February, and three samples per year would be collected during March–August to be consistent with schedule for the seven sites established in 1997. The Bachman Branch Outfall site is not representative of highway use in the TxDOT Dallas District because it has had a history of a raw-sewage leak, which is reflected in the bacteria data. Also has had backwater and sediment deposition from the downstream catch basin that limits the magnitude of stormwater runoff (less than 0.5 inches) in places where the site can be accurately gaged and sampled. The Mountain Creek

Outfall site also is not representative of highway use in the TxDOT Dallas District because of the large percentage of the drainage area is highway median that drains a hill. Runoff from the hill, which is high in dissolved solids and associated major ions (table 3) does not reflect highway use.

The second network alternative is summarized in table 10. This network is the same as the first alternative network but is further reduced by two sites: the industrial site Dry Branch Outfall and the commercial site White Rock Creek Outfall. Data collection for both these sites are complicated by hydraulic problems. The removal of these sites from the network is supported by the fact that the percentages of industrial and commercial land are small relative to the percentages of residential and undeveloped land. The remaining single-land-use sites are adequate to characterize the event mean concentrations from industrial and commercial land.

The third network alternative is summarized in table 11. This network is the same as the second alternative network except for the discontinuation of three more sites, the reactivation of one site, and establishment of two additional sites. The number and type of sites of this network more closely reflect the average distribution of land use in the seven cities. This network alternative consists of 5 residential, 2 commercial, 2 industrial, 2 highway, 6 mixed, and 2 undeveloped land use sites. Discontinuing the Pylon Street Outfall, Tributary to Duck Creek Outfall, and South Mesquite Creek Outfall at I-635 sites is proposed because those sites are less representative of their respective land-use categories than the other sites. The Tributary to Duck Creek Outfall site also is subject to backwater. The city of Garland site would be replaced with a discontinued, predominantly residential site from the 1992–94 sampling period (Sleepy Hollow Street Outfall). A new site, predominantly industrial, would be established in the city of Fort Worth and a new site, predominantly undeveloped, would be established in the city of Mesquite.

## **SUMMARY**

About 450 stormwater samples were collected in the municipal stormwater network from February 1992–August 2000. The network comprises monitoring stations in the cities of Dallas, Fort Worth, Arlington, Garland,

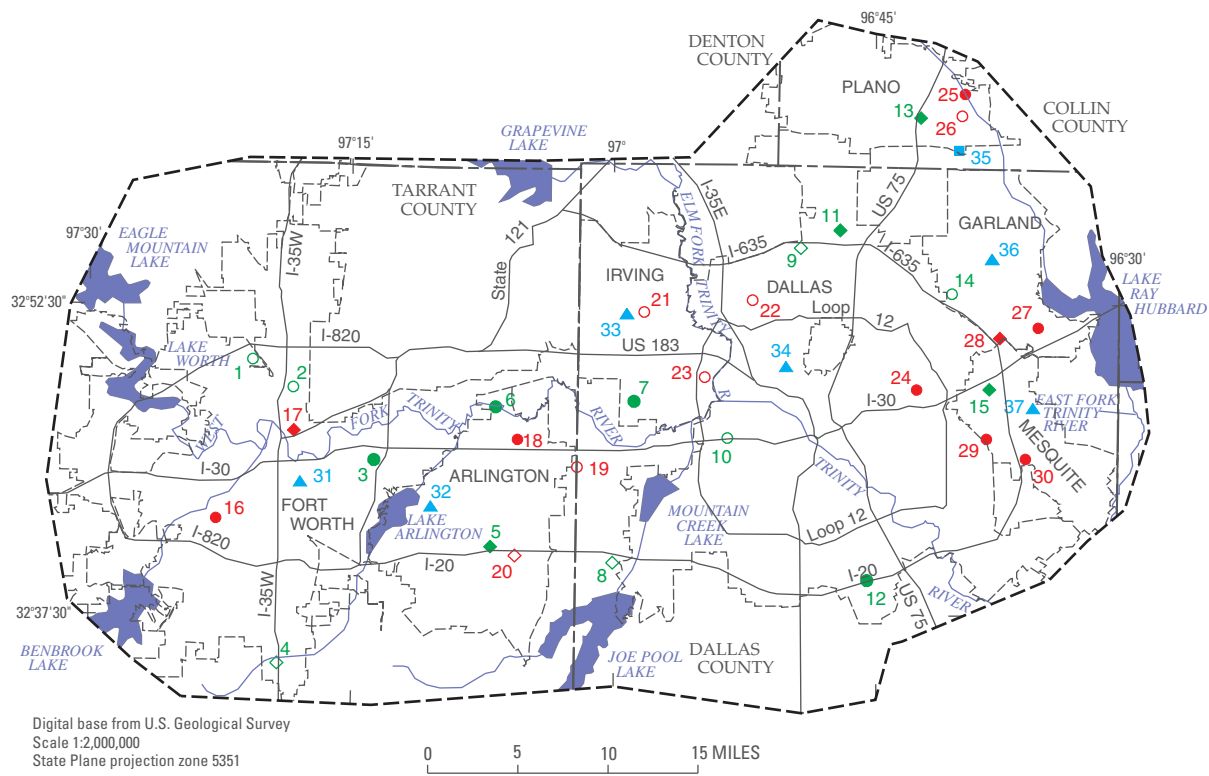
Irving, Plano, and Mequite, and the TxDOT Dallas and Fort Worth districts. Two-hundred ten samples were collected from a 30-site network of predominantly single-land-use sites during 1992–94. Each sample was analyzed for 188 properties and constituents. Two-hundred thirty eight samples were collected from a 22-site network during 1997–2000. Each sample was analyzed for 23 properties and constituents.

The 22-site network was evaluated on the basis of land-use, water-quality, hydraulic, and rainfall characteristics. The NCTCOG 1990 and 1995 land-use data were aggregated into seven categories. The cities typically are about 35-percent residential, 10-percent commercial, 5-percent industrial, 5-percent highway, 35-percent undeveloped, and 10-percent water and other. The 22-site network consists of 4 residential, 4 commercial, 4 industrial, 3 highway, 1 undeveloped, and 6 mixed land-use sites. Statistically significant differences in constituent concentrations between 1992–94 samples and 1997–2000 samples among all land uses were most common for diazinon and oil and grease. Four sites have backwater, one site has confined space and high-velocity-velocity conditions, and two sites have sediment build-up—all conditions that affect the accuracy and representativeness of sample collection. On the basis of the annual distribution of stormwater samples collected, storms during February–September are more frequent and more uniformly distributed than during March–August. Thus, scheduling more frequent sampling during February–September than during March–August is reasonable.

Three network alternatives were developed on the basis of the current (2000) network evaluation. All three alternatives propose collecting three samples per year at each current or reactivated site (two samples from September–February and one sample during March–August) and six samples per year at each new site (three samples from September–February and three sample during March–August). The first alternative consists of discontinuing two highway sites and adding one new highway site. The second alternative consists of discontinuing four sites (one industrial, one commercial, and two highway sites) and adding one new highway site. The third alternative consists of discontinuing seven sites (2 commercial, 3 industrial, and 2 highway sites), reactivating one residential site, and adding three sites (one highway, one industrial, and one undeveloped).

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**EXPLANATION**

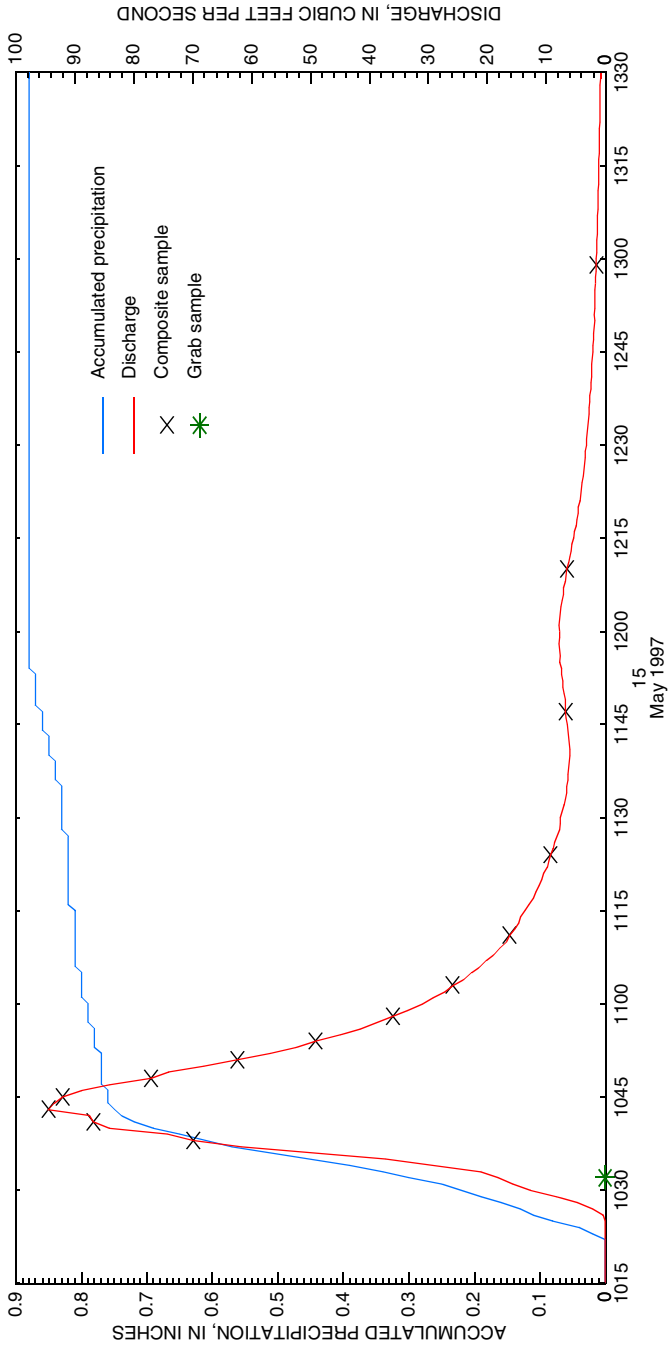
**SITE LAND-USE CLASSIFICATION**

REACTIVATED SITES	DISCONTINUED SITES	NEW SITES
1 ○ Industrial	16 ● Residential	31 ▲ Mixed
3 ● Residential	17 ◆ Commercial	35 ■ Undeveloped
4 ◇ Highway	19 ○ Industrial	
5 ◆ Commercial	20 ◇ Highway	

Site numbers referenced in table 2

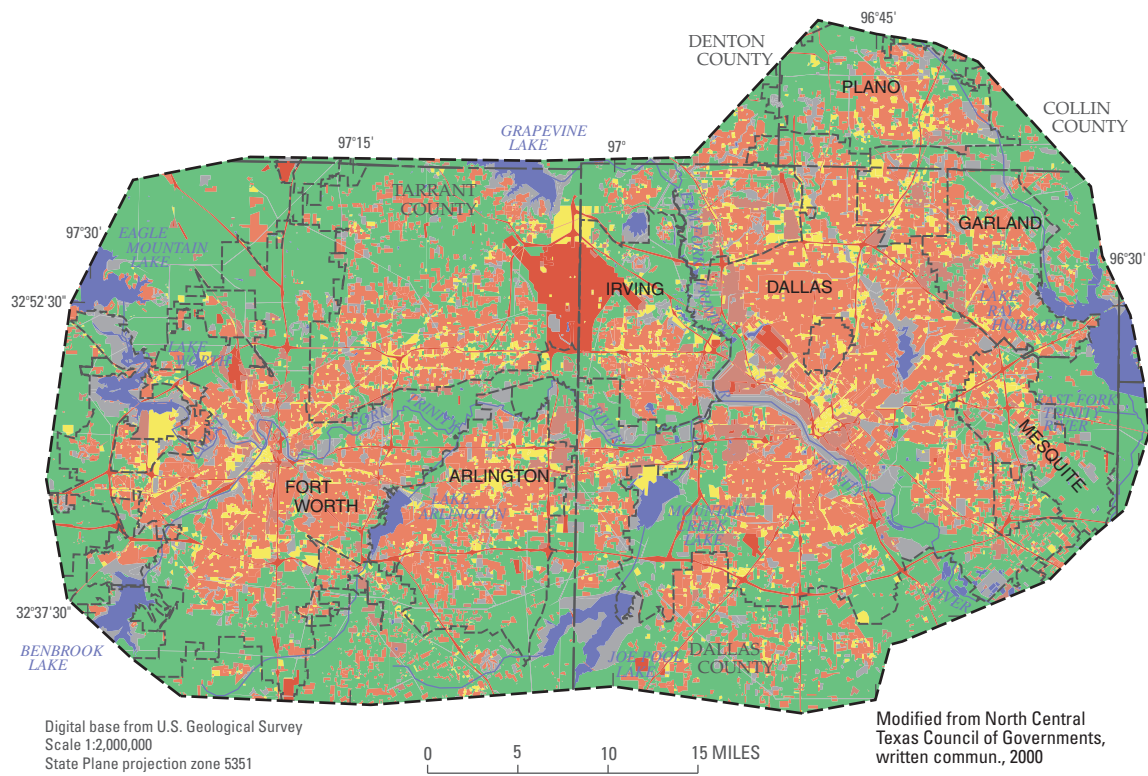


**Figure 1.** Location of study area and stormwater monitoring sites.



**Figure 2.** Hydrograph showing accumulated precipitation, discharge, and times of composite- and grab-sample collection at 08056390 Bastille Street Outfall at La Reunion Parkway, Dallas, Texas, May 15, 1997.



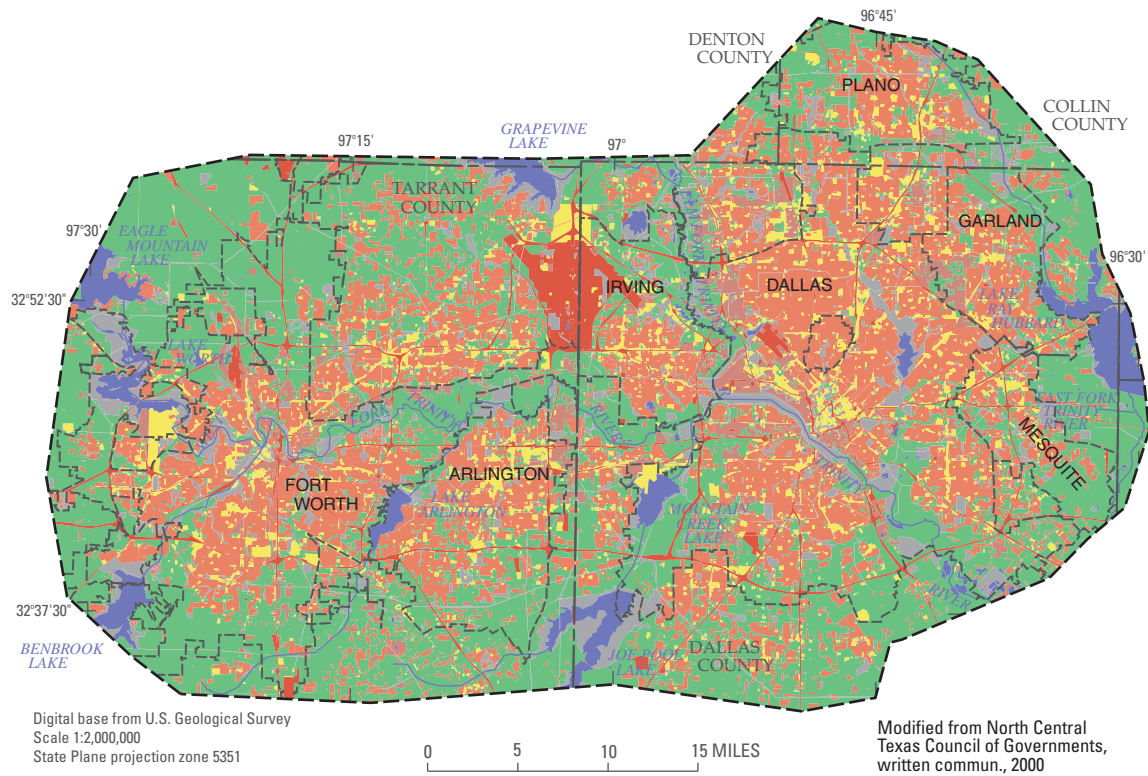


**EXPLANATION**

**Land use**

- Residential
- Commercial
- Industrial
- Undeveloped
- Highway
- Other
- Water

**Figure 3.** Land use in the study area, 1990.



**EXPLANATION**

**Land use**

- Residential
- Commercial
- Industrial
- Undeveloped
- Highway
- Other
- Water

**Figure 4.** Land use in the study area, 1995.

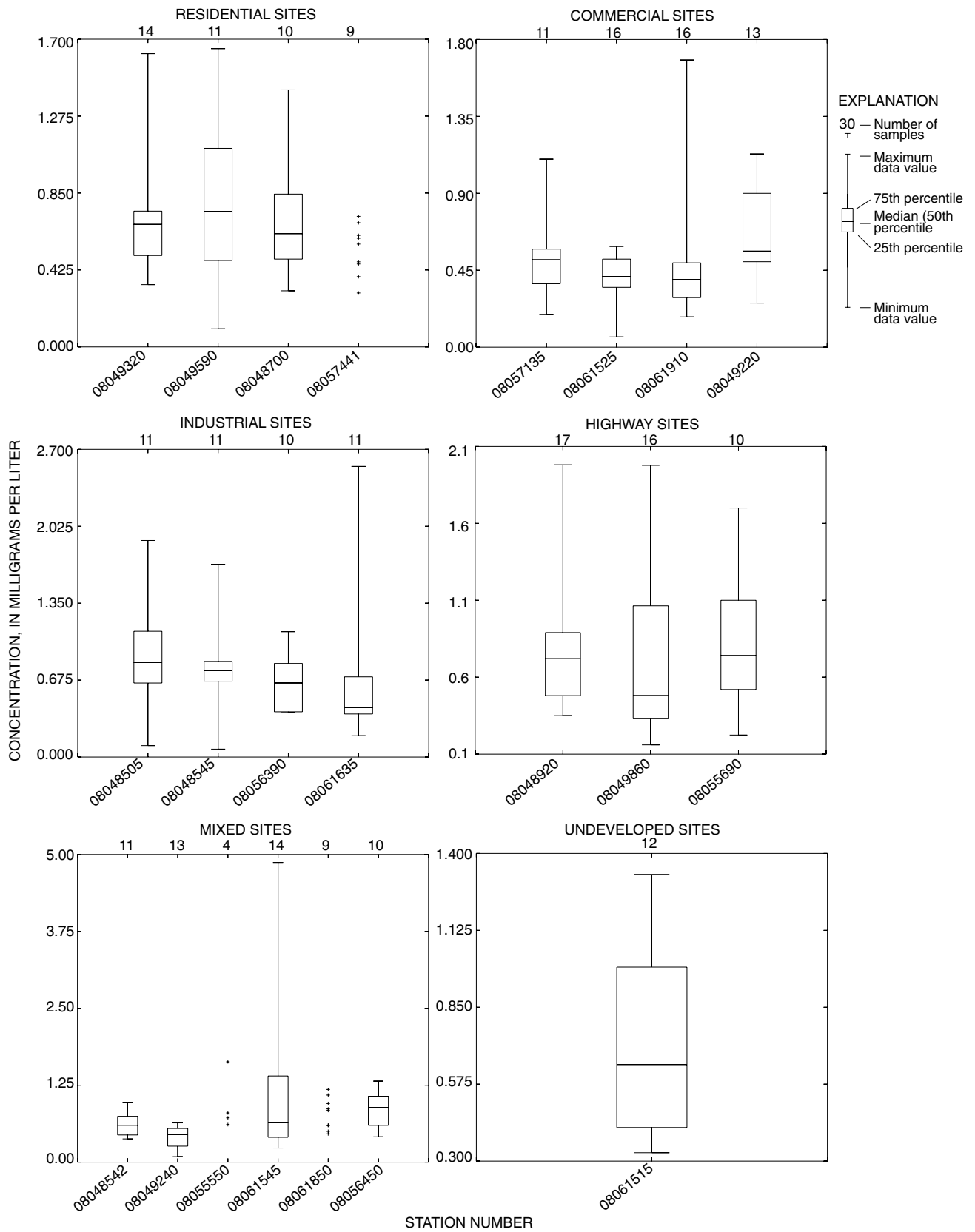
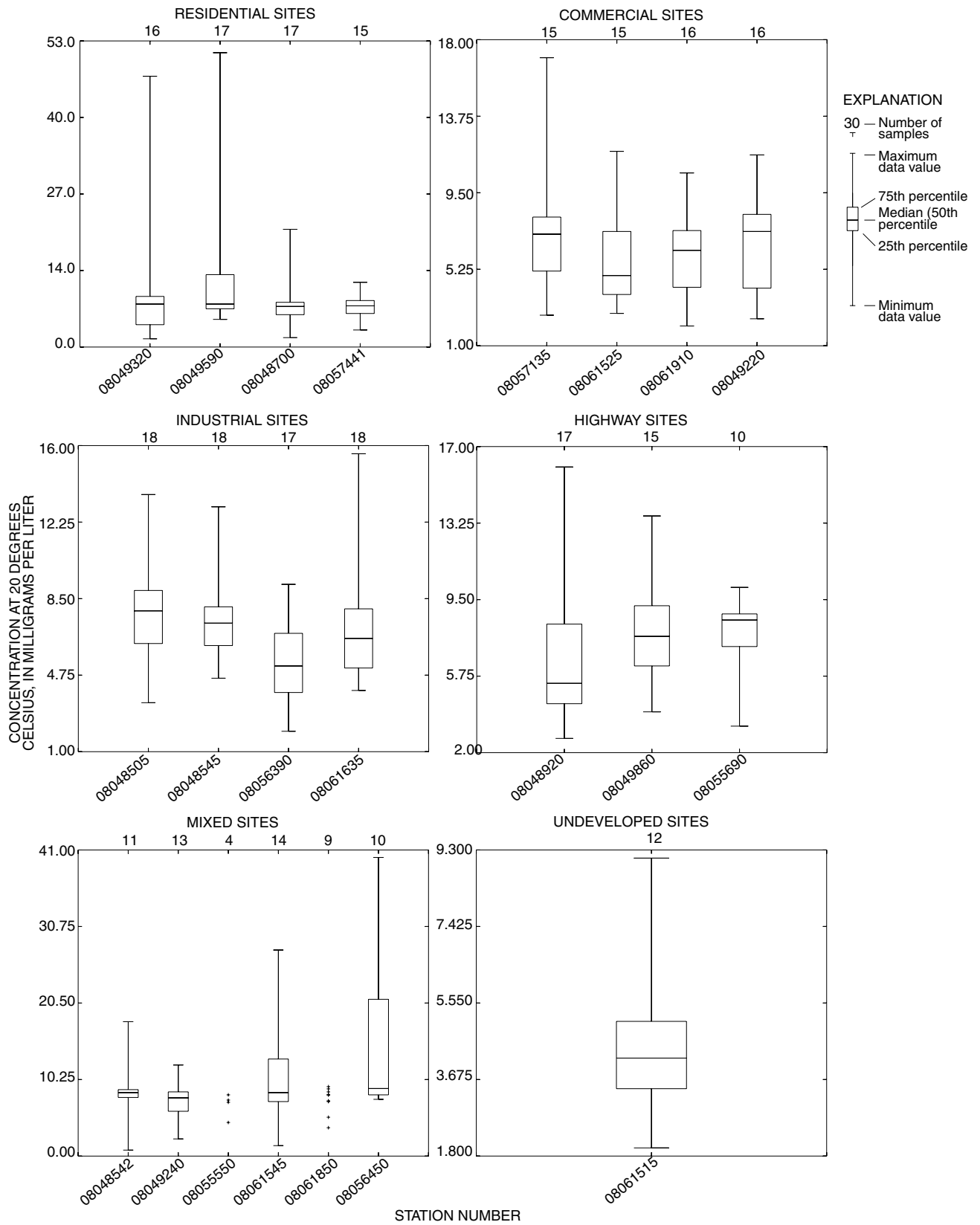
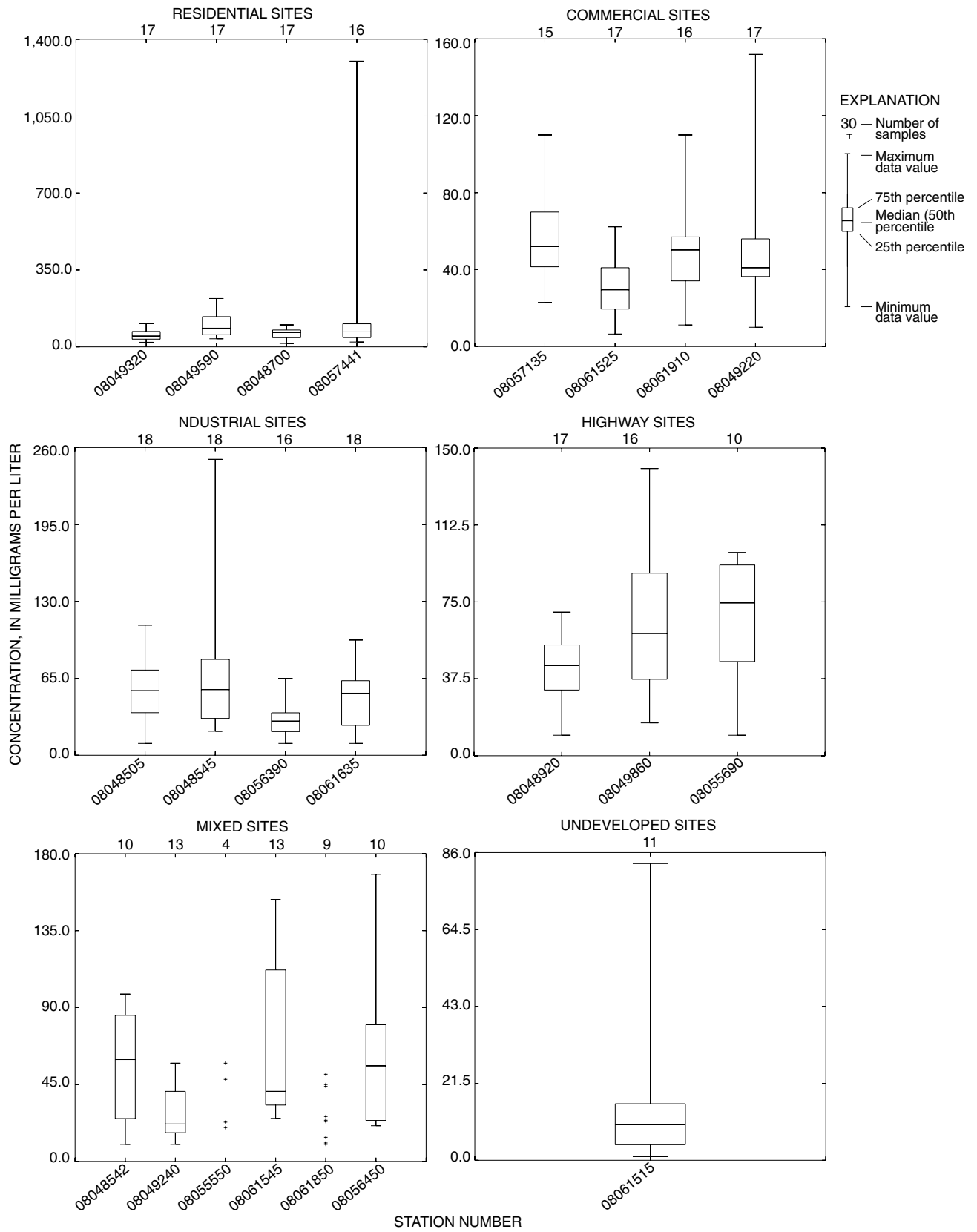


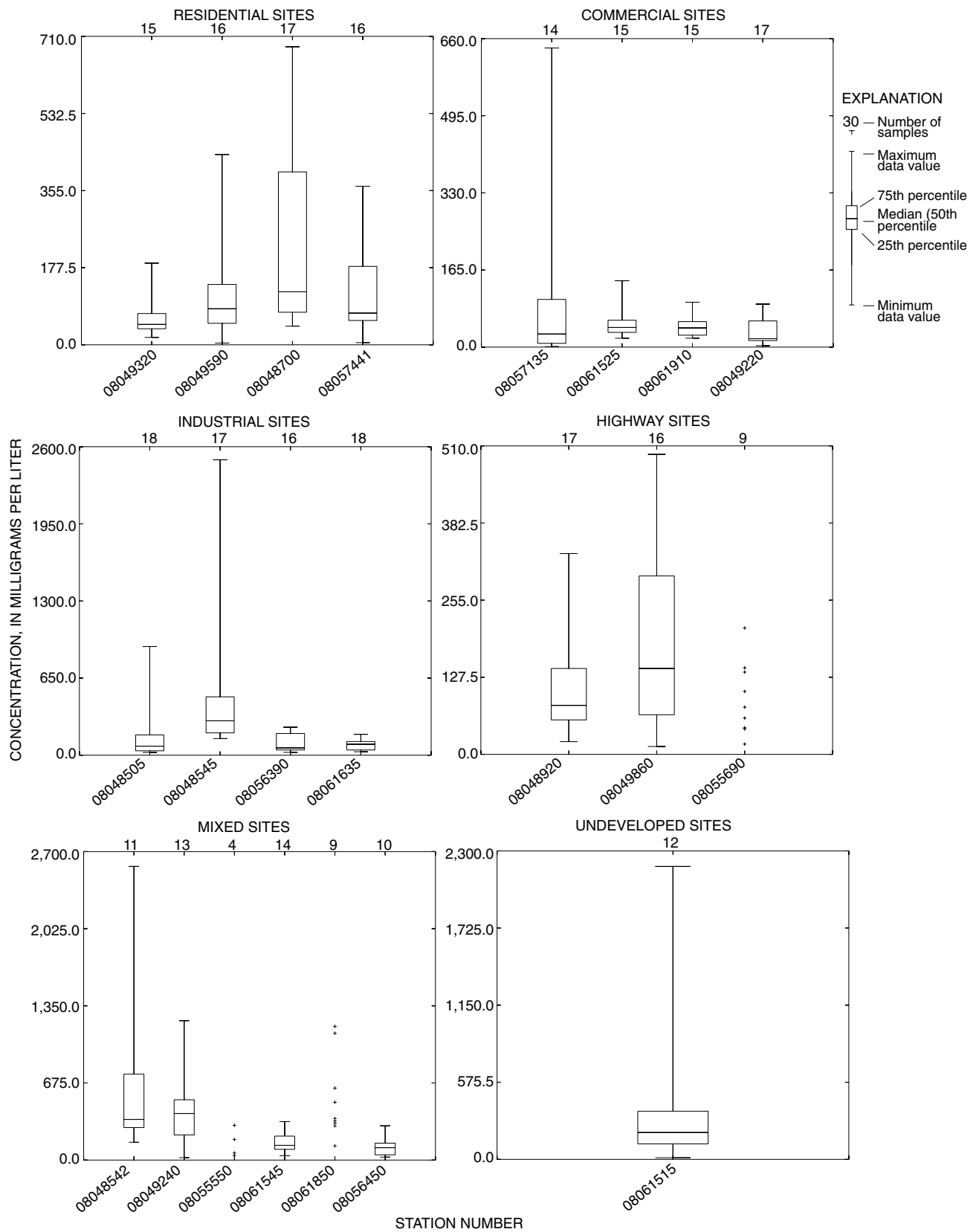
Figure 5. Boxplots of nitrite plus nitrate concentrations by land-use category.



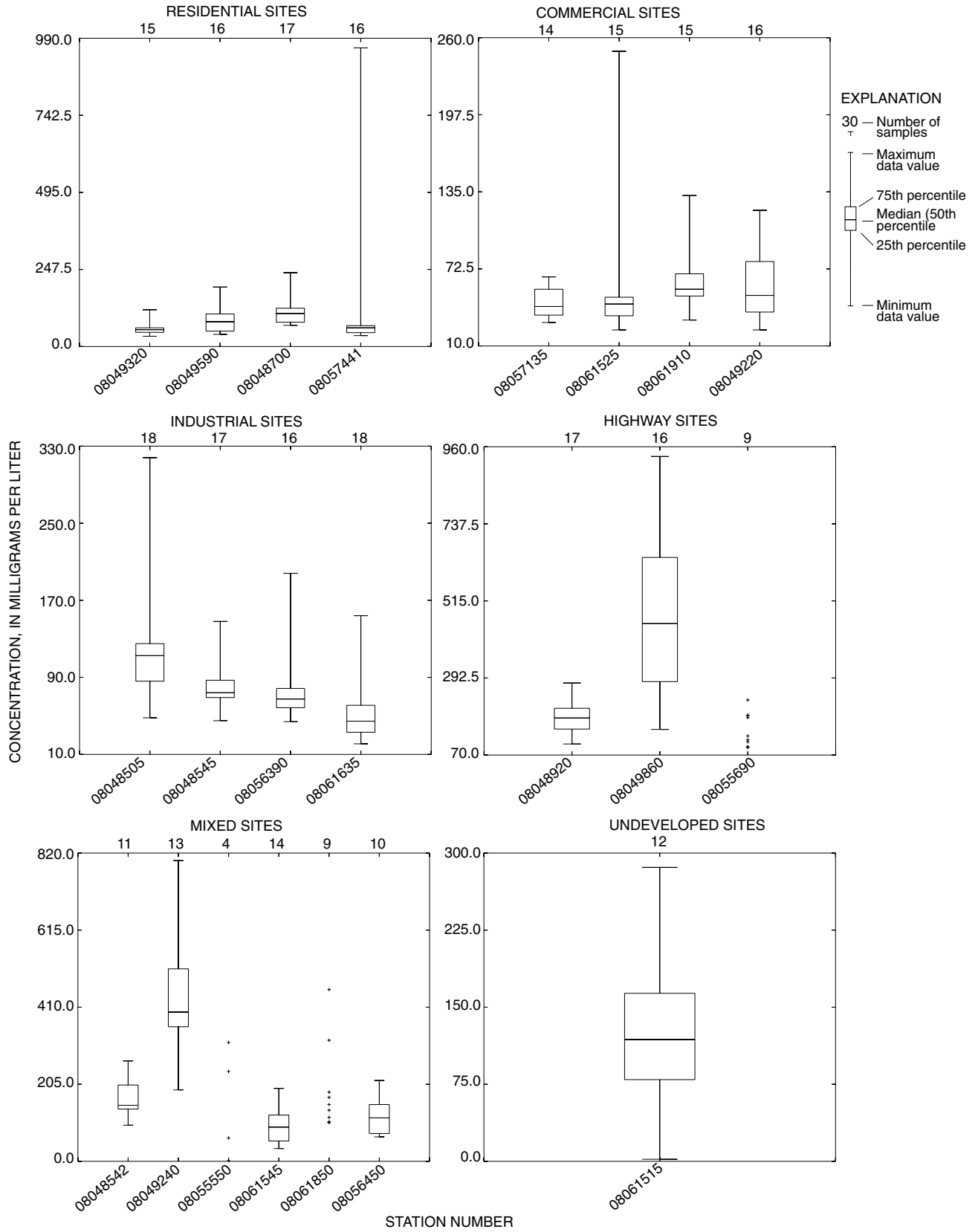
**Figure 6.** Boxplots of biochemical oxygen demand concentrations by land-use category.



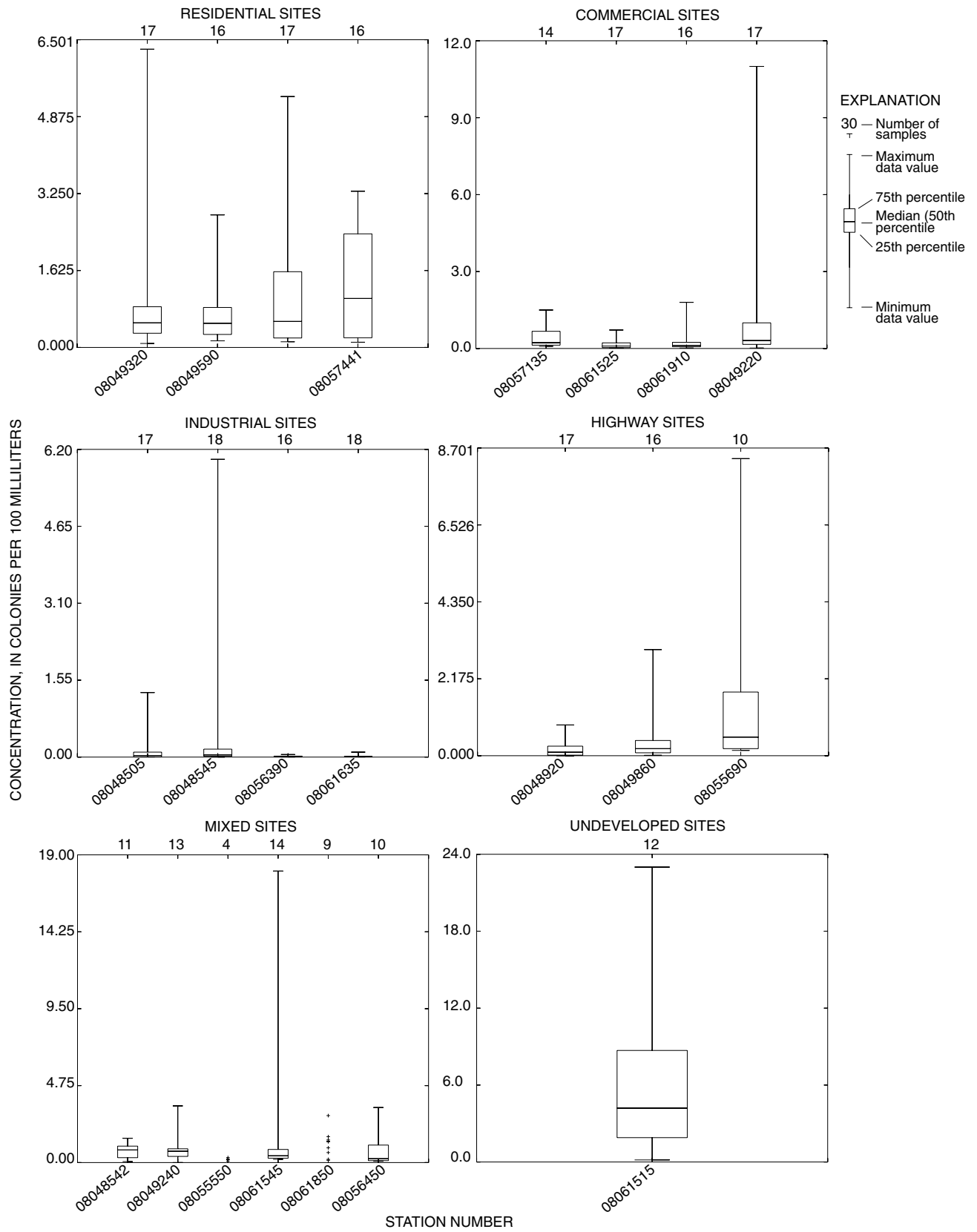
**Figure 7.** Boxplots of chemical oxygen demand concentrations by land-use category.



**Figure 8.** Boxplots of suspended solids concentrations by land-use category.



**Figure 9.** Boxplots of dissolved solids concentrations by land-use category.



**Figure 10.** Boxplots of fecal coliform concentrations by land-use category.



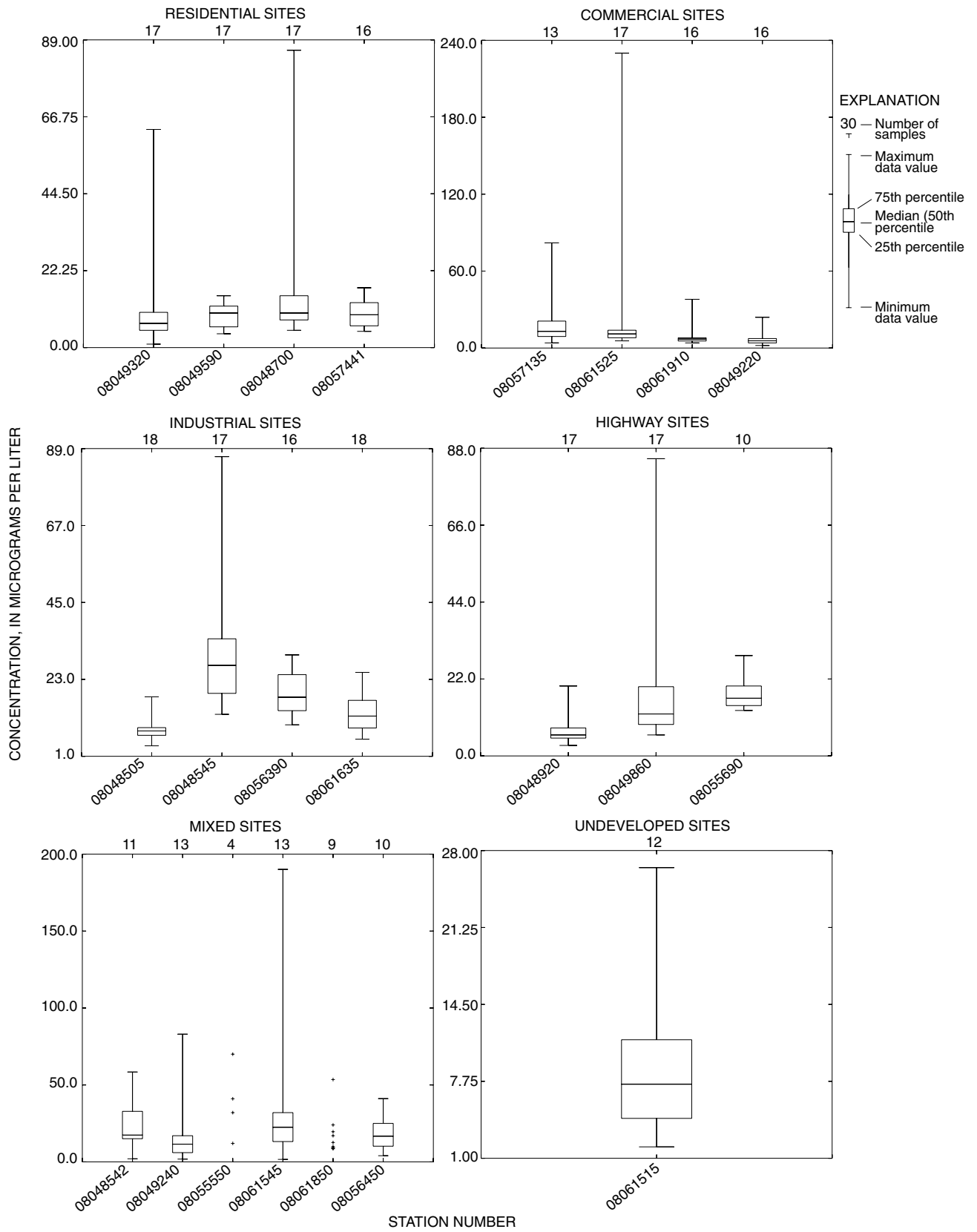


Figure 11. Boxplots of copper concentrations by land-use category.

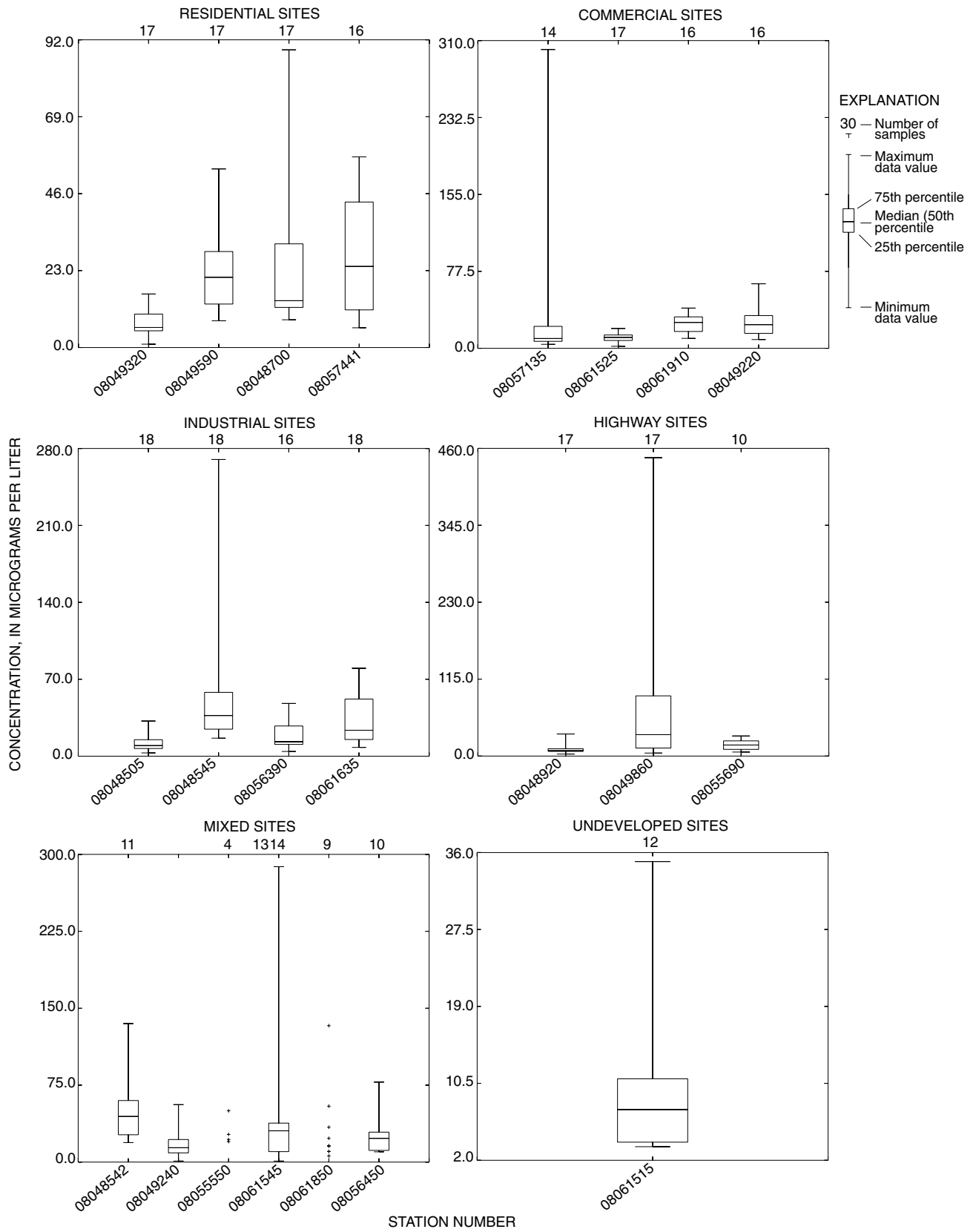
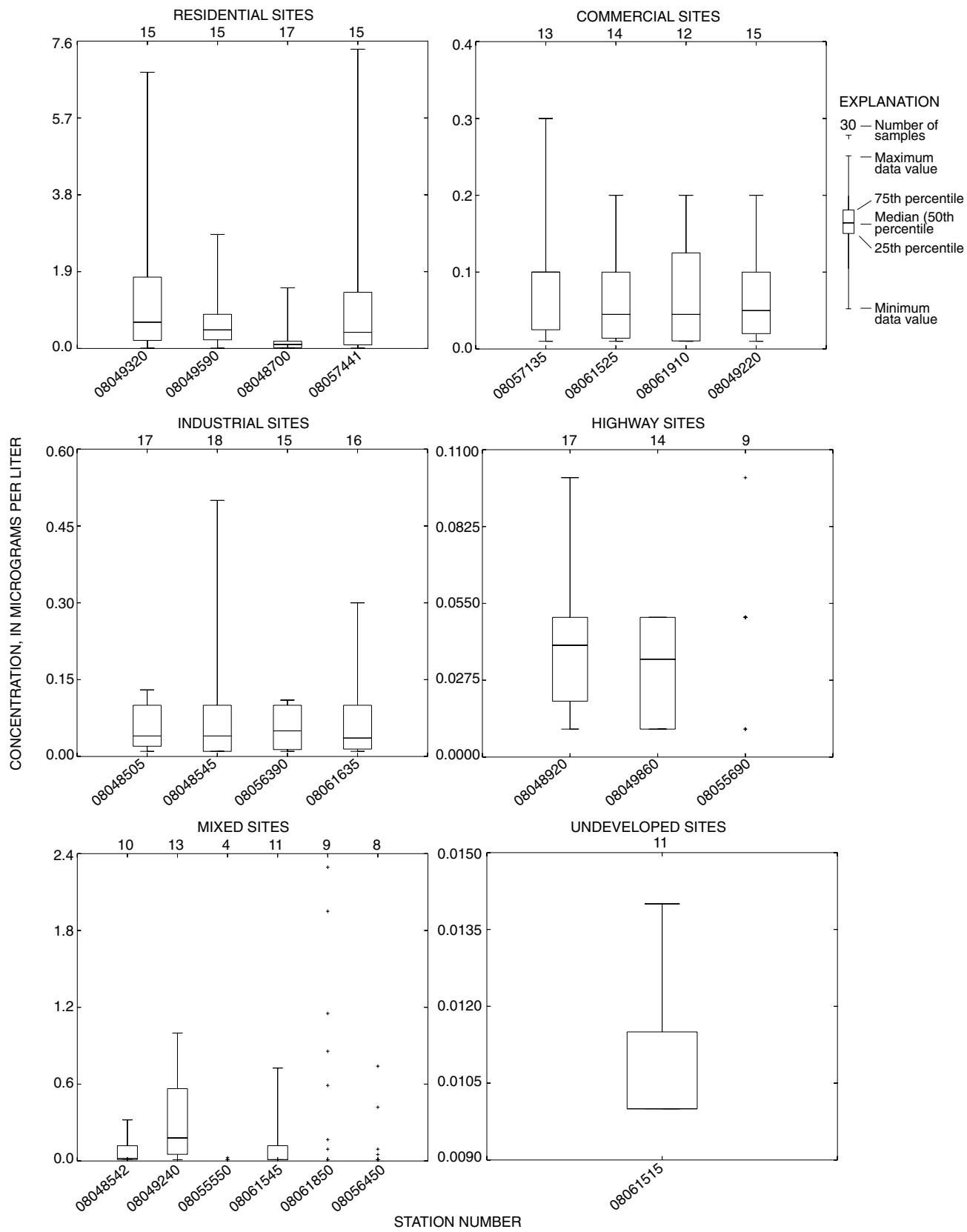


Figure 12. Boxplots of lead concentrations by land-use category.



**Figure 13.** Boxplots of diazinon concentrations by land-use category.

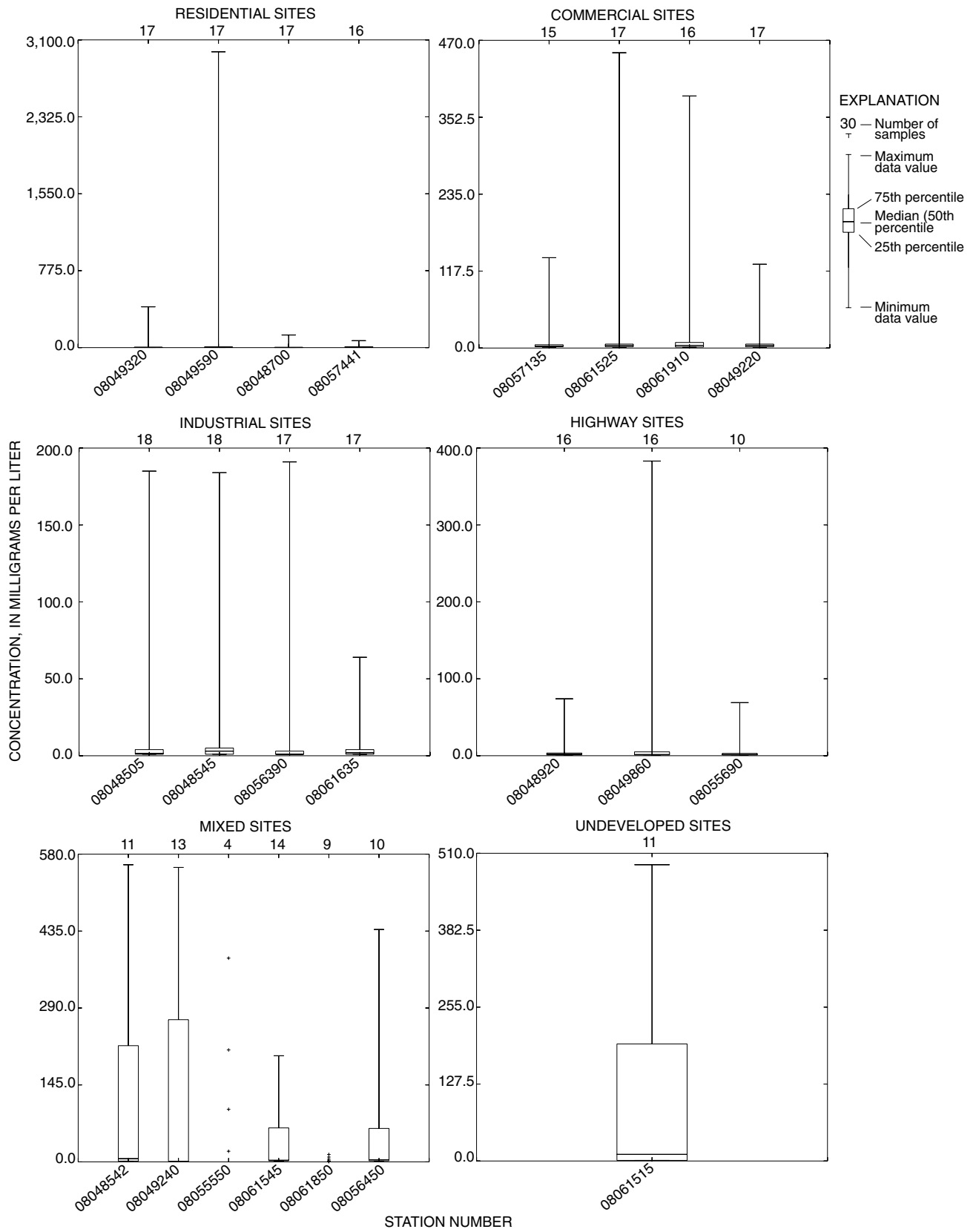


Figure 14. Boxplots of oil and grease concentrations by land-use category.

**Table 1.** NPDES municipal stormwater sites in the Dallas-Fort Worth area, Texas, and summary of sampling, February 1997–August 2000

[Sites 1–15 established 1992–93; sites 16–30 established 1992–93 and discontinued; sites 31–37 established 1997–98. USGS, U.S. Geological Survey; TxDOT, Texas Department of Transportation]

Site no. (fig. 1)	USGS station no.	Station name	City or TxDOT district	Predominant land use	Drainage area (acres)	No. of samples		
						Collected 1992–94	Scheduled 1997–2001	Collected Feb. 1997–Aug. 2000
<b>Reactivated sites</b>								
1	08048505	Pylon Street Outfall at Meacham Rd.	Fort Worth	Industrial	151	7	13	11
2	08048545	Dry Branch Outfall at 33d St.	Fort Worth	Industrial	73.7	7	13	11
3	08048700	Eastern Hills High School Outfall at Weiler Dr.	Fort Worth	Residential	151	7	13	10
4	08048920	Deer Creek Outfall at I–35W	TxDOT Fort Worth	Highway	63.1	7	13	12
5	08049220	The Parks Mall Outfall at I–20W	Arlington	Commercial	38.8	7	13	11
6	08049320	River Legacy Park Outfall at Green Oaks Blvd.	Arlington	Residential	160	7	13	10
7	08049590	Bear Creek Outfall at Shady Grove Rd.	Irving	Residential	65.3	7	13	11
8	08049860	Mountain Creek Outfall at I–20	TxDOT Dallas	Highway	115	7	13	11
9	08055690	Bachman Branch Outfall at I–635	TxDOT Dallas	Highway	12	7	13	3
10	08056390	Bastille Street Outfall at La Reunion Pkwy.	Dallas	Industrial	49.5	7	13	10
11	08057135	White Rock Creek Outfall at Preston Rd.	Dallas	Commercial	59.1	7	13	10
12	08057441	Newton Creek Outfall at Tioga St.	Dallas	Residential	38.9	7	13	10
13	08061525	Spring Creek Outfall at Park Blvd.	Plano	Commercial	22.7	7	13	13
14	08061635	Tributary to Duck Creek Outfall at Hightower Rd.	Garland	Industrial	33.9	7	13	12
15	08061910	South Mesquite Creek Outfall at I–635	Mesquite	Commercial	45.9	7	13	10
<b>Discontinued sites</b>								
16	08047100	Clear Fork Trinity River Outfall at Oak Hill Cr.	Fort Worth	Residential	61.7	7	--	--
17	08048510	West Fork Trinity River Outfall at Highway 121	Fort Worth	Commercial	136	7	--	--
18	08049360	Tributary to West Fork Trinity River Outfall at Baird's Farm Rd.	Arlington	Residential	77.0	7	--	--
19	08049470	Tributary to Johnson Creek Outfall at I–30 East	Arlington	Industrial	85.5	7	--	--
20	08049950	Fish Creek Outfall at I–20	TxDOT Fort Worth	Highway	40.9	7	--	--
21	08055570	Hereford Rd. Outfall at Walnut Hill Ln.	Irving	Industrial	43.4	7	--	--
22	08055590	Joe's Creek Outfall at Denton Dr.	Dallas	Industrial	9.0	7	--	--
23	08056100	Tributary to Elm Fork Trinity River Outfall at Cascade St.	Irving	Industrial	43.9	7	--	--
24	08057310	Ash Creek Outfall at Whittier St.	Dallas	Residential	71.3	7	--	--
25	08061510	Rowlett Creek Outfall at Willow Creek Park	Plano	Residential	51.4	7	--	--
26	08061530	Spring Creek Outfall at Avenue F	Plano	Industrial	49.0	7	--	--
27	08061660	Sleepy Hollow St. Outfall at Northwest Highway	Garland	Residential	67.3	7	--	--
28	08061690	I–635 Outfall at Centerville Rd.	Garland	Commercial	36.2	7	--	--
29	08061915	South Mesquite Creek Outfall at South Parkway	Mesquite	Residential	45.4	7	--	--
30	08061940	South Mesquite Creek Outfall at Bruton Rd.	Mesquite	Residential	46.2	7	--	--
<b>New sites</b>								
31	08048542	Sycamore Creek at Scott Ave.	Fort Worth	Mixed	21,760	--	24	15
32	08049240	Rush Creek at Woodland Park Blvd.	Arlington	Mixed	17,024	--	24	13
33	08055550	Cottonwood Branch Tributary Outfall at Sky Cir.	Irving	Mixed	127.7	--	24	10
34	08056450	Knights Branch Tributary at Cedar Springs Rd.	Dallas	Mixed	486.4	--	24	13
35	08061515	Beck Branch Outfall at Wyngate Blvd.	Plano	Undeveloped	70.4	--	24	12
36	08061545	Mills Branch Tributary at N. Fifth St.	Garland	Mixed	268.8	--	24	17
37	08061850	North Mesquite Creek at Beltline Rd.	Mesquite	Mixed	2,500	--	24	10

**Table 2.** Land-use characteristics of stormwater monitoring sites and seven cities, Dallas-Fort Worth area, Texas

[All GIS coverages provided by NTCOG; N/A-GIS coverage not available; --, not applicable]

Site no. (fig. 1)	Site ID	Station name or city	Site land-use character- ization <sup>1</sup>	Drainage area (total area in acres)	Percent residential		Percent commercial		Percent industrial		Percent undeveloped		Percent highway		Percent other		Percent water		
					1990	1995	1990	1995	1990	1995	1990	1995	1990	1995	1990	1995	1990	1995	1990
<b>Fort Worth</b>																			
1	08048505	Pylon Street Outfall at Mechem Rd., Fort Worth	Industrial	151	--	--	--	--	22.4	22.0	74.7	75.0	1.1	1.1	1.8	1.9	--	--	
31	08048542	Sycamore Creek at Scott Ave., Fort Worth	Mixed	21,760	48.6	49.2	10.9	11.5	5.4	5.4	24.7	25.2	3.3	3.3	7.1	.6	--	--	
2	08048545	Dry Branch Outfall at 33rd St., Fort Worth	Industrial	73.7	--	--	--	--	98.9	98.9	1.1	1.1	--	--	--	--	--	--	
3	08048700	Eastern Hills High School Outfall at Weiler Dr., Fort Worth	Residential	151	65.9	57.2	27.9	27.9	--	--	5.1	13.9	--	--	1.1	1.0	--	--	
--	--	City of Fort Worth		184,819	25.3	25.6	6.8	6.9	5.5	5.6	44.7	45.3	5.04	5.4	10.42	8.7	2.3	2.5	
<b>Dallas</b>																			
10	08056390	Bastille Street Outfall at La Reunion Pkwy., Dallas	Industrial	49.5	--	--	--	--	99.7	98.6	--	1.1	.3	.3	--	--	--	--	
34	08056450	Knights Branch Tributary at Cedar Springs Rd., Dallas	Mixed	486.4	52.3	51.9	20.8	21.8	26.7	24.1	.1	2.1	.1	.1	--	--	--	--	
11	08057135	White Rock Creek Outfall at Preston Rd., Dallas	Commercial	59.1	1.6	1.6	98.4	98.4	--	--	--	--	--	--	--	--	--	--	
12	08057441	Newton Creek Outfall at Toga St., Dallas	Residential	38.9	87.6	81.8	--	--	--	--	12.4	18.2	--	--	.2	--	--	--	
--	--	City of Dallas		250,340	36.8	36.7	8.5	9.0	7.4	6.4	23.5	23.9	4.0	4.0	8.5	8.7	10.9	11.0	
<b>Arlington</b>																			
5	08049220	The Parks Mall Outfall at I-20W, Arlington	Commercial	38.8	--	--	98.3	100	--	--	1.7	--	--	--	--	--	--	--	
32	08049240	Rush Creek at Woodland Park Blvd., Arlington	Mixed	17,024	46.3	46.3	8.5	9.5	2.5	2.3	35.0	33.9	2.2	3.1	5.3	4.9	--	--	
6	08049320	River Legacy Park Outfall at Green Oaks Blvd., Arlington	Residential	160	86.5	87.9	2.5	4.6	--	--	10.0	6.8	--	--	1.0	.7	--	--	
--	--	City of Arlington		63,304	38.3	39.7	10.1	10.8	4.4	4.2	32.8	31.4	3.5	3.7	7.2	6.3	3.1	3.1	
<b>Irving</b>																			
7	08049590	Bear Creek Outfall at Shady Grove Rd., Irving	Residential	65.3	87.9	88	5.7	5.7	--	--	3.7	3.5	--	--	2.6	2.9	--	--	
33	08055550	Cottonwood Branch Tributary Outfall at Sky Cr., Irving	Mixed	127.7	16.2	16	11.8	8.3	57.6	60.9	14.4	14.5	--	--	--	.3	--	--	
--	--	City of Irving		43,614	26.5	27.4	10.3	10.5	5.4	5.7	33.5	31.1	16.6	16.4	6.4	7.2	1.0	1.4	
<b>Garland</b>																			
36	08061545	Mills Branch Tributary at N. Fifth St., Garland	Mixed	268.8	48.1	48.1	25.2	25.3	14.5	14.5	10.1	10.1	.3	.2	1.8	1.8	--	--	
14	08061635	Tributary to Duck Creek Outfall at Hightower Rd., Garland	Industrial	33.9	--	--	--	--	81.7	81.8	18.3	18.2	--	--	--	--	--	--	
--	--	City of Garland		36,674	43.1	45.3	7.7	8.0	7.0	7.2	31.6	30.5	1.5	2.2	8.3	6.2	.2	.2	
<b>Mesquite</b>																			
37	08061850	North Mesquite Creek at Beltline Rd., Mesquite	Mixed	2,500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
15	08061910	South Mesquite Creek Outfall at I-635, Mesquite	Commercial	45.9	--	--	61.6	61.6	--	--	.8	.8	37.6	37.6	--	--	--	--	
--	--	City of Mesquite		27,996	30.4	32.9	8.5	8.9	2.9	3.0	44.7	43.8	4.2	4.3	9.2	7.0	.1	.1	
<b>Plano</b>																			
35	08061515	Beck Branch Outfall at Wyngate Blvd., Plano	Undeveloped	70.4	--	--	--	--	89.5	75.7	10.5	4.2	--	20.1	--	--	--	--	
13	08061525	Spring Creek Outfall at Park Blvd., Plano	Commercial	22.7	--	--	72.7	72.5	--	--	19	19.2	8.3	8.3	--	--	--	--	
--	--	City of Plano		45,090	27.6	36.0	7.4	8.7	2.4	2.1	50.8	43.2	1.7	1.8	10.0	8.1	--	--	
<b>TxDOT</b>																			
4	08048920	Deer Creek Outfall at I-35W, Fort Worth	Highway	63.1	0	0	0	0	0	0	100	100	0	0	--	--	--	--	
8	08049860	Mountain Creek Outfall at I-20, Dallas	Highway	115.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9	08055690	Bachman Branch Outfall at I-635, Dallas	Highway	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

<sup>1</sup> Site land use characterized at time site was established and is not necessarily based on predominant land use in basin.

**Table 3.** Summary statistics by site and constituent, municipal stormwater-monitoring network, Dallas-Fort Worth area, Texas, 1992–94 and 1997–2000

Station number: 08048505  
 Station name: Pylon St Off at Meacham Rd, Fort Worth, Texas  
 Drainage area: -999,999 mi<sup>2</sup>  
 State:  
 County: Tarrant  
 Latitude/longitude: 324950 0972036

Statistical summary of selected water-quality data collected from Feb. 1992 to Sept. 1992  
 Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	7	8.600	7.600	<sup>(1)</sup>	8.600	8.200	8.000	7.700	7.600
00095	Specific conductance (µS/cm at 25 °C)	7	637.000	85.000	245.429	637.000	319.000	195.000	110.000	85.000
00010	Water temperature (degrees)	7	24.000	10.500	18.143	24.000	21.500	18.000	16.000	10.500
90410	Anc, tit, 4.5, L (mg/L as CaCO <sub>3</sub> )	7	139.000	51.000	76.143	139.000	80.000	69.000	57.000	51.000
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	7	136.000	18.000	52.857	136.000	52.000	41.000	36.000	18.000
00625	Nitrogen ammonia plus organic (mg/L as N)	7	1.200	.500	.800	1.200	1.100	.800	.500	.500
00666	Phosphorus dissolved (mg/L as P)	7	.420	.060	.183	.420	.320	.140	.060	.060
00665	Phosphorus total (mg/L as P)	7	.660	.100	.320	.660	.440	.320	.110	.100
00310	BOD 5-day at 20 (mg/L)	7	10.000	7.000	8.743	10.000	10.000	8.800	7.600	7.000
00340	COD high level M (mg/L)	7	97.000	34.000	60.571	97.000	86.000	55.000	36.000	34.000
00530	Residue total (mg/L)	7	171.000	23.000	63.857	171.000	98.000	29.000	25.000	23.000
70300	Residue dissolved 180 °C (mg/L)	7	318.000	48.000	133.571	318.000	137.000	116.000	89.000	48.000
31625	Coliform fecal 0 (cols./100 ml)	7	290,000.000	315.000	48,059.285	290,000.000	18,000.000	5,400.000	1,600.000	315.000
31673	Fecal strpt KF A (cols./100 ml)	7	150,000.000	2,600.000	40,857.145	150,000.000	65,000.000	17,000.000	8,400.000	2,600.000
01002	Arsenic total (µg/L as AS)	7	3.000	--	<sup>2</sup> 1.497	<sup>2</sup> 3.000	<sup>2</sup> 2.000	<sup>2</sup> 1.000	<sup>2</sup> 1.000	<sup>2</sup> .482
01027	Cadmium total (µg/L as CD)	7	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	7	7.000	1.000	3.714	7.000	7.000	3.000	2.000	1.000
01042	Copper total (µg/L as CU)	7	18.000	4.000	8.429	18.000	9.000	8.000	5.000	4.000
01051	Lead total (µg/L as PB)	7	32.000	3.000	14.714	32.000	26.000	12.000	6.000	3.000
01067	Nickel total (µg/L as NI)	7	18.000	2.000	5.429	18.000	7.000	3.000	2.000	2.000
01092	Zinc total (µg/L as ZN)	7	120.000	20.000	78.571	120.000	110.000	80.000	40.000	20.000
39570	Diazinon total (water µg/L)	7	--	--	--	--	--	--	--	--
00556	Oil and grease recoverable (mg/L)	7	--	--	--	--	--	--	--	--
32730	Phenols, total (µg/L)	7	11.000	2.000	4.143	11.000	5.000	3.000	2.000	2.000

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.



Station number: 08048505  
 Station name: Pylon St Off at Meacham Rd., Fort Worth, Texas  
 Drainage area: -999,999 mi<sup>2</sup>  
 State:  
 County: Tarrant  
 Latitude/longitude: 324950 0972036

Statistical summary of selected water-quality data collected from Feb. 1997 to Mar. 2000  
 Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	11	8.800	7.400	<sup>(1)</sup> 195.455	8.800	8.200	7.800	7.600	7.400
00095	Specific conductance (µS/cm at 25 °C)	11	498.000	106.000	195.455	498.000	203.000	176.000	140.000	106.000
00010	Water temperature (degrees)	11	23.000	7.000	15.755	23.000	19.500	16.800	12.000	7.000
90410	Anc. tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	11	105.680	40.000	75.243	105.680	82.312	76.000	62.964	40.000
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	11	62.000	35.000	45.909	62.000	57.000	41.000	38.000	35.000
00625	Nitrogen ammonia plus organic (mg/L as N)	11	2.114	.629	1.177	2.114	1.731	1.150	.700	.629
00631	NO <sub>2</sub> + NO <sub>3</sub> dissolved (mg/L as N)	11	1.900	.100	.894	1.900	1.165	.830	.634	.100
00666	Phosphorus dissolved. (mg/L as P)	11	.387	--	<sup>2</sup> .118	<sup>2</sup> .387	<sup>2</sup> .181	<sup>2</sup> .080	<sup>2</sup> .043	<sup>2</sup> .034
00665	Phosphorus total (mg/L as P)	11	.546	.160	.333	.546	.462	.331	.190	.160
00310	BOD 5-day at 20 (mg/L)	11	13.600	3.400	7.091	13.600	8.100	7.800	4.900	3.400
00340	COD high level M (mg/L)	11	110.000	--	<sup>2</sup> 52.160	<sup>2</sup> 110.000	<sup>2</sup> 60.000	<sup>2</sup> 54.100	<sup>2</sup> 31.000	<sup>2</sup> 17.455
00530	Residue total (mg/L)	11	916.000	37.000	247.818	916.000	442.000	111.000	60.000	37.000
70300	Residue dissolved 180 °C (mg/L)	11	173.000	73.000	106.727	173.000	120.000	109.000	82.000	73.000
31625	Coliform fecal 0 (cols./100 ml)	10	250,000,000	1,400,000	44,730,000	250,000,000	50,750,000	6,150,000	2,350,000	1,400,000
31673	Fecal strpt KF A (cols./100 ml)	10	1,300,000,000	8,200,000	265,730,000	1,300,000,000	352,500,000	46,500,000	11,275,000	8,200,000
01002	Arsenic total (µg/L as AS)	11	10.000	--	<sup>3</sup> 3.062	<sup>3</sup> 10.000	<sup>3</sup> 3.500	<sup>2</sup> 3.341	<sup>2</sup> 2.000	<sup>2</sup> 1.300
01027	Cadmium total (µg/L as CD)	11	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	11	14.000	2.900	6.609	14.000	11.900	4.300	3.600	2.900
01042	Copper total (µg/L as CU)	11	11.800	5.100	8.745	11.800	11.000	9.000	7.400	5.100
01051	Lead total (µg/L as PB)	11	20.700	--	<sup>2</sup> 10.061	<sup>2</sup> 20.700	<sup>2</sup> 15.000	<sup>2</sup> 8.500	<sup>2</sup> 6.868	<sup>2</sup> 3.300
01092	Zinc total (µg/L As ZN)	11	110.000	37.000	78.727	110.000	103.000	87.000	58.000	37.000
39572	Diazinon dissolved (µg/L)	2	.041	.015	--	--	--	--	--	--
39570	Diazinon total (water µg/L)	10	.130	--	<sup>2</sup> .038	<sup>2</sup> .130	<sup>2</sup> .050	<sup>2</sup> .035	<sup>2</sup> .010	<sup>2</sup> .005
00556	Oil and grease recoverable (mg/L)	11	185.000	--	<sup>2</sup> 21.831	<sup>2</sup> 185.000	<sup>2</sup> 14.000	<sup>2</sup> 2.000	<sup>2</sup> 2.000	<sup>2</sup> .138

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

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Station number: 08048542  
Station name: Sycamore Ck at Sycamore Pk, Fort Worth, Texas

Drainage area: -999,999 mi<sup>2</sup>

State:

County: Tarrant

Latitude/longitude: 324355 0971748

Statistical summary of selected water-quality data collected from Dec. 1997 to Apr. 2000

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	11	8.500	7.500	(1)	8.500	8.300	7.900	7.700	7.500
00095	Specific conductance (µS/cm at 25 °C)	11	480.000	119.000	276.727	480.000	402.000	280.000	164.000	119.000
00010	Water temperature (degrees)	11	20.500	12.000	17.082	20.500	18.500	18.500	15.000	12.000
90410	Anc. tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	11	312.000	71.000	165.973	312.000	186.000	155.490	126.000	71.000
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	11	143.000	46.000	89.909	143.000	126.000	80.000	67.000	46.000
00625	Nitrogen ammonia plus organic (mg/L as N)	11	5.354	1.200	3.152	5.354	4.300	3.082	1.792	1.200
00631	NO <sub>2</sub> plus NO <sub>3</sub> dissolved (mg/L as N)	11	.970	.378	.600	.970	.750	.600	.440	.378
00666	Phosphorus dissolved (mg/L as P)	11	.150	.012	.062	.150	.077	.060	.032	.012
00665	Phosphorus total (mg/L as P)	11	1.380	--	<sup>2</sup> .639	<sup>2</sup> 1.380	<sup>2</sup> .970	<sup>2</sup> .500	<sup>2</sup> .349	<sup>2</sup> .172
00310	BOD 5-day at 20 (mg/L)	11	18.000	.800	8.573	18.000	8.900	8.500	7.700	.800
00340	COD high level M (mg/L)	10	97.900	--	<sup>2</sup> 56.250	<sup>2</sup> 97.900	<sup>2</sup> 87.900	<sup>2</sup> 59.600	<sup>2</sup> 24.575	<sup>2</sup> 13.098
00530	Residue total (mg/L)	11	2,570.000	156.000	723.182	2,570.000	832.000	356.000	278.000	156.000
70300	Residue dissolved 180 °C (mg/L)	11	267.000	96.000	169.455	267.000	214.000	149.000	136.000	96.000
31625	Coliform fecal 0 (cols./100 ml)	11	150,000,000	1,300.000	50,727.273	150,000,000	100,000,000	30,000,000	10,000,000	1,300.000
31673	Fecal strpt KF A (cols./100 ml)	11	150,000,000	6,000.000	69,136.367	150,000,000	103,000,000	78,000,000	24,500,000	6,000.000
01002	Arsenic total (µg/L as AS)	11	14.900	--	<sup>2</sup> 5.768	<sup>2</sup> 14.900	<sup>2</sup> 6.400	<sup>2</sup> 4.826	<sup>2</sup> 3.300	<sup>2</sup> 2.640
01027	Cadmium total (µg/L as CD)	11	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	11	31.000	6.600	14.473	31.000	23.000	10.400	8.700	6.600
01042	Copper total (µg/L as CU)	11	58.400	--	<sup>2</sup> 24.849	<sup>2</sup> 58.400	<sup>2</sup> 37.000	<sup>2</sup> 17.400	<sup>2</sup> 14.500	<sup>2</sup> 6.940
01051	Lead total (µg/L as PB)	11	135.000	19.000	52.373	135.000	70.000	44.500	24.000	19.000
01092	Zinc total (µg/L as ZN)	11	1,200.000	232.000	550.091	1,200.000	769.000	414.000	319.000	232.000
39572	Diazinon dissolved (µg/L)	3	.101	.030	--	--	--	--	--	--
39570	Diazinon total (water µg/L)	10	.321	--	<sup>2</sup> .075	<sup>2</sup> .321	<sup>2</sup> .121	<sup>2</sup> .024	<sup>2</sup> .009	<sup>2</sup> .004
00556	Oil and grease recoverable (mg/L)	11	560.000	--	<sup>2</sup> 122.320	<sup>2</sup> 560.000	<sup>2</sup> 311.000	<sup>2</sup> 6.000	<sup>2</sup> 3.359	<sup>2</sup> .031

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08048545

Station name: Dry Branch Offl at 33rd Ave, Fort Worth, Texas

Drainage area: -999,999 mi<sup>2</sup>

State:

County: Tarrant

Latitude/longitude: 324812 0971848

Statistical summary of selected water-quality data collected from Mar. 1992 to Dec. 1992

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	7	8.800	6.600	(1)	8.800	8.600	7.900	7.500	6.600
00095	Specific conductance (µS/cm at 25 °C)	7	860.000	94.000	319.286	860.000	410.000	260.000	110.000	94.000
00010	Water temperature (degrees)	7	27.000	9.500	19.286	27.000	25.000	19.000	13.000	9.500
90410	Anc. tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	6	72.000	65.000	68.000	72.000	69.750	68.500	65.000	65.000
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	7	39.000	20.000	27.143	39.000	28.000	26.000	24.000	20.000
00625	Nitrogen ammonia plus organic (mg/L as N)	7	2.000	.600	.929	2.000	.900	.800	.700	.600
00666	Phosphorus dissolved (mg/L as P)	7	.100	.040	.070	.100	.090	.070	.050	.040
00665	Phosphorus total (mg/L as P)	7	.530	.160	.237	.530	.260	.180	.160	.160
00310	BOD 5-day at 20 (mg/L)	7	13.000	5.800	7.957	13.000	8.500	7.200	6.200	5.800
00340	COD high level M (mg/L)	7	250.000	55.000	97.000	250.000	89.000	81.000	59.000	55.000
00530	Residue total (mg/L)	6	2,490.000	207.000	686.500	2,490.000	1,054.500	318.500	208.500	207.000
70300	Residue dissolved 180 °C (mg/L)	6	79.000	45.000	63.333	79.000	75.250	68.000	45.750	45.000
31625	Coliform fecal 0 (cols./100 ml)	7	110,000.000	70.000	29,438.572	110,000.000	50,000.000	8,300.000	1,000.000	70.000
31673	Fecal strpt KF A (cols./100 ml)	7	210,000.000	33.000	46,804.715	210,000.000	50,000.000	17,000.000	6,600.000	33.000
01002	Arsenic total (µg/L as AS)	7	4.000	1.000	2.143	4.000	4.000	2.000	1.000	1.000
01027	Cadmium total (µg/L as CD)	7	4.000	--	<sup>2</sup> 1.380	<sup>2</sup> 4.000	<sup>2</sup> 2.000	<sup>2</sup> 1.000	<sup>2</sup> .402	<sup>2</sup> .258
01034	Chromium total (µg/L as CR)	7	100.000	8.000	31.000	100.000	46.000	18.000	12.000	8.000
01042	Copper total (µg/L as CU)	6	40.000	13.000	26.667	40.000	37.750	25.500	17.500	13.000
01051	Lead total (µg/L as PB)	7	270.000	24.000	102.143	270.000	250.000	45.000	28.000	24.000
01067	Nickel total (µg/L as NI)	7	59.000	5.000	16.143	59.000	14.000	10.000	7.000	5.000
01092	Zinc total (µg/L as ZN)	7	1,400.000	230.000	622.857	1,400.000	730.000	550.000	370.000	230.000
39570	Diazinon total (water µg/L)	7	--	--	--	--	--	--	--	--
00556	Oil and grease recoverable (mg/L)	7	--	--	--	--	--	--	--	--
32730	Phenols, total (µg/L)	7	6.000	1.000	3.571	6.000	6.000	3.000	2.000	1.000

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08048545

Station name: Dry Branch Offl at 33rd Ave, Fort Worth, Texas

Drainage area: -999,999 mi<sup>2</sup>

State:

County: Tarrant  
 Latitude/longitude: 324812 0971848

Statistical summary of selected water-quality data collected from Feb. 1997 to Apr. 2000  
 Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	9	9.200	7.200	( <sup>1</sup> )	9.200	8.500	7.800	7.600	7.200
00095	Specific conductance (µS/cm at 25 °C)	11	491.000	54.000	195.273	491.000	271.000	139.000	86.000	54.000
00010	Water temperature (degrees)	11	27.000	10.500	18.727	27.000	23.000	19.000	14.000	10.500
90410	Anc, tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	11	345.590	18.000	101.439	345.590	114.800	83.094	37.000	18.000
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	11	88.000	18.000	46.727	88.000	62.000	38.000	28.000	18.000
00625	Nitrogen ammonia plus organic (mg/L as N)	11	4.981	.399	1.468	4.981	1.600	1.200	.687	.399
00631	NO <sub>3</sub> plus NO <sub>2</sub> dissolved (mg/L as N)	11	1.690	.069	.777	1.690	.850	.760	.651	.069
00666	Phosphorus dissolved (mg/L as P)	11	.154	.056	.077	.154	.085	.066	.060	.056
00665	Phosphorus total (mg/L as P)	11	1.276	.046	.296	1.276	.332	.190	.105	.046
00310	BOD 5-day at 20 (mg/L)	11	8.200	4.600	6.855	8.200	7.900	7.400	5.600	4.600
00340	COD high level M (mg/L)	11	97.000	20.300	42.927	97.000	56.000	33.000	27.200	20.300
00530	Residue total (mg/L)	11	710.000	140.000	321.000	710.000	492.000	188.000	164.000	140.000
70300	Residue dissolved 180 °C (mg/L)	11	148.000	48.000	93.182	148.000	116.000	82.000	71.000	48.000
31625	Coliform fecal 0 (cols./100 ml)	11	600,000.000	120.000	101,830.906	600,000.000	170,000.000	36,000.000	800.000	120.000
31673	Fecal strpt KF A (cols./100 ml)	11	6,000,000.000	8,200.000	666,290.938	6,000,000.000	235,000.000	73,000.000	36,000.000	8,200.000
01002	Arsenic total (µg/L as AS)	11	4.900	--	<sup>3</sup> 3.482	<sup>4</sup> 4.900	<sup>4</sup> 4.400	<sup>3</sup> 3.352	<sup>2</sup> 2.500	<sup>2</sup> 2.000
01027	Cadmium total (µg/L as CD)	11	5.000	--	<sup>1</sup> 1.335	<sup>5</sup> 5.000	<sup>2</sup> 1.890	<sup>2</sup> 1.080	<sup>2</sup> 0.496	<sup>2</sup> 0.259
01034	Chromium total (µg/L as CR)	11	27.600	5.900	12.200	27.600	13.600	10.200	6.600	5.900
01042	Copper total (µg/L as CU)	11	86.700	14.400	30.818	86.700	34.600	27.000	16.600	14.400
01051	Lead total (µg/L as PB)	11	81.000	16.400	36.064	81.000	46.000	29.200	20.000	16.400
01092	Zinc total (µg/L as ZN)	11	575.000	28.000	293.636	575.000	411.000	260.000	184.000	28.000
39570	Diazinon total (water µg/L)	11	.040	--	<sup>2</sup> 0.017	<sup>2</sup> 0.040	<sup>2</sup> 0.040	<sup>2</sup> 0.010	<sup>2</sup> 0.005	<sup>2</sup> 0.003
00556	Oil and grease recoverable (mg/L)	11	184.000	--	<sup>2</sup> 28.015	<sup>2</sup> 184.000	<sup>2</sup> 6.000	<sup>2</sup> 5.000	<sup>2</sup> 2.000	<sup>2</sup> .162

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08048700  
 Station name: Eastern Hills HS Ofi at Weiler Dr, Fort Worth  
 Drainage area: -999,999 mi<sup>2</sup>  
 State:  
 County: Tarrant

Latitude/longitude: 324459 0971358

Statistical summary of selected water-quality data collected from Apr. 1992 to Jan. 1993

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	7	9.200	7.100	( <sup>b</sup> )	9.200	9.000	8.100	7.600	7.100
00095	Specific conductance (µS/cm at 25 °C)	7	262.000	81.000	169.000	262.000	202.000	158.000	144.000	81.000
00010	Water temperature (degrees)	7	24.500	9.500	17.386	24.500	23.000	17.700	9.500	9.500
90410	Anc. tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	7	87.000	67.000	75.429	87.000	80.000	76.000	70.000	67.000
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	7	64.000	26.000	40.000	64.000	48.000	36.000	28.000	26.000
00625	Nitrogen ammonia plus organic (mg/L as N)	7	1.300	.600	.829	1.300	1.200	.700	.600	.600
00631	NO <sub>2</sub> plus NO <sub>3</sub> dissolved (mg/L as N)	1	.850	--	--	--	--	--	--	--
00666	Phosphorus dissolved (mg/L as P)	7	2.000	.040	.121	.200	.180	.130	.060	.040
00665	Phosphorus total (mg/L as P)	7	2.500	.160	.196	.250	.230	.190	.170	.160
00310	BOD 5-day at 20 (mg/L)	7	9.400	4.800	7.171	9.400	8.100	7.100	6.300	4.800
00340	COD high level M (mg/L)	7	99.000	55.000	78.429	99.000	93.000	72.000	65.000	55.000
00530	Residue total (mg/L)	7	686.000	98.000	356.857	686.000	644.000	203.000	190.000	98.000
70300	Residue dissolved 180 °C (mg/L)	7	163.000	68.000	96.714	163.000	111.000	81.000	72.000	68.000
31625	Coliform fecal 0 (cols./100 ml)	7	500,000.000	2,100.000	100,585.711	500,000.000	100,000.000	20,000.000	15,000.000	2,100.000
31673	Fecal strpt KF A (cols./100 ml)	7	420,000.000	20,000.000	98,571.430	420,000.000	97,000.000	42,000.000	20,000.000	20,000.000
01002	Arsenic total (µg/L as AS)	7	3.000	1.000	2.000	3.000	3.000	2.000	1.000	1.000
01027	Cadmium total (µg/L as CD)	7	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	7	26.000	--	<sup>2</sup> 10.455	<sup>2</sup> 26.000	<sup>2</sup> 15.000	<sup>2</sup> 7.000	<sup>2</sup> 5.000	<sup>2</sup> 2.186
01042	Copper total (µg/L as CU)	7	86.000	5.000	19.429	86.000	13.000	9.000	6.000	5.000
01051	Lead total (µg/L as PB)	7	89.000	9.000	35.857	89.000	51.000	31.000	12.000	9.000
01067	Nickel total (µg/L as NI)	7	10.000	3.000	6.143	10.000	9.000	5.000	5.000	3.000
01092	Zinc total (µg/L as ZN)	7	170.000	30.000	92.857	170.000	100.000	100.000	60.000	30.000
39570	Diazinon total (water µg/L)	7	1.500	--	<sup>2</sup> .345	<sup>2</sup> 1.500	<sup>2</sup> .400	<sup>2</sup> .100	<sup>2</sup> .100	<sup>2</sup> .016
00556	Oil and grease recoverable (mg/L)	7	--	--	--	--	--	--	--	--
32730	Phenols, total (µg/L)	7	6.000	3.000	4.286	6.000	6.000	4.000	3.000	3.000

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08048700

Station name: Eastern Hills HS Off at Weiler Dr, Fort Worth

Drainage area: -999,999 mi<sup>2</sup>

State:

County: Tarrant

Latitude/longitude: 324459 0971358

Statistical summary of selected water-quality data collected from Feb. 1997 to Mar. 2000  
Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	9	8.800	7.500	(1)	8.800	8.350	8.000	7.600	7.500
00095	Specific conductance ( $\mu\text{S}/\text{cm}$ at 25 °C)	9	1,330.000	105.000	387.889	1,330.000	603.000	217.000	112.500	105.000
00010	Water temperature (degrees)	10	24.000	10.000	16.300	24.000	20.250	16.500	12.000	10.000
90410	Anc, tit, 4.5, L (mg/L as $\text{CaCO}_3$ )	10	95.486	.900	60.427	95.486	81.633	59.048	49.475	.900
39036	Alkalinity, D, $\text{Fe}_2$ (mg/L as $\text{CaCO}_3$ )	10	72.000	23.000	45.700	72.000	59.000	43.000	37.500	23.000
00625	Nitrogen ammonia plus organic (mg/L as N)	9	2.800	--	<sup>2</sup> 1.303	<sup>2</sup> 2.800	<sup>2</sup> 2.109	<sup>2</sup> 1.300	<sup>2</sup> .422	<sup>2</sup> .191
00631	$\text{NO}_2$ plus $\text{NO}_3$ dissolved (mg/L as N)	9	1.420	.310	.670	1.420	.747	.610	.473	.310
00666	Phosphorus dissolved (mg/L as P)	9	.208	.050	.119	.208	.141	.120	.085	.050
00665	Phosphorus total (mg/L as P)	9	.667	.110	.342	.667	.447	.370	.185	.110
00310	BOD 5-day at 20 (mg/L)	10	21.000	2.600	8.480	21.000	8.850	8.150	6.000	2.600
00340	COD high level M (mg/L)	10	100.000	15.500	48.150	100.000	69.000	43.400	25.250	15.500
00530	Residue total (mg/L)	10	600.000	43.000	164.300	600.000	191.000	81.500	65.500	43.000
70300	Residue dissolved 180 °C (mg/L)	10	237.000	75.000	126.700	237.000	165.000	113.000	88.500	75.000
31625	Coliform fecal 0 (cols./100 ml)	10	110,000,000	390,000	30,919,000	110,000,000	73,500,000	8,050,000	3,275,000	390,000
31673	Fecal strpt KF-A (cols./100 ml)	10	530,000,000	12,000,000	163,800,000	530,000,000	310,000,000	88,000,000	18,250,000	12,000,000
01002	Arsenic total ( $\mu\text{g}/\text{L}$ as AS)	10	4.800	--	<sup>2</sup> 2.808	<sup>2</sup> 4.800	<sup>2</sup> 4.200	<sup>2</sup> 2.241	<sup>2</sup> 1.650	<sup>2</sup> 1.000
01027	Cadmium total ( $\mu\text{g}/\text{L}$ as CD)	10	--	--	--	--	--	--	--	--
01034	Chromium total ( $\mu\text{g}/\text{L}$ as CR)	10	12.000	1.700	5.360	12.000	9.100	4.750	2.175	1.700
01042	Copper total ( $\mu\text{g}/\text{L}$ as CU)	10	22.000	5.000	12.940	22.000	16.825	13.100	8.075	5.000
01051	Lead total ( $\mu\text{g}/\text{L}$ as PB)	10	40.100	8.300	17.230	40.100	22.950	13.000	11.250	8.300
01092	Zinc total ( $\mu\text{g}/\text{L}$ as ZN)	10	122.000	50.000	81.000	122.000	100.750	81.000	57.500	50.000
39570	Diazinon total (water $\mu\text{g}/\text{L}$ )	10	.181	--	<sup>2</sup> .066	<sup>2</sup> .181	<sup>2</sup> .150	<sup>2</sup> .025	<sup>2</sup> .009	<sup>2</sup> .002
00556	Oil and grease recoverable (mg/L)	10	127.000	--	<sup>2</sup> 17.030	<sup>2</sup> 127.000	<sup>2</sup> 9.750	<sup>2</sup> 3.000	<sup>2</sup> .803	<sup>2</sup> .086

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08056390  
Station name: Bastille St Off at La Reunion Pkwy, Dallas, Texas  
Drainage area: -9999999 mi<sup>2</sup>  
State:  
County: Dallas  
Latitude/longitude: 324612 0965325

Statistical summary of selected water-quality data collected from Mar. 1992 to July 1992  
 Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	7	9.000	8.000	8.300 <sup>(1)</sup>	9.000	8.600	8.300	8.000	8.000
00095	Specific conductance (µS/cm at 25 °C)	7	402.000	91.000	212.000	402.000	270.000	232.000	124.000	91.000
00010	Water temperature (degrees)	7	30.000	15.500	21.714	30.000	25.000	22.500	17.000	15.500
90410	Anc, tit, 4.5, L (mg/L as CaCO <sub>3</sub> )	6	74.000	39.000	51.500	74.000	58.250	50.500	41.250	39.000
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	7	35.000	23.000	29.143	35.000	34.000	29.000	26.000	23.000
00625	Nitrogen ammonia plus organic (mg/L as N)	7	1.100	.400	.614	1.100	.700	.500	.500	.400
00666	Phosphorus dissolved (mg/L as P)	7	.060	.030	.044	.060	.050	.040	.040	.030
00665	Phosphorus total (mg/L as P)	7	.130	.050	.093	.130	.130	.110	.060	.050
00310	BOD 5-day at 20 (mg/L)	7	8.600	3.600	6.057	8.600	8.400	6.300	3.900	3.600
00340	COD high level M (mg/L)	6	65.000	25.000	42.000	65.000	58.250	38.000	28.750	25.000
00530	Residue total (mg/L)	6	191.000	36.000	118.167	191.000	189.500	122.500	45.000	36.000
70300	Residue dissolved 180 °C (mg/L)	6	94.000	58.000	73.333	94.000	86.500	70.500	61.750	58.000
31625	Coliform fecal 0 (cols./100 ml)	7	22,000,000	1,200,000	9,728.571	22,000,000	19,000,000	8,000,000	2,400,000	1,200,000
31673	Fecal strpt KF A (cols./100 ml)	6	32,000,000	1,600,000	14,600,000	32,000,000	23,000,000	13,100,000	6,250,000	1,600,000
01002	Arsenic total (µg/L as AS)	6	2.000	1.000	1.333	2.000	2.000	1.000	1.000	1.000
01027	Cadmium total (µg/L as CD)	7	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	6	20.000	2.000	7.667	20.000	11.750	6.000	2.750	2.000
01042	Copper total (µg/L as CU)	6	30.000	10.000	18.833	30.000	24.750	18.500	12.250	10.000
01051	Lead total (µg/L as PB)	6	47.000	12.000	28.000	47.000	44.750	25.500	13.500	12.000
01067	Nickel total (µg/L as NI)	6	35.000	2.000	9.833	35.000	14.750	5.000	3.500	2.000
01092	Zinc total (µg/L as ZN)	6	130.000	50.000	91.667	130.000	122.500	100.000	50.000	50.000
39570	Diazinon total (water µg/L)	7	--	--	--	--	--	--	--	--
00556	Oil and grease recoverable (mg/L)	7	--	--	--	--	--	--	--	--
32730	Phenols, total (µg/L)	7	7.000	2.000	4.143	7.000	6.000	4.000	3.000	2.000

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08056390  
 Station name: Bastille St Off at La Reunion Pkwy, Dallas, Texas  
 Drainage area: -999,999 mi<sup>2</sup>  
 State:  
 County: Dallas  
 Latitude/longitude: 324612 0965325

Statistical summary of selected water-quality data collected from May 1997 to Jan. 2000



Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	10	8.800	5.400	(1)	8.800	8.625	8.100	7.500	5.400
00095	Specific conductance (µS/cm at 25 °C)	10	429.000	48.000	180.200	429.000	238.750	166.500	91.500	48.000
00010	Water temperature (degrees)	10	27.500	13.200	20.520	27.500	26.375	21.500	14.625	13.200
90410	Anc. tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	10	88.800	29.036	45.053	88.800	47.619	40.274	37.300	29.036
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	10	59.000	16.000	31.700	59.000	40.000	27.500	23.000	16.000
00625	Nitrogen ammonia plus organic (mg/L as N)	10	1.598	--	<sup>2</sup> .997	<sup>2</sup> 1.598	<sup>2</sup> 1.422	<sup>2</sup> .968	<sup>2</sup> .627	<sup>2</sup> .396
00631	NO <sub>3</sub> plus NO <sub>2</sub> dissolved (mg/L as N)	10	1.100	.389	.655	1.100	.849	.650	.397	.389
00666	Phosphorus dissolved (mg/L as P)	10	.121	.018	.065	.121	.091	.062	.041	.018
00665	Phosphorus total (mg/L as P)	10	.900	--	<sup>2</sup> .253	<sup>2</sup> .900	<sup>2</sup> .268	<sup>2</sup> .183	<sup>2</sup> .114	<sup>2</sup> .043
00310	BOD 5-day at 20 (mg/L)	10	9.200	2.000	5.070	9.200	6.150	5.000	3.375	2.000
00340	COD high level M (mg/L)	10	38.000	--	<sup>2</sup> 33.345	<sup>2</sup> 38.000	<sup>2</sup> 33.050	<sup>2</sup> 22.700	<sup>2</sup> 15.450	<sup>2</sup> 8.945
00530	Residue total (mg/L)	10	236.000	24.000	95.700	236.000	163.500	54.500	38.500	24.000
70300	Residue dissolved 180 °C (mg/L)	10	198.000	44.000	78.500	198.000	81.000	66.000	54.000	44.000
31625	Coliform fecal 0 (cols./100 ml)	10	2,500,000.000	4,500.000	303,560.000	2,500,000.000	167,500.000	27,000.000	7,125.000	4,500.000
31673	Fecal strpt KF A (cols./100 ml)	10	52,000.000	1,300.000	17,900.000	52,000.000	21,750.000	13,350.000	11,750.000	1,300.000
01002	Arsenic total (µg/L as AS)	10	4.500	--	<sup>2</sup> 1.940	<sup>2</sup> 4.500	<sup>2</sup> 1.975	<sup>2</sup> 1.700	<sup>2</sup> 1.500	<sup>2</sup> 1.100
01027	Cadmium total (µg/L as CD)	10	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	10	31.000	1.600	6.800	31.000	6.375	3.850	3.350	1.600
01042	Copper total (µg/L as CU)	10	27.200	11.100	19.200	27.200	26.025	17.900	14.325	11.100
01051	Lead total (µg/L as PB)	10	48.000	4.300	15.020	48.000	16.950	11.900	5.775	4.300
01092	Zinc total (µg/L as ZN)	10	149.000	30.000	72.000	149.000	84.500	77.000	45.000	30.000
39572	Diazinon dissolved (µg/L)	3	.015	.009	--	--	--	--	--	--
39570	Diazinon total (water µg/L)	8	.110	--	<sup>2</sup> .028	<sup>2</sup> .110	<sup>2</sup> .035	<sup>2</sup> .012	<sup>2</sup> .010	<sup>2</sup> .010
00556	Oil and grease recoverable (mg/L)	10	191.000	--	<sup>2</sup> 21.745	<sup>2</sup> 191.000	<sup>2</sup> 6.000	<sup>2</sup> 3.000	<sup>2</sup> .237	<sup>2</sup> .045

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

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Station number: 08056450  
Station name: Knights Branch Trib at Cedar Spgs Rd, Dallas  
Drainage area: -999,999 mi<sup>2</sup>  
State:  
County: Dallas  
Latitude/longitude: 324940 0965000

Statistical summary of selected water-quality data collected from Dec. 1997 to Apr. 2000  
Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	10	8.100	6.600	<sup>(1)</sup> 8.100	8.100	8.025	7.800	7.450	6.600
00095	Specific conductance (µS/cm at 25 °C)	11	656.000	51.000	259.182	656.000	517.000	128.000	111.000	51.000
00010	Water temperature (degrees)	11	27.000	5.500	15.727	27.000	19.500	14.500	12.500	5.500
90410	Anc. tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	10	113.590	.660	69.187	113.590	91.408	70.841	52.699	.660
39036	Alkalinity, D, FE <sub>v</sub> (mg/L as CaCO <sub>3</sub> )	10	102.000	23.000	50.800	102.000	61.000	54.500	25.000	23.000
00625	Nitrogen ammonia plus organic (mg/L as N)	10	5.192	.883	2.314	5.192	3.398	1.883	1.016	.883
00631	NO <sub>2</sub> plus NO <sub>3</sub> dissolved (mg/L as N)	10	1.317	.412	.853	1.317	1.108	.885	.556	.412
00666	Phosphorus dissolved (mg/L as P)	10	.297	.032	.150	.297	.176	.154	.111	.032
00665	Phosphorus total (mg/L as P)	10	.916	.110	.437	.916	.753	.312	.230	.110
00310	BOD 5-day at 20 (mg/L)	10	40.000	7.600	14.720	40.000	21.675	9.050	8.200	7.600
00340	COD high level M (mg/L)	10	168.000	20.900	60.850	168.000	80.875	55.950	23.850	20.900
00530	Residue total (mg/L)	10	300.000	26.000	114.500	300.000	148.500	108.500	43.500	26.000
70300	Residue dissolved 180 °C (mg/L)	10	215.000	65.000	118.100	215.000	152.000	115.500	73.000	65.000
31625	Coliform fecal 0 (cols./100 ml)	10	640,000,000	5,900,000	186,390,000	640,000,000	382,500,000	24,500,000	9,150,000	5,900,000
31673	Fecal strpt KF A (cols./100 ml)	10	340,000,000	8,300,000	74,130,000	340,000,000	123,500,000	24,000,000	11,500,000	8,300,000
01002	Arsenic total (µg/L as AS)	10	3.300	--	<sup>2</sup> 1.807	<sup>2</sup> 3.300	<sup>2</sup> 2.507	<sup>2</sup> 1.671	<sup>2</sup> 1.104	<sup>2</sup> 1.000
01027	Cadmium total (µg/L as CD)	10	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	10	10.600	2.700	5.940	10.600	7.625	5.100	4.300	2.700
01042	Copper total (µg/L as CU)	10	41.100	4.000	19.200	41.100	27.450	16.700	10.150	4.000
01051	Lead total (µg/L as PB)	10	78.000	--	<sup>2</sup> 26.884	<sup>2</sup> 78.000	<sup>2</sup> 33.450	<sup>2</sup> 23.150	<sup>2</sup> 11.300	<sup>2</sup> 4.741
01092	Zinc total (µg/L as ZN)	10	230.000	55.000	132.600	230.000	167.750	133.500	79.250	55.000
39572	Diazinon dissolved (µg/L)	4	1.040	.120	--	--	--	--	--	--
39570	Diazinon total (water µg/L)	8	--	--	--	--	--	--	--	--
00556	Oil and grease recoverable (mg/L)	10	438.000	--	<sup>2</sup> 70.907	<sup>2</sup> 438.000	<sup>2</sup> 83.750	<sup>2</sup> 4.000	<sup>2</sup> 1.750	<sup>2</sup> .072

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08057135  
Station name: White Rock Ck Off at Preston Rd, Dallas  
Drainage area: -999,999 mi<sup>2</sup>  
State:  
County: Dallas  
Latitude/longitude: 325559 0964811

Statistical summary of selected water-quality data collected from Feb. 1992 to Feb. 1993  
Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean	95th	75th	50th	25th	5th
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	(median)	percentile	percentile	percentile	percentile	percentile	percentile	percentile	percentile	
	(median)				(median)					
00400	pH, whole, field (standard units)	8	9.100	7.300	<sup>(1)</sup>	9.100	8.700	8.100	7.725	7.300
00095	Specific conductance (µS/cm at 25 °C)	8	173.000	38.000	86.125	173.000	104.000	82.500	50.750	38.000
00010	Water temperature (degrees)	8	23.000	14.000	18.125	23.000	20.875	18.750	14.500	14.000
90410	Anc. tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	8	187.020	31.900	57.746	187.020	49.613	40.421	32.439	31.900
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	8	31.000	18.000	24.750	31.000	27.500	25.000	21.750	18.000
00625	Nitrogen ammonia plus organic (mg/L as N)	8	4.044	--	<sup>(1)</sup> 1.087	<sup>(2)</sup> 4.044	<sup>(2)</sup> 1.115	<sup>(2)</sup> .671	<sup>(2)</sup> .518	<sup>(2)</sup> .177
00631	NO <sub>2</sub> plus NO <sub>3</sub> dissolved (mg/L as N)	8	.824	--	<sup>(2)</sup> .464	<sup>(2)</sup> .824	<sup>(2)</sup> .590	<sup>(2)</sup> .415	<sup>(2)</sup> .366	<sup>(2)</sup> .190
00666	Phosphorus dissolved (mg/L as P)	8	.090	--	<sup>(2)</sup> .041	<sup>(2)</sup> .090	<sup>(2)</sup> .050	<sup>(2)</sup> .035	<sup>(2)</sup> .026	<sup>(2)</sup> .014
00665	Phosphorus total (mg/L as P)	8	4.273	.049	.695	4.273	.452	.127	.067	.049
00310	BOD 5-day at 20 (mg/L)	8	8.900	5.200	7.163	8.900	8.175	7.300	6.125	5.200
00340	COD high level M (mg/L)	8	75.900	30.000	52.712	75.900	62.450	53.750	40.625	30.000
00530	Residue total (mg/L)	8	640.000	5.000	143.750	640.000	205.500	64.000	8.750	5.000
70300	Residue dissolved 180 °C (mg/L)	8	66.000	33.000	46.875	66.000	56.750	46.500	35.000	33.000
31625	Coliform fecal 0 (cols./100 ml)	7	120,000.000	2,100.000	30,171.428	120,000.000	42,000.000	9,700.000	7,000.000	2,100.000
31673	Fecal strpt KF A (cols./100 ml)	7	82,000.000	13,000.000	30,000.000	82,000.000	39,000.000	21,000.000	13,000.000	13,000.000
01002	Arsenic total (µg/L as AS)	8	--	--	--	--	--	--	--	--
01027	Cadmium total (µg/L as CD)	8	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	8	67.000	2.000	11.975	67.000	8.950	3.200	2.300	2.000
01042	Copper total (µg/L as CU)	8	74.200	5.800	19.700	74.200	19.750	11.300	9.000	5.800
01051	Lead total (µg/L as PB)	8	301.000	4.000	49.700	301.000	33.275	9.850	6.250	4.000
01092	Zinc total (µg/L as ZN)	8	560.000	46.000	171.000	560.000	238.500	125.500	47.750	46.000
39572	Diazinon dissolved (µg/L)	2	.020	.016	--	--	--	--	--	--
39570	Diazinon total (water µg/L)	6	--	--	--	--	--	--	--	--
00556	Oil and grease recoverable (mg/L)	8	138.000	3.000	32.500	138.000	73.000	5.000	3.250	3.000

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08057441  
 Station name: Newton Ck Ofi at Tioga St, Dallas, Texas  
 Drainage area: -999,999 mi<sup>2</sup>  
 State:  
 County: Dallas  
 Latitude/longitude: 323957 0964508

Statistical summary of selected water-quality data collected from Feb. 1992 to Sept. 1992  
 Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean	95th	75th	50th	25th	5th
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								(median)	percentile	percentile	percentile	percentile	percentile
								(median)	percentile	percentile	percentile	percentile	percentile
00400	pH, whole, field (standard units)	7	8.500	7.400	( <sup>1</sup> )	8.500	8.300	8.100	7.400	7.400	7.400	7.400	7.400
00095	Specific conductance (µS/cm at 25 °C)	7	480.000	48.000	133.571	480.000	110.000	77.000	70.000	70.000	70.000	70.000	48.000
00010	Water temperature (degrees)	7	27.000	16.000	21.243	27.000	27.000	19.700	16.500	16.500	16.500	16.500	16.000
90410	Anc. tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	7	111.000	22.000	68.571	111.000	90.000	67.000	53.000	53.000	53.000	53.000	22.000
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	7	33.000	16.000	23.286	33.000	27.000	23.000	20.000	20.000	20.000	20.000	16.000
00625	Nitrogen ammonia plus organic (mg/L as N)	7	2.000	1.100	1.571	2.000	1.900	1.700	1.100	1.100	1.100	1.100	1.100
00666	Phosphorus dissolved (mg/L as P)	7	.230	.120	.187	.230	.200	.200	.170	.170	.170	.170	.120
00665	Phosphorus total (mg/L as P)	7	.530	.280	.374	.530	.500	.350	.290	.290	.290	.290	.280
00310	BOD 5-day at 20 (mg/L)	6	12.000	3.900	7.550	12.000	9.075	7.400	5.850	5.850	5.850	5.850	3.900
00340	COD high level M (mg/L)	7	1,300.000	59.000	273.000	1,300.000	140.000	110.000	92.000	92.000	92.000	92.000	59.000
00530	Residue total (mg/L)	7	365.000	5.000	170.857	365.000	230.000	209.000	59.000	59.000	59.000	59.000	5.000
70300	Residue dissolved 180 °C (mg/L)	7	959.000	35.000	182.000	959.000	66.000	60.000	40.000	40.000	40.000	40.000	35.000
31625	Coliform fecal 0 (cols./100 ml)	7	490,000.000	2,200.000	175,028.578	490,000.000	260,000.000	200,000.000	7,000.000	7,000.000	7,000.000	7,000.000	2,200.000
31673	Fecal strpt KF A (cols./100 ml)	7	330,000.000	16,000.000	168,535.719	330,000.000	300,000.000	220,000.000	25,000.000	25,000.000	25,000.000	25,000.000	16,000.000
01002	Arsenic total (µg/L as AS)	7	3.000	--	<sup>2</sup> 1.657	3.000	2.000	2.000	2.000	2.000	2.000	2.000	.601
01027	Cadmium total (µg/L as CD)	7	--	--	--	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	7	10.000	1.000	5.143	10.000	7.000	5.000	3.000	3.000	3.000	3.000	1.000
01042	Copper total (µg/L as CU)	7	14.000	7.000	12.000	14.000	14.000	13.000	11.000	11.000	11.000	11.000	7.000
01051	Lead total (µg/L as PB)	7	57.000	17.000	42.286	57.000	48.000	46.000	39.000	39.000	39.000	39.000	17.000
01067	Nickel total (µg/L as NI)	7	18.000	2.000	9.571	18.000	13.000	9.000	5.000	5.000	5.000	5.000	2.000
01092	Zinc total (µg/L as ZN)	7	180.000	60.000	121.429	180.000	170.000	130.000	70.000	70.000	70.000	70.000	60.000
39570	Diazinon total (water µg/L)	7	7.400	.130	2.133	7.400	3.300	.800	.400	.400	.400	.400	.130
00556	Oil and grease recoverable (mg/L)	7	10.000	--	<sup>2</sup> 4.959	10.000	8.000	5.000	2.000	2.000	2.000	2.000	.711
32730	Phenols, total (µg/L)	7	8.000	1.000	4.143	8.000	6.000	4.000	3.000	3.000	3.000	3.000	1.000

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08057441

Station name: Newton Ck OfI at Tioga St, Dallas, Texas

Drainage area: -999,999 mi<sup>2</sup>

State:

County: Dallas

Latitude/longitude: 323957 0964508

Statistical summary of selected water-quality data collected from Apr. 1997 to Mar. 2000

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean	95th	75th	50th	25th	5th
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								(median)	percentile	percentile	percentile	percentile	percentile	percentile
								(median)	percentile	percentile	percentile	percentile	percentile	percentile
00400	pH, whole, field (standard units)	8	8.500	7.000				<sup>(1)</sup>	8.500	8.100	7.650	7.225	7.000	
00095	Specific conductance (µS/cm at 25 °C)	9	177.000	46.000				77.222	177.000	90.000	67.000	49.500	46.000	
00010	Water temperature (degrees)	9	24.000	11.800				15.922	24.000	18.500	15.000	12.500	11.800	
90410	Anc. tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	9	75.139	.580				50.295	75.139	68.812	51.064	41.837	.580	
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	9	43.000	16.000				31.889	43.000	41.000	38.000	22.000	16.000	
00625	Nitrogen ammonia plus organic (mg/L as N)	9	2.904	.300				1.201	2.904	1.418	1.130	.756	.300	
00631	NO <sub>2</sub> plus NO <sub>3</sub> dissolved (mg/L as N)	9	.721	.298				.534	.721	.651	.568	.423	.298	
00666	Phosphorus dissolved (mg/L as P)	9	.243	.057				.125	.243	.160	.127	.069	.057	
00665	Phosphorus total (mg/L as P)	9	.600	.099				.317	.600	.474	.259	.206	.099	
00310	BOD 5-day at 20 (mg/L)	9	11.200	4.200				8.133	11.200	9.600	8.100	7.200	4.200	
00340	COD high level M (mg/L)	9	78.700	22.000				48.978	78.700	68.100	50.100	29.400	22.000	
00530	Residue total (mg/L)	9	152.000	12.000				70.333	152.000	94.500	64.000	42.500	12.000	
70300	Residue dissolved 180 °C (mg/L)	9	78.000	40.000				59.000	78.000	72.000	60.000	44.500	40.000	
31625	Coliform fecal 0 (cols./100 ml)	9	330,000.000	1,600.000				67,322.219	330,000.000	100,500.000	10,300.000	2,500.000	1,600.000	
31673	Fecal strpt KF A (cols./100 ml)	9	280,000.000	11,000.000				102,333.336	280,000.000	185,000.000	74,000.000	12,500.000	11,000.000	
01002	Arsenic total (µg/L as AS)	9	--	--				--	--	--	--	--	--	
01027	Cadmium total (µg/L as CD)	9	--	--				--	--	--	--	--	--	
01034	Chromium total (µg/L as CR)	9	7.600	1.200				3.467	7.600	5.700	2.500	1.300	1.200	
01042	Copper total (µg/L as CU)	9	17.300	4.700				8.289	17.300	9.500	8.600	5.300	4.700	
01051	Lead total (µg/L as PB)	9	37.300	5.900				16.400	37.300	24.250	11.500	8.300	5.900	
01092	Zinc total (µg/L as ZN)	9	112.000	28.000				60.000	112.000	88.000	55.000	34.000	28.000	
39572	Diazinon dissolved (µg/L)	2	.043	.042				--	--	--	--	--	--	
39570	Diazinon total (water µg/L)	8	1.940	--				<sup>2</sup> .412	<sup>2</sup> 1.940	<sup>2</sup> .685	<sup>2</sup> .134	<sup>2</sup> .009	<sup>2</sup> .001	
00556	Oil and grease recoverable (mg/L)	9	70.000	2.000				19.111	70.000	41.000	4.000	3.000	2.000	

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08049220

Station name: The Parks Mall Off at IH 20W, Arlington, Texas

Drainage area: -999,999 mi<sup>2</sup>

State:

County: Tarrant

Latitude/longitude: 324037 0970756

Statistical summary of selected water-quality data collected from Oct. 1992 to Mar. 1993

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile	25th percentile	5th percentile
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	(median)										
00400	pH, whole, field (standard units)	7	8.000	6.900	( <sup>1</sup> )	8.000	7.900	7.600	7.400	6.900	
00095	Specific conductance (µS/cm at 25 °C)	7	722.000	43.000	255.286	722.000	363.000	218.000	74.000	43.000	
00010	Water temperature (degrees)	7	21.000	8.500	13.214	21.000	17.000	12.000	9.000	8.500	
90410	Anc, tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	7	56.000	32.000	44.000	56.000	55.000	44.000	33.000	32.000	
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	7	44.000	23.000	32.857	44.000	43.000	31.000	25.000	23.000	
00625	Nitrogen ammonia plus organic (mg/L as N)	7	1.800	.400	.786	1.800	.800	.600	.500	.400	
00631	NO <sub>3</sub> plus NO <sub>2</sub> dissolved (mg/L as N)	4	.900	.340							
00666	Phosphorus dissolved (mg/L as P)	7	.080	--	<sup>2</sup> .035	<sup>2</sup> .080	<sup>2</sup> .040	<sup>2</sup> .010	<sup>2</sup> .007		
00665	Phosphorus total (mg/L as P)	7	.200	.050	.083	.200	.090	.060	.050	.050	
00310	BOD 5-day at 20 (mg/L)	6	8.300	3.000	4.900	8.300	6.125	4.450	3.600	3.000	
00340	COD high level M (mg/L)	7	130.000	23.000	50.857	130.000	49.000	41.000	33.000	23.000	
00530	Residue total (mg/L)	7	72.000	3.000	31.143	72.000	62.000	16.000	10.000	3.000	
70300	Residue dissolved 180 °C (mg/L)	6	87.000	37.000	62.333	87.000	77.250	66.000	42.250	37.000	
31625	Coliform fecal 0 (cols./100 ml)	7	36,000,000	280,000	9,305.714	36,000,000	16,000,000	3,300,000	360,000	280,000	
31673	Fecal strpt KF A (cols./100 ml)	7	330,000,000	1,700,000	69,585.711	330,000,000	82,000,000	25,000,000	5,400,000	1,700,000	
01002	Arsenic total (µg/L as AS)	7	--	--	--	--	--	--	--	--	
01027	Cadmium total (µg/L as CD)	6	--	--	--	--	--	--	--	--	
01034	Chromium total (µg/L as CR)	6	--	--	--	--	--	--	--	--	
01042	Copper total (µg/L as CU)	6	9.000	2.000	4.333	9.000	5.250	4.000	2.750	2.000	
01051	Lead total (µg/L as PB)	6	65.000	12.000	29.333	65.000	41.750	24.500	15.000	12.000	
01067	Nickel total (µg/L as NI)	6	4.000	--	<sup>2</sup> 2.207	<sup>2</sup> 4.000	<sup>2</sup> 2.500	<sup>2</sup> 2.000	<sup>2</sup> 1.811	<sup>2</sup> 1.243	
01092	Zinc total (µg/L as ZN)	6	110.000	30.000	53.333	110.000	65.000	45.000	37.500	30.000	
39570	Diazionon total (water µg/L)	7	--	--	--	--	--	--	--	--	
00556	Oil and grease recoverable (mg/L)	7	--	--	--	--	--	--	--	--	
32730	Phenols, total (µg/L)	7	13.000	--	<sup>2</sup> 7.206	<sup>2</sup> 13.000	<sup>2</sup> 12.000	<sup>2</sup> 7.000	<sup>2</sup> 2.000	<sup>2</sup> 1.440	

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08049220

Station name: The Parks Mall Off at IH 20W, Arlington, Texas

Drainage area: -999,999 mi<sup>2</sup>

State:

County: Tarrant

Latitude/longitude: 324037 0970756

Statistical summary of selected water-quality data collected from May 1997 to Apr. 2000

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile	25th percentile	5th percentile
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	(median)										
00400	pH, whole, field (standard units)	9	8.500	7.400	( <sup>1</sup> )	8.500	8.100	7.600	7.450	7.400	
00095	Specific conductance (µS/cm at 25 °C)	9	141.000	45.000	106.000	141.000	132.000	114.000	79.000	45.000	
00010	Water temperature (degrees)	10	24.000	9.000	19.050	24.000	23.500	20.500	15.750	9.000	
90410	Anc, tit, 4.5, L (mg/L as CaCO <sub>3</sub> )	10	38.000	19.438	28.443	38.000	35.197	28.399	20.737	19.438	
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	10	39.000	8.200	21.820	39.000	28.500	19.500	17.250	8.200	
00625	Nitrogen ammonia plus organic (mg/L as N)	9	2.590	.657	1.254	2.590	1.641	1.100	.750	.657	
00631	NO <sub>3</sub> plus NO <sub>2</sub> dissolved (mg/L as N)	9	1.130	.258	.667	1.130	.915	.562	.447	.258	
00666	Phosphorus dissolved (mg/L as P)	9	.170	.023	.068	.170	.090	.060	.032	.023	
00665	Phosphorus total (mg/L as P)	9	.370	.056	.150	.370	.204	.134	.060	.056	
00310	BOD 5-day at 20 (mg/L)	10	11.600	2.500	7.750	11.600	9.500	8.000	6.575	2.500	
00340	COD high level M (mg/L)	10	151.900	--	<sup>2</sup> 57.084	<sup>1</sup> 151.900	<sup>2</sup> 62.550	<sup>2</sup> 48.950	<sup>2</sup> 36.275	<sup>1</sup> 18.742	
00530	Residue total (mg/L)	10	92.000	8.000	38.000	92.000	56.500	34.000	14.000	8.000	
70300	Residue dissolved 180 °C (mg/L)	10	120.000	23.000	56.400	120.000	86.000	46.500	30.750	23.000	
31625	Coliform fecal 0 (cols./100 ml)	10	390,000.000	300.000	63,470.000	390,000.000	54,000.000	25,500.000	1,900.000	300.000	
31673	Fecal strpt KF A (cols./100 ml)	10	1,100,000.000	7,200.000	190,850.000	1,100,000.000	217,500.000	54,150.000	17,000.000	7,200.000	
01002	Arsenic total (µg/L as AS)	10	--	--	--	--	--	--	--	--	
01027	Cadmium total (µg/L as CD)	10	--	--	--	--	--	--	--	--	
01034	Chromium total (µg/L as CR)	10	13.200	2.100	5.770	13.200	6.900	5.950	3.350	2.100	
01042	Copper total (µg/L as CU)	10	24.000	3.800	8.330	24.000	8.775	6.450	5.325	3.800	
01051	Lead total (µg/L as PB)	10	61.100	8.800	25.410	61.100	32.625	23.800	13.550	8.800	
01092	Zinc total (µg/L as ZN)	10	111.000	36.000	67.400	111.000	84.250	63.000	47.250	36.000	
39572	Diazinon dissolved (µg/L)	3	--	--	--	--	--	--	--	--	
39570	Diazinon total (water µg/L)	8	.052	--	<sup>2</sup> .021	<sup>2</sup> .052	<sup>2</sup> .020	<sup>2</sup> .020	<sup>2</sup> .012	<sup>2</sup> .010	
00556	Oil and grease recoverable (mg/L)	10	128.000	2.000	17.500	128.000	9.750	5.000	2.000	2.000	

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

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Station number: 08049240  
Station name: Rush Ck at Woodland Pk Blvd, Arlington, Texas  
Drainage area: 26.6 mi<sup>2</sup>  
State:  
County: Tarrant  
Latitude/longitude: 324250 0971019

Statistical summary of selected water-quality data collected from Feb. 1998 to May 2000  
Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
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00400	pH, whole, field (standard units)	12	9.500	7.700	( <sup>1</sup> )	9.500	8.325	7.900	7.800	7.700
00095	Specific conductance (µS/cm at 25 °C)	13	1,188.000	218.000	530.000	1188.000	683.000	497.000	289.000	218.000
00010	Water temperature (degrees)	13	29.000	10.700	18.077	29.000	20.500	18.300	13.500	10.700
90410	Anc, tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	13	349.000	78.036	143.123	349.000	163.190	125.480	97.800	78.036
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	13	349.000	34.000	137.385	349.000	168.000	130.000	86.500	34.000
00625	Nitrogen ammonia plus organic (mg/L as N)	13	10.800	--	<sup>2</sup> 2.634	<sup>2</sup> 10.800	<sup>2</sup> 3.250	<sup>2</sup> 1.970	<sup>2</sup> .543	<sup>2</sup> .250
00631	NO <sub>3</sub> plus NO <sub>2</sub> dissolved (mg/L as N)	13	.638	.090	.406	.638	.558	.450	.251	.090
00666	Phosphorus dissolved (mg/L as P)	13	1.150	--	<sup>2</sup> .037	<sup>2</sup> 1.150	<sup>2</sup> .057	<sup>2</sup> .021	<sup>2</sup> .012	<sup>2</sup> .007
00665	Phosphorus total (mg/L as P)	13	2.660	.037	.890	2.660	1.340	.769	.250	.037
00310	BOD 5-day at 20 (mg/L)	13	12.200	2.300	7.246	12.200	8.850	7.800	5.350	2.300
00340	COD high level M (mg/L)	13	57.500	--	<sup>2</sup> 29.399	<sup>2</sup> 57.500	<sup>2</sup> 44.450	<sup>2</sup> 21.900	<sup>2</sup> 15.500	<sup>2</sup> 7.486
00530	Residue total (mg/L)	13	1,220.000	21.000	412.385	1,220.000	560.000	408.000	199.000	21.000
70300	Residue dissolved 180 °C (mg/L)	13	800.000	190.000	438.385	800.000	534.000	397.000	321.000	190.000
31625	Coliform fecal 0 (cols./100 ml)	13	370,000.000	75.000	72,805.766	370,000.000	121,500.000	23,000.000	13,350.000	75.000
31673	Fecal strpt KF A (cols./100 ml)	13	350,000.000	230.000	90,202.305	350,000.000	85,200.000	70,000.000	31,000.000	230.000
01002	Arsenic total (µg/L as AS)	13	9.000	--	<sup>2</sup> 4.742	<sup>2</sup> 9.000	<sup>2</sup> 8.200	<sup>2</sup> 4.400	<sup>2</sup> 2.286	<sup>2</sup> 1.000
01027	Cadmium total (µg/L as CD)	13	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	13	29.000	1.800	10.192	29.000	14.250	11.000	3.350	1.800
01042	Copper total (µg/L as CU)	13	83.000	1.800	16.854	83.000	19.500	11.500	5.750	1.800
01051	Lead total (µg/L as PB)	13	56.000	--	<sup>2</sup> 16.617	<sup>2</sup> 56.000	<sup>2</sup> 22.700	<sup>2</sup> 14.000	<sup>2</sup> 4.242	<sup>2</sup> 1.000
01092	Zinc total (µg/L as ZN)	13	179.000	13.000	59.385	179.000	67.500	54.000	27.500	13.000
39570	Diazinon total (water µg/L)	13	.999	--	<sup>2</sup> .332	<sup>2</sup> .999	<sup>2</sup> .671	<sup>2</sup> .180	<sup>2</sup> .044	<sup>2</sup> .013
00556	Oil and grease recoverable (mg/L)	13	555.000	--	<sup>2</sup> 120.853	<sup>2</sup> 555.000	<sup>2</sup> 268.500	<sup>2</sup> 1.000	<sup>2</sup> .530	<sup>2</sup> .004

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08049320

Station name: Rv Legacy Pk Offl at Green Oaks Blvd, Arlington, Texas

Drainage area: -999,999 mi<sup>2</sup>

State:

County: Tarrant

Latitude/longitude: 324657 0970657

Statistical summary of selected water-quality data collected from Oct. 1992 to Mar. 1993

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	7	8.600	6.900	( <sup>1</sup> )	8.600	8.100	7.600	7.000	6.900

00095	Specific conductance (µS/cm at 25 °C)	7	312.000	48.000	108.571	312.000	111.000	81.000	59.000	48.000
00010	Water temperature (degrees)	7	20.000	10.500	13.429	20.000	16.000	12.000	10.500	10.500
90410	Anc. tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	5	43.000	27.000	--	--	--	--	--	--
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	6	36.000	16.000	26.000	36.000	31.500	25.500	21.250	16.000
00625	Nitrogen ammonia plus organic (mg/L as N)	7	1.800	.700	1.186	1.800	1.600	1.000	.900	.700
00631	NO <sub>3</sub> plus NO <sub>2</sub> dissolved (mg/L as N)	5	1.000	.430	--	--	--	--	--	--
00666	Phosphorus dissolved (mg/L as P)	7	.840	.220	.396	.840	.400	.350	.260	.220
00665	Phosphorus total (mg/L as P)	7	1.000	.330	.499	1.000	.490	.480	.350	.330
00310	BOD 5-day at 20 (mg/L)	6	17.000	4.500	7.667	17.000	10.475	5.800	4.575	4.500
00340	COD high level M (mg/L)	7	93.000	29.000	53.000	93.000	67.000	49.000	35.000	29.000
00530	Residue total (mg/L)	5	61.000	23.000	--	--	--	--	--	--
70300	Residue dissolved 180 °C (mg/L)	5	58.000	33.000	--	--	--	--	--	--
31625	Coliform fecal 0 (cols./100 ml)	7	40,000.000	1,500.000	10,128.571	40,000.000	13,000.000	4,200.000	2,000.000	1,500.000
31673	Fecal strpt KF A (cols./100 ml)	7	86,000.000	8,400.000	44,200.000	86,000.000	69,000.000	34,000.000	27,000.000	8,400.000
01002	Arsenic total (µg/L as AS)	7	3.000	--	<sup>1</sup> 1.497	<sup>3</sup> 3.000	<sup>2</sup> 2.000	<sup>1</sup> 1.000	<sup>1</sup> 1.000	<sup>2</sup> .482
01027	Cadmium total (µg/L as CD)	7	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	7	5.000	--	<sup>2</sup> 2.680	<sup>5</sup> 5.000	<sup>3</sup> 3.000	<sup>3</sup> 3.000	<sup>1</sup> 1.540	<sup>1</sup> 1.222
01042	Copper total (µg/L as CU)	7	8.000	--	<sup>2</sup> 5.011	<sup>8</sup> 8.000	<sup>7</sup> 7.000	<sup>5</sup> 5.000	<sup>3</sup> 3.000	<sup>2</sup> 2.076
01051	Lead total (µg/L as PB)	7	13.000	--	<sup>2</sup> 6.412	<sup>13</sup> 13.000	<sup>7</sup> 7.000	<sup>6</sup> 6.000	<sup>5</sup> 5.000	<sup>2</sup> 2.882
01067	Nickel total (µg/L as NI)	7	3.000	--	<sup>2</sup> 2.357	<sup>3</sup> 3.000	<sup>3</sup> 3.000	<sup>2</sup> 2.000	<sup>2</sup> 2.000	<sup>1</sup> 1.498
01092	Zinc total (µg/L as ZN)	7	70.000	30.000	45.714	70.000	50.000	40.000	40.000	30.000
39570	Diazinon total (water µg/L)	7	4.600	--	<sup>1</sup> 1.189	<sup>4</sup> 4.600	<sup>2</sup> 2.100	<sup>2</sup> 300	<sup>2</sup> 200	<sup>2</sup> 0.025
00556	Oil and grease recoverable (mg/L)	7	--	--	--	--	--	--	--	--
32730	Phenols, total (µg/L)	7	6.000	--	<sup>3</sup> 3.540	<sup>6</sup> 6.000	<sup>6</sup> 6.000	<sup>4</sup> 4.000	<sup>1</sup> 1.000	<sup>2</sup> .781

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08049320

Station name: Rv Legacy Pk Off at Green Oaks Blvd, Arlington, Texas

Drainage area: -999,999 mi<sup>2</sup>

State:

County: Tarrant

Latitude/longitude: 324657 0970657

Statistical summary of selected water-quality data collected from May 1997 to Apr. 2000

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	10	8.200	6.900	<sup>(1)</sup>	8.200	8.100	7.700	7.500	6.900

00095	Specific conductance (µS/cm at 25 °C)	10	304.000	29.000	129.700	304.000	174.000	110.000	65.000	29.000
00010	Water temperature (degrees)	10	24.000	9.000	19.500	24.000	24.000	20.500	16.375	9.000
90410	Anc. tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	10	81.000	26.653	41.459	81.000	52.686	35.595	28.360	26.653
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	10	58.000	20.000	29.600	58.000	31.750	26.500	22.500	20.000
00625	Nitrogen ammonia plus organic (mg/L as N)	9	5.400	.786	2.242	5.400	4.086	1.154	.805	.786
00631	NO <sub>3</sub> plus NO <sub>2</sub> dissolved (mg/L as N)	9	1.620	.344	.730	1.620	.821	.703	.438	.344
00666	Phosphorus dissolved (mg/L as P)	9	.256	.050	.190	.256	.241	.218	.138	.050
00665	Phosphorus total (mg/L as P)	9	1.120	.240	.530	1.120	.870	.368	.285	.240
00310	BOD 5-day at 20 (mg/L)	10	47.000	2.400	12.470	47.000	12.525	8.400	7.350	2.400
00340	COD high level M (mg/L)	10	105.300	20.900	57.990	105.300	90.000	51.600	28.850	20.900
00530	Residue total (mg/L)	10	188.000	17.000	79.700	188.000	118.000	64.000	44.750	17.000
70300	Residue dissolved 180 °C (mg/L)	10	118.000	37.000	67.600	118.000	89.250	58.000	50.500	37.000
31625	Coliform fecal 0 (cols./100 ml)	10	920.000.000	1.800.000	243.180.000	920.000.000	472.500.000	56.500.000	17.750.000	1.800.000
31673	Fecal strpt KF A (cols./100 ml)	10	630.000.000	11.000.000	140.500.000	630.000.000	192.500.000	53.000.000	35.750.000	11.000.000
01002	Arsenic total (µg/L as AS)	10	3.800	--	<sup>1</sup> 1.722	<sup>2</sup> 3.800	<sup>2</sup> 2.247	<sup>1</sup> 1.400	<sup>1</sup> 1.096	<sup>2</sup> .577
01027	Cadmium total (µg/L as CD)	10	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	10	12.000	1.500	3.610	12.000	4.050	2.450	2.000	1.500
01042	Copper total (µg/L as CU)	10	63.100	4.400	14.920	63.100	15.125	9.100	5.825	4.400
01051	Lead total (µg/L as PB)	10	16.000	--	<sup>2</sup> 7.726	<sup>1</sup> 16.000	<sup>1</sup> 11.300	<sup>2</sup> 5.850	<sup>2</sup> 4.700	<sup>3</sup> 3.100
01092	Zinc total (µg/L as ZN)	10	130.000	33.000	74.600	130.000	116.250	63.000	36.500	33.000
39572	Diazinon dissolved (µg/L)	2	.543	.024	--	--	--	--	--	--
39570	Diazinon total (water µg/L)	8	6.830	--	<sup>1</sup> 1.558	<sup>2</sup> 6.830	<sup>1</sup> 1.853	<sup>2</sup> 7.75	<sup>1</sup> 1.163	<sup>2</sup> .096
00556	Oil and grease recoverable (mg/L)	10	411.000	--	<sup>2</sup> 65.508	<sup>2</sup> 411.000	<sup>2</sup> 60.500	<sup>2</sup> 4.000	<sup>1</sup> 1.750	<sup>2</sup> .076

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08049590  
 Station name: Bear Ck Offl at Shady Grove Rd, Irving, Texas  
 Drainage area: -999,999 mi<sup>2</sup>  
 State:  
 County: Dallas  
 Latitude/longitude: 324802 0965844

Statistical summary of selected water-quality data collected from Sept. 1992 to Feb. 1993  
 Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	7	8.200	7.200	8.200	8.200	8.100	7.800	7.700	7.200

00095	Specific conductance (µS/cm at 25 °C)	7	502.000	66.000	155.714	502.000	160.000	93.000	78.000	66.000
00010	Water temperature (degrees)	7	25.500	12.000	19.929	25.500	25.000	23.500	12.500	12.000
90410	Anc, tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	6	39.000	29.000	32.500	39.000	37.500	30.500	29.000	29.000
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	7	30.000	11.000	22.857	30.000	29.000	25.000	20.000	11.000
00625	Nitrogen ammonia plus organic (mg/L as N)	7	4.300	.900	1.671	4.300	2.200	1.100	.900	.900
00631	NO <sub>2</sub> plus NO <sub>3</sub> dissolved (mg/L as N)	2	1.200	.450	--	--	--	--	--	--
00666	Phosphorus dissolved (mg/L as P)	7	.390	.150	.306	.390	.380	.330	.240	.150
00665	Phosphorus total (mg/L as P)	7	.850	.210	.481	.850	.620	.430	.370	.210
00310	BOD 5-day at 20 (mg/L)	7	8.700	6.300	7.757	8.700	8.500	7.700	7.400	6.300
00340	COD high level M (mg/L)	7	220.000	43.000	87.143	220.000	140.000	55.000	45.000	43.000
00530	Residue total (mg/L)	6	98.000	4.000	45.333	98.000	76.250	38.500	19.000	4.000
70300	Residue dissolved 180 °C (mg/L)	6	93.000	39.000	56.167	93.000	69.750	50.000	42.000	39.000
31625	Coliform fecal 0 (cols./100 ml)	7	600.000.000	6.000.000	138,285.719	600,000.000	210,000.000	48,000.000	12,000.000	6,000.000
31673	Fecal strpt KF A (cols./100 ml)	7	280.000.000	19.000.000	98,428.570	280,000.000	150,000.000	56,000.000	32,000.000	19,000.000
01002	Arsenic total (µg/L as AS)	7	6.000	1.000	3.143	6.000	4.000	3.000	2.000	1.000
01027	Cadmium total (µg/L as CD)	7	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	7	6.000	1.000	3.286	6.000	4.000	3.000	3.000	1.000
01042	Copper total (µg/L as CU)	7	15.000	5.000	7.000	15.000	7.000	6.000	5.000	5.000
01051	Lead total (µg/L as PB)	7	31.000	8.000	17.000	31.000	21.000	16.000	12.000	8.000
01067	Nickel total (µg/L as NI)	7	6.000	--	<sup>3</sup> 3.062	<sup>3</sup> 6.000	<sup>3</sup> 3.000	<sup>3</sup> 3.000	<sup>2</sup> 2.000	<sup>2</sup> 1.434
01092	Zinc total (µg/L as ZN)	7	150.000	50.000	72.857	150.000	70.000	60.000	60.000	50.000
39570	Diazinon total (water µg/L)	7	1.700	.100	.586	1.700	.800	.400	.200	.100
00556	Oil and grease recoverable (mg/L)	7	7.000	--	<sup>3</sup> 3.074	<sup>7</sup> 7.000	<sup>6</sup> 6.000	<sup>2</sup> 2.000	<sup>2</sup> .923	<sup>2</sup> .592
32730	Phenols, total (µg/L)	7	21.000	2.000	8.857	21.000	11.000	8.000	3.000	2.000

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08049590  
 Station name: Bear Ck Off at Shady Grove Rd, Irving, Texas  
 Drainage area: -999,999 mi<sup>2</sup>  
 State:  
 County: Dallas  
 Latitude/longitude: 324802 0965844

Statistical summary of selected water-quality data collected from July 1997 to Apr. 2000  
 Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	10	8.300	7.100	( <sup>1</sup> ) 8.300	8.300	8.075	7.750	7.300	7.100

00095	Specific conductance (µS/cm at 25 °C)	10	268.000	72.000	145.400	268.000	206.000	130.000	90.000	72.000
00010	Water temperature (degrees)	10	29.000	15.000	20.870	29.000	25.250	19.000	17.250	15.000
90410	Anc. tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	9	71.325	31.986	51.478	71.325	60.076	53.000	39.476	31.986
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	10	49.000	16.000	31.300	49.000	36.500	32.500	22.750	16.000
00625	Nitrogen ammonia plus organic (mg/L as N)	9	5.857	1.254	3.377	5.857	4.922	3.166	1.650	1.254
00631	NO <sub>2</sub> plus NO <sub>3</sub> dissolved (mg/L as N)	9	1.648	--	<sup>2</sup> .824	<sup>2</sup> 1.648	<sup>2</sup> 1.199	<sup>2</sup> .748	<sup>2</sup> .448	<sup>2</sup> .244
00666	Phosphorus dissolved (mg/L as P)	9	.678	.017	.334	.678	.528	.330	.117	.017
00665	Phosphorus total (mg/L as P)	9	.999	.406	.688	.999	.780	.719	.545	.406
00310	BOD 5-day at 20 (mg/L)	10	51.000	5.700	18.030	51.000	24.750	11.250	7.575	5.700
00340	COD high level M (mg/L)	10	185.800	36.700	105.670	185.800	138.500	108.400	67.900	36.700
00530	Residue total (mg/L)	10	438.000	49.000	143.900	438.000	167.500	112.000	75.500	49.000
70300	Residue dissolved 180 °C (mg/L)	10	191.000	46.000	101.700	191.000	130.000	95.000	69.250	46.000
31625	Coliform fecal 0 (cols./100 ml)	9	710,000.000	10,600.000	193,622.219	710,000.000	350,000.000	72,300.000	31,500.000	10,600.000
31673	Fecal strpt KF A (cols./100 ml)	9	240,000.000	14,000.000	60,533.332	240,000.000	61,500.000	36,000.000	26,900.000	14,000.000
01002	Arsenic total (µg/L as AS)	10	4.700	--	<sup>2</sup> 3.126	<sup>2</sup> 4.700	<sup>2</sup> 3.175	<sup>2</sup> 3.041	<sup>2</sup> 2.825	<sup>2</sup> 2.500
01027	Cadmium total (µg/L as CD)	10	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	10	12.400	--	<sup>2</sup> 6.328	<sup>2</sup> 12.400	<sup>2</sup> 7.975	<sup>2</sup> 6.500	<sup>2</sup> 3.500	<sup>2</sup> 1.778
01042	Copper total (µg/L as CU)	10	14.200	4.000	10.900	14.200	13.050	11.550	9.750	4.000
01051	Lead total (µg/L as PB)	10	53.400	--	<sup>2</sup> 25.923	<sup>2</sup> 53.400	<sup>2</sup> 33.625	<sup>2</sup> 24.350	<sup>2</sup> 14.125	<sup>2</sup> 8.426
01092	Zinc total (µg/L as ZN)	10	125.000	30.000	94.700	125.000	111.250	102.500	83.500	30.000
39572	Diazinon dissolved (µg/L)	4	2.570	.339	--	--	--	--	--	--
39570	Diazinon total (water µg/L)	8	2.820	--	<sup>2</sup> .884	<sup>2</sup> 2.820	<sup>2</sup> 1.452	<sup>2</sup> .645	<sup>2</sup> .185	<sup>2</sup> .052
00556	Oil and grease recoverable (mg/L)	10	2,980.000	2.000	316.900	2,980.000	46.500	3.500	2.750	2.000

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

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Station number: 08055550  
 Station name: Cottonwood Branch Trib Off nr Irving, Texas  
 Drainage area: -999,999 mi<sup>2</sup>  
 State:  
 County: Dallas  
 Latitude/longitude: 325208 0965907

Statistical summary of selected water-quality data collected from Sept. 1999 to May 2000  
 Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	3	8.200	7.000	--	--	--	--	--	--
00095	Specific conductance (µS/cm at 25 °C)	4	433.000	93.000	--	--	--	--	--	--
00010	Water temperature (degrees)	4	25.000	18.000	--	--	--	--	--	--



90410	Anc, tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	4	59,000	20,000	--	--	--	--	--
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	4	31,000	16,000	--	--	--	--	--
00625	Nitrogen ammonia plus organic (mg/L as N)	4	6,800	.800	--	--	--	--	--
00631	NO <sub>3</sub> plus NO <sub>2</sub> dissolved (mg/L as N)	4	1,630	.610	--	--	--	--	--
00666	Phosphorus dissolved (mg/L as P)	4	.270	.040	--	--	--	--	--
00665	Phosphorus total (mg/L as P)	4	2,640	.200	--	--	--	--	--
00310	BOD 5-day at 20 (mg/L)	4	8,200	4,500	--	--	--	--	--
00340	COD high level M (mg/L)	4	57,500	19,800	--	--	--	--	--
00530	Residue total (mg/L)	4	304,000	40,000	--	--	--	--	--
70300	Residue dissolved 180 °C (mg/L)	4	--	--	--	--	--	--	--
31625	Coliform fecal 0 (cols./100 ml)	4	67,000,000	4,300,000	--	--	--	--	--
31673	Fecal strpt KF A (cols./100 ml)	4	31,000,000	9,300,000	--	--	--	--	--
01002	Arsenic total (µg/L as AS)	4	--	--	--	--	--	--	--
01027	Cadmium total (µg/L as CD)	4	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	4	25,000	5,000	--	--	--	--	--
01042	Copper total (µg/L as CU)	4	70,000	12,000	--	--	--	--	--
01051	Lead total (µg/L as PB)	4	50,000	20,000	--	--	--	--	--
01092	Zinc total (µg/L as ZN)	4	410,000	98,000	--	--	--	--	--
39570	Diazinon total (water µg/L)	4	--	--	--	--	--	--	--
00556	Oil and grease recoverable (mg/L)	4	384,000	20,000	--	--	--	--	--

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Y value is estimated by using a log-probability regression to predict the values of data below the detection limit.

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Station number: 08061545  
 Station name: Mills Branch Trib at N 5th St, Garland, Texas  
 Drainage area: -999,999 mi<sup>2</sup>  
 State:  
 County: Dallas  
 Latitude/longitude: 32.5456 0963809

Statistical summary of selected water-quality data collected from Dec. 1997 to June 2000  
 Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	14	8.600	7.000	(1) 8.600	8.600	8.125	7.550	7.300	7.000
00095	Specific conductance (µS/cm at 25 °C)	14	247.000	44.000	114.143	247.000	136.250	106.500	72.000	44.000
00010	Water temperature (degrees)	14	24.000	7.000	17.500	24.000	21.500	18.750	12.875	7.000
90410	Anc. tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	14	142.990	2.720	68.945	142.990	81.500	62.509	51.750	2.720

39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	14	57,000	23,000	34,357	57,000	36,500	33,000	30,000	23,000
00625	Nitrogen ammonia plus organic (mg/L as N)	14	66,400	--	<sup>2</sup> 7,313	<sup>2</sup> 66,400	<sup>2</sup> 4,700	<sup>2</sup> 1,900	<sup>2</sup> 960	<sup>2</sup> 142
00631	NO <sub>2</sub> plus NO <sub>3</sub> dissolved (mg/L as N)	14	4,870	.229	1.092	4,870	1,455	.640	.403	.229
00666	Phosphorus dissolved (mg/L as P)	14	.360	.090	.166	.360	.212	.139	.110	.090
00665	Phosphorus total (mg/L as P)	14	4,192	.220	.985	4,192	1,033	.690	.329	.220
00310	BOD 5-day at 20 (mg/L)	14	27,600	1,400	10,190	27,600	13,500	8,500	7,175	1,400
00340	COD high level M (mg/L)	13	153,100	25,200	64,446	153,100	115,500	41,000	32,000	25,200
00530	Residue total (mg/L)	14	337,000	38,000	157,786	337,000	227,000	129,000	90,500	38,000
70300	Residue dissolved 180 °C (mg/L)	14	194,000	34,000	93,571	194,000	124,000	91,000	53,500	34,000
31625	Coliform fecal 0 (cols./100 ml)	14	850,000,000	8,000,000	108,950,000	850,000,000	82,750,000	38,500,000	21,000,000	8,000,000
31673	Fecal strpt KF A (cols./100 ml)	14	1,800,000,000	20,000,000	223,571,422	1,800,000,000	113,250,000	42,000,000	25,500,000	20,000,000
01002	Arsenic total (µg/L as AS)	14	8,000	--	<sup>2</sup> 4,276	8,000	<sup>2</sup> 6,147	<sup>3</sup> 3,902	<sup>2</sup> 2,218	<sup>1</sup> 1,300
01027	Cadmium total (µg/L as CD)	14	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	14	110,000	--	<sup>2</sup> 16,540	<sup>2</sup> 110,000	<sup>2</sup> 13,500	<sup>2</sup> 11,300	<sup>3</sup> 3,100	<sup>2</sup> 964
01042	Copper total (µg/L as CU)	14	190,100	1,600	36,529	190,100	35,800	22,500	11,425	1,600
01051	Lead total (µg/L as PB)	14	288,000	--	<sup>2</sup> 48,928	<sup>2</sup> 288,000	<sup>2</sup> 46,500	<sup>2</sup> 30,500	<sup>2</sup> 10,050	<sup>2</sup> 2,596
01092	Zinc total (µg/L as ZN)	14	640,000	--	<sup>2</sup> 259,508	<sup>2</sup> 640,000	<sup>2</sup> 321,250	<sup>2</sup> 273,500	<sup>2</sup> 148,000	<sup>2</sup> 54,113
39572	Diazinon dissolved (µg/L)	5	.329	.025	--	--	--	--	--	--
39570	Diazinon total (water µg/L)	11	--	--	--	--	--	--	--	--
00556	Oil and grease recoverable (mg/L)	14	200,000	--	<sup>2</sup> 41,165	<sup>2</sup> 200,000	<sup>2</sup> 74,500	<sup>3</sup> 3,000	<sup>2</sup> 1,750	<sup>2</sup> 086

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08061635

Station name: Duck Ck Trib Off at Hightower, Garland, Texas

Drainage area: -999,999 mi<sup>2</sup>

State:

County: Dallas

Latitude/longitude: 325317 0964024

Statistical summary of selected water-quality data collected from June 1992 to Nov. 1992

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	7	9.200	7.000	( <sup>1</sup> )	9.200	8.500	7.200	7.000	7.000
00095	Specific conductance (µS/cm at 25 °C)	7	235,000	50,000	115,286	235,000	195,000	85,000	61,000	50,000
00010	Water temperature (degrees)	7	26,500	17,500	22,429	26,500	25,500	23,500	19,000	17,500
90410	Anc. tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	7	66,000	49,000	56,714	66,000	65,000	53,000	50,000	49,000

39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	7	30.000	11.000	21.000	30.000	28.000	18.000	15.000	11.000
00625	Nitrogen ammonia plus organic (mg/L as N)	7	1.500	.500	.829	1.500	.900	.700	.600	.500
00666	Phosphorus dissolved (mg/L as P)	7	.120	.050	.083	.120	.120	.080	.060	.050
00665	Phosphorus total (mg/L as P)	7	.200	.090	.160	.200	.190	.160	.140	.090
00310	BOD 5-day at 20 (mg/L)	7	8.900	5.000	6.471	8.900	7.500	6.800	5.100	5.000
00340	COD high level M (mg/L)	7	76.000	52.000	62.857	76.000	67.000	63.000	53.000	52.000
00530	Residue total (mg/L)	7	158.000	44.000	106.429	158.000	144.000	99.000	91.000	44.000
70300	Residue dissolved 180 °C (mg/L)	7	64.000	21.000	43.857	64.000	61.000	43.000	30.000	21.000
31625	Coliform fecal 0 (cols./100 ml)	7	73,000,000	1,200,000	20,171,428	73,000,000	15,000,000	14,000,000	11,000,000	1,200,000
31673	Fecal strpt KF A (cols./100 ml)	7	11,000,000	1,800,000	6,314,286	11,000,000	10,000,000	6,200,000	2,500,000	1,800,000
01002	Arsenic total (µg/L as AS)	7	3.000	--	<sup>1</sup> 1.635	<sup>3</sup> 3.000	<sup>3</sup> 3.000	<sup>2</sup> 1.000	<sup>2</sup> 1.000	<sup>2</sup> .444
01027	Cadmium total (µg/L as CD)	7	2.000	--	<sup>1</sup> 1.226	<sup>2</sup> 2.000	<sup>2</sup> 2.000	<sup>2</sup> 1.000	<sup>2</sup> 1.000	<sup>2</sup> .581
01034	Chromium total (µg/L as CR)	7	11.000	3.000	6.357	11.000	9.500	5.000	3.000	3.000
01042	Copper total (µg/L as CU)	7	24.000	7.000	14.000	24.000	17.000	13.000	11.000	7.000
01051	Lead total (µg/L as PB)	7	80.000	17.000	53.857	80.000	71.000	52.000	48.000	17.000
01067	Nickel total (µg/L as NI)	7	11.000	3.000	5.571	11.000	7.000	5.000	3.000	3.000
01092	Zinc total (µg/L as ZN)	7	430.000	90.000	200.000	430.000	200.000	190.000	130.000	90.000
39570	Diazinon total (water µg/L)	7	--	--	--	--	--	--	--	--
00556	Oil and grease recoverable (mg/L)	7	--	--	--	--	--	--	--	--
32730	Phenols, total (µg/L)	7	5.000	3.000	4.000	5.000	5.000	4.000	3.000	3.000

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08061635

Station name: Duck Ck Trib Off at Hightower, Garland, Texas

Drainage area: -999,999 mi<sup>2</sup>

State:

County: Dallas

Latitude/longitude: 325317 0964024

Statistical summary of selected water-quality data collected from May 1997 to Apr. 2000

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	11	9.000	6.600	<sup>(1)</sup> 143.909	9.000	8.100	7.500	7.200	6.600
00095	Specific conductance (µS/cm at 25 °C)	11	722.000	41.000	143.909	722.000	134.000	75.000	55.000	41.000
00010	Water temperature (degrees)	11	27.500	7.500	18.409	27.500	22.500	20.000	13.000	7.500
90410	Anc, tit, 4.5, L (mg/L as CaCO <sub>3</sub> )	11	134.000	.930	51.352	134.000	61.314	47.793	34.000	.930
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	11	64.000	19.000	29.909	64.000	30.000	23.000	20.000	19.000

00625	Nitrogen ammonia plus organic (mg/L as N)	11	3.200	.327	1.158	3.200	1.755	.997	.475	.327
00631	NO <sub>2</sub> plus NO <sub>3</sub> dissolved (mg/L as N)	11	2.550	.187	.675	2.550	.748	.434	.376	.187
00666	Phosphorus dissolved (mg/L as P)	11	.800	.044	.172	.800	.138	.076	.047	.044
00665	Phosphorus total (mg/L as P)	11	.850	.063	.247	.850	.250	.198	.079	.063
00310	BOD 5-day at 20 (mg/L)	11	15.600	4.000	7.088	15.600	8.270	6.300	4.700	4.000
00340	COD high level M (mg/L)	11	97.400	--	<sup>2</sup> 36.231	<sup>2</sup> 97.400	<sup>2</sup> 53.000	<sup>2</sup> 26.600	<sup>2</sup> 14.900	<sup>2</sup> 6.837
00530	Residue total (mg/L)	11	176.000	29.000	75.636	176.000	99.000	72.000	35.000	29.000
70300	Residue dissolved 180 °C (mg/L)	11	154.000	31.000	56.727	154.000	65.000	46.000	33.000	31.000
31625	Coliform fecal 0 (cols./100 ml)	11	80,000,000	66,000	19,672.363	80,000,000	23,000,000	7,200,000	1,800,000	66,000
31673	Fecal strpt KF A (cols./100 ml)	11	100,000,000	2,500,000	21,736.363	100,000,000	24,000,000	11,000,000	8,300,000	2,500,000
01002	Arsenic total (µg/L as AS)	11	15.700	--	<sup>2</sup> 5.345	<sup>2</sup> 15.700	<sup>2</sup> 7.400	<sup>2</sup> 3.100	<sup>2</sup> 2.571	<sup>2</sup> .780
01027	Cadmium total (µg/L as CD)	11	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	11	10.900	1.900	4.791	10.900	5.100	4.000	3.700	1.900
01042	Copper total (µg/L as CU)	11	25.000	5.900	13.273	25.000	20.000	9.500	7.900	5.900
01051	Lead total (µg/L as PB)	11	28.100	8.000	17.636	28.100	24.000	17.100	9.700	8.000
01092	Zinc total (µg/L as ZN)	11	210.000	34.000	103.909	210.000	130.000	83.000	60.000	34.000
39572	Diazinon dissolved (µg/L)	4	--	--	--	--	--	--	--	--
39570	Diazinon total (water µg/L)	9	.050	--	<sup>2</sup> .018	<sup>2</sup> .050	<sup>2</sup> .021	<sup>2</sup> .018	<sup>2</sup> .008	<sup>2</sup> .006
00556	Oil and grease recoverable (mg/L)	10	64.000	--	<sup>2</sup> 14.315	<sup>2</sup> 64.000	<sup>2</sup> 20.250	<sup>2</sup> 2.500	<sup>2</sup> 1.750	<sup>2</sup> .155

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

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Station number: 08061850  
 Station name: N Mesquite Ck at Beltline Rd nr Mesquite, Texas  
 Drainage area: -999,999 mi<sup>2</sup>  
 State:  
 County: Dallas  
 Latitude/longitude: 324750 0963542

Statistical summary of selected water-quality data collected from Nov. 1998 to June 2000  
 Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	9	10.300	7.700	<sup>(1)</sup>	10.300	8.750	8.200	8.100	7.700
00095	Specific conductance (µS/cm at 25 °C)	9	853.000	145.000	328.444	853.000	495.000	168.000	150.500	145.000
00010	Water temperature (degrees)	9	27.500	11.500	16.944	27.500	19.000	16.000	13.750	11.500
90410	Anc, tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	9	137.970	49.000	85.948	137.970	112.000	78.994	57.784	49.000
39036	Alkalinity, D, FE <sub>3</sub> (mg/L as CaCO <sub>3</sub> )	9	133.000	26.000	58.667	133.000	74.500	51.000	37.500	26.000
00625	Nitrogen ammonia plus organic (mg/L as N)	9	4.536	.900	2.378	4.536	3.600	2.275	1.305	.900

00631	NO <sub>2</sub> plus NO <sub>3</sub> dissolved (mg/L as N)	9	1.181	.460	.787	1.181	1.021	.840	.549	.460
00666	Phosphorus dissolved (mg/L as P)	8	.600	.038	.206	.600	.215	.164	.120	.038
00665	Phosphorus total (mg/L as P)	9	2.760	.203	.965	2.760	1.345	.818	.435	.203
00310	BOD 5-day at 20 (mg/L)	9	9.300	3.800	7.444	9.300	8.800	8.200	6.250	3.800
00340	COD high level M (mg/L)	9	51.000	--	<sup>2</sup> 27.263	<sup>2</sup> 51.000	<sup>2</sup> 44.450	<sup>2</sup> 24.100	<sup>2</sup> 12.450	<sup>2</sup> 6.770
00530	Residue total (mg/L)	9	1,170,000	124,000	541,111	1,170,000	870,000	364,000	312,000	124,000
70300	Residue dissolved 180 °C (mg/L)	9	457,000	103,000	193,889	457,000	253,000	151,000	111,000	103,000
31625	Coliform fecal 0 (cols./100 ml)	9	210,000,000	1,700,000	64,222,223	210,000,000	120,000,000	35,000,000	8,650,000	1,700,000
31673	Fecal strpt KF A (cols./100 ml)	9	290,000,000	14,000,000	115,222,219	290,000,000	150,000,000	130,000,000	41,000,000	14,000,000
01002	Arsenic total (µg/L as AS)	9	16.100	--	<sup>2</sup> 7.840	<sup>2</sup> 16.100	<sup>2</sup> 9.750	<sup>2</sup> 6.700	<sup>2</sup> 5.500	<sup>2</sup> 4.100
01027	Cadmium total (µg/L as CD)	9	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	9	38.200	5.700	15.444	38.200	23.100	11.100	6.400	5.700
01042	Copper total (µg/L as CU)	9	53.500	8.500	18.156	53.500	21.800	12.600	9.100	8.500
01051	Lead total (µg/L as PB)	9	133.000	6.000	33.656	133.000	44.250	16.000	10.400	6.000
01092	Zinc total (µg/L as ZN)	9	233.000	45.000	97.667	233.000	148.500	64.000	51.000	45.000
39570	Diazinon total (water µg/L)	9	2.294	--	<sup>2</sup> .797	<sup>2</sup> 2.294	<sup>2</sup> 1.551	<sup>2</sup> .590	<sup>2</sup> .070	<sup>2</sup> .023
00556	Oil and grease recoverable (mg/L)	9	--	--	--	--	--	--	--	--

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08061910

Station name: S Mesquite Ck OfI at IH 635, Mesquite, Texas

Drainage area: -999,999 mi<sup>2</sup>

State:

County: Dallas

Latitude/longitude: 324817 0963740

Statistical summary of selected water-quality data collected from Feb. 1993 to June 1993

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	7	8.300	6.800	( <sup>1</sup> )	8.300	8.000	8.000	7.600	6.800
00095	Specific conductance (µS/cm at 25 °C)	7	384.000	58.000	160.429	384.000	202.000	140.000	66.000	58.000
00010	Water temperature (degrees)	7	24.500	13.000	18.429	24.500	21.500	20.000	14.500	13.000
90410	Anc, tit, 4.5, L (mg/L as CaCO <sub>3</sub> )	6	47.000	29.000	36.167	47.000	39.500	37.000	29.750	29.000
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	7	35.000	12.000	23.571	35.000	33.000	21.000	16.000	12.000
00625	Nitrogen ammonia plus organic (mg/L as N)	7	1.500	.600	.929	1.500	1.000	.900	.700	.600
00631	NO <sub>2</sub> plus NO <sub>3</sub> dissolved (mg/L as N)	7	1.500	.280	.521	1.500	.420	.390	.300	.280
00666	Phosphorus dissolved (mg/L as P)	7	.120	.020	.080	.120	.110	.090	.050	.020

00665	Phosphorus total (mg/L as P)	7	.240	.090	.143	.240	.170	.150	.090	.090	.090
00310	BOD 5-day at 20 (mg/L)	7	7.800	5.000	6.714	7.800	7.800	7.000	5.200	5.000	5.000
00340	COD high level M (mg/L)	7	110.000	49.000	63.143	110.000	64.000	57.000	51.000	49.000	49.000
00530	Residue total (mg/L)	6	57.000	21.000	37.833	57.000	53.250	36.000	24.000	21.000	21.000
70300	Residue dissolved 180 °C (mg/L)	6	92.000	50.000	61.667	92.000	74.750	54.000	50.750	50.000	50.000
31625	Coliform fecal 0 (cols./100 ml)	7	90.000.000	490.000	15,584.286	90.000.000	8,700.000	3,000.000	1,100.000	490.000	490.000
31673	Fecal strpt KF A (cols./100 ml)	7	28.000.000	1,600.000	12,142.857	28.000.000	20,000.000	8,800.000	3,700.000	1,600.000	1,600.000
01002	Arsenic total (µg/L as AS)	7	--	--	--	--	--	--	--	--	--
01027	Cadmium total (µg/L as CD)	7	--	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	7	7.000	--	<sup>2</sup> 3.681	<sup>2</sup> 7.000	<sup>2</sup> 4.000	<sup>2</sup> 3.000	<sup>2</sup> 3.000	<sup>2</sup> 1.768	<sup>2</sup> 1.768
01042	Copper total (µg/L as CU)	7	8.000	4.000	6.286	8.000	8.000	6.000	5.000	4.000	4.000
01051	Lead total (µg/L as PB)	7	38.000	17.000	28.714	38.000	35.000	29.000	23.000	17.000	17.000
01067	Nickel total (µg/L as NI)	7	3.000	2.000	2.857	3.000	3.000	3.000	3.000	2.000	2.000
01092	Zinc total (µg/L as ZN)	7	90.000	60.000	72.857	90.000	80.000	70.000	60.000	60.000	60.000
39570	Diazinon total (water µg/L)	6	--	--	--	--	--	--	--	--	--
00556	Oil and grease recoverable (mg/L)	7	8.000	--	<sup>2</sup> 2.208	<sup>2</sup> 8.000	<sup>2</sup> 3.000	<sup>2</sup> 1.000	<sup>2</sup> .302	<sup>2</sup> .156	<sup>2</sup> .156
32730	Phenols, total (µg/L)	7	12.000	--	<sup>2</sup> 4.202	<sup>2</sup> 12.000	<sup>2</sup> 6.000	<sup>2</sup> 4.000	<sup>2</sup> 1.000	<sup>2</sup> .416	<sup>2</sup> .416

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Y value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08061910

Station name: S Mesquite Ck Off at IH 635, Mesquite, Texas

Drainage area: -999,999 mi<sup>2</sup>

State:

County: Dallas

Latitude/longitude: 324817 0963740

Statistical summary of selected water-quality data collected from June 1997 to Apr. 2000

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	10	8.400	7.100	( <sup>1</sup> ) 8.400	8.400	8.400	8.050	7.675	7.100
00095	Specific conductance (µS/cm at 25 °C)	10	195.000	75.000	122.300	195.000	152.750	114.000	84.250	75.000
00010	Water temperature (degrees)	10	26.000	7.500	17.950	26.000	22.250	19.750	12.000	7.500
90410	Anc, tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	9	61.977	29.585	40.052	61.977	45.413	40.790	29.860	29.585
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	9	36.000	10.000	26.333	36.000	32.500	28.000	20.500	10.000
00625	Nitrogen ammonia plus organic (mg/L as N)	9	2.132	.528	1.101	2.132	1.567	.962	.628	.528
00631	NO <sub>3</sub> plus NO <sub>2</sub> dissolved (mg/L as N)	9	1.680	.177	.581	1.680	.867	.400	.245	.177
00666	Phosphorus dissolved (mg/L as P)	9	.089	.020	.045	.089	.049	.041	.038	.020



00665	Phosphorus total (mg/L as P)	9	.260	.068	.127	.260	.144	.120	.083	.068
00310	BOD 5-day at 20 (mg/L)	9	10.600	2.100	5.400	10.600	7.400	4.300	3.500	2.100
00340	COD high level M (mg/L)	9	94.000	11.200	40.644	94.000	50.600	37.000	25.500	11.200
00530	Residue total (mg/L)	9	96.000	19.000	51.000	96.000	85.000	41.000	25.500	19.000
70300	Residue dissolved 180 °C (mg/L)	9	132.000	31.000	65.000	132.000	75.000	62.000	46.000	31.000
31625	Coliform fecal 0 (cols./100 ml)	9	250,000,000	870,000	42,866.668	250,000,000	49,500,000	12,000,000	1,365,000	870,000
31673	Fecal strpt KF A (cols./100 ml)	9	180,000,000	6,500,000	35,966.668	180,000,000	40,000,000	14,000,000	7,850,000	6,500,000
01002	Arsenic total (µg/L as AS)	9	19.000	--	<sup>2</sup> 3.883	<sup>2</sup> 19.000	<sup>2</sup> 5.650	<sup>2</sup> 1.100	<sup>2</sup> .386	<sup>2</sup> .131
01027	Cadmium total (µg/L as CD)	9	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	9	7.500	1.800	4.089	7.500	6.600	3.000	2.350	1.800
01042	Copper total (µg/L as CU)	9	38.000	5.200	11.322	38.000	12.800	7.200	5.500	5.200
01051	Lead total (µg/L as PB)	9	40.500	--	<sup>2</sup> 22.468	<sup>2</sup> 40.500	<sup>2</sup> 31.650	<sup>2</sup> 20.200	<sup>2</sup> 14.750	<sup>2</sup> 8.715
01092	Zinc total (µg/L as ZN)	9	260.000	39.000	93.222	260.000	131.500	61.000	46.500	39.000
39572	Diazinon dissolved (µg/L)	4	.021	.010	--	--	--	--	--	--
39570	Diazinon total (water µg/L)	6	--	--	--	--	--	--	--	--
00556	Oil and grease recoverable (mg/L)	9	385.000	2.000	79.111	385.000	149.500	5.000	3.500	2.000

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

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Station number: 08061515  
 Station name: Beck Branch OfI at Wingate Blvd, Plano, Texas  
 Drainage area: -999,999 mi<sup>2</sup>  
 State:  
 County: Collin  
 Latitude/longitude: 330010 0964006

Statistical summary of selected water-quality data collected from Nov. 1998 to June 2000  
 Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	11	8.700	7.100	<sup>(1)</sup> 200.750	8.700	8.300	7.700	7.100	7.100
00095	Specific conductance (µS/cm at 25 °C)	12	512.000	48.000	200.750	512.000	296.250	150.000	95.250	48.000
00010	Water temperature (degrees)	12	25.000	15.000	18.167	25.000	19.750	18.250	15.500	15.000
90410	Anc, tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	12	529.290	33.000	147.552	529.290	158.510	123.150	77.500	33.000
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	12	184.000	26.000	84.500	184.000	118.250	72.000	38.500	26.000
00625	Nitrogen ammonia plus organic (mg/L as N)	12	3.999	.400	1.573	3.999	2.963	.983	.650	.400
00631	NO <sub>2</sub> plus NO <sub>3</sub> dissolved (mg/L as N)	12	1.324	.330	.720	1.324	1.040	.645	.410	.330
00666	Phosphorus dissolved (mg/L as P)	12	1.109	--	<sup>2</sup> .220	<sup>2</sup> 1.109	<sup>2</sup> .343	<sup>2</sup> .085	<sup>2</sup> .046	<sup>2</sup> .009
00665	Phosphorus total (mg/L as P)	12	1.350	.100	.443	1.350	.517	.355	.197	.100

00310	BOD 5-day at 20 (mg/L)	12	9.100	2.000	4.558	9.100	5.300	4.200	3.425	2.000
00340	COD high level M (mg/L)	11	83.000	--	<sup>2</sup> 14.759	<sup>2</sup> 83.000	<sup>2</sup> 20.600	<sup>2</sup> 5.000	<sup>2</sup> 1.536	<sup>2</sup> .881
00530	Residue total (mg/L)	12	2,184.000	12.000	380.000	2,184.000	372.500	200.500	114.250	12.000
70300	Residue dissolved 180 °C (mg/L)	12	286.000	--	<sup>2</sup> 128.544	<sup>2</sup> 286.000	<sup>2</sup> 168.750	<sup>2</sup> 118.500	<sup>2</sup> 75.750	<sup>2</sup> 33.524
31625	Coliform fecal 0 (cols./100 ml)	12	390,000.000	150.000	42,929.168	390,000.000	17,750.000	4,450.000	1,775.000	150.000
31673	Fecal strpt KF A (cols./100 ml)	12	230,000.000	1,600.000	60,533.332	230,000.000	87,500.000	42,000.000	19,000.000	1,600.000
01002	Arsenic total (µg/L as AS)	12	--	--	--	--	--	--	--	--
01027	Cadmium total (µg/L as CD)	12	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	12	40.000	4.000	11.900	40.000	14.950	8.600	5.250	4.000
01042	Copper total (µg/L as CU)	12	26.500	--	<sup>2</sup> 8.928	<sup>2</sup> 26.500	<sup>2</sup> 12.100	<sup>2</sup> 7.500	<sup>2</sup> 4.250	<sup>2</sup> 1.937
01051	Lead total (µg/L as PB)	12	35.000	--	<sup>2</sup> 9.029	<sup>2</sup> 35.000	<sup>2</sup> 11.300	<sup>2</sup> 6.210	<sup>2</sup> 4.000	<sup>2</sup> 3.500
01092	Zinc total (µg/L as ZN)	12	139.000	20.000	63.500	139.000	95.250	50.000	40.000	20.000
39570	Diazinon total (water µg/L)	11	--	--	--	--	--	--	--	--
00556	Oil and grease recoverable (mg/L)	11	491.000	--	<sup>2</sup> 112.620	<sup>2</sup> 491.000	<sup>2</sup> 276.000	<sup>2</sup> 11.000	<sup>2</sup> .487	<sup>2</sup> .041

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08061525  
 Station name: Spg Ck Offl at Pk Blvd, Plano, Texas  
 Drainage area: -999,999 mi<sup>2</sup>  
 State:  
 County: Collin  
 Latitude/longitude: 330144 0964221

Statistical summary of selected water-quality data collected from Dec. 1992 to Apr. 1993  
 Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	7	8.500	6.300	<sup>(1)</sup>	8.500	7.850	7.600	7.300	6.300
00095	Specific conductance (µS/cm at 25 °C)	7	350.000	34.000	150.000	350.000	250.000	94.000	48.000	34.000
00010	Water temperature (degrees)	7	21.000	8.000	13.643	21.000	14.500	13.500	11.000	8.000
90410	Anc, tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	5	57.000	30.000	--	--	--	--	--	--
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	7	39.000	18.000	28.286	39.000	39.000	26.000	20.000	18.000
00625	Nitrogen ammonia plus organic (mg/L as N)	7	.800	.300	.600	.800	.700	.700	.400	.300
00631	NO <sub>3</sub> plus NO <sub>2</sub> dissolved (mg/L as N)	6	.570	.360	.462	.570	.532	.460	.390	.360
00666	Phosphorus dissolved (mg/L as P)	7	.060	.030	.041	.060	.050	.040	.030	.030
00665	Phosphorus total (mg/L as P)	7	.130	.070	.100	.130	.110	.100	.080	.070
00310	BOD 5-day at 20 (mg/L)	6	4.900	2.800	4.033	4.900	4.750	4.150	3.325	2.800

00340	COD high level M (mg/L)	7	59,000	26,000	39,857	59,000	47,000	40,000	27,000	26,000
00530	Residue total (mg/L)	5	69,000	22,000	--	--	--	--	--	--
70300	Residue dissolved 180 °C (mg/L)	5	249,000	23,000	--	--	--	--	--	--
31625	Coliform fecal 0 (cols./100 ml)	7	47,000,000	67,000	7,959,571	47,000,000	7,000,000	280,000	200,000	67,000
31673	Fecal strpt KF A (cols./100 ml)	7	9,600,000	1,400,000	4,500,000	9,600,000	7,500,000	3,400,000	1,700,000	1,400,000
01002	Arsenic total (µg/L as AS)	7	3,000	--	<sup>2</sup> 1,642	<sup>2</sup> 3,000	<sup>2</sup> 2,000	<sup>2</sup> 2,000	<sup>2</sup> 847	<sup>2</sup> 647
01027	Cadmium total (µg/L as CD)	7	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	7	6,000	--	<sup>2</sup> 3,694	<sup>2</sup> 6,000	<sup>2</sup> 5,000	<sup>2</sup> 4,000	<sup>2</sup> 2,000	<sup>2</sup> 1,461
01042	Copper total (µg/L as CU)	7	12,000	6,000	8,286	12,000	9,000	8,000	6,000	6,000
01051	Lead total (µg/L as PB)	7	20,000	6,000	11,714	20,000	15,000	11,000	7,000	6,000
01067	Nickel total (µg/L as NI)	7	5,000	1,000	2,714	5,000	4,000	2,000	2,000	1,000
01092	Zinc total (µg/L as ZN)	7	110,000	50,000	75,714	110,000	100,000	70,000	50,000	50,000
39570	Diazinon total (water µg/L)	6	--	--	--	--	--	--	--	--
00556	Oil and grease recoverable (mg/L)	7	8,000	--	<sup>2</sup> 3,756	<sup>2</sup> 8,000	<sup>2</sup> 6,000	<sup>2</sup> 4,000	<sup>2</sup> 815	<sup>2</sup> 474
32730	Phenols, total (µg/L)	7	17,000	2,000	7,571	17,000	10,000	8,000	3,000	2,000

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08061525

Station name: Spg Ck Offl at Pk Blvd, Plano, Texas

Drainage area: -999,999 mi<sup>2</sup>

State:

County: Collin

Latitude/longitude: 330144 0964221

Statistical summary of selected water-quality data collected from Dec. 1997 to June 2000

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	10	8.500	7.200	( <sup>1</sup> )	8.500	8.150	7.800	7.400	7.200
00095	Specific conductance (µS/cm at 25 °C)	10	198,000	33,000	81,700	198,000	95,750	80,000	38,250	33,000
00010	Water temperature (degrees)	10	23,000	7,000	17,900	23,000	22,500	19,000	14,125	7,000
90410	Anc. tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	10	43,446	.640	32,280	43,446	42,686	33,944	29,064	.640
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	10	33,000	15,000	25,800	33,000	29,500	26,500	23,000	15,000
00625	Nitrogen ammonia plus organic (mg/L as N)	10	1,600	.405	.834	1,600	1,207	.693	.510	.405
00631	NO <sub>3</sub> plus NO <sub>2</sub> dissolved (mg/L as N)	10	.590	--	<sup>2</sup> .392	<sup>2</sup> .590	<sup>2</sup> .512	<sup>2</sup> .412	<sup>2</sup> .287	<sup>2</sup> .179
00666	Phosphorus dissolved (mg/L as P)	9	.110	.037	.073	.110	.090	.072	.054	.037
00665	Phosphorus total (mg/L as P)	10	.280	.060	.157	.280	.214	.156	.099	.060
00310	BOD 5-day at 20 (mg/L)	9	11,800	3,100	6,962	11,800	8,580	7,300	4,800	3,100

00340	COD high level M (mg/L)	10	62.300	--	<sup>2</sup> 24.676	<sup>2</sup> 62.300	<sup>3</sup> 35.950	<sup>2</sup> 19.750	<sup>2</sup> 10.025	<sup>2</sup> 6.164
00530	Residue total (mg/L)	10	142.000	19.000	53.800	142.000	61.500	44.500	33.750	19.000
70300	Residue dissolved 180 °C (mg/L)	10	101.000	32.000	48.300	101.000	54.250	41.500	32.750	32.000
31625	Coliform fecal 0 (cols./100 ml)	10	44,000.000	1,200.000	17,650.000	44,000.000	30,750.000	16,350.000	4,400.000	1,200.000
31673	Fecal strpt KF A (cols./100 ml)	10	72,000.000	3,500.000	22,310.000	72,000.000	24,250.000	20,500.000	9,675.000	3,500.000
01002	Arsenic total (µg/L as AS)	10	--	--	--	--	--	--	--	--
01027	Cadmium total (µg/L as CD)	10	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	10	8.000	1.600	3.180	8.000	3.550	2.750	1.975	1.600
01042	Copper total (µg/L as CU)	10	230.000	5.600	34.230	230.000	16.225	13.450	10.250	5.600
01051	Lead total (µg/L as PB)	10	18.700	--	<sup>3</sup> 10.797	<sup>3</sup> 18.700	<sup>3</sup> 14.325	<sup>2</sup> 10.650	<sup>2</sup> 6.900	<sup>3</sup> 3.666
01092	Zinc total (µg/L as ZN)	10	180.000	50.000	95.800	180.000	111.750	93.500	59.250	50.000
39572	Diazinon dissolved (µg/L)	2	.017	.008	--	--	--	--	--	--
39570	Diazinon total (water µg/L)	8	.050	--	<sup>2</sup> .023	<sup>2</sup> .050	<sup>2</sup> .037	<sup>2</sup> .021	<sup>2</sup> .008	<sup>2</sup> .005
00556	Oil and grease recoverable (mg/L)	10	451.000	2.000	50.000	451.000	10.250	4.000	2.000	2.000

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08049860  
 Station name: Mtn Ck Offl at IH 20, Duncanville, Texas  
 Drainage area: -999,999 mi<sup>2</sup>  
 State:  
 County: Dallas  
 Latitude/longitude: 324014 0965959

Statistical summary of selected water-quality data collected from Dec. 1993 to Aug. 1994  
 Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	7	8.600	7.500	(1)	8.600	8.400	7.800	7.500	7.500
00095	Specific conductance (µS/cm at 25 °C)	7	2,240.000	252.000	858.714	2240.000	905.000	864.000	351.000	252.000
00010	Water temperature (degrees)	7	29.000	11.500	18.071	29.000	20.000	19.000	12.000	11.500
90410	Anc. tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	7	119.000	67.000	95.000	119.000	119.000	92.000	78.000	67.000
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	7	86.000	26.000	55.286	86.000	84.000	56.000	30.000	26.000
00625	Nitrogen ammonia plus organic (mg/L as N)	7	3.600	1.200	2.371	3.600	3.200	2.100	1.800	1.200
00631	NO <sub>2</sub> plus NO <sub>3</sub> dissolved (mg/L as N)	7	1.300	.160	.544	1.300	.830	.400	.310	.160
00666	Phosphorus dissolved (mg/L as P)	7	.210	.010	.056	.210	.050	.030	.020	.010
00665	Phosphorus total (mg/L as P)	7	.560	.090	.310	.560	.530	.250	.110	.090
00310	BOD 5-day at 20 (mg/L)	7	9.200	4.300	7.200	9.200	9.200	6.800	6.000	4.300
00340	COD high level M (mg/L)	7	140.000	49.000	92.571	140.000	120.000	87.000	56.000	49.000

00530	Residue total (mg/L)	7	386.000	58.000	161.429	386.000	211.000	136.000	73.000	58.000
70300	Residue dissolved 180 °C (mg/L)	7	750.000	240.000	496.143	750.000	699.000	456.000	309.000	240.000
31625	Coliform fecal 0 (cols./100 ml)	6	11,000.000	100.000	4,583.333	11,000.000	8,750.000	3,350.000	1,300.000	100.000
31673	Fecal strpt KF A (cols./100 ml)	7	68,000.000	1,200.000	21,728.572	68,000.000	28,000.000	18,000.000	5,100.000	1,200.000
01002	Arsenic total (µg/L as AS)	7	5.000	--	<sup>2</sup> 2.578	<sup>2</sup> 5.000	<sup>4</sup> 4.000	<sup>2</sup> 2.000	<sup>2</sup> 1.182	<sup>2</sup> .866
01027	Cadmium total (µg/L as CD)	7	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	7	18.000	2.500	7.414	18.000	12.000	5.200	2.600	2.500
01042	Copper total (µg/L as CU)	7	20.000	6.000	12.143	20.000	19.000	11.000	7.000	6.000
01051	Lead total (µg/L as PB)	7	140.000	10.000	62.714	140.000	120.000	35.000	12.000	10.000
01067	Nickel total (µg/L as NI)	7	47.000	5.000	21.429	47.000	32.000	21.000	8.000	5.000
01092	Zinc total (µg/L as ZN)	7	260.000	40.000	155.714	260.000	210.000	190.000	80.000	40.000
39570	Diazinon total (water µg/L)	7	--	--	--	--	--	--	--	--
00556	Oil and grease recoverable (mg/L)	7	--	--	--	--	--	--	--	--
32730	Phenols, total (µg/L)	7	14.000	1.000	6.429	14.000	10.000	5.000	2.000	1.000

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08049860

Station name: Mtn Ck Offl at IH 20, Duncanville, Texas

Drainage area: -999,999 mi<sup>2</sup>

State:

County: Dallas

Latitude/longitude: 324014 0965959

Statistical summary of selected water-quality data collected from Sept. 1997 to Apr. 2000

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	9	8.600	7.300	8.600	8.600	8.300	7.900	7.900	7.300
00095	Specific conductance (µS/cm at 25 °C)	9	1,957.000	214.000	686.444	1,957.000	1,064.500	447.000	300.000	214.000
00010	Water temperature (degrees)	9	26.500	12.500	18.389	26.500	21.000	17.500	15.500	12.500
90410	Anc, tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	9	139.000	55.900	81.434	139.000	91.091	74.000	62.076	55.900
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	9	139.000	30.000	59.000	139.000	68.000	54.000	34.000	30.000
00625	Nitrogen ammonia plus organic (mg/L as N)	9	8.800	--	<sup>3</sup> 3.440	<sup>3</sup> 8.800	<sup>2</sup> 5.706	<sup>2</sup> 2.213	<sup>2</sup> 1.472	<sup>2</sup> .519
00631	NO <sub>3</sub> plus NO <sub>2</sub> dissolved (mg/L as N)	9	1.978	.230	.827	1.978	1.332	.504	.395	.230
00666	Phosphorus dissolved (mg/L as P)	9	.150	--	<sup>2</sup> .077	<sup>2</sup> .150	<sup>2</sup> .117	<sup>2</sup> .066	<sup>2</sup> .040	<sup>2</sup> .028
00665	Phosphorus total (mg/L as P)	9	1.692	.060	.597	1.692	1.043	.394	.142	.060
00310	BOD 5-day at 20 (mg/L)	8	13.600	4.000	8.012	13.600	9.525	7.850	5.175	4.000
00340	COD high level M (mg/L)	9	91.000	16.000	45.422	91.000	68.750	40.200	19.450	16.000
00530	Residue total (mg/L)	9	496.000	13.000	201.444	496.000	318.000	146.000	47.000	13.000

70300	Residue dissolved 180 °C (mg/L)	9	932.000	144.000	428.222	932.000	573.500	448.000	216.000	144.000
31625	Coliform fecal 0 (cols./100 ml)	9	160,000.000	700.000	31,988.889	160,000.000	41,400.000	10,000.000	3,600.000	700.000
31673	Fecal strpt KF A (cols./100 ml)	9	300,000.000	6,500.000	67,388.891	300,000.000	109,000.000	21,000.000	10,000.000	6,500.000
01002	Arsenic total (µg/L as AS)	10	--	--	--	--	--	--	--	--
01027	Cadmium total (µg/L as CD)	10	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	10	49.500	--	<sup>2</sup> 11.109	<sup>2</sup> 49.500	<sup>3</sup> 13.975	<sup>2</sup> 5.450	<sup>2</sup> 2.075	<sup>2</sup> .491
01042	Copper total (µg/L as CU)	10	85.000	6.100	22.120	85.000	23.750	13.000	9.525	6.100
01051	Lead total (µg/L as PB)	10	446.000	4.500	78.370	446.000	83.650	18.900	7.675	4.500
01067	Nickel total (µg/L as NI)	4	28.000	13.000	--	--	--	--	--	--
01092	Zinc total (µg/L as ZN)	10	835.000	20.000	207.200	835.000	330.750	71.500	38.250	20.000
39572	Diazinon dissolved (µg/L)	1	.010	--	--	--	--	--	--	--
39570	Diazinon total (water µg/L)	7	--	--	--	--	--	--	--	--
00556	Oil and grease recoverable (mg/L)	9	383.000	1.000	47.333	383.000	14.500	4.000	1.500	1.000
32730	Phenols, total (µg/L)	4	--	--	--	--	--	--	--	--

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08048920

Station name: Deer Ck Offl at IH 35W, Fort Worth, Texas

Drainage area: -999,999 mi<sup>2</sup>

State:

County: Tarrant

Latitude/longitude: 323518 0971908

Statistical summary of selected water-quality data collected from May 1994 to Nov. 1994

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	7	8.600	7.200	<sup>(1)</sup>	8.600	8.000	7.800	7.400	7.200
00095	Specific conductance (µS/cm at 25 °C)	7	950.000	77.000	515.286	950.000	820.000	402.000	249.000	77.000
00010	Water temperature (degrees)	7	26.000	15.000	20.714	26.000	24.000	20.000	17.500	15.000
90410	Anc, tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	7	108.000	67.000	91.429	108.000	102.000	96.000	81.000	67.000
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	7	105.000	43.000	78.143	105.000	100.000	80.000	64.000	43.000
00625	Nitrogen ammonia plus organic (mg/L as N)	7	1.100	.400	.757	1.100	1.000	.700	.600	.400
00631	NO <sub>3</sub> plus NO <sub>2</sub> dissolved (mg/L as N)	7	1.100	.350	.641	1.100	.880	.600	.420	.350
00666	Phosphorus dissolved (mg/L as P)	7	.100	.020	.064	.100	.090	.060	.040	.020
00665	Phosphorus total (mg/L as P)	7	.150	.060	.099	.150	.140	.080	.060	.060
00310	BOD 5-day at 20 (mg/L)	7	9.400	2.700	5.771	9.400	9.400	4.700	4.400	2.700
00340	COD high level M (mg/L)	7	59.000	--	<sup>2</sup> 41.069	<sup>2</sup> 59.000	<sup>2</sup> 59.000	<sup>2</sup> 35.000	<sup>2</sup> 29.000	<sup>2</sup> 19.482
00530	Residue total (mg/L)	7	151.000	21.000	86.714	151.000	148.000	74.000	46.000	21.000

70300	Residue dissolved 180 °C (mg/L)	7	277.000	102.000	179.143	277.000	214.000	177.000	134.000	102.000
31625	Coliform fecal 0 (cols./100 ml)	6	250,000.000	170.000	55,250.000	250,000.000	103,750.000	13,000.000	290.000	170.000
31673	Fecal strpt KF A (cols./100 ml)	7	87,000.000	100.000	21,911.428	87,000.000	31,000.000	10,000.000	680.000	100.000
01002	Arsenic total (µg/L as AS)	7	6.000	1.000	2.714	6.000	4.000	2.000	2.000	1.000
01027	Cadmium total (µg/L as CD)	7	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	7	14.000	1.600	4.857	14.000	5.100	3.500	2.500	1.600
01042	Copper total (µg/L as CU)	7	17.000	3.000	6.714	17.000	7.000	6.000	4.000	3.000
01051	Lead total (µg/L as PB)	7	14.000	3.000	7.429	14.000	11.000	7.000	4.000	3.000
01067	Nickel total (µg/L as NI)	7	44.000	1.000	8.571	44.000	4.000	3.000	2.000	1.000
01092	Zinc total (µg/L as ZN)	7	80.000	30.000	51.429	80.000	60.000	60.000	30.000	30.000
39570	Diazinon total (water µg/L)	7	--	--	--	--	--	--	--	--
00556	Oil and grease recoverable (mg/L)	6	--	--	--	--	--	--	--	--
32730	Phenols, total (µg/L)	7	--	--	--	--	--	--	--	--

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08048920

Station name: Deer Ck Offl at IH 35W, Ft Worth, Texas

Drainage area: -999,999 mi<sup>2</sup>

State:

County: Tarrant

Latitude/longitude: 323518 0971908

Statistical summary of selected water-quality data collected from Feb. 1997 to Apr. 2000

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	11	8.200	6.800	( <sup>1</sup> )	8.200	7.900	7.700	7.200	6.800
00095	Specific conductance (µS/cm at 25 °C)	11	1,315.000	227.000	563.636	1,315.000	781.000	425.000	303.000	227.000
00010	Water temperature (degrees)	11	24.000	8.000	16.318	24.000	19.000	17.000	11.000	8.000
90410	Anc, tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	10	150.000	70.000	97.284	150.000	106.280	96.000	78.506	70.000
39036	Alkalinity, D, FE <sub>3</sub> (mg/L as CaCO <sub>3</sub> )	10	117.000	44.000	73.500	117.000	85.000	75.000	55.000	44.000
00625	Nitrogen ammonia plus organic (mg/L as N)	10	6.000	--	<sup>2</sup> 1.620	<sup>2</sup> 6.000	<sup>2</sup> 1.850	<sup>2</sup> 1.269	<sup>2</sup> .615	<sup>2</sup> .206
00631	NO <sub>3</sub> plus NO <sub>2</sub> dissolved (mg/L as N)	10	1.980	.440	.849	1.980	.966	.755	.529	.440
00666	Phosphorus dissolved (mg/L as P)	10	.150	--	<sup>2</sup> .060	<sup>2</sup> .150	<sup>2</sup> .117	<sup>2</sup> .040	<sup>2</sup> .017	<sup>2</sup> .010
00665	Phosphorus total (mg/L as P)	10	.750	.040	.265	.750	.543	.139	.055	.040
00310	BOD 5-day at 20 (mg/L)	10	16.000	2.800	7.200	16.000	8.550	6.600	4.525	2.800
00340	COD high level M (mg/L)	10	70.000	--	<sup>2</sup> 43.046	<sup>2</sup> 70.000	<sup>2</sup> 53.575	<sup>2</sup> 44.000	<sup>2</sup> 30.500	<sup>2</sup> 19.362
00530	Residue total (mg/L)	10	332.000	22.000	123.000	332.000	166.000	84.500	60.750	22.000



70300	Residue dissolved 180 °C (mg/L)	10	278.000	104.000	185.900	278.000	218.250	175.500	157.750	104.000
31625	Coliform fecal 0 (cols./100 ml)	10	40,000.000	1.000	6,146.100	40,000.000	5,425.000	1,665.000	352.500	1.000
31673	Fecal strpt KF A (cols./100 ml)	10	73,000.000	1.000	18,983.400	73,000.000	27,000.000	14,500.000	5,183.250	1.000
01002	Arsenic total (µg/L as AS)	10	4.000	--	<sup>2</sup> 2.662	<sup>4</sup> 4.000	<sup>3</sup> 3.075	<sup>2</sup> 2.584	<sup>2</sup> 2.157	<sup>2</sup> 1.641
01027	Cadmium total (µg/L as CD)	10	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	10	13.000	--	<sup>2</sup> 5.022	<sup>1</sup> 13.000	<sup>6</sup> 6.350	<sup>2</sup> 4.650	<sup>2</sup> 2.325	<sup>2</sup> 1.224
01042	Copper total (µg/L as CU)	10	20.000	5.000	8.420	20.000	9.450	7.500	5.250	5.000
01051	Lead total (µg/L as PB)	10	33.000	--	<sup>2</sup> 11.353	<sup>3</sup> 33.000	<sup>1</sup> 11.450	<sup>3</sup> 9.016	<sup>2</sup> 7.975	<sup>2</sup> 4.800
01092	Zinc total (µg/L as ZN)	10	160.000	32.000	66.000	160.000	74.000	60.000	39.000	32.000
39570	Diazinon total (water µg/L)	10	.042	--	<sup>2</sup> .021	<sup>2</sup> .042	<sup>2</sup> .036	<sup>2</sup> .020	<sup>2</sup> .009	<sup>2</sup> .005
00556	Oil and grease recoverable (mg/L)	10	74.000	1.000	16.900	74.000	21.750	3.000	2.000	1.000

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08055690

Station name: Bachman Branch Off at IH 635, Dallas, Texas

Drainage area: -999,999 mi<sup>2</sup>

State:

County: Dallas

Latitude/longitude: 325526 0964909

Statistical summary of selected water-quality data collected from Dec. 1993 to Aug. 1994

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	7	8.300	6.700	<sup>(1)</sup> 324.714	8.300	8.000	7.800	7.500	6.700
00095	Specific conductance (µS/cm at 25 °C)	7	658.000	140.000	324.714	658.000	390.000	286.000	231.000	140.000
00010	Water temperature (degrees)	7	24.500	11.500	16.714	24.500	20.000	18.000	11.500	11.500
90410	Anc, tit, 4.5, L (mg/L as CaCO <sub>3</sub> )	6	87.000	38.000	61.500	87.000	73.500	61.500	48.500	38.000
39036	Alkalinity, D, FE, (mg/L as CaCO <sub>3</sub> )	6	70.000	28.000	47.500	70.000	65.500	42.500	35.500	28.000
00625	Nitrogen ammonia plus organic (mg/L as N)	7	2.400	1.200	1.543	2.400	1.800	1.400	1.300	1.200
00631	NO <sub>2</sub> plus NO <sub>3</sub> dissolved (mg/L as N)	7	1.700	.380	.896	1.700	1.400	.750	.520	.380
00666	Phosphorus dissolved (mg/L as P)	7	.250	.080	.154	.250	.180	.150	.120	.080
00665	Phosphorus total (mg/L as P)	7	.420	.160	.229	.420	.260	.190	.170	.160
00310	BOD 5-day at 20 (mg/L)	7	10.100	5.200	8.129	10.100	10.100	8.300	7.200	5.200
00340	COD high level M (mg/L)	7	99.000	--	<sup>2</sup> 75.192	<sup>3</sup> 99.000	<sup>3</sup> 93.000	<sup>3</sup> 84.000	<sup>2</sup> 50.000	<sup>2</sup> 42.343
00530	Residue total (mg/L)	6	136.000	17.000	67.167	136.000	112.000	52.000	35.750	17.000
70300	Residue dissolved 180 °C (mg/L)	6	229.000	92.000	151.500	229.000	196.000	154.500	93.500	92.000

31625	Coliform fecal 0 (cols./100 ml)	7	3,200,000.000	34,000.000	733,857.125	3,200,000.000	860,000.000	250,000.000	53,000.000	34,000.000
31673	Fecal strpt KF A (cols./100 ml)	7	840,000.000	16,000.000	217,142.859	840,000.000	310,000.000	100,000.000	20,000.000	16,000.000
01002	Arsenic total (µg/L as AS)	7	3.000	1.000	1.714	3.000	2.000	2.000	1.000	1.000
01027	Cadmium total (µg/L as CD)	7	--	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	7	5.000	2.500	3.786	5.000	4.900	4.000	2.700	2.500
01042	Copper total (µg/L as CU)	7	23.000	13.000	17.143	23.000	20.000	17.000	14.000	13.000
01051	Lead total (µg/L as PB)	7	26.000	6.000	13.857	26.000	22.000	11.000	9.000	6.000
01067	Nickel total (µg/L as NI)	7	7.000	3.000	4.286	7.000	5.000	4.000	3.000	3.000
01092	Zinc total (µg/L as ZN)	7	240.000	50.000	112.857	240.000	120.000	100.000	80.000	50.000
39570	Diazinon total (water µg/L)	7	--	--	--	--	--	--	--	--
00556	Oil and grease recoverable (mg/L)	7	--	--	--	--	--	--	--	--
32730	Phenols, total (µg/L)	7	16.000	2.000	9.000	16.000	12.000	9.000	4.000	2.000

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Station number: 08055690

Station name: Bachman Branch Off at IH 635, Dallas, Texas

Drainage area: -999,999 mi<sup>2</sup>

State:

County: Dallas

Latitude/longitude: 325526 0964909

Statistical summary of selected water-quality data collected from Jan 1998 to Dec. 1999

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample	Water-quality constituent	Size	Maximum	Minimum	Mean (median)	95th percentile	75th percentile	50th percentile (median)	25th percentile	5th percentile
00400	pH, whole, field (standard units)	3	8.400	7.600	--	--	--	--	--	--
00095	Specific conductance (µS/cm at 25 °C)	3	203.000	137.000	--	--	--	--	--	--
00010	Water temperature (degrees)	3	18.000	8.500	--	--	--	--	--	--
90410	Anc, tit. 4.5, L (mg/L as CaCO <sub>3</sub> )	3	140.000	51.000	--	--	--	--	--	--
39036	Alkalinity, D, FE <sub>3</sub> (mg/L as CaCO <sub>3</sub> )	3	52.000	21.000	--	--	--	--	--	--
00625	Nitrogen ammonia plus organic (mg/L as N)	3	3.100	.992	--	--	--	--	--	--
00631	NO <sub>2</sub> plus NO <sub>3</sub> dissolved (mg/L as N)	3	1.100	.224	--	--	--	--	--	--
00666	Phosphorus dissolved (mg/L as P)	3	.210	.040	--	--	--	--	--	--
00665	Phosphorus total (mg/L as P)	3	.480	.209	--	--	--	--	--	--
00310	BOD 5-day at 20 (mg/L)	3	8.800	3.300	--	--	--	--	--	--
00340	COD high level M (mg/L)	3	93.000	40.900	--	--	--	--	--	--
00530	Residue total (mg/L)	3	209.000	78.000	--	--	--	--	--	--
70300	Residue dissolved 180 °C (mg/L)	3	178.000	108.000	--	--	--	--	--	--

31625	Coliform fecal 0 (cols./100 ml)	3	95,000,000	14,000,000	--	--	--	--	--
31673	Fecal strpt KF A (cols./100 ml)	3	51,000,000	15,000,000	--	--	--	--	--
01002	Arsenic total (µg/L as AS)	3	--	--	--	--	--	--	--
01027	Cadmium total (µg/L as CD)	3	--	--	--	--	--	--	--
01034	Chromium total (µg/L as CR)	3	15,000	4,600	--	--	--	--	--
01042	Copper total (µg/L as CU)	3	28,700	14,400	--	--	--	--	--
01051	Lead total (µg/L as PB)	3	30,000	20,000	--	--	--	--	--
01067	Nickel total (µg/L as NI)	2	10,000	8,000	--	--	--	--	--
01092	Zinc total (µg/L as ZN)	3	400,000	103,000	--	--	--	--	--
39570	Diazinon total (water µg/L)	2	--	--	--	--	--	--	--
00556	Oil and grease recoverable (mg/L)	3	69,000	2,000	--	--	--	--	--
32730	Phenols, total (µg/L)	3	--	--	--	--	--	--	--

<sup>1</sup> Mean for pH not reported.

<sup>2</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

Table 4. Statistical summary of NO<sub>2</sub> + NO<sub>3</sub> dissolved (mg/L as N) water-quality data collected during February 1992–August 2000

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample land-use category	Size	Maximum	Minimum	Mean	95%	75%	50%	25%	5t%
<b>RESIDENTIAL</b>									
1992–94	8	1.200	0.430	0.729	1.200	0.962	0.675	0.475	0.430
1997–2000	36	1.648	0.100	0.685	1.624	0.750	0.628	0.463	0.268
<b>COMMERCIAL</b>									
1992–94	20	1.500	0.240	0.505	1.470	0.538	0.415	0.352	0.242
1997–2000	36	1.680	--	0.522*	*1.269	*0.583	*0.427	*0.324	*0.169
<b>INDUSTRIAL</b>									
1992–94	43	2.550	0.069	0.753	1.858	0.850	0.685	0.420	0.117
1997–2000	43	2.550	0.069	0.753	1.858	0.850	0.685	0.420	0.117
<b>HIGHWAY</b>									
1992–94	21	1.700	0.160	0.694	1.670	0.855	0.600	0.390	0.175
1997–2000	22	1.980	0.224	0.818	1.980	1.037	0.725	0.465	0.225
<b>MIXED</b>									
1992–94	61	4.870	0.090	0.763	1.629	0.926	0.600	0.442	0.230
1997–2000	61	4.870	0.090	0.763	1.629	0.926	0.600	0.442	0.230
<b>UNDEVELOPED</b>									
1992–94	12	1.324	0.330	0.720	1.324	1.040	0.645	0.410	0.330
1997–2000	12	1.324	0.330	0.720	1.324	1.040	0.645	0.410	0.330

Statistical summary of BOD 5-day at 20 (mg/L) water quality data collected during February 1992-August 2000

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample land-use category	Size	Maximum	Minimum	Mean	95%	75%	50%	25%	5t%
<b>RESIDENTIAL</b>									
1992-94	26	17.000	3.900	7.531	15.250	8.300	7.400	6.300	4.110
1997-2000	39	51.000	2.400	11.872	47.000	10.700	8.300	7.500	2.600
<b>COMMERCIAL</b>									
1992-94	26	17.000	2.700	5.823	14.760	7.300	4.950	3.775	2.735
1997-2000	36	11.800	2.100	6.835	11.630	8.275	7.300	4.600	2.440
<b>INDUSTRIAL</b>									
1992-94	28	13.000	3.600	7.307	11.650	8.675	7.100	5.900	3.735
1997-2000	43	15.600	2.000	6.560	12.720	8.000	6.300	4.800	3.320
<b>HIGHWAY</b>									
1992-94	21	10.100	2.700	7.033	10.100	9.200	7.200	4.950	2.860
1997-2000	21	16.000	2.800	7.471	15.760	9.050	7.700	4.500	2.850
<b>MIXED</b>									
1997-2000	61	40.000	0.800	9.390	23.430	9.200	8.300	7.300	2.340
<b>UNDEVELOPED</b>									
1997-2000	12	9.100	2.000	4.558	9.100	5.300	4.200	3.425	2.000

Statistical summary of COD high level M (mg/L) water-quality data collected during February 1992–August 2000

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample land-use category	Size	Maximum	Minimum	Mean	95%	75%	50%	25%	5t%
<b>RESIDENTIAL</b>									
1992–94	28	1300.000	29.000	122.893	813.999	99.750	69.500	51.000	31.700
1997–2000	39	185.800	15.500	65.613	141.800	86.100	59.500	33.300	20.000
<b>COMMERCIAL</b>									
1992–94	28	130.000	23.000	53.964	121.000	58.500	47.000	39.000	23.000
1997–2000	37	151.900	--	43.249*	*99.790	*55.750	*38.000	*24.750	*8.624
<b>INDUSTRIAL</b>									
1992–94	27	250.000	25.000	66.481	188.800	76.000	61.000	43.000	27.000
1997–2000	43	110.000	--	38.908*	*97.320	*54.100	*32.800	*20.400	*9.827
<b>HIGHWAY</b>									
1992–94	21	140.000	--	68.913*	*138.000	*93.000	*59.000	*42.000	*21.827
1997–2000	22	93.000	10.000	45.895	92.700	62.700	44.000	30.500	10.900
<b>MIXED</b>									
1997–2000	59	168.000	--	47.154*	*131.000	*57.500	*36.700	*23.000	*9.607
<b>UNDEVELOPED</b>									
1997–2000	11	83.000	--	14.759*	*83.000	*20.600	*5.000	*1.536	*0.881

Statistical summary of residue total (mg/L) water quality data collected during February 1992–August 2000

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample land-use category	Size	Maximum	Minimum	Mean	95%	75%	50%	25%	5t%
<b>RESIDENTIAL</b>									
1992–94	25	686.000	4.000	166.160	673.400	218.500	98.000	31.500	4.300
1997–2000	39	600.000	12.000	115.692	438.000	128.000	75.000	58.000	17.000
<b>COMMERCIAL</b>									
1992–94	24	92.000	--	34.550*	*87.000	*50.500	*28.000	*17.250	*3.451
1997–2000	37	640.000	5.000	68.297	272.799	75.000	42.000	19.000	7.700
<b>INDUSTRIAL</b>									
1992–94	26	2490.000	23.000	231.538	1820.099	195.000	107.000	47.000	23.700
1997–2000	43	916.000	24.000	187.116	708.800	222.000	111.000	54.000	29.800
<b>HIGHWAY</b>									
1992–94	20	386.000	17.000	107.000	377.250	145.000	88.000	46.250	17.200
1997–2000	22	496.000	13.000	157.864	472.000	251.000	134.000	60.750	14.350
<b>MIXED</b>									
1997–2000	61	2570.000	21.000	362.721	1215.000	408.000	278.000	112.000	35.100
<b>UNDEVELOPED</b>									
1997–2000	12	2184.000	12.000	380.000	2184.000	372.500	200.500	114.250	12.000

Statistical summary of residue dissolved 180 °C mg/L water-quality data collected during February 1992–August 2000

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample land-use category	Size	Maximum	Minimum	Mean	95%	75%	50%	25%	5t%
<b>RESIDENTIAL</b>									
1992–94	25	959.000	33.000	100.840	720.201	79.500	60.000	45.500	33.600
1997–2000	39	237.000	37.000	89.513	191.000	114.000	76.000	56.000	40.000
<b>COMMERCIAL</b>									
1992–94	23	249.000	23.000	60.870	217.600	69.000	50.000	41.000	24.200
1997–2000	37	132.000	23.000	54.243	121.200	65.000	47.000	35.000	23.900
<b>INDUSTRIAL</b>									
1992–94	26	318.000	21.000	79.308	254.650	89.750	68.000	47.500	24.150
1997–2000	43	198.000	31.000	83.907	169.200	112.000	73.000	54.000	32.200
<b>HIGHWAY</b>									
1992–94	20	750.000	92.000	281.800	747.450	356.250	209.500	136.750	92.100
1997–2000	22	932.000	104.000	277.864	887.300	337.000	178.000	158.250	104.600
<b>MIXED</b>									
1997–2000	61	800.000	2.000	203.574	551.600	260.500	148.000	99.000	51.100
<b>UNDEVELOPED</b>									
1997–2000	12	286.000	--	128.544*	*286.000	*168.750	*118.500	*75.750	*33.524



Statistical summary of fecal strpt KF A cols./100 ml water-quality data collected during February 1992–August 2000

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample land-use category	Size	Maximum	Minumum	Mean	95%	75%	50%	25%	5t%
<b>RESIDENTIAL</b>									
1992–94	28	420000.000	8400.000	102433.930	379499.938	137000.000	54500.000	27437.500	11820.000
1997–2000	38	630000.000	11000.000	118652.633	534999.938	182500.000	52000.000	25100.000	11000.000
<b>COMMERCIAL</b>									
1992–94	28	330000.000	1400.000	34401.355	248999.859	27750.000	9350.000	4125.000	1490.000
1997–2000	36	1100000	3500.000	74036.109	471001.125	48000.000	21500.000	13000.000	6050.000
<b>INDUSTRIAL</b>									
1992–94	27	210000.000	33.000	27608.629	186000.031	28000.000	10000.000	6200.000	659.800
1997–2000	42	6000000	1300.000	247728.578	*****	79750.000	24000.000	11000.000	2875.000
<b>HIGHWAY</b>									
1992–94	21	840000.000	100.000	86927.617	786999.812	77500.000	23000.000	5450.000	158.000
1997–2000	22	300000.000	1.000	41469.727	279000.062	50250.000	19000.000	9475.000	5.800
<b>MIXED</b>									
1997–2000	61	1800000	230.000	113470.984	349000.000	105500.000	46000.000	21500.000	8400.000
<b>UNDEVELOPED</b>									
1997–2000	12	230000.000	1600.000	60533.332	230000.000	87500.000	42000.000	19000.000	1600.000

Statistical summary of copper total (ug/L as CU) water-quality data collected during February 1992–August 2000

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample land-use category	Size	Maximum	Minimum	Mean	95%	75%	50%	25%	5t%
<b>RESIDENTIAL</b>									
1992–94	28	86.000	1.000	10.821	54.050	12.750	7.000	5.000	1.900
1997–2000	39	63.100	4.000	11.851	22.000	13.500	10.000	7.900	4.400
<b>COMMERCIAL</b>									
1992–94	25	82.000	2.000	10.600	67.000	9.000	6.000	4.000	2.300
1997–2000	37	230.000	3.800	18.516	89.780	14.600	9.000	6.100	4.430
<b>INDUSTRIAL</b>									
1992–94	26	40.000	4.000	16.538	38.950	23.250	13.500	8.750	4.350
1997–2000	43	86.700	5.100	17.981	36.520	24.200	15.100	9.100	5.960
<b>HIGHWAY</b>									
1992–94	21	23.000	3.000	12.000	22.700	17.000	13.000	6.000	3.100
1997–2000	23	85.000	5.000	15.804	75.000	19.800	10.800	7.000	5.020
<b>MIXED</b>									
1997–2000	61	190.100	1.600	24.743	73.600	29.800	17.000	10.000	2.060
<b>UNDEVELOPED</b>									
1997–2000	12	26.500	--	8.928*	*26.500	*12.100	*7.500	*4.250	*1.937

Statistical summary of lead total (ug/L as PB) water-quality data collected during February 1992-August 2000

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample land-use category	Size	Maximum	Minimum	Mean	95%	75%	50%	25%	5t%
<b>RESIDENTIAL</b>									
1992-94	28	89.000	1.000	25.321	74.600	40.750	17.500	8.250	2.800
1997-2000	39	53.400	--	16.814*	*40.100	*23.000	*13.000	*8.300	*3.800
<b>COMMERCIAL</b>									
1992-94	26	65.000	5.000	21.923	63.600	30.000	16.500	10.750	5.350
1997-2000	37	301.000	--	25.878*	*85.090	*27.550	*14.800	*9.850	*3.744
<b>INDUSTRIAL</b>									
1992-94	27	270.000	3.000	50.481	262.000	52.000	32.000	14.000	4.200
1997-2000	43	81.000	3.300	19.877	56.080	25.000	15.200	9.300	4.340
<b>HIGHWAY</b>									
1992-94	21	140.000	3.000	28.000	138.000	29.000	11.000	7.500	3.100
1997-2000	23	446.000	4.500	42.643	391.800	30.000	12.800	8.000	4.560
<b>MIXED</b>									
1992-94	61	288.000	--	35.604*	*129.800	*41.550	*23.400	*11.200	*3.137
1997-2000	61	288.000	--	35.604*	*129.800	*41.550	*23.400	*11.200	*3.137
<b>UNDEVELOPED</b>									
1997-2000	12	35.000	--	9.029*	*35.000	*11.300	*6.210	*4.000	*3.500

Statistical summary of diazinon total (water ug/L) water-quality data collected during February 1992–August 2000

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample land-use category	Size	Maximum	Minimum	Mean	95%	75%	50%	25%	5t%
<b>RESIDENTIAL</b>									
1992–94	28	7.400	--	1.064*	*6.140	*1.350	*0.400	*0.147	*0.026
1997–2000	34	6.830	--	0.685*	*3.822	*0.845	*0.181	*0.015	*0.002
<b>COMMERCIAL</b>									
1992–94	26	0.300	--	0.120*	*0.265	*0.200	*0.100	*0.066	*0.040
1997–2000	28	0.070	--	0.022*	*0.062	*0.030	*0.020	*0.009	*0.005
<b>INDUSTRIAL</b>									
1992–94	28	0.500	--	0.076*	*0.410	*0.095	*0.042	*0.022	*0.008
1997–2000	38	0.130	--	0.025*	*0.111	*0.040	*0.014	*0.007	*0.003
<b>HIGHWAY</b>									
1992–94	21	--	--	--	--	--	--	--	--
1997–2000	19	0.042	--	0.015*	*0.042	*0.020	*0.010	*0.005	*0.002
<b>MIXED</b>									
1992–94	55	2.294	--	0.276*	*1.312	*0.389	*0.052	*0.016	*0.003
<b>UNDEVELOPED</b>									
1992–94	11	--	--	--	--	--	--	--	--

Statistical summary of oil and grease recoverable (mg/L) water-quality data collected during February 1992–August 2000

Percent of samples in which values descriptive statistics were less than or equal to those shown

Sample land-use category	Size	Maximum	Minimum	Mean	95%	75%	50%	25%	5t%
<b>RESIDENTIAL</b>									
1992–94	28	10.000	--	2.364*	*9.100	*3.750	*1.000	*0.441	*0.119
1997–2000	39	2980.000	--	106.833*	*411.000	*9.000	*4.000	*2.000	*0.155
<b>COMMERCIAL</b>									
1992–94	28	8.000	--	2.490*	*8.000	*4.000	*2.000	*0.697	*0.242
1997–2000	37	451.000	2.000	44.514	391.600	10.500	5.000	2.500	2.000
<b>INDUSTRIAL</b>									
1992–94	28	4.000	--	0.950*	*4.000	*1.000	*0.501	*0.219	*0.066
1997–2000	42	191.000	--	21.652*	*184.850	*6.500	*3.000	*1.750	*0.141
<b>HIGHWAY</b>									
1992–94	20	6.000	--	0.860*	*5.900	*1.000	*0.218	*0.060	*0.009
1997–2000	22	383.000	1.000	30.409	336.650	10.750	3.000	2.000	1.000
<b>MIXED</b>									
1992–94	61	560.000	--	81.108*	*465.000	*102.500	*3.000	*1.000	*0.036
<b>UNDEVELOPED</b>									
1992–94	11	491.000	--	112.620*	*491.000	*276.000	*11.000	*0.487	*0.041

**Table 5.** Results of Mann-Whitney statistical tests that compare water-quality data for the 1992–94 period with data for the 1997–2000 period, by site, Dallas-Fort Worth area, Texas

[“YES” and “NO” in constituent column indicates whether differences in concentration between the two periods are statistically significant at the 0.05 level.]

Land use	Site	Nitrite plus nitrate	p value	Bio-chemical oxygen demand	p value	Chemical oxygen demand	p value	Suspended solids	p value	Dis-solved solids	p value	Fecal coliform	p value	Copper	p value	Lead	p value	Diazinon	p value	Oil and grease	p value
Commercial	8049220	NO	0.600	NO	0.160	NO	0.525	NO	0.660	NO	0.551	NO	0.088	YES	0.045	NO	0.704	YES	0.009	YES	0.024
Commercial	8057135	NO	0.385	NO	0.736	NO	0.908	NO	0.272	NO	0.478	YES	0.025	NO	1.000	NO	0.846	YES	0.002	YES	0.004
Commercial	8061525	NO	0.558	YES	0.029	NO	0.262	NO	0.327	NO	0.713	YES	0.040	YES	0.021	NO	0.733	YES	0.023	NO	0.407
Commercial	8061910	NO	0.958	NO	0.203	YES	0.020	NO	0.637	NO	1.000	NO	0.397	NO	0.224	NO	0.224	YES	0.016	YES	0.015
Highway	8048920	NO	0.216	NO	0.591	NO	0.769	NO	0.464	NO	0.922	NO	0.255	NO	0.169	NO	0.168	NO	0.098	YES	0.001
Highway	8049860	NO	0.266	NO	0.267	YES	0.020	NO	0.916	NO	0.397	NO	0.112	NO	0.329	NO	0.494	YES	0.002	YES	0.011
Industrial	8048505	NO	0.375	NO	0.085	NO	0.587	YES	0.046	NO	0.587	NO	0.922	NO	0.384	NO	0.341	NO	0.265	YES	0.002
Industrial	8048542	NO	0.297	NO	0.468	YES	0.011	NO	0.175	YES	0.031	NO	0.587	NO	1.000	NO	0.174	YES	0.001	YES	0.039
Industrial	8056390	NO	0.807	NO	0.457	YES	0.030	NO	0.626	NO	0.481	NO	0.064	NO	0.914	NO	0.057	NO	0.153	YES	0.013
Industrial	8061635	NO	0.618	NO	1.000	YES	0.013	NO	0.123	NO	0.556	NO	0.786	NO	0.618	YES	0.003	YES	0.002	YES	0.037
Residential	8048700	NO	0.916	NO	0.535	YES	0.045	YES	0.023	NO	0.130	NO	0.188	NO	0.305	NO	0.170	YES	0.035	YES	0.021
Residential	8049320	NO	0.597	NO	0.407	NO	0.961	YES	0.050	NO	0.098	YES	0.010	YES	0.024	NO	0.845	NO	0.922	YES	0.010
Residential	8049590	NO	0.525	NO	0.069	NO	0.261	YES	0.015	YES	0.045	NO	0.459	NO	0.070	NO	0.143	NO	0.491	NO	0.138
Residential	8057441	YES	0.030	NO	0.479	YES	0.004	NO	0.112	NO	0.791	NO	0.289	YES	0.033	YES	0.004	YES	0.026	NO	0.750

**Table 6.** Results of Kruskal-Wallis statistical tests between sites within the same land-use category

	Residential		Commercial		Industrial		Highway		Mixed	
	p-value	<0.05	p-value	<0.05	p-value	<0.05	p-value	<0.05	p-value	<0.05
Nitrite plus nitrate	0.020	Yes	0.086	No	0.025	Yes	0.459	No	0.008	Yes
Biochemical oxygen demand	0.391	No	0.522	No	0.021	Yes	0.329	No	0.100	No
Chemical oxygen demand	0.064	No	0.013	Yes	0.014	Yes	0.040	Yes	0.033	Yes
Suspended solids	0.008	Yes	0.442	No	0.000	Yes	0.171	No	0.000	Yes
Dissolved solids	0.000	Yes	0.062	No	0.000	Yes	0.000	Yes	0.000	Yes
Fecal coliform	0.166	No	0.886	No	0.675	No	0.000	Yes	0.835	No
Copper	0.148	No	0.001	Yes	0.000	Yes	0.000	Yes	0.147	No
Lead	0.000	Yes	0.000	Yes	0.000	Yes	0.002	Yes	0.037	Yes
Diazinon	0.007	Yes	0.617	No	0.948	No	0.285	No	0.057	No
Oil and grease	0.040	Yes	0.970	No	0.346	No	0.940	No	0.126	No

Significantly different at alpha = 0.05

**Table 7.** Results of Kruskal-Wallis statistical tests between different land-use categories

	p-value	Significantly different
Nitrite plus nitrate	0.002	Yes
Biochemical oxygen demand	0.000	Yes
Chemical oxygen demand	0.000	Yes
Suspended solids	0.000	Yes
Dissolved solids	0.000	Yes
Fecal coliform	0.000	Yes
Copper	0.000	Yes
Lead	0.000	Yes
Diazinon	0.000	Yes
Oil and grease	0.006	Yes

Significantly different at alpha = 0.05

**Table 8.** Selected characteristics of sampled storms, Dallas-Fort Worth area, Texas

Station no.	Station name	Start date	Start time	End date	End time	Total inches/storm	Elapsed time (hours)	Grab time	Runoff volume (ft <sup>3</sup> )
8048505	Pylon Street Outfall at Meacham Rd.	19920203	1150	920204	820	0.25	20.5	1500	18210
		19920222	1215	920222	1740	.39	5.4	1445	27262
		19920303	2245	920304	345	.41	5.0	2354	29933
		19920417	530	920417	900	.29	3.5	620	17443
		19920514	1132	920514	1430	.29	3.0	1205	21518
		19920606	230	920606	520	.57	2.8	358	49062
		19920921	55	920921	500	.88	4.1	208	78165
		19970206	405	970206	1900	1.04	14.9	728	230,000
		19970212	400	970212	1045	.85	6.8	554	304,000
		19970403	1530	970404	330	.48	12.0	1940	65,800
		19970530	635	970530	1200	.64	5.4	835	91,700
		19970610	50	970610	800	.9	7.2	224	162,000
		19971202	1105	971202	2230	.83	11.4	1240	114,000
		19980420	1705	980420	1940	.32	2.6	1810	28,000
		19981101	430	981101	1200	1.29	7.5	435	175,000
		19990308	834	990308	1300	.34	4.4	835	51,500
		19991030	327	991030	739	.51	4.2	345	40,400
		20000307	2216	308	700	.34	8.7	2225	27,700
		19971202	1300	971202	2400	.98	11.0	1309	1,930,000
		19980218	1830	980219	1430	.25	20.0	2009	2,860,000
19981109	2319	981110	1230	.11	13.2	5	7,460,000		
19981203	1515	981203	2226	.99	7.2	1635	7,020,000		
19990308	835	990308	1530	1.48	6.9	1010	75,300,000		
19990414	308	990414	1300	.51	9.9	359	6,620,000		
19991209	400	991209	1530	.2	11.5	641	935,000		
20000222	1915	223	1800	1.01	22.8	1946	2,220,000		
20000401	1305	401	1915	.42	6.2	1450	1,290,000		
20000411	1937	412	1203	.97	16.4	2021	13,200,000		
20000430	2252	501	557	1.24	7.1	2349	2,060,000		
19920324	1848	920324	2130	.58	2.7	2115	67062		
19920901	1217	920901	1318	.22	1.0	1227	11835		
19920910	1400	920910	1850	1.09	4.8	1516	97800		
19921015	1847	921015	1950	.48	1.1	1850	25062		
19921028	2340	921029	350	.54	4.2	231	46371		
19921119	25	921119	915	.97	8.8	615	152356		
8048542	Sycamore Creek at Scott Ave.								
8048545	Dry Branch Outfall at 33d St.								



**Table 8.** Selected characteristics of sampled storms, Dallas-Fort Worth area, Texas—Continued

Station no.	Station name	Start date	Start time	End date	End time	Total inches/storm	Elapsed time (hours)	Grab time	Runoff volume (ft <sup>3</sup> )
8048545—Continued		19921209	25	921209	245	0.31	2.3	55	34395
		19970224	1555	970224	2100	.33	5.1	1613	29,100
		19970302	730	970302	1130	.31	4.0	855	19,800
		19970403	1515	970404	330	.62	12.3	1920	87,300
		19970530	630	970530	1200	.5	5.5	752	43,300
		19970609	2150	970610	800	.98	10.2	208	158,000
		19971023	707	971023	1640	1.45	9.6	938	315,000
		19980811	1545	980811	1900	1.53	3.3	1730	49,000
		19981203	1442	981203	1822	.35	3.7	1546	7,700
		19990308	835	990308	1200	1.24	3.4	900	68,500
		19990913	14	990913	332	.67	3.3	137	90,000
		20000401	1303	401	1558	.35	2.9	1340	30,000
8048700	Eastern Hills High School Outfall at Weiler Dr.	19920417	526	920417	830	.39	3.7	650	44824
		19920514	1039	920514	1330	.7	3.1	1130	41303
		19920921	106	920921	400	.83	2.9	248	64658
		19921028	2330	921029	400	.38	2.9	245	27096
		19921119	20	921119	1030	.86	4.5	245	132000
		19921209	30	921209	350	.24	10.2	100	28277
		19930109	215	930109	815	.25	3.3	426	28141
		19970206	410	970206	1900	.89	6.0	745	132,000
		19970212	119	970212	710	1.14	14.8	518	245,000
		19970325	330	970325	1200	.65	5.9	540	88,500
		19970403	1540	970404	200	.33	8.5	1900	26,400
		19970509	130	970509	430	.53	10.3	203	63,000
		19971007	858	971007	1600	.41	3.0	917	33,200
		19981203	1450	981204	351	1.02	7.0	1550	127,000
		19990308	839	990308	1130	1.33	13.0	842	116,100
		19991218	106	991218	400	.3	2.9	145	24,000
		20000310	1012	310	1630	.36	2.9	1020	40,300
8048920	Deer Creek Outfall at I-35W	19940502	1655	940502	2000	.4	6.3	1709	13,500
		19940509	1220	940509	1700	.58	3.1	1235	30400
		19940821	120	940821	430	.3	4.7	250	9580
		19940831	1700	940831	1930	.74	3.2	1715	19800
		19941007	1500	941007	1800	.68	2.5	1530	36200
		19941102	2322	941103	230	.32	3.0	2330	16900
		19941109	525	941109	930	.36	3.1	640	17200
		19970206	600	970207	300	1.07	4.1	1030	65,800

**Table 8.** Selected characteristics of sampled storms, Dallas-Fort Worth area, Texas—Continued

Station no.	Station name	Start date	Start time	End date	End time	Total inches/storm	Elapsed time (hours)	Grab time	Runoff volume (ft <sup>3</sup> )
8048920	Continued	19970212	400	970212	1030	1.23	21.0	543	138,000
		19970312	1000	970312	1500	.59	6.5	1120	40,800
		19970325	410	970325	1200	.81	5.0	610	52,800
		19970403	1905	970404	330	.42	7.8	2150	14,300
		19971007	911	971007	1825	.59	8.4	1009	16,500
		19981218	1334	981218	2123	.51	5.5	1512	35,400
		19990318	1548	990319	400	.4	7.8	1837	16,400
		19990913	630	990913	935	.52	12.2	635	28,800
		20000310	1030	310	1630	.59	3.1	1027	39,700
		20000430	2332	501	329	.87	6.0	field only	49700
8049220	The Parks Mall Outfall at I-20W	19921028	2320	921029	530	.6	4.0	312	80629
		19921119	15	921119	1115	1.5	6.2	312	188727
		19921209	30	921209	400	.31	11.0	130	40417
		19930109	230	930109	1030	.39	3.5	350	43025
		19930128	1430	930128	2400	.42	8.0	1648	43527
		19930224	1450	930224	2030	.66	9.5	1543	57558
		19930311	1655	930312	400	.54	5.7	1745	58068
		19970509	210	970509	1000	.86	11.1	252	117,000
		19970515	955	970515	1330	.22	7.8	1030	28,000
		19970530	610	970530	1130	.42	5.6	725	54,200
		19971007	837	971007	1153	.77	5.3	1006	107,000
		19971202	1130	971202	2230	.8	3.3	1315	106,000
		19980111	1225	980111	1700	.63	11.0	1408	84,295
		19980330	1715	980330	2200	.55	4.6	1840	77,300
		19980911	1702	980912	1345	.2	4.8	1945	28,000
		19990308	911	990308	1100	1.5	20.7	905	201,000
		20000401	1332	401	1605	.16	3.8	1405	12,400
8049240	Rush Creek at Woodland Park Blvd.	19980210	900	980211	830	.17	2.6	1016	4,350,000
		19980218	1800	980219	1530	.27	23.5	2041	5,680,000
		19980221	1900	980222	1015	1.19	21.5	2010	30,000,000
		19980330	1620	980331	850	.64	15.3	2010	10,100,000
		19981203	1521	981204	1330	1.01	16.5	1740	15,600,000
		19990318	1832	990319	945	.26	22.2	not taken	6,300,000
		19990403	915	990403	2331	.68	15.2	1045	6,140,000
		19990426	810	990426	2148	.5	14.3	840	8,170,000
		19990707	1651	990707	2046		13.6	1847	bact/oil&gre

**Table 8.** Selected characteristics of sampled storms, Dallas-Fort Worth area, Texas—Continued

Station no.	Station name	Start date	Start time	End date	End time	Total inches/storm	Elapsed time (hours)	Grab time	Runoff volume (ft <sup>3</sup> )
8049240—Continued		20000107	1731	108	1600	1	3.9	1906	15,300,000
		20000222	2000	223	1400	1.15	22.5	2035	26,061,000
		20000411	2038	412	928	.61	18.0	41	5,600,000
		20000430	2341	501	1118	.85	12.8	13	7,660,000
		20000518	2322	519	840	.56	11.6	20	1,530,000
8049320	River Legacy Park Outfall at Green Oaks Blvd.	19921028	2345	921029	500	.29	9.3	334	59714
		19921209	40	921209	410	.28	15.3	110	38502
		19930109	232	930109	730	.27	3.5	712	41644
		19930128	1511	930128	2130	.24	5.0	1730	30966
		19930224	1455	930224	1945	.41	6.3	1545	70310
		19930311	1754	930312	230	.67	4.8	2250	109160
		19930328	725	930328	1225	.56	8.6	930	129320
		19970509	210	970509	900	.83	5.0	225	158,000
		19970530	540	970530	1000	.51	6.8	721	92,600
		19970622	545	970622	1000	.83	4.3	741	136,000
		19971007	859	971007	1340	.49	4.3	918	83,800
		19971202	1130	971202	2130	1.1	4.7	1312	214,000
		19980111	1215	980111	1800	.74	10.0	1435	319,000
		19980911	1709	980912	1340	.68	5.8	1902	62,800
		19990318	1034	990318	1310	.16	20.5	1055	18,500
		19991209	341	991209	600	.34	2.6	422	48,000
		20000430	2316	501	233	.68	2.3	2330	94,200
8049590	Bear Creek Outfall at Shady Grove Rd.	19920903	122	920903	323	.37	3.3	220	18850
		19920910	1345	920910	2022	.44	2.0	1345	23120
		19921007	1739	921007	1900	.2	6.6	1736	9506
		19921015	2020	921015	2125	.45	1.4	2025	14990
		19921119	122	921119	1125	.94	1.1	623	32499
		19930203	557	930203	1715	.92	10.1	1152	42718
		19930224	1400	930224	2000	.42	11.3	1615	13094
		19970709	1745	970709	2015	.28	6.0	1916	10,100
		19970903	1910	970903	2230	.78	2.5	2050	20,100
		19971007	945	971007	1505	.4	3.3	1011	8,140
		19971202	1330	971202	2230	.77	5.3	1412	28,000
		19980420	1705	980420	1950	.59	9.0	1843	26,400
		19980426	2120	980426	2320	.27	2.8	2134	16,600
		19980508	2300	980509	230	.48	2.0	20	27,700

**Table 8.** Selected characteristics of sampled storms, Dallas-Fort Worth area, Texas—Continued

Station no.	Station name	Start date	Start time	End date	End time	Total inches/storm	Elapsed time (hours)	Grab time	Runoff volume (ft <sup>3</sup> )
8049590	Continued	19990308	845	990308	1145	1.21	5.0	915	51,600
		19991030	402	991030	627	.45	3.0	437	18,200
		20000411	1830	411	2306	.53	2.4	2107	17,400
8049860	Mountain Creek Outfall at I-20	19931202	1532	931203	250	.59	4.6	1648	39600
		19940111	550	940111	900	.23	11.3	630	8530
		19940228	1800	940228	2045	.29	3.2	1848	19300
		19940308	1145	940308	1530	.2	2.8	1315	10500
		19940411	1320	940411	1510	.66	3.8	1400	21800
		19940509	1230	940509	1700	.56	1.8	1320	37600
		19940820	1820	940820	2000	.85	4.5	1853	20300
		19970903	1830	970903	2100	1.32	1.7	1951	30,700
		19971021	1250	971021	1630	.3	2.5	1334	6,430
		19971202	1400	971202	2300	.69	3.7	1530	38,300
		19980330	1720	980330	2200	.41	9.0	1930	12,100
		19981002	1149	981002	1315	.95	4.7	1235	26,600
		19981101	500	981101	820	1.29	1.4	630	70,200
		19990318	1513	990319	500	.37	4.0	1900	18,200
		19991209	450	991209	629	.57	13.8	450	17,700
		20000310	1046	310	1600	.74	1.7	1130	38,600
		20000430	2340			.99	5.2		42300
8055550	Cottonwood Branch Tributary Outfall at Sky Cir.	19990913	100	990913	400	.2	1.3	240	54,300
		19991209	349	991209	700	.31	1.8	415	104,000
		20000430	2311	501	105	1.11	5.0	5	360,000
		20000518	2222	519	30	.66	1.9	2235	181,000
		19931202	1652	931202	1910	.2	3.0	1825	7770
		19940111	142	940111	1000	.22	2.3	855	4700
		19940228	1828	940228	2200	.39	8.3	1900	11300
		19940308	1145	940308	1530	.32	3.5	1400	10200
		19940411	1327	940411	1545	.3	3.8	1335	8220
		19940509	1335	940509	1700	.23	2.3	1359	5400
		19940805	801	940805	930	.31	3.4	917	11000
		19980111	1250	980111	1730	.74	1.5	missing	29,011
		19990414	452	990414	503	.31	4.7	458	12,153
		19991204	617	991204	925	.35	.2	915	13700
8056390	Bastille Street Outfall at La Reunion Pkwy.	19920303	2031	920304	130	.58	3.1	30	93529
		19920309	145	920309	340	.56	5.0	326	85055
		19920419	1212	920419	1730	.25	1.9	1535	35825

**Table 8.** Selected characteristics of sampled storms, Dallas-Fort Worth area, Texas—Continued

Station no.	Station name	Start date	Start time	End date	End time	Total inches/storm	Elapsed time (hours)	Grab time	Runoff volume (ft <sup>3</sup> )
8056390—Continued		19920514	1235	920514	1430	0.49	5.3	1244	74700
		19920601	2000	920601	2400	.9	1.9	2227	151316
		19920606	250	920606	730	.49	4.0	713	84404
		19920727	1437	920727	1630	1.15	4.7	1540	160720
		19970509	345	970509	900	.52	2.4	428	92,502
		19970515	1025	970515	1330	.88	5.3	1032	147,000
		19970626	1455	970626	1815	.44	5.1	1520	78,271
		19970903	1800	970903	2300	1.08	3.3	1943	184,357
		19971128	640	971128	1040	1.18	5.0	745	162,000
		19971220	300	971220	1200	.79	4.0	1036	127,756
		19980610	1545	980610	1820	.67	9.0	1718	85,200
		19981005	1812	981006	830	1.23	2.6	1938	159,000
		19990308	932	990308	1130	1.76	14.3	1045	271,000
		20000107	1500	108	10	.32	2.0	1606	47600
8056450	Knights Branch Tributary at Cedar Springs Rd.	19971202	1400	971202	2300	.65	9.2	1530	839,000
		19971207	1215	971207	2200	1.1	9.0	1445	1,570,000
		19980121	1530	980121	1900	.26	9.8	1705	306,000
		19980508	2245	980509	300	.43	3.5	50	470,000
		19990206	2033	990207	100	.39	4.3	2100	641,000
		19990308	929	990308	1155	1.19	4.5	1010	1,766,014
		19990707	1643	990707	1900		4.2	1855	bact/oil&gre
		19991209	433	991209	703	.62	2.2	455	350,000
		19991217	2241	991218	500	.58	2.5	228	717,289
		20000127	623	127	1800	.25	6.3	1013	375,000
		20000411	1810	411	2045	.36	11.6	1830	336000
8057135	White Rock Creek Outfall at Preston Rd.	19920222	1139	920222	1618	.55	2.6	1735	87278
		19920324	1908	920324	2200	.52	4.7	2105	78087
		19920406	210	920406	530	.37	2.9	410	67903
		19921119	200	921119	1045	.76	3.3	645	142574
		19930109	245	930109	800	.41	8.8	450	77786
		19930119	1541	930120	130	.56	5.3	1919	91771
		19930210	427	930210	800	.22	9.8	455	38239
		19970403	1745	970404	130	.84	3.8	2216	177,000
		19970509	130	970509	830	.51	7.8	148	101,000
		19970530	555	970530	1030	.38	7.0	715	76,000
		19971128	530	971128	930	.65	4.6	720	138,000

**Table 8.** Selected characteristics of sampled storms, Dallas-Fort Worth area, Texas—Continued

Station no.	Station name	Start date	Start time	End date	End time	Total inches/storm	Elapsed time (hours)	Grab time	Runoff volume (ft <sup>3</sup> )
8057135	Continued	19971202	1345	971202	22	0.79	8.6	1405	157,617
		19990308	910	990308	1200	1.11	2.8	1004	233,369
		19991030	400	991030	654	.51	2.9	517	96,800
		20000411	1737	411	2100	.77	3.4	1912	150,000
8057441	Newton Creek Outfall at Tioga St.	19920222	118	920222	346	.7	2.5	1100	23730
		19920309	226	920309	345	.47	1.3	255	18739
		19920406	51	920406	630	.41	5.7	415	12054
		19920428	2355	920429	45	.3	.8	23	11511
		19920718	1413	920718	1544	.56	1.5	1425	16038
		19920901	1324	920901	1400	.34	.6	1354	10909
		19920921	155	920921	400	.91	2.1	355	32630
		19970411	755	970411	1100	.82	3.1	805	39,000
		19970509	310	970509	1115	.56	8.1	536	11,300
		19970705	1100	970705	1400	.54	3.0	1137	15,200
		19971202	1550	971202	2100	.67	5.2	1640	17,200
		19980210	845	980210	1330	.41	4.8	1000	7,440
		19980221	815	980221	2330	.42	15.3	2105	9,210
		19981129	2312	981130	10	.69	1.0	2335	23,600
		19991218	135	991218	400	.51	2.4	248	11,000
		20000310	1056	310	1340	.73	2.7	1127	20,400
8061515	Beck Branch Outfall at Wyngate Blvd.	19981109	2345	981110	300	.47	3.3	2358	29,400
		19981203	1737	981203	2050	.5	3.2	2046	20,900
		19981218	1354	981218	2125	1.07	7.5	1623	65,300
		19990128	1413	990128	1800	1.09	3.8	1615	59,500
		19990403	946	990403	1330	.56	5.7	1010	24,000
		19990414	506	990414	630	.26	1.4	536	18,400
		19991209	438	991209	637	.74	2.0	520	136,000
		20000107	1536	107	1912	.32	3.6	1720	50,900
		20000222	2145	223	500	1.04	7.3	2145	230,000
		20000411	1651	411	2055	1.29	4.1	1836	211,000
		20000518	2203	519	100	1.68	3.0	2215	254,000
		20000614	1558	614	1709	.43	1.2	1845	56,400
8061525	Spring Creek Outfall at Park Blvd.	19921209	100	921209	405	.53	3.1	200	39019
		19930128	1610	930128	2230	.28	6.3	1913	20080
		19930210	445	930210	815	.2	3.5	450	13481
		19930319	1333	930319	1835	.35	5.0	1443	22118

**Table 8.** Selected characteristics of sampled storms, Dallas-Fort Worth area, Texas—Continued

Station no.	Station name	Start date	Start time	End date	End time	Total inches/storm	Elapsed time (hours)	Grab time	Runoff volume (ft <sup>3</sup> )
8061525—Continued		19930403	2336	930404	200	0.46	2.4	15	36070
		19930414	610	930414	1030	.68	4.3	625	54057
		19930429	9	930429	500	1.27	4.9	145	93791
		19971202	1400	971202	2200	.81	8.0	1500	53,400
		19971207	1345	971207	2030	1.25	6.8	1616	88,600
		19980330	1830	980330	2330	.55	5.0	2001	29,800
		19980426	2102	980426	2230	.34	1.5	2146	17,200
		19980508	2100	980509	100	.6	4.0	2347	29,300
		19980527	245	980527	615	1	3.5	516	47,800
		19981005	1850	981005	2300	.27	4.2	2020	18,300
		19990308	920	990308	1100	1.25	1.7	1100	86,200
		19991122	1821	991122	2203	2.33	3.7	2050	173,000
		20000411	1715	411	2046	.61	3.5	1805	39,400
		20000518	2146	519	29	1.16	2.7	not taken	79,800
		20000614	1547	614	1900	1.12	3.2	not taken	88,900
8061545	Mills Branch Tributary at N. Fifth St.	19971202	1600	971202	2330	.79	7.5	1620	555,000
		19971207	1215	971207	2100	1.27	8.8	1606	922,000
		19980111	1315	980111	1800	1.21	4.8	1525	869,148
		19980508	2100	980509	230	.31	5.5	15	253,000
		19981017	1033	981017	1635	.26	6.0	1315	12,000
		19981129	2240	981130	400	.8	5.3	30	413,000
		19990403	941	990403	1400	.52	4.3	1032	382,000
		19990414	309	990414	648	.28	3.7	518	118,000
		19990913	30	990913	950	1.5	9.3	318	1,204,990
		19991122	1805	991122	2110	.6	3.1	1952	428,000
		19991204	711	991204	838		1.5	751	
		20000316	2115	317	328	.17	6.2	2148	191,000
		20000427	840	427	1200	.23	3.3	905	183,000
		20000518	2214	519	417	1.36	6.1	2305	1,000,000
		20000603	420				0		
8061635	Tributary to Duck Creek Outfall at Hightower Rd.	19920620	640	920620	1000	.39	3.3	930	33306
		19920812	1645	920812	1815	.34	1.5	1756	32495
		19920901	1328	920901	1530	.31	2.0	1430	30882
		19920921	150	920921	500	.8	3.2	430	88442
		19921015	2045	921015	2150	.93	1.1	2113	104590
		19921029	100	921029	545	.53	4.8	440	52073

**Table 8.** Selected characteristics of sampled storms, Dallas-Fort Worth area, Texas—Continued

Station no.	Station name	Start date	Start time	End date	End time	Total inches/storm	Elapsed time (hours)	Grab time	Runoff volume (ft <sup>3</sup> )		
8061635—Continued		19921119	235	921119	1230	0.54	9.9	605	64634		
		19970515	1035	970515	1330	.98	4.9	1115	108,536		
		19970530	725	970530	1200	.28	4.6	745	31,100		
		19970709	1745	970709	2200	.71	4.3	1915	78,633		
		19971202	1600	971202	2230	.71	6.5	1645	80,700		
		19971207	1215	971207	2100	1.1	8.8	1546	128,595		
		19980210	925	980210	1330	.35	4.1	1050	28,400		
		19980508	1130	980509	125	.67	13.9	1150	47,100		
		19981203	1813	981203	2048	.4	2.6	2046	42,500		
		19990403	936	990403	1300	.57	3.4	1049	58,600		
		19991122	1800	991122	2112	.78	3.2	2016	86,500		
		20000328	1925	328	2200	.89	2.6	1940	73,000		
		20000427	848	427	1119	.14	2.5	not taken	7200		
		8061850	North Mesquite Creek at Beltline Rd.	19981101	500	981101	1800	1.5	13.0	837	4,260,000
				19981129	2245	981130	1100	1.02	12.3	204	3,310,000
				19981218	1438	981219	1100	1.17	20.4	1820	5,590,000
				19990206	2054	990207	817	.12	11.4	2140	1,040,000
				19990308	959	990308	1530	1.54	5.5	1142	4,990,000
				19990403	1000	990403	1900	.76	9.9	1100	2,120,000
				20000107	1628	108	800	.65	15.5	1705	225,000
20000222	2200			223	1400	.57	16.0	2215	135,000		
20000614	1455			614	1822	.5	3.5	1715	133,000		
19930224	1406			930224	2010	.31	6.1	1625	28996		
8061910	South Mesquite Creek Outfall at I-635	19930319	1420	930319	1820	.5	4.0	1530	42078		
		19930328	1054	930328	1245	.21	1.9	1225	15550		
		19930403	1741	930404	145	.47	8.1	20	37673		
		19930429	10	930429	440	.79	4.5	105	87309		
		19930523	1327	930523	1545	.41	2.3	1505	37250		
		19930609	1943	930609	2100	.92	1.3	1945	86921		
		19970622	600	970622	900	.34	3.0	710	17,700		
		19971202	1600	971202	1930	.65	3.5	1610	45,900		
		19971207	1200	971207	2000	1.5	8.0	1516	119,000		
		19980111	1225	980111	1800	1	5.6	1450	79,500		
19980330	1900	980330	2330	0.45	4.5	2030	30,900				
19990128	1012	990128	1730	.43	7.3	1500	15,600				
19990308	954	990308	1130	1.56	1.6	1241	90,500				



**Table 8.** Selected characteristics of sampled storms, Dallas-Fort Worth area, Texas—Continued

Station no.	Station name	Start date	Start time	End date	End time	Total inches/storm	Elapsed time (hours)	Grab time	Runoff volume (ft <sup>3</sup> )
8061910	Continued	19990707	1600	990707	1810		2.2	1735	bact/oil&gre
		19990913	145	990913	415	.29	2.5	230	23,200
		20000411	1741	411	2251	.49	5.2	1755	76,900
<b>Discontinued sites</b>									
8047100	Clear Fork Trinity River Outfall at Oak Hill Cr.	19920222	1213	920222	1647	.55	4.6	1430	23844
		19920309	40	920309	350	.73	3.2	0045	38927
		19920405	2340	920406	500	.3	5.3	0245	18402
		19920428	2130	920428	2300	.43	1.5	2204	20008
		19920606	232	920606	510	.41	2.7	0440	22528
		19920621	800	920621	1230	.52	4.5	0943	24831
		19920812	1532	920812	1800	.22	2.5	1558	12316
8048510	West Fork Trinity River Outfall at Highway 121	19920309	40	920309	800	.61	4	0140	173825
		19920324	1904	920324	2330	.2	4.4	2030	40842
		19920514	1130	920514	1500	.53	3.5	1140	119554
		19920606	230	920606	600	.51	3.5	0415	97935
		19920621	930	920621	1230	.4	3	0943	55533
		19920818	1450	920819	100	.32	10.2	2015	35250
		19921028	2320	921029	700	.39	7.7	0246	74528
8049360	Tributary to West Fork Trinity River Outfall at Baird's Farm Rd.	19921029	5	921029	425	.49	4.3	0356	55952
		19921119	100	921119	1100	1.18	10	0415	175042
		19930203	552	930203	1435	.44	8.7	1150	47237
		19930210	346	930210	800	.19	4.2	0410	15660
		19930311	1806	930312	130	.53	7.4	2320	29811
		19930328	739	930328	1130	.5	3.8	0951	52563
		19930414	624	930414	710	.31	.8	0628	30274
8049470	Tributary to Johnson Creek Outfall at I-30 East	19921209	45	921209	400	.3	3.2	0200	61053
		19930109	250	930109	820	.24	5.5	0545	50678
		19930119	1540	930119	2340	.25	7.9	1735	54917
		19930210	357	930210	820	.2	4.4	0445	39897
		19930224	1433	930224	2030	.43	6	1615	109113
		19930311	1750	930312	400	.42	10.2	2220	104062
		19930328	530	930328	1230	.39	7	0955	84419
8049950	Fish Creek Outfall at I-20	19940228	1807	940301	217	0.56	4.2	1818	13100
		19940308	1145	940308	1630	.27	4.8	1250	4834
		19940509	1250	940509	1700	.44	4.2	1313	10400

**Table 8.** Selected characteristics of sampled storms, Dallas-Fort Worth area, Texas—Continued

Station no.	Station name	Start date	Start time	End date	End time	Total inches/storm	Elapsed time (hours)	Grab time	Runoff volume (ft <sup>3</sup> )
8049950—Continued		19941007	1525	941007	1800	1.11	3	1535	32200
		19941024	1335	941024	1635	.5	3	1345	14400
		19941102	2322	941103	230	.83	3.9	0045	27400
		19941109	707	941109	1000	.44	2.9	0740	11300
8055570	Hereford Rd. Outfall at Walnut Hill Ln.	19920824	2035	920824	2306	.35	2.5	2220	38512
		19920903	120	920903	340	.26	2.3	340	27225
		19921007	1720	921007	1910	.67	1.8	1725	69344
		19921015	2010	921015	2110	1.04	1	2010	125812
		19921110	1315	921110	1900	.23	5.8	1748	25175
		19921209	50	921209	420	.42	3.5	0227	56870
		19930109	240	930109	800	.37	5.3	646	47334
8055590	Joe's Creek Outfall at Denton Dr.	19920303	2037	920304	130	.83	4.9	—	25721
		19920317	1600	920317	2330	.3	7.5	2250	7294
		19920417	1400	920417	1700	.35	3	1557	10703
		19920606	239	920606	730	.64	4.8	0730	19697
		19920620	639	920620	1000	.26	3.4	0820	6255
		19920727	1721	920727	2000	.47	2.6	1846	13232
		19920921	140	920921	400	.53	3.3	0241	15407
8056100	Tributary to Elm Fork Trinity River Outfall at Cascade St.	19920921	128	920921	515	.78	3.8	0200	68724
		19921007	1730	921007	1930	.61	2	1820	49402
		19921028	2335	921029	535	.45	6	0340	36632
		19921119	115	921119	1130	.75	10.2	0545	76192
		19921209	40	921209	500	.32	4.3	0223	29030
		19930109	230	930109	800	.29	5.9	0602	23357
		19930128	1504	930128	2400	.33	8.9	1725	20980
8061510	Ash Creek Outfall at Whittier St.	19920212	1610	920212	1900	.4	2.8	1830	17073
		19920222	1129	920222	2100	.77	9.5	1200	40081
		19920317	1700	920318	230	.56	9.5	2015	32603
		19920406	120	920406	630	.61	5.2	0618	21944
		19920514	1200	920514	1430	.48	2.5	1355	16819
		19920606	252	920606	650	.72	4	0652	34203
		19920921	142	920921	400	.98	2.5	0330	34650
8061510	Rowlett Creek Outfall at Willow Creek Park	19921209	100	921209	405	.53	3.1	0237	35886
		19930109	310	930109	810	.49	5	0555	36156
		19930128	1450	930128	2230	0.3	7.7	1942	20732
		19930210	441	930210	820	.2	3.6	0500	15277

**Table 8.** Selected characteristics of sampled storms, Dallas-Fort Worth area, Texas—Continued

Station no.	Station name	Start date	Start time	End date	End time	Total inches/storm	Elapsed time (hours)	Grab time	Runoff volume (ft <sup>3</sup> )
8061510	Continued	19930319	1330	930319	1900	.41	5.5	1450	32646
		19930403	2335	930404	215	.47	2.7	0010	40950
		19930414	630	930414	1100	.83	4.5	0643	71815
8061530	Spring Creek Outfall at Avenue F	19930109	310	930109	810	.46	7	0635	69841
		19930128	1618	930128	2400	.26	7.7	1908	40401
		19930224	1454	930224	2215	.47	7.3	1620	74593
		19930319	1345	930319	1930	.36	5.8	1515	50518
		19930403	2340	930404	245	.47	3	2345	65298
		19930414	635	930414	1600	.77	7.4	0717	120264
		19930609	1948	930609	2300	1.38	3.2	1950	190440
8061660	Sleepy Hollow St. Outfall at Northwest Highway	19920901	1340	920901	1500	.39	1.3	1454	18823
		19920921	155	920921	410	.89	2.2	0345	45800
		19921007	1752	921007	2020	.34	2.5	1841	14978
		19921110	1330	921110	1900	.56	5.5	1430	21035
		19921119	330	921119	1220	.56	8.8	0530	20845
		19930109	335	930109	800	.34	7.4	0545	14224
		19930123	1801	930123	2030	.34	2.4	1856	25355
8061690	I-635 Outfall at Centerville Rd.	19920901	1330	920901	1500	.22	1.5	1402	44325
		19921007	1750	921007	2000	.26	2.2	1910	32717
		19921015	2049	921015	2155	.81	1.1	2135	73398
		19921110	1420	921110	1845	.28	4.4	1647	30761
		19921119	230	921119	1220	.55	9.8	510	67375
		19930109	300	930109	815	.3	5	530	36868
		19930123	1806	930123	2030	.36	2.5	1908	45625
8061915	South Mesquite Creek Outfall at South Parkway	19930311	1630	930312	130	.31	9	1745	15040
		19930328	1041	930328	1335	.2	2.9	1204	12279
		19930403	1731	930404	230	.51	9	0040	45875
		19930518	1436	930518	1533	.27	1	1445	17847
		19930523	1302	930523	1600	.44	3	1453	33301
		19930609	1935	930609	2045	.84	1.2	1943	52297
		19930625	1915	930625	2300	.58	3.8	1940	50014
		19930210	447	930210	830	.21	3.7	0518	7268
		19930224	1637	930225	30	.49	7.9	1653	26923
		19930319	1400	930319	1840	.4	4.7	1511	18056
		19930403	1718	930403	1930	0.35	2.2	1842	13304
		19930414	700	930414	1020	1.07	3.1	0705	74506

**Table 8.** Selected characteristics of sampled storms, Dallas-Fort Worth area, Texas—Continued

Station no.	Station name	Start date	Start time	End date	End time	Total inches/storm	Elapsed time (hours)	Grab time	Runoff volume (ft <sup>3</sup> )
8061915—Continued		19930429	20	930429	500	.78	4.6	0410	34420
		19930523	1333	930523	1953	1.3	6.3	1549	77398
<b>Exclude</b>	<b>Events</b>								
8048542	Sycamore Creek at Scott Ave.	19971220	600	971220	1400	.7	8.0	948	2,460,000
		19981218	1227	981219	1100	.67	22.6	1538	1,350,000
		19990403	434	990403	2054	1.38	16.3	540	32,700,000
		20000107	1456	108	1614	1.03	13.3	1706	12,200,000
8048920	Deer Creek Outfall at I-35W	19980527	130	980527	700	1.86	9.2	337	78,830
8049220	The Parks Mall Outfall at I-20W	19991030	356	991030	745	.48	1.8	505	41,300
8061850	North Mesquite Creek at Beltline Rd.	20000127	722	128	508	.63	21.8	1045	139,000
8061545	Mills Branch Tributary at N. Fifth St.	19981101	600	981101	900	1.56	3.0	706	711,000
		19990318	1848	990319	400	.25	9.2	1925	200,000
8061525	Spring Creek Outfall at Park Blvd.	19980221	1915	980221	2330	.53	4.3	2150	30,300
8057441	Newton Creek Outfall at Tioga St.	19990308	955	990308	1100	1.56	1.1	1010	63,200
8057135	White Rock Creek Outfall at Preston Rd.	19980210	905	980210	1330	.16	4.4	1120	32,200
		19981129	2210	981130	130	.84	3.3	2230	176,604
8049590	Bear Creek Outfall at Shady Grove Rd.	19981002	1000	981002	1500	1.43	3.5	1142	22,400
8049860	Mountain Creek Outfall at I-20	19981129	2233	981130	230	1.28	3.3	2306	77,200
8055550	Cottonwood Branch Tributary Outfall at Sky Cir.	19990318	1604	990318	2000	.16	0	1600	47,200
		19990403	851	990403	1130	.6	3.9	855	205,000
		19990414	422	990414	542	.39	2.7	428	90,300
		19991204	752	991204	940	.2	3.0	850	60,500
		20000411	1756	411	2255	1.01	3.2	1910	318,000
		20000614	1750	614	2048	.4	2.1	1858	113,000
8056450	Knights Branch Tributary at Cedar Springs Rd.	19990318	1523	990318	2200	.37	2.4	1706	451,000
		19990403	920	990403	1330	.73	6.6	925	1,062,000
		19991204	600	991204	811	.3	2.3	630	75,900

**Table 9.** Municipal stormwater sites for Network Alternative 1, Dallas-Fort Worth, Texas, municipal stormwater networks

[USGS, U.S. Geological Survey; TxDOT, Texas Department of Transportation]

USGS station no.	Station name	City or TxDOT district	Site land-use characterization	Drainage area (acres)	No. of samples		
					Scheduled Sept.-Feb.	Scheduled Mar.-Aug.	Scheduled 5-year
Current sites							
08048505	Pylon Street Outfall at Meacham Rd.	Fort Worth	Industrial	151	2	1	15
08048542	Sycamore Creek at Scott Ave.	Fort Worth	Mixed	21,760	2	1	15
08048545	Dry Branch Outfall at 33d St.	Fort Worth	Industrial	73.7	2	1	15
08048700	Eastern Hills High School Outfall at Weiler Dr.	Fort Worth	Residential	151	2	1	15
08048920	Deer Creek Outfall at I-35W	TxDOT Fort Worth	Highway	63.1	2	1	15
08049220	The Parks Mall Outfall at I-20W	Arlington	Commercial	38.8	2	1	15
08049240	Rush Creek at Woodland Park Blvd.	Arlington	Mixed	17,024	2	1	15
08049320	River Legacy Park Outfall at Green Oaks Blvd.	Arlington	Residential	160	2	1	15
08049590	Bear Creek Outfall at Shady Grove Rd.	Irving	Residential	65.3	2	1	15
08055550	Cottonwood Branch Tributary Outfall at Sky Cir.	Irving	Mixed	127.7	2	1	15
08056390	Bastille Street Outfall at La Reunion Pkwy.	Dallas	Industrial	49.5	2	1	15
08056450	Knights Branch Tributary at Cedar Springs Rd.	Dallas	Mixed	486.4	2	1	15
08057135	White Rock Creek Outfall at Preston Rd.	Dallas	Commercial	59.1	2	1	15
08057441	Newton Creek Outfall at Tioga St.	Dallas	Residential	38.9	2	1	15
08061515	Beck Branch Outfall at Wyngate Blvd.	Plano	Undeveloped	70.4	2	1	15
08061525	Spring Creek Outfall at Park Blvd.	Plano	Commercial	22.7	2	1	15
08061545	Mills Branch Tributary at N. Fifth St.	Garland	Mixed	268.8	2	1	15
08061635	Tributary to Duck Creek Outfall at Hightower Rd.	Garland	Industrial	33.9	2	1	15
08061850	North Mesquite Creek at Beltline Rd.	Mesquite	Mixed	2,500	2	1	15
08061910	South Mesquite Creek Outfall at I-635	Mesquite	Commercial	45.9	2	1	15
New site							
--	--	TxDOT Dallas	Highway	--	3	3	30

**Table 10.** Municipal stormwater sites for Network Alternative 2, Dallas-Fort Worth, Texas, municipal stormwater networks

[USGS, U.S. Geological Survey; TxDOT, Texas Department of Transportation]

USGS station no.	Station name	City or TxDOT district	Predominant land use	Drainage area (acres)	No. of samples		
					Scheduled Sep-Feb	Scheduled Mar-Aug	Scheduled 5-year
Current sites							
08048505	Pylon Street Outfall at Meacham Rd.	Fort Worth	Industrial	151	2	1	15
08048542	Sycamore Creek at Scott Ave.	Fort Worth	Mixed	21,760	2	1	15
08048700	Eastern Hills High School Outfall at Weiler Dr.	Fort Worth	Residential	151	2	1	15
08048920	Deer Creek Outfall at I-35W	TxDOT Fort Worth	Highway	63.1	2	1	15
08049220	The Parks Mall Outfall at I-20W	Arlington	Commercial	38.8	2	1	15
08049240	Rush Creek at Woodland Park Blvd.	Arlington	Mixed	17,024	2	1	15
08049320	River Legacy Park Outfall at Green Oaks Blvd.	Arlington	Residential	160	2	1	15
08049590	Bear Creek Outfall at Shady Grove Rd.	Irving	Residential	65.3	2	1	15
08055550	Cottonwood Branch Tributary Outfall at Sky Cir.	Irving	Mixed	127.7	2	1	15
08056390	Bastille Street Outfall at La Reunion Pkwy.	Dallas	Industrial	49.5	2	1	15
08056450	Knights Branch Tributary at Cedar Springs Rd.	Dallas	Mixed	486.4	2	1	15
08057441	Newton Creek Outfall at Tioga St.	Dallas	Residential	38.9	2	1	15
08061515	Beck Branch Outfall at Wyngate Blvd.	Plano	Undeveloped	70.4	2	1	15
08061525	Spring Creek Outfall at Park Blvd.	Plano	Commercial	22.7	2	1	15
08061545	Mills Branch Tributary at N. Fifth St.	Garland	Mixed	268.8	2	1	15
08061635	Tributary to Duck Creek Outfall at Hightower Rd.	Garland	Industrial	33.9	2	1	15
08061850	North Mesquite Creek at Beltline Rd.	Mesquite	Mixed	2,500	2	1	15
08061910	South Mesquite Creek Outfall at I-635	Mesquite	Commercial	45.9	2	1	15
New site							
--	--	TxDOT Dallas	Highway	--	3	3	30

**Table 11.** Municipal stormwater sites for Network Alternative 3, Dallas-Fort Worth, Texas, municipal stormwater networks

[USGS, U.S. Geological Survey; TxDOT, Texas Department of Transportation]

USGS station no.	Station name	City or TxDOT district	Predominant land use	Drainage area (acres)	No. of samples		
					Scheduled Sep-Feb	Scheduled Mar-Aug	Scheduled 5-year
Current sites							
08048542	Sycamore Creek at Scott Ave.	Fort Worth	Mixed	21,760	2	1	15
08048700	Eastern Hills High School Outfall at Weiler Dr.	Fort Worth	Residential	151	2	1	15
08048920	Deer Creek Outfall at I-35W	TxDOT Fort Worth	Highway	63.1	2	1	15
08049220	The Parks Mall Outfall at I-20W	Arlington	Commercial	38.8	2	1	15
08049240	Rush Creek at Woodland Park Blvd.	Arlington	Mixed	17,024	2	1	15
08049320	River Legacy Park Outfall at Green Oaks Blvd.	Arlington	Residential	160	2	1	15
08049590	Bear Creek Outfall at Shady Grove Rd.	Irving	Residential	65.3	2	1	15
08055550	Cottonwood Branch Tributary Outfall at Sky Cir.	Irving	Mixed	127.7	2	1	15
08056390	Bastille Street Outfall at La Reunion Pkwy.	Dallas	Industrial	49.5	2	1	15
08056450	Knights Branch Tributary at Cedar Springs Rd.	Dallas	Mixed	486.4	2	1	15
08057441	Newton Creek Outfall at Tioga St.	Dallas	Residential	38.9	2	1	15
08061515	Beck Branch Outfall at Wyngate Blvd.	Plano	Undeveloped	70.4	2	1	15
08061525	Spring Creek Outfall at Park Blvd.	Plano	Commercial	22.7	2	1	15
08061545	Mills Branch Tributary at N. Fifth St.	Garland	Mixed	268.8	2	1	15
08061850	North Mesquite Creek at Beltline Rd.	Mesquite	Mixed	2,500	2	1	15
Discontinued site							
08061660	Sleepy Hollow St. Outfall at Northwest Highway	Garland	Residential	67.3	2	1	15
New sites							
--	--	Fort Worth	Industrial	--	3	3	30
--	--	Mesquite	Undeveloped	--	3	3	30
--	--	TxDOT Dallas	Highway	--	3	3	30