

**Analysis of Metals in Water, Stream Sediments and Floodplain Soils
Collected March 16-18, 2004 and October 1-2, 2004
from the Bayou Creek System**

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DRAFT REPORT

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INTRODUCTION

This report comprises two collection events, March 16-18, 2004 and October 1-2, 2004. These two collection dates are representative of high-flow and low-flow stream conditions, respectively. Water, stream sediments, and floodplain soils were collected for metal analyses from Big and Little Bayou Creeks. Water samples were taken from 10 stations on Big Bayou Creek (stations BB1A through BB9); five stations from Little Bayou Creek (stations LB1 through LB4); and effluents 001, 006, 008 and 010+011. The reference station at the west fork of Massac Creek (MC) also was sampled for water, stream sediments, and floodplain soils during the March 2004 collection. Due to low-flow conditions (*i.e.* lack of water) during the October 2004 sampling, stations MC and LB1 were not collected. Two sediment samples per station were collected for metal assays. A total of 30 metals (*i.e.* Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, V, and Zn) were determined for each sample.

METHODS

Water Collection

Samples for water quality measurements were collected in 1-L "Cubitainer" receptacles and were placed on ice until delivery to the laboratory. Water samples for metal assays were collected in acid-cleaned 250-mL polyethylene bottles. Samples were preserved with concentrated HNO₃ upon collection and analyzed for total recoverable (TR) metals.

Sediments and Floodplain Soils Collection

Stream sediment samples were restricted to the upper 5-10 cm of sediment soil, including depositional areas when found. Floodplain soils were collected within 10 m of the shoreline (5-10 cm deep) in areas where flood debris was present. Any surface vegetation was removed prior to sampling floodplain soils. All sediment and floodplain samples were collected in acetone-rinsed 0.47 L glass jars with Teflon-lined lids. Stainless steel spoons and scoops used for collections were acetone-rinsed between sampling stations.

Water Quality

On-site water quality measurements, which included temperature, pH, dissolved oxygen, and conductivity, were taken with a YSI 650 MDS meter and a YSI 600 QS multi-parameter sonde. Alkalinity and hardness were measured according to procedures described by APHA (1995), for bromocresol green-methyl red titrimetric and EDTA titrimetric procedures, respectively.

Metal Digestions and Determinations

Acidified water samples were analyzed directly for total recoverable (TR) metals. Sediment and floodplain soil samples were digested according to procedures described in EPA Method 3050B (U.S. EPA, 1997), ASTM Method D 3974-81 (ASTM, 1989), and previously described by Birge and Price (2001). Metal analysis was performed, as described by U.S. EPA (1997), using a Varian Vista-MPX simultaneous Inductively Coupled Plasma-Optical Emission Spectrophotometer (ICP-OES) and a Varian Model Spectra AA-20 graphite furnace Atomic Absorption Spectrophotometer (AAS). All gases used were ultra pure carrier grade. Calibration curves were based on at least five standards. Instrument blanks (0.5% HNO₃) and check standards were processed with all

samples. Sample concentrations were then corrected for deviations from the standards and sample weights were factored into the calculations of final values.

Quality Assurance

Permanent bench records were kept of all assays and annotated as required under Good Laboratory Practices (*Federal Register*, 1989). All printouts and graphic recordings were filed and are open for inspection. These bench records will be archived within two years after the close of the project but retrievable upon request. Chain of Custody was maintained for all samples collected.

RESULTS

General Water Quality

The results for general water quality parameters for the March and October 2004 collections are given in Tables 1 and 2, respectively. Overall, temperature, pH, and dissolved oxygen were within expected parameters. The pH for Big Bayou Creek ranged from 7.09 to 9.10 during March and from 7.24 to 8.19 during October. The pH for Little Bayou Creek ranged from 7.21 to 8.35 during March and from 7.03 to 7.38 during October. Dissolved oxygen for Big Bayou Creek ranged from 10.32 to 17.57 mg/L and from 7.60 to 12.03 mg/L for March and October, respectively. Conductivity was highest at stations BB6 through BB9 for both collection periods. As reported previously, this likely was due to the increased conductivity from effluents 001 and 008. In Little Bayou Creek, conductivity ranged from 173 to 479 $\mu\text{S}/\text{cm}$ in March and from 230 to 528 $\mu\text{S}/\text{cm}$ in October. Conductivity was highest at station LB2A for both collection dates. Alkalinity was in the low to moderate range for both dates and varied

from 40 to 160 mg CaCO₃/L in Big Bayou Creek and 40 to 220 mg CaCO₃/L in Little Bayou Creek. Hardness ranged from 40 to 164 mg CaCO₃/L and 72 to 100 mg CaCO₃/L for Big and Little Bayou Creeks, respectively. As observed in the past, hardness levels were highest for stations BB6 through BB9, due to elevated hardness from effluent 001.

Metals in Stream Water

A. Big Bayou Creek

Metal concentrations in water samples from Big Bayou Creek collected in March are presented in Table 3. Mean metal concentrations in water samples from Big Bayou Creek collected in October are presented in Table 4 and individual assay results are shown in the Appendix (Table A1). Comparisons between water, sediment, and floodplain soil concentrations in Big Bayou Creek are represented graphically in Figures 1 through 20. Silver concentrations in water collected in March ranged from 0.15 to 0.47 µg/L and was highest at station BB6 (Figure 1). Silver concentrations in water collected in October ranged from 0.44 to 2.14 µg/L and was highest at station BB7 (Figure 3). Aluminum was fairly constant in Big Bayou Creek, however, lower values were detected in March as compared to October. During March, Beryllium was only detected at stations BB6 through BB9 and ranged from 0.56 to 0.76 µg/L. Beryllium was not detected at any of the stations from Big Bayou Creek in October. Cadmium only was found at stations BB2A, BB6, BB7, and BB8 in March, whereas it was detected at almost all stations in October and it was highest for station BB3 (3.43 µg/L). Copper ranged from 1.72 to 3.25 µg/L and from 1.21 to 22.01 µg/L for March and October, respectively (Figures 5 and 7). Copper was highest for station BB6 in March and for station BB4 in October. Ranges for iron concentrations were 206.4-580.9 and 179.3-2720.2 µg/L for March and October, respectively (Figures 9 and

11). Nickel ranged from 1.00 to 2.39 $\mu\text{g/L}$ in March and was highest at station BB6 (Figure 13). However, in the October collection, Ni was only detected at station BB4 (5.35 $\mu\text{g/L}$; Figure 15). For March, lead was detected at stations BB1A, BB3, BB5, BB6, and BB7, and for October Pb was observed at stations BB2A, BB4, and BB5. In October, the Pb concentrations at BB4 and BB5 ($\mu\text{g/L}$) were 10.7 and 13.3, respectively (Table 4). Concentrations for Sr were highest at stations BB6 through BB9 for March and October collections, but was found at most all stations. There was little variation between the two collection periods and values were rather high at BB6-BB9, ranging ($\mu\text{g/L}$) from 150.7 to 156.4 in March and from 140.6 to 146.8 in October. The background concentration was ≤ 60 $\mu\text{g/L}$ for this toxic element. Concentrations for Zinc in water samples collected in March ranged from 1.03 to 6.14 $\mu\text{g/L}$ and were highest at station BB6 (Figure 17). Concentrations for Zn in October ranged from 4.66 to 29.27 $\mu\text{g/L}$ and were highest at station BB4 (Figure 19). As, Co, Cr, Sb, Se, and Sn were not detected at any of the stations sampled in Big Bayou Creek during either collection.

B. Little Bayou Creek and Effluents

Metal concentrations in water samples from Little Bayou Creek collected in March are presented in Table 5. Mean metal concentrations in water samples from Big Bayou Creek collected in October are presented in Table 6 and individual results are shown in Table A2. Comparisons between water, sediment, and floodplain soil concentrations in Little Bayou Creek are represented graphically in Figures 21 through 32. Concentrations for Ag ranged from 0.15 to 0.40 $\mu\text{g/L}$ and from 0.35 to 1.14 $\mu\text{g/L}$ for March and October, respectively (Figures 21 and 23). Aluminum was higher during the October collection as compared to assays for March. Cadmium was highest at station LB2A (0.40 $\mu\text{g/L}$) in March

and at stations LB2A and LB2 (0.31 and 0.62 µg/L) in October. During March, Cu ranged from 1.36 to 1.94 with highest levels at LB2 (Figure 25), whereas during October Cu ranged from 2.18 to 2.66 with highest levels at LB3 (Figure 27). The range for Ni concentrations in March was 1.15-1.89 µg/L. However, Ni was not detected at any of the stations in October. For March, Zn concentrations ranged from 3.93 to 30.70 µg/L with the highest values for LB1 (Figure 29). During October, Zn concentrations ranged from 3.47 to 5.94 µg/L and were highest at LB2 (Figure 31). Zn showed similar downstream trends for both March and October (Figures 29-32). As, Co, Cr, Mo, Sb, Se, and Sn were not detected at any of the stations sampled in Little Bayou Creek for either collection. Metal concentrations in water samples from effluents 001, 006, 008, and 010+011 also are presented in Tables 5, 6 and A2. During March, effluent 001 had the highest concentrations of B, Ba, Be, Ca, Cd, Cu, K, Li, Mg, Mn, Na, Si, Sr, and Ti; effluent 006 was highest for Al, Fe, and Pb; effluent 008 was highest for P and Tl; and effluent 010+011 was highest for Ag and Zn. During October, effluent 001 had the highest concentrations of Ag, Al, B, Ba, Ca, K, Li, Mg, Mn, Na, Pb, Si, and Sr; effluent 006 was highest for Cd and Fe; and effluent 008 was highest for Cu, Mo, P and Zn.

Metals in Sediments and Floodplain soils

A. Big Bayou Creek Sediments

Results for metal concentrations of individual assays of sediments from Big Bayou Creek collected March and October are given in Tables B1 and B2, respectively. Mean metal concentrations for March and October are given in Tables 7 and 8, respectively. Graphical comparisons between water, sediment, and floodplain soil concentrations in Big Bayou Creek are shown in Figures 1 through 20. For March, silver concentrations in

sediments ranged from 0.070 to 0.112 $\mu\text{g/g}$ (Figure 1), and for October, Ag ranged from 0.009 to 0.048 $\mu\text{g/g}$ (Figure 3). Copper had the highest values at station BB9 during both collections (Figures 5-8). An increasing trend in sediment Cu was evident during the high-flow conditions in March as compared with concentrations obtained in October. As with Cu, concentrations of sediment Ni were highest at BB9 for both dates (Figures 13-16). Sediment Ni ranged from 2.11 to 7.63 $\mu\text{g/g}$ in March and from 2.01 to 5.39 $\mu\text{g/g}$ in October. Highest sediment metal concentrations were detected at station BB1 for As, Be, Cd, Mo, Pb, Ti, and V for both dates. Selenium was not found during the March collection, however, Se was detected in October with station BB1 having the highest concentration. Sediment Fe also was highest at BB1, with concentrations doubling in October (Figures 9-12). For March, sediment Zn ranged from 5.18 to 38.01 $\mu\text{g/g}$ (Figure 17) and for October, sediment Zn ranged from 46.29 to 72.70 $\mu\text{g/g}$ (Figure 19). Zinc sediment concentrations varied little from station BB1 through BB9. Results suggest possible source(s) of metal contamination at BB1. For this and other reasons, BB1A located further upstream was selected as a reference site.

B. Little Bayou Creek Sediments

Results for metal concentrations of individual assays of sediments from Little Bayou Creek collected March and October are given in Tables B3 and B4, respectively. Mean metal concentrations for March and October are given in Tables 9 and 10, respectively. Graphical comparisons between water, sediment, and floodplain soil concentrations in Big Bayou Creek are shown in Figures 21 through 32. Sediment Ag in March ranged from 0.065 to 0.084 $\mu\text{g/g}$ and was highest at LB3 (Figure 21), whereas, in October sediment Ag ranged from 0.004 to 0.016 $\mu\text{g/g}$ and was highest for stations LB2 and LB3 (Figure

23). Sediment Cu ranged from 3.92 to 9.80 µg/g in March and from 2.73 to 8.03 µg/g in October (Figures 25 and 27). Highest levels of Cu were found at stations LB1 and LB3 in March and at LB3 in October. Sediment Ni concentrations ranged 3.18-6.73 µg/g for March and 1.43-7.20 µg/g in October. Sediment Ni was highest at station LB1 in March and at station LB3 in October. In March, Zn ranged from 19.17 to 142.99 µg/g and in October from 67.42 to 94.35 µg/g (Figures 29 and 31). As with sediment Ni, Zn was highest at station LB1 in March and LB3 in October. Station LB3 had peak metal concentrations for As, Ba, Be, Cd, Cr, Fe, Mn, Mo, Pb, Sb, Sn, and V for both March and October collections.

Results for effluents 001, 006, 008, and 010+011 are presented in Tables 9, 10, B3, and B4. During March, effluent 001 had the highest concentrations of Ba, Be, K, Mg, and Na; effluent 006 was highest for As, Mn, and Ti; effluent 008 was highest for Ag, Al, Ca, Cd, Cr, Cu, Fe, Mo, Ni, Pb, Sb, Sn, Ti, V, and Zn; and effluent 010+011 was highest for Co and Sr. During October, effluent 001 had the highest concentrations of Ba, Cu, Mg, and Zn; effluent 006 was highest for Ag, Ca, Li, Mn, Na, Ni, Sr, Ti, and Ti; effluent 008 was highest for Al, B, Be, Cd, Fe, Mo, P, Pb, Sb, Si, and V; effluent 010+011 was highest for Be, Co, Cr, K, Se, and Sn. Effluents 001, 006, and 008 appeared to be the primary sources of metal contamination in Big Bayou creek, whereas 010+011 did not contribute appreciable amounts of the more toxic metals in Little Bayou creek (e.g. Ag, Cd, Cu, and Zn).

C. Big Bayou Creek Floodplain Soils

Results for metal concentrations of individual assays of floodplain soils from Big Bayou Creek collected March and October are given in Tables C1 and C2, respectively. Mean metal concentrations for March and October are given in Tables 11 and 12,

respectively. Graphical comparisons between water, sediment, and floodplain soil concentrations in Big Bayou Creek are shown in Figures 1 through 20. For March, floodplain soil Ag concentrations ranged from 0.07 to 0.11 $\mu\text{g/g}$ (Figure 2), and for October Ag ranged from 0.02 to 0.05 $\mu\text{g/g}$ (Figure 4). Highest floodplain soil Ag was detected at station BB7 for both dates. Ranges for Be were 0.17-0.58 $\mu\text{g/g}$ and 0.24-0.37 $\mu\text{g/g}$ for March and October, respectively. Copper peaked at station BB2 in March, with a range of 2.73-7.35 $\mu\text{g/g}$ (Figure 6), while Cu peaked at station BB6 in October with a range of 2.41-8.75 $\mu\text{g/g}$ (Figure 8). Floodplain Fe was fairly constant (Figures 10 and 12). Ranges for floodplain soil Ni did not vary between March and October, with values of 2.74-8.67 $\mu\text{g/g}$ and 2.85-7.57 $\mu\text{g/g}$ (Figures 14 and 16). Lead ranged from 10.20 to 23.70 $\mu\text{g/g}$ in March, however, Pb concentrations were higher in October with values ranging from 40.59 to 64.29 $\mu\text{g/g}$ and peaking at station BB7. Overall, Pb values did not vary significantly among stream stations, indicating that the values likely were at or near background. However, there was a trend for higher Pb values at BB7. It appears that Pb contamination resulted primarily from effluents (e.g. 001). Floodplain V did not vary between March and October, with values ranging 7.49-28.47 $\mu\text{g/g}$ and 9.15-18.81 $\mu\text{g/g}$, respectively. In March, floodplain soil Zn ranged from 11.46 to 325.36 $\mu\text{g/g}$ (Figure 18). In October, floodplain soil Zn ranged from 53.85 to 72.81 $\mu\text{g/g}$ (Figure 20).

D. Little Bayou Creek Floodplain Soils

Results for metal concentrations of individual assays of floodplain soils from Little Bayou Creek collected March and October are given in Tables C3 and C4, respectively. Mean metal concentrations for March and October are given in Tables 13 and 14, respectively. Graphical comparisons between water, sediment, and floodplain soil

concentrations in Big Bayou Creek are shown in Figures 21 through 32. Silver concentrations in floodplain soils for Little Bayou Creek were in the range of 0.08-0.10 µg/g in March (Figure 22) and 0.03-0.09 µg/g in October (Figure 24). Silver values did not vary in March, however, Ag peaked at LB4 in October. Floodplain As peaked at station LB3 for March and October. Cadmium was highest at station LB1 And LB2 in March and highest at station LB2 in October. Copper ranged from 4.38 to 6.19 µg/g in March (Figure 26) and from 5.79 to 7.14 µg/g in October (Figure 28). Floodplain Zn ranged from 21.16 to 46.36 µg/g in March (Figure 30) and from 77.50 to 191.72 µg/g in October (Figure 32). Zn was highest at station LB3 in March and at station LB4 in October. Increased concentrations were observed under low-flow stream conditions in October for Al, Be, Cr, Pb, Se, and Zn as compared to high-flow values in March.

DISCUSSION AND CONCLUSIONS

The overall numbers of “data points” given in this report total 2520 for water, 2400 for sediments, and 2220 for floodplain soils. This gave a total of 7140 data entries. This included duplication of those “assays” given as individual values (Appendix, Tables A1-C4) or mean values (Tables 3-14). This extensive study was intended to establish a current database for metal contamination in the Bayou Creek system, and should provide the Commonwealth of Kentucky the necessary information with which to analyze changes in stream metal contamination over time. We suggest that the contents of this report be entered into the electronic database maintained by the Division of Waste Management, Kentucky’s Environmental and Public Protection Cabinet.

In previous studies (Birge and Price, 2005), it was clear that most PCB contamination affecting fish (e.g. stoneroller minnow, green sunfish, longear sunfish) originated from sediments and floodplain soils, especially during high-flow conditions. However, the situation regarding metal contamination, as revealed in this report, differs dramatically. With few exceptions, metals in sediments and floodplain soils did not vary appreciably among stream stations or differ greatly from “background” concentrations observed at reference stations (*i.e.* Massac Creek, LB1, BB1A). Therefore, it was clear that metal contamination resulted primarily from the continuous-flowing effluents (*i.e.* 001, 006, 008, and 010+011). For example, Zn in the water column of Little Bayou creek varied from 5.9 µg/L at station LB2 to non-detected downstream at LB4, implicating effluent 010+011. However, Zn concentrations in sediments or floodplain soils did not vary significantly among stream stations in March 2004 (Figure 29-30) and was inverse in stream water in October (Figure 31-32). This same trend was observed for most

metals affecting the water column. Stream concentrations generally correlated with effluent outfalls rather than sediment or floodplain soil metal concentrations.

The final concern, of considerable importance, involves “effluent specific” degrees of stream water metal contamination that approaches or exceeds criteria for aquatic life, as established by the Commonwealth (KAR 2005). Several examples follow. The regulatory criteria were taken from current on-line report by the Kentucky Legislature (<http://www.lrc.ky.gov/kar/TITLE401.HTM>). Water hardness dependent calculations were based on mean water hardness values for stations BB1-BB5 above effluent 001 and that for stations BB6-BB9 below effluent 001 (Table 2). The following findings were based mostly upon data from the October collection (10/01/04) of water samples. This was due to the fact that water metal contamination observed in this study most always greater under the lower stream discharge that occurred in October. At the upstream USGS gauging station at BB1, the mean discharge (*i.e.* flow volume, ft³ / sec.) was 0.91 ± 0.89 , whereas this value for March, 2004 was 1.67 ± 3.75 . It should be noted that the stream discharge for October was still “well above” the 7Q10 value of 0.03 ft³ / sec. taken for years 1991-2004 given by USGS (2005). Therefore, the variations for aquatic life criteria would have been much more extensive if based on the 7Q10 (lowest mean flow for 7 consecutive days within a 10-year period). It should be noted that the Commonwealth of Kentucky use the 7Q10 when assessing contamination in warm water systems (KY Division of Water, April 14, 1995).

Problems observed in the present study included Ag, Cd, Pb, and Cu. Silver (Ag) was detected (µg/L) in October 2004 at 0.76, 2.14, and 1.97 at stations BB4, BB7, and BB8, respectively. The Ag acute aquatic life criterion (ALC) was 0.055 µg/L at station

BB4. The ALC also was violated at BB7 and BB8 despite somewhat higher water hardness. The Commonwealth of Kentucky has no chronic Ag criterion. However, the threshold for “chronic effects” on aquatic life has been reported to be about 0.2 ppb (Anders and Bober, 2002). Concerning Cd, the October values were 3.43, 0.80, and 0.73 µg/L at BB3, BB6, and BB2A, respectively. The chronic criterion was 0.63 at stations BB2A and BB3 and 1.45 at BB6. With respect to Pb, detected values (µg/L) were 13.3, 10.7, 6.0, and 5.2 at BB5, BB4, BB2A, and effluent 001, respectively. By comparison, the Pb chronic criterion for these three stream station was 0.46 µg/L. In so far as possible, the criterion calculations were based on the latest accessible information from the Commonwealth of Kentucky. Because of their extent and frequency, these calculations should be reviewed and checked carefully by State personnel and this should be followed by a meeting with UK personnel. If assessments were based on 7Q10 conditions, violations of metal chronic criteria for aquatic life would have been much worse.

Table 1. Water quality results for stream water samples from the Bayou Creek system collected March 16-18, 2004.

Station	Temperature (° C)	pH	D.O. (mg/L)	Conductivity (µS/cm)	Alkalinity (mg CaCO ₃ /L)	Hardness (mg CaCO ₃ /L)
MC ¹	16.53	7.66	12.95	129	60	40
BB1A	10.83	7.86	16.03	231	120	52
BB1	10.69	7.87	13.83	224	100	112
BB2	11.82	8.27	15.20	203	100	48
BB2A	9.76	7.69	13.28	233	100	64
BB3	10.62	8.40	15.12	227	100	60
BB4	15.58	9.10	17.57	261	80	68
BB5	13.40	8.01	13.76	228	120	76
BB6	13.85	7.73	12.53	586	100	148
BB7	15.23	8.65	16.01	583	100	140
BB8	13.36	7.61	13.87	576	80	164
BB9	11.26	7.09	10.32	542	100	144
LB1	12.69	7.75	5.54	173	120	80
LB2A	8.20	7.21	17.45	479	220	100
LB2	15.07	7.52	12.04	365	120	92
LB3	10.64	7.54	14.79	359	120	72
LB4	15.56	8.35	15.62	336	120	84
001 ²	---	(7.06)	---	---	100	332
006	12.29	7.70	12.36	209	120	84
008 ²	---	(6.44)	---	---	60	68
010+011	16.74	7.30	11.09	316	100	84

¹ Massac Creek was sampled at the UK site (Western Fork).

² Field measurements were not obtained, results in parentheses indicate lab measurements.

Table 2. Water quality results for stream water samples from the Bayou Creek system collected October 1-2, 2004.

Station ¹	Temperature (° C)	pH	D.O. (mg/L)	Conductivity (µS/cm)	Alkalinity (mg CaCO ₃ /L)	Hardness (mg CaCO ₃ /L)
BB1A	16.09	7.51	9.46	295	100	60
BB1	16.04	7.27	9.82	297	120	60
BB2	17.87	7.58	8.56	378	160	64
BB2A	19.84	7.79	10.58	285	40	64
BB3	20.50	8.19	12.03	278	60	56
BB4	23.36	7.49	8.39	309	60	56
BB5	22.06	7.50	8.58	267	40	60
BB6	22.18	7.25	7.83	638	60	132
BB7	19.94	7.26	7.60	637	40	136
BB8	19.56	7.26	8.03	640	60	140
BB9	17.81	7.24	8.47	637	60	132
LB2A	13.89	7.17	9.65	528	180	100
LB2	21.90	7.23	8.40	230	40	72
LB3	18.51	7.03	8.18	357	60	76
LB4	16.81	7.38	7.87	352	60	72
001	22.35	7.20	9.42	1230	60	272
006	21.71	7.68	9.43	256	80	60
008	25.72	7.11	7.78	329	40	52
010+011	22.87	7.01	8.47	343	40	72

¹ Low flow conditions (lack of water) prevented measurements at Massac Creek and station LB1.

Table 3. Metal concentrations in water samples from Massac Creek (MC) and Big Bayou Creek collected March 16-18, 2004.

Station	Date	Sample	Water Metal Conc. (µg/L)						
			Ag	Al	As	B	Ba	Be	Ca
MC	3/18/04	MWS1	0.32	243.12	<10.00	10926.28	50.99	<0.25	10276.77
BB1A	3/16/04	MWS1	<0.25	162.26	<10.00	9360.23	51.44	<0.25	15606.79
BB1	3/17/04	MWS1	0.38	268.22	<10.00	8245.87	53.78	<0.25	16582.14
BB2	3/17/04	MWS1	<0.25	207.15	<10.00	7695.12	43.31	<0.25	13161.43
BB2A	3/16/04	MWS1	0.22	214.42	<10.00	6810.35	38.54	<0.25	17650.48
BB3	3/16/04	MWS1	0.15	246.27	<10.00	7364.45	40.60	<0.25	18598.65
BB4	3/17/04	MWS1	0.32	150.26	<10.00	7955.53	27.24	<0.25	18478.85
BB5	3/17/04	MWS1	0.44	263.89	<10.00	6245.09	25.41	<0.25	22230.74
BB6	3/17/04	MWS1	0.47	235.81	<10.00	7164.70	31.89	0.71	42999.34
BB7	3/18/04	MWS1	0.30	205.15	<10.00	8005.19	29.82	0.76	43245.79
BB8	3/18/04	MWS1	0.17	146.07	<10.00	6124.21	34.32	0.65	42208.44
BB9	3/18/04	MWS1	0.30	153.59	<10.00	6861.23	43.99	0.56	40566.26

Table 3, continued. Metal concentrations in water samples from Massac Creek (MC) and Big Bayou Creek collected March 16-18, 2004.

Station	Date	Sample	Water Metal Conc. (µg/L)							
			Cd	Co	Cr	Cu	Fe	K	Li	Mg
MC	3/18/04	MWS1	<0.25	<1.00	<1.00	<1.00	388.3	2355.65	<1.00	2486.45
BB1A	3/16/04	MWS1	<0.25	<1.00	<1.00	<1.00	289.9	1981.61	0.96	3939.86
BB1	3/17/04	MWS1	<0.25	<1.00	<1.00	<1.00	366.5	1796.08	<1.00	3955.27
BB2	3/17/04	MWS1	<0.25	<1.00	<1.00	<1.00	212.1	1269.16	<1.00	2963.77
BB2A	3/16/04	MWS1	0.26	<1.00	<1.00	2.12	317.7	1631.94	1.10	3651.18
BB3	3/16/04	MWS1	<0.25	<1.00	<1.00	2.02	580.9	1672.76	2.52	3904.18
BB4	3/17/04	MWS1	<0.25	<1.00	<1.00	1.99	445.3	2061.03	2.84	4725.18
BB5	3/17/04	MWS1	<0.25	<1.00	<1.00	1.72	566.4	1412.42	2.19	5207.73
BB6	3/17/04	MWS1	0.32	<1.00	<1.00	3.25	399.0	7392.83	7.96	10173.64
BB7	3/18/04	MWS1	0.37	<1.00	<1.00	3.04	263.1	7568.53	8.02	10250.00
BB8	3/18/04	MWS1	0.29	<1.00	<1.00	2.41	206.4	6809.14	7.67	10170.00
BB9	3/18/04	MWS1	<0.25	<1.00	<1.00	1.85	532.6	6538.95	6.52	9587.73

Table 3, continued. Metal concentrations in water samples from Massac Creek (MC) and Big Bayou Creek collected March 16-18, 2004.

Station	Date	Sample	Water Metal Conc. (µg/L)							
			Mn	Mo	Na	Ni	P	Pb	Sb	Se
MC	3/18/04	MWS1	89.46	<5.00	10823.88	1.00	41.41	<0.50	<1.00	<10.00
BB1A	3/16/04	MWS1	175.24	<5.00	23894.26	1.21	20.61	1.04	<1.00	<10.00
BB1	3/17/04	MWS1	172.74	<5.00	22264.67	1.31	22.83	<0.50	<1.00	<10.00
BB2	3/17/04	MWS1	31.47	<5.00	21809.09	<1.00	13.96	<0.50	<1.00	<10.00
BB2A	3/16/04	MWS1	77.15	<5.00	21249.76	1.28	32.51	<0.50	<1.00	<10.00
BB3	3/16/04	MWS1	103.73	<5.00	21070.28	1.09	26.10	1.26	<1.00	<10.00
BB4	3/17/04	MWS1	58.26	<5.00	24996.90	1.49	182.18	<0.50	<1.00	<10.00
BB5	3/17/04	MWS1	47.79	<5.00	19591.13	1.07	75.28	1.14	<1.00	<10.00
BB6	3/17/04	MWS1	49.52	<5.00	41903.35	2.39	92.07	1.15	<1.00	<10.00
BB7	3/18/04	MWS1	34.25	<5.00	43183.06	1.90	91.78	0.92	<1.00	<10.00
BB8	3/18/04	MWS1	69.06	<5.00	40258.07	2.09	51.45	<0.50	<1.00	<10.00
BB9	3/18/04	MWS1	245.39	<5.00	38973.67	2.35	54.72	<0.50	<1.00	<10.00

Table 3, continued. Metal concentrations in water samples from Massac Creek (MC) and Big Bayou Creek collected March 16-18, 2004.

Station	Date	Sample	Water Metal Conc. (µg/L)						
			Si	Sn	Sr	Ti	Tl	V	Zn
MC	3/18/04	MWS1	4646.87	<5.00	60.09	1.56	<1.00	1.21	2.28
BB1A	3/16/04	MWS1	3206.24	<5.00	77.27	1.53	1.33	<1.00	<1.00
BB1	3/17/04	MWS1	3682.31	<5.00	78.94	1.48	1.57	<1.00	<1.00
BB2	3/17/04	MWS1	3567.36	<5.00	68.07	1.21	<1.00	<1.00	<1.00
BB2A	3/16/04	MWS1	1986.41	<5.00	104.16	1.76	1.42	<1.00	3.33
BB3	3/16/04	MWS1	2894.80	<5.00	104.41	1.44	<1.00	<1.00	4.40
BB4	3/17/04	MWS1	2607.57	<5.00	96.52	1.47	<1.00	<1.00	3.76
BB5	3/17/04	MWS1	1187.24	<5.00	75.13	1.15	1.02	<1.00	2.45
BB6	3/17/04	MWS1	2665.32	<5.00	154.41	1.45	1.37	<1.00	6.14
BB7	3/18/04	MWS1	2465.57	<5.00	155.48	1.19	<1.00	<1.00	1.03
BB8	3/18/04	MWS1	2098.93	<5.00	156.43	1.08	1.30	<1.00	<1.00
BB9	3/18/04	MWS1	2148.27	<5.00	150.70	1.09	2.10	<1.00	1.64

Table 4. Mean metal concentrations in water samples from Massac Creek (MC) and Big Bayou Creek collected October 1-2, 2004.

Station	Water Metal Conc. ($\mu\text{g/L}$)									
	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr
BB1A	0.55	4605.1	<5.00	10148.68	26.61	<5.00	14173.9	1.71	<5.00	<5.00
BB1	<0.25	3748.0	<5.00	7401.87	26.78	<5.00	14157.1	<0.25	<5.00	<5.00
BB2	<0.25	4787.7	<5.00	9479.05	47.41	<5.00	15853.5	0.61	<5.00	<5.00
BB2A	0.44	4984.8	<5.00	9898.00	21.51	<5.00	17008.3	0.73	<5.00	<5.00
BB3	0.65	5177.8	<5.00	9821.49	14.54	<5.00	15351.0	3.43	<5.00	<5.00
BB4	0.76	5594.8	<5.00	10046.60	28.31	<5.00	15426.5	0.34	<5.00	<5.00
BB5	0.68	5216.4	<5.00	9194.14	18.03	<5.00	15383.4	0.65	<5.00	<5.00
BB6	1.59	4340.9	<5.00	9503.64	17.14	<5.00	30422.3	0.80	<5.00	<5.00
BB7	2.14	4936.2	<5.00	10011.69	21.61	<5.00	31720.0	0.61	<5.00	<5.00
BB8	1.97	4859.5	<5.00	9582.88	23.03	<5.00	31088.9	0.28	<5.00	<5.00
BB9	1.75	4526.0	<5.00	9743.62	24.23	<5.00	31135.9	<0.25	<5.00	<5.00

Table 4, continued. Mean metal concentrations in water samples from Massac Creek (MC) and Big Bayou Creek collected October 1-2, 2004.

Station	Water Metal Conc. (µg/L)									
	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P
BB1A	<1.00	216.3	2883.01	<5.00	3523.1	153.11	<5.00	26088.7	<5.00	30.87
BB1	<1.00	179.3	2558.26	<5.00	3439.2	106.47	<5.00	22426.4	<5.00	39.52
BB2	<1.00	623.9	5567.73	<5.00	3723.0	331.23	<5.00	30391.3	<5.00	108.98
BB2A	2.41	2180.0	4469.86	8.73	3816.0	293.56	<5.00	22339.0	<5.00	76.63
BB3	1.21	183.5	4335.07	<5.00	3131.8	28.60	<5.00	22550.8	<5.00	39.26
BB4	22.01	1746.2	5048.21	<5.00	3688.7	602.41	6.42	24084.8	5.35	470.68
BB5	7.31	2720.2	4186.52	<5.00	3971.2	151.16	<5.00	21245.5	<5.00	223.34
BB6	4.95	284.4	9007.92	9.10	7707.3	35.07	4.74	34810.0	<5.00	131.51
BB7	4.11	250.0	9391.69	8.93	7760.3	119.11	<5.00	35802.3	<5.00	126.33
BB8	4.30	268.3	9444.45	8.95	7823.3	75.15	<5.00	35166.8	<5.00	172.30
BB9	2.16	187.8	9243.39	8.71	7744.8	50.24	<5.00	34855.2	<5.00	89.61

Table 4, continued. Mean metal concentrations in water samples from Massac Creek (MC) and Big Bayou Creek collected October 1-2, 2004.

Station	Water Metal Conc. (µg/L)									
	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	V	Zn
BB1A	<5.00	<20.00	<5.00	4686.1	<5.00	65.46	<5.00	5.69	<5.00	<3.00
BB1	<5.00	<20.00	<5.00	2900.5	<5.00	66.71	<5.00	<5.00	<5.00	<3.00
BB2	<5.00	<20.00	<5.00	3703.4	<5.00	94.25	<5.00	<5.00	<5.00	7.62
BB2A	6.04	<20.00	<5.00	3203.3	<5.00	108.30	<5.00	7.22	<5.00	9.39
BB3	<5.00	<20.00	<5.00	2442.8	<5.00	97.91	<5.00	<5.00	<5.00	5.47
BB4	10.66	<20.00	<5.00	2627.7	<5.00	73.77	<5.00	9.53	<5.00	29.27
BB5	13.27	<20.00	<5.00	3278.8	<5.00	65.74	<5.00	<5.00	<5.00	9.04
BB6	<5.00	<20.00	<5.00	4455.5	<5.00	140.65	<5.00	<5.00	<5.00	8.95
BB7	<5.00	<20.00	<5.00	3752.2	<5.00	145.08	<5.00	<5.00	<5.00	6.98
BB8	<5.00	<20.00	<5.00	3450.7	<5.00	144.51	<5.00	<5.00	<5.00	4.66
BB9	<5.00	<20.00	<5.00	4122.1	<5.00	146.84	<5.00	<5.00	<5.00	4.98

Table 5. Metal concentrations in water samples from Little Bayou Creek and effluents collected March 16-18, 2004.

Station	Date	Sample	Water Metal Conc. (µg/L)						
			Ag	Al	As	B	Ba	Be	Ca
LB1	3/18/04	MWS1	0.40	686.24	<10.00	8372.03	71.42	<0.25	25714.18
LB2A	3/17/04	MWS1	0.39	264.57	<10.00	8941.79	119.72	0.31	29851.38
LB2	3/17/04	MWS1	0.30	192.72	<10.00	7370.89	51.58	<0.25	22716.88
LB3	3/17/04	MWS1	0.15	172.55	<10.00	8498.79	57.14	<0.25	21993.20
LB4	3/17/04	MWS1	0.35	194.32	<10.00	8238.05	51.23	<0.25	20866.92
001	3/17/04	MWS1	0.31	202.38	<10.00	9793.19	40.93	3.95	87001.22
006	3/17/04	MWS1	0.41	294.67	<10.00	8166.68	23.52	0.31	24101.93
008	3/17/04	MWS1	<0.25	149.67	<10.00	9020.67	13.00	0.39	15464.66
010 +011	3/17/04	MWS1	0.54	195.23	<10.00	6893.02	23.49	0.37	19972.47

Table 5, continued. Metal concentrations in water samples from Little Bayou Creek and effluents collected March 16-18, 2004.

Station	Date	Sample	Water Metal Conc. (µg/L)							
			Cd	Co	Cr	Cu	Fe	K	Li	Mg
LB1	3/18/04	MWS1	<0.25	<1.00	<1.00	1.75	711.08	2770.72	<1.00	2516.95
LB2A	3/17/04	MWS1	0.40	<1.00	<1.00	<1.00	608.07	1583.76	2.71	9307.27
LB2	3/17/04	MWS1	<0.25	<1.00	<1.00	1.94	377.83	2277.85	2.50	7218.41
LB3	3/17/04	MWS1	0.27	<1.00	<1.00	1.36	366.90	2291.77	2.40	6893.23
LB4	3/17/04	MWS1	0.27	<1.00	<1.00	1.55	574.21	2109.14	2.39	6312.09
001	3/17/04	MWS1	0.46	<1.00	<1.00	6.97	232.99	23859.90	23.70	22500.45
006	3/17/04	MWS1	<0.25	<1.00	<1.00	1.08	585.10	1284.96	1.88	5408.82
008	3/17/04	MWS1	<0.25	<1.00	<1.00	4.77	285.73	2629.63	2.71	4067.00
010 +011	3/17/04	MWS1	<0.250	<1.00	<1.000	2.88	358.56	2673.20	2.48	6293.68

Table 5, continued. Metal concentrations in water samples from Little Bayou Creek and effluents collected March 16-18, 2004.

Station	Date	Sample	Water Metal Conc. (µg/L)							
			Mn	Mo	Na	Ni	P	Pb	Sb	Se
LB1	3/18/04	MWS1	81.97	<5.00	8304.13	1.89	90.41	<0.50	<1.00	<10.00
LB2A	3/17/04	MWS1	191.23	<5.00	51202.95	1.41	23.11	<0.50	<1.00	<10.00
LB2	3/17/04	MWS1	75.89	<5.00	34686.45	<1.00	250.95	1.00	<1.00	<10.00
LB3	3/17/04	MWS1	98.64	<5.00	36972.67	1.15	176.39	<0.50	<1.00	<10.00
LB4	3/17/04	MWS1	81.91	<5.00	33764.10	1.19	97.56	<0.50	<1.00	<10.00
001	3/17/04	MWS1	61.39	<5.00	107837.97	4.67	139.46	0.92	<1.00	<10.00
006	3/17/04	MWS1	32.59	<5.00	13564.48	<1.00	25.31	1.22	<1.00	<10.00
008	3/17/04	MWS1	22.65	<5.00	31307.25	2.68	533.92	0.89	<1.00	<10.00
010 +011	3/17/04	MWS1	30.55	<5.00	26870.18	<1.00	343.96	0.96	<1.00	<10.00

Table 5, continued. Metal concentrations in water samples from Little Bayou Creek and effluents collected March 16-18, 2004.

Station	Date	Sample	Water Metal Conc. (µg/L)						
			Si	Sn	Sr	Ti	Tl	V	Zn
LB1	3/18/04	MWS1	4390.60	<5.00	80.98	<1.00	<1.00	1.68	30.70
LB2A	3/17/04	MWS1	5161.41	<5.00	214.68	<1.00	1.18	<1.00	9.08
LB2	3/17/04	MWS1	3426.76	<5.00	157.10	<1.00	1.21	<1.00	20.45
LB3	3/17/04	MWS1	3143.67	<5.00	152.87	<1.00	<1.00	<1.00	16.06
LB4	3/17/04	MWS1	2734.20	<5.00	163.23	1.51	<1.00	<1.00	3.93
001	3/17/04	MWS1	6648.43	<5.00	208.73	1.29	1.70	<1.00	2.14
006	3/17/04	MWS1	1859.15	<5.00	64.71	1.14	<1.00	<1.00	1.40
008	3/17/04	MWS1	2611.33	<5.00	68.05	<1.00	2.14	<1.00	10.66
010 +011	3/17/04	MWS1	1659.39	<5.00	86.95	<1.00	<1.00	<1.00	21.30

Table 6. Mean metal concentrations in water samples from Little Bayou Creek and effluents collected October 1-2, 2004.

Station	Water Metal Conc. (µg/L)									
	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr
LB2A	0.351	4292.3	<5.00	9040.53	90.64	<5.00	23245.6	0.31	<5.00	<5.00
LB2	1.085	4556.6	<5.00	9923.95	18.41	<5.00	16930.5	0.62	<5.00	<5.00
LB3	1.138	4240.7	<5.00	9252.05	22.20	<5.00	17308.1	<0.25	<5.00	<5.00
LB4	0.947	4387.2	<5.00	9204.46	30.68	<5.00	17794.1	<0.25	<5.00	<5.00
001	2.651	4020.0	<5.00	7837.66	27.60	<5.00	54852.7	0.50	<5.00	<5.00
006	0.660	3197.2	<5.00	5498.41	13.28	<5.00	15355.9	2.71	<5.00	<5.00
008	1.064	2958.4	<5.00	5392.53	9.96	<5.00	13000.7	0.38	<5.00	<5.00
010+011	1.061	2772.8	<5.00	5170.31	13.58	<5.00	15751.8	<0.25	<5.00	<5.00

Table 6, continued. Mean metal concentrations in water samples Little Bayou Creek and effluents collected October 1-2, 2004.

Station	Water Metal Conc. (µg/L)									
	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P
LB2A	<1.00	369.2	2775.96	<5.00	7229.2	39.38	<5.00	37798.5	<5.00	21.40
LB2	2.57	181.8	5062.46	<5.00	4684.4	19.41	<5.00	25622.0	<5.00	153.37
LB3	2.66	247.7	4788.77	<5.00	4736.8	30.69	<5.00	24880.4	<5.00	140.73
LB4	2.18	370.2	5049.41	<5.00	5038.9	92.79	<5.00	24187.2	<5.00	101.78
001	9.60	650.8	19575.26	22.42	14527.3	73.84	5.25	56836.6	<5.00	217.04
006	3.39	1207.7	3046.94	<5.00	3990.6	57.44	1.17	14931.6	<5.00	27.45
008	48.24	599.7	4117.64	<5.00	3520.9	21.51	6.71	19360.2	<5.00	509.43
010+011	3.46	269.6	4260.29	<5.00	4496.9	16.01	<5.00	19330.6	<5.00	166.13

Table 6, continued. Mean metal concentrations in water samples from Little Bayou Creek and effluents collected October 1-2, 2004.

Station	Water Metal Conc. (µg/L)									
	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	V	Zn
LB2A	<5.00	<20.00	<5.00	4785.3	<5.00	175.00	<5.00	7.76	<5.00	3.47
LB2	<5.00	<20.00	<5.00	4075.5	<5.00	82.54	<5.00	<5.00	<5.00	5.94
LB3	<5.00	<20.00	<5.00	3915.6	<5.00	90.01	<5.00	<5.00	<5.00	4.07
LB4	<5.00	<20.00	<5.00	3629.5	<5.00	114.25	<5.00	<5.00	<5.00	<3.00
001	5.17	<20.00	<5.00	4282.7	<5.00	188.33	<5.00	<5.00	<5.00	8.76
006	<5.00	<20.00	<5.00	1717.8	<5.00	58.06	<5.00	<5.00	<5.00	3.95
008	<5.00	<20.00	<5.00	1579.5	<5.00	51.92	<5.00	<5.00	<5.00	18.85
010+011	<5.00	<20.00	<5.00	1666.3	<5.00	71.10	<5.00	<5.00	<5.00	4.46

Table 7. Mean metal values in sediments from Massac Creek and Big Bayou Creek collected March 16-18, 2004.

Station	Sediment Metal Conc. ($\mu\text{g/g}$)									
	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr
MC	0.112	N.D.	2.99	2624.74	21.71	0.22	113.58	0.65	1.64	9.38
BB1A	0.085	3054.96	2.29	618.50	37.44	0.24	665.38	0.65	2.13	5.90
BB1	0.083	2107.47	4.52	323.16	24.94	0.41	354.86	1.06	2.15	19.37
BB2	0.087	1606.20	2.25	N.D.	24.46	0.24	751.33	0.65	1.83	6.66
BB2A	0.098	279.91	2.01	N.D.	25.81	0.19	410.17	0.53	1.55	5.76
BB3	0.076	4337.40	1.93	N.D.	26.24	0.29	797.24	0.92	1.73	8.61
BB4	0.070	1087.05	1.85	N.D.	21.01	0.20	376.09	0.58	1.17	7.85
BB5	0.071	5097.68	1.70	N.D.	16.71	0.29	500.36	0.90	1.09	8.78
BB6	0.095	2825.43	1.96	N.D.	29.14	0.23	1678.87	0.60	2.08	7.26
BB7	0.076	2894.26	2.41	N.D.	22.17	0.28	335.57	0.87	1.79	13.17
BB8	0.088	2585.88	2.29	N.D.	38.89	0.29	598.34	0.68	2.50	7.64
BB9	0.096	4264.61	2.13	N.D.	36.66	0.34	920.33	0.84	1.96	27.32

Table 7, continued. Mean metal values in sediments from Massac Creek (MC) and Big Bayou Creek collected March 16-18, 2004.

Station	Sediment Metal Conc. ($\mu\text{g/g}$)									
	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	Pb
MC	1.36	4886.50	N.D.	N.D.	56.19	298.68	0.28	78.49	2.11	11.50
BB1A	3.96	5002.20	28.90	4.89	594.30	434.80	N.D.	133.33	4.47	12.37
BB1	2.73	9929.93	N.D.	1.87	216.43	285.68	0.30	95.49	3.28	17.23
BB2	2.61	4794.70	N.D.	2.95	288.87	254.64	N.D.	141.45	3.16	12.17
BB2A	1.86	2937.39	N.D.	1.81	199.85	234.20	N.D.	84.65	2.27	9.57
BB3	4.05	8362.76	48.98	5.01	452.40	154.95	N.D.	128.27	3.89	16.16
BB4	2.08	4226.87	N.D.	2.00	165.96	91.99	N.D.	97.51	2.20	10.40
BB5	2.51	8131.82	N.D.	4.68	195.20	71.80	N.D.	118.80	2.76	13.89
BB6	4.88	5499.72	N.D.	4.26	488.94	309.17	N.D.	158.97	4.00	13.67
BB7	3.90	6788.81	N.D.	3.75	304.98	138.04	N.D.	103.08	3.82	14.16
BB8	4.22	5314.14	28.33	4.15	435.87	398.54	N.D.	164.91	4.13	13.70
BB9	8.26	6662.51	170.03	7.84	724.47	241.68	N.D.	169.95	7.63	16.27

Table 7, continued. Mean metal values in sediments from Massac Creek (MC) and Big Bayou Creek collected March 16-18, 2004.

Station	Sediment Metal Conc. ($\mu\text{g/g}$)							
	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
MC	0.25	N.D.	0.31	N.D.	22.45	0.27	11.93	5.18
BB1A	0.30	N.D.	0.29	6.31	6.42	0.80	10.60	14.15
BB1	0.46	N.D.	0.26	4.63	11.94	0.23	21.29	10.21
BB2	N.D.	N.D.	N.D.	4.39	6.27	0.64	11.06	11.16
BB2A	N.D.	N.D.	N.D.	3.81	7.59	0.37	9.75	15.16
BB3	0.35	N.D.	0.27	7.31	2.96	0.37	14.30	38.01
BB4	0.32	N.D.	N.D.	2.69	3.38	0.33	11.01	10.97
BB5	0.38	N.D.	N.D.	4.35	2.65	0.19	17.60	5.82
BB6	0.21	N.D.	0.30	8.40	3.82	0.54	11.28	20.11
BB7	0.51	N.D.	N.D.	4.86	2.91	0.07	15.23	14.73
BB8	0.30	N.D.	N.D.	6.19	5.69	0.92	11.97	29.14
BB9	0.36	N.D.	N.D.	7.38	4.90	0.25	11.88	25.97

Table 8. Mean metal values in sediments from Massac Creek and Big Bayou Creek collected October 1-2, 2004.

Station	Sediment Metal Conc. ($\mu\text{g/g}$)									
	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr
BB1A	0.012	5280.3	1.36	399.8	37.59	N.D.	463.5	0.55	2.46	8.46
BB1	0.028	1923.8	6.39	503.2	20.78	0.48	366.7	1.22	3.37	25.48
BB2A	0.025	1111.9	3.10	336.7	13.22	0.36	193.4	0.73	2.39	18.32
BB2	0.013	8613.8	3.20	310.2	34.80	0.32	667.9	0.58	1.90	12.47
BB3	0.048	3968.7	2.05	291.1	19.60	0.29	446.3	1.06	2.77	17.47
BB4	0.023	2386.2	3.98	275.7	16.52	0.36	366.6	0.93	3.19	22.09
BB5	0.012	7986.3	1.45	269.4	15.44	0.27	396.6	0.74	1.75	9.36
BB6	0.017	1474.4	1.30	266.8	15.82	N.D.	603.2	0.43	1.53	9.03
BB7	0.022	2435.9	1.71	381.4	19.83	0.23	383.9	0.73	1.72	17.81
BB8	0.009	3743.3	1.00	242.4	29.32	N.D.	457.7	0.46	1.82	6.90
BB9	0.013	3935.8	0.81	241.2	29.09	0.28	563.4	0.74	3.47	9.86

Table 8, continued. Mean metal values in sediments from Massac Creek (MC) and Big Bayou Creek collected October 1-2, 2004.

Station	Sediment Metal Conc. (µg/g)									
	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P
BB1A	4.27	10067.7	485.8	5.69	537.97	264.32	N.D.	525.3	4.93	179.98
BB1	2.88	22569.3	720.1	1.05	17.89	300.07	0.72	532.8	3.81	345.95
BB2A	1.86	13291.1	666.8	0.69	N.D.	168.85	0.38	564.8	2.35	193.82
BB2	4.14	10907.9	477.7	6.43	427.65	153.84	0.25	574.2	4.21	176.33
BB3	2.61	14988.1	568.2	2.88	335.20	736.43	0.26	535.6	3.41	202.49
BB4	3.22	18200.0	499.7	1.65	131.28	276.15	0.36	525.2	3.50	242.07
BB5	2.70	14801.1	584.4	5.16	239.58	128.40	0.29	548.6	3.34	141.55
BB6	1.92	7314.2	695.5	1.20	33.57	105.52	N.D.	524.6	2.01	128.65
BB7	3.66	13749.4	529.4	2.02	198.24	133.53	0.28	556.3	4.12	183.86
BB8	3.64	8093.8	455.7	4.97	396.62	171.49	N.D.	520.1	4.68	179.19
BB9	4.44	9045.7	491.8	5.67	361.31	221.82	0.24	495.0	5.39	232.10

Table 8, continued. Mean metal values in sediments from Massac Creek (MC) and Big Bayou Creek collected October 1-2, 2004.

Station	Sediment Metal Conc. ($\mu\text{g/g}$)									
	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	V	Zn
BB1A	36.51	0.54	24.57	431.0	0.40	5.50	39.26	1.31	13.61	46.29
BB1	49.53	1.00	33.03	416.5	0.74	2.42	27.87	0.41	28.81	55.99
BB2A	42.14	0.62	31.09	437.4	0.57	1.37	21.86	N.D.	19.04	63.68
BB2	45.42	0.73	24.67	426.9	0.48	6.94	17.38	N.D.	16.00	72.70
BB3	41.24	0.76	25.32	411.3	0.50	3.69	22.56	3.06	20.27	65.96
BB4	46.60	0.79	27.30	400.3	0.52	2.64	16.91	0.69	24.66	70.35
BB5	41.45	0.78	38.73	416.2	0.35	3.67	10.77	0.29	17.61	60.01
BB6	36.95	0.44	24.49	423.3	0.36	5.42	13.82	N.D.	10.68	60.97
BB7	37.36	0.78	28.27	413.6	0.57	2.50	17.30	0.43	20.09	64.53
BB8	35.54	0.51	22.40	402.9	0.36	5.79	19.31	N.D.	10.51	61.28
BB9	36.83	0.57	24.54	406.9	0.31	5.45	17.22	N.D.	10.03	67.22

Table 9. Mean metal values in sediments from Little Bayou Creek and effluents collected March 16-18, 2004.

Station	Sediment Metal Conc. ($\mu\text{g/g}$)									
	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr
LB1	0.081	8382.40	3.47	N.D.	N.D.	0.32	4236.66	1.31	2.27	12.83
LB2A	0.080	2704.00	5.06	N.D.	35.17	0.56	669.34	1.59	3.28	24.22
LB2	0.065	3998.32	1.96	N.D.	29.68	0.35	830.91	0.79	3.17	12.47
LB3	0.084	3639.77	10.09	N.D.	36.47	0.73	900.70	2.12	3.83	29.64
LB4	0.068	2704.70	1.41	N.D.	28.98	0.24	644.29	0.52	1.36	14.63
001	0.061	2946.60	1.48	N.D.	29.95	0.33	982.51	0.55	2.31	9.66
006	0.078	2646.32	2.10	N.D.	24.02	0.24	937.43	1.15	2.39	6.89
008	0.154	3331.14	1.98	N.D.	25.37	0.32	1462.93	1.18	1.69	20.25
010+011	0.073	2844.27	1.91	N.D.	21.17	0.30	986.64	0.78	2.46	19.92

Table 9, continued. Mean metal values in sediments from Little Bayou Creek and effluents collected March 16-18, 2004.

Station	Sediment Metal Conc. ($\mu\text{g/g}$)									
	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	Pb
LB1	9.80	14065.49	396.64	8.89	1720.54	289.29	N.D.	145.91	6.73	23.35
LB2A	4.23	13067.01	N.D.	2.88	350.61	386.57	0.26	173.17	5.04	23.70
LB2	4.85	6201.77	N.D.	4.15	491.50	93.46	N.D.	121.27	4.39	13.74
LB3	8.23	22403.65	N.D.	4.16	512.35	430.74	0.47	148.05	6.57	12.26
LB4	3.92	3601.97	50.09	4.16	423.26	121.10	N.D.	110.43	3.18	9.90
001	14.06	3644.82	153.32	5.79	725.98	0.54	0.28	160.03	6.29	8.94
006	5.03	4984.46	N.D.	4.28	495.29	278.95	N.D.	74.75	3.75	13.16
008	27.57	7163.39	48.14	5.36	642.07	N.D.	0.41	110.09	16.87	22.03
010+011	6.79	5832.60	N.D.	3.71	505.99	52.67	N.D.	154.55	4.33	13.77

Table 9, continued. Mean metal values in sediments from Little Bayou Creek and effluents collected March 16-18, 2004.

Station	Sediment Metal Conc. ($\mu\text{g/g}$)							
	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
LB1	0.28	N.D.	N.D.	12.63	10.42	0.16	22.54	142.99
LB2A	0.63	N.D.	N.D.	10.27	1.52	0.23	25.89	22.33
LB2	0.34	N.D.	N.D.	7.93	1.49	0.11	12.32	29.63
LB3	1.26	N.D.	0.39	9.46	2.11	0.25	33.62	51.02
LB4	0.22	N.D.	N.D.	9.18	1.84	0.10	9.16	19.17
001	0.28	N.D.	N.D.	7.90	4.15	0.13	8.16	24.72
006	0.23	N.D.	N.D.	7.56	4.01	0.38	11.25	12.60
008	0.37	N.D.	0.34	6.92	5.75	0.17	19.55	41.50
010+011	0.29	N.D.	N.D.	8.80	2.00	0.06	12.33	35.43

Table 10. Mean metal values in sediments from Little Bayou Creek and effluents collected October 1-2, 2004.

Station	Sediment Metal Conc. ($\mu\text{g/g}$)									
	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr
LB2A	0.012	3966.7	4.88	359.3	29.21	0.50	619.0	0.99	3.07	16.81
LB2	0.016	9559.8	1.25	231.7	24.84	0.34	798.4	0.71	5.22	16.58
LB3	0.016	4038.9	13.08	467.9	36.12	0.80	612.4	1.91	5.13	50.42
LB4	0.004	660.5	1.48	226.8	14.30	N.D.	179.0	0.40	1.47	24.74
001	0.013	4026.7	0.50	210.2	33.61	0.24	1036.6	0.44	2.11	9.51
006	0.028	7684.4	1.96	221.7	30.22	0.31	1142.3	0.78	2.99	10.01
008	0.012	8578.7	0.80	226.0	25.15	0.35	625.9	0.91	2.70	14.13
010+011	0.013	3956.2	2.30	221.9	20.44	0.35	685.7	0.78	3.72	17.48

Table 10, continued. Mean metal values in sediments from Little Bayou Creek and effluents collected October 1-2, 2004.

Station	Sediment Metal Conc. ($\mu\text{g/g}$)									
	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P
LB2A	3.69	19278.0	701.6	2.34	175.35	236.58	0.33	491.2	5.01	226.57
LB2	4.57	13840.8	437.4	5.67	481.88	348.38	N.D.	423.6	4.75	141.01
LB3	8.03	38982.4	548.6	3.00	243.12	466.49	0.70	410.6	7.20	582.88
LB4	2.73	5900.7	583.9	0.51	N.D.	66.91	N.D.	385.0	1.43	165.44
001	12.78	5931.5	518.1	5.82	668.75	46.49	N.D.	462.6	5.58	198.44
006	5.32	14862.9	490.8	6.81	635.47	543.80	0.28	526.4	5.70	209.83
008	5.11	16240.5	416.4	4.85	272.71	114.21	0.30	418.5	4.93	210.74
010+011	3.87	15036.3	714.1	2.73	206.08	199.21	0.25	494.6	5.32	166.59

Table 10, continued. Mean metal values in sediments from Little Big Bayou Creek and effluents collected October 1-2, 2004.

Station	Sediment Metal Conc. ($\mu\text{g/g}$)									
	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	V	Zn
LB2A	47.96	0.82	20.40	420.9	0.60	9.94	2.43	N.D.	23.37	67.42
LB2	40.91	0.77	32.17	408.5	N.D.	12.15	3.24	0.44	16.28	78.67
LB3	70.34	1.77	27.02	418.4	0.68	10.38	10.84	0.62	41.54	94.35
LB4	36.61	0.73	25.96	417.0	0.42	2.66	10.05	N.D.	9.59	68.38
001	36.17	0.58	22.82	404.8	0.29	8.07	12.43	N.D.	7.46	139.04
006	44.57	0.77	22.91	414.5	0.36	10.21	16.59	1.00	16.64	71.72
008	46.72	0.89	29.03	428.5	0.31	6.55	4.89	0.73	18.23	70.08
010+011	43.70	0.80	29.35	420.1	0.39	5.83	1.72	0.40	15.68	82.45

Table 11. Mean metal values in floodplain soils from Massac Creek and Big Bayou Creek collected March 16-18, 2004.

Station	Floodplain soils Metal Conc. ($\mu\text{g/g}$)									
	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr
MC	0.098	5101.69	4.31	2156.19	N.D.	0.577	478.95	1.78	3.68	18.58
BB1A	0.091	1974.75	1.88	N.D.	N.D.	0.196	2702.68	0.69	1.67	4.26
BB1	0.070	1835.35	2.00	N.D.	22.77	0.167	5247.40	0.76	1.34	7.84
BB2	0.096	5844.71	3.19	N.D.	N.D.	0.426	2303.31	1.31	4.57	12.64
BB2A	0.084	1075.35	2.38	N.D.	30.68	0.216	801.45	0.61	1.96	6.73
BB3	0.085	1982.59	2.33	N.D.	27.68	0.252	1356.47	0.70	2.38	7.01
BB4	0.082	2012.60	2.05	N.D.	26.40	0.249	814.30	0.71	1.97	14.93
BB5	0.087	2517.74	2.44	N.D.	36.11	0.242	1020.43	0.68	1.88	5.95
BB6	0.093	1761.17	2.70	N.D.	32.07	0.259	987.65	0.86	2.35	7.71
BB7	0.107	2843.39	2.51	N.D.	34.32	0.293	878.65	0.89	2.21	7.79
BB8	0.082	2823.88	2.30	N.D.	30.88	0.225	789.49	0.63	1.91	7.70
BB9	0.094	4684.43	1.93	N.D.	34.40	0.355	1236.74	0.92	2.27	9.28

Table 11, continued. Mean metal values in floodplain soils from Massac Creek (MC) and Big Bayou Creek collected March 16-18, 2004.

Station	Floodplain soils Metal Conc. ($\mu\text{g/g}$)									
	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	Pb
MC	6.77	19332.06	215.15	5.91	717.85	896.88	0.81	136.38	8.67	14.03
BB1A	4.49	3120.69	120.89	4.12	540.73	527.94	N.D.	116.30	4.98	10.20
BB1	4.36	4504.05	92.16	2.53	535.36	173.22	N.D.	97.23	3.11	10.53
BB2	7.35	12547.84	389.57	8.04	1336.11	500.43	0.34	151.22	8.25	23.70
BB2A	2.73	3919.60	44.76	2.03	312.13	285.45	N.D.	90.81	2.74	11.37
BB3	3.74	5600.45	63.84	3.36	426.36	295.16	N.D.	119.29	4.44	14.88
BB4	3.76	5582.99	94.27	3.43	398.48	257.35	N.D.	135.17	3.70	13.63
BB5	4.17	4340.65	74.01	4.20	531.33	463.95	N.D.	151.97	4.34	13.29
BB6	4.61	5746.44	N.D.	3.33	393.69	389.50	N.D.	161.27	3.84	15.50
BB7	4.75	6450.69	127.68	4.29	521.80	511.39	0.29	153.17	4.42	17.11
BB8	4.27	4682.48	227.01	3.83	481.61	289.87	N.D.	130.88	3.96	12.65
BB9	6.53	7410.05	318.58	7.10	885.10	398.91	0.27	150.48	7.03	16.42

Table 11, continued. Mean metal values in floodplain soils from Massac Creek (MC) and Big Bayou Creek collected March 16-18, 2004.

Station	Floodplain soils Metal Conc. ($\mu\text{g/g}$)							
	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
MC	0.77	N.D.	0.81	5.47	20.13	0.94	28.47	325.36
BB1A	N.D.	N.D.	0.29	14.48	10.92	1.39	8.33	15.00
BB1	0.31	N.D.	N.D.	11.37	9.11	0.19	7.49	18.20
BB2	0.52	N.D.	0.38	12.13	13.87	0.52	19.85	25.80
BB2A	N.D.	N.D.	0.32	5.41	11.14	0.69	11.07	11.46
BB3	0.30	N.D.	0.30	6.73	10.48	0.30	12.35	18.89
BB4	0.45	N.D.	0.40	6.91	10.81	0.29	13.00	14.06
BB5	0.25	N.D.	N.D.	8.67	11.29	1.19	10.51	15.58
BB6	0.40	N.D.	0.52	6.68	12.58	0.52	12.96	15.69
BB7	0.27	N.D.	0.37	8.18	10.62	0.95	13.24	16.31
BB8	0.36	N.D.	0.28	6.25	11.63	0.17	10.95	15.53
BB9	0.37	N.D.	0.34	7.54	10.45	0.75	12.34	27.99

Table 12. Mean metal values in floodplain soils from Massac Creek and Big Bayou Creek collected October 1-2, 2004.

Station	Floodplain Soil Metal Conc. ($\mu\text{g/g}$)									
	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr
BB1A	0.036	5066.7	2.67	450.3	29.65	0.32	719.9	0.73	3.16	8.87
BB1	0.029	2677.2	1.93	459.4	19.80	0.25	10202.0	0.88	2.34	9.20
BB2A	0.036	9573.4	2.15	296.0	46.93	0.37	2361.7	0.99	3.53	11.77
BB2	0.038	10226.3	2.47	276.6	53.04	0.37	1984.8	0.93	3.55	10.11
BB3	0.028	6697.8	2.19	269.9	32.74	0.30	1103.7	0.76	3.18	8.93
BB4	0.022	2447.7	1.97	265.9	23.42	0.25	410.0	0.59	1.85	10.34
BB5	0.040	5963.9	1.97	251.8	27.19	0.29	921.7	0.75	2.56	7.65
BB6	0.021	3830.8	1.92	248.5	27.09	0.24	877.0	0.64	2.51	8.49
BB7	0.051	8980.9	2.52	358.2	37.16	0.29	794.9	0.90	2.79	12.27
BB8	0.039	10242.4	1.97	244.2	47.84	0.35	1629.2	0.87	3.47	11.06
BB9	0.017	5467.8	1.19	233.9	28.64	0.28	626.1	0.64	2.56	11.96

Table 12, continued. Mean metal values in floodplain soils from Massac Creek (MC) and Big Bayou Creek collected October 1-2, 2004.

Station	Floodplain Soil Metal Conc. ($\mu\text{g/g}$)									
	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P
BB1A	4.55	11417.0	486.0	5.45	436.73	480.04	0.25	374.5	5.07	233.18
BB1	3.37	12516.3	409.8	2.12	388.83	398.31	0.27	307.5	4.56	221.10
BB2A	6.36	15587.2	738.1	9.34	675.70	446.35	0.31	382.1	6.52	304.47
BB2	7.15	14583.1	779.5	10.92	755.94	481.01	0.30	417.9	7.53	310.39
BB3	5.08	12030.5	672.1	6.62	540.51	542.89	0.28	478.5	5.28	209.74
BB4	2.41	9292.2	557.6	1.64	49.15	303.97	N.D.	444.3	2.85	211.36
BB5	4.17	11185.3	562.7	5.30	478.51	426.74	0.25	421.5	4.25	223.08
BB6	8.75	9629.3	598.8	3.62	450.74	426.72	N.D.	436.7	3.75	180.37
BB7	6.91	13290.3	680.3	8.07	757.34	715.79	0.33	447.9	6.00	216.11
BB8	7.94	13434.6	693.1	10.04	880.78	523.75	0.27	441.8	7.57	297.59
BB9	5.16	9526.5	501.2	6.71	491.17	271.26	0.24	435.3	5.36	232.42

Table 12, continued. Mean metal values in floodplain soils from Massac Creek (MC) and Big Bayou Creek collected October 1-2, 2004.

Station	Floodplain Soil Metal Conc. ($\mu\text{g/g}$)									
	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	V	Zn
BB1A	42.21	0.71	25.48	396.7	0.77	8.99	16.68	0.93	16.31	59.92
BB1	40.59	0.76	28.32	361.6	0.99	13.18	9.05	0.36	9.15	65.57
BB2A	48.56	1.05	24.26	372.0	0.59	23.35	9.96	0.94	18.60	72.81
BB2	46.75	0.84	30.00	370.8	0.75	12.31	16.97	0.64	18.81	71.49
BB3	46.58	0.61	20.37	367.4	0.64	10.45	14.03	0.56	16.35	64.32
BB4	41.69	0.70	41.06	370.1	0.76	4.78	17.54	0.82	14.21	53.85
BB5	42.02	0.80	25.11	365.8	0.68	8.72	13.39	0.75	12.49	64.34
BB6	42.08	0.63	29.78	367.6	0.62	7.01	16.28	0.62	13.95	57.55
BB7	64.29	0.87	21.82	372.0	0.71	8.41	14.90	1.46	16.92	65.28
BB8	47.88	0.87	18.11	372.4	0.74	11.90	12.61	0.82	17.35	72.54
BB9	41.89	0.69	29.45	367.9	0.75	6.98	17.46	0.41	12.41	58.37

Table 13. Mean metal values in floodplain soils from Little Bayou Creek and effluents collected March 16-18, 2004.

Station	Floodplain soils Metal Conc. ($\mu\text{g/g}$)									
	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr
LB1	0.088	4762.00	1.79	N.D.	42.48	0.288	1169.73	0.67	2.19	7.18
LB2A	0.095	2839.37	2.14	N.D.	37.67	0.166	756.98	0.51	1.65	32.76
LB2	0.098	3755.19	1.82	N.D.	43.37	0.264	1022.62	0.67	1.72	14.76
LB3	0.079	1719.58	2.18	N.D.	32.01	0.246	1325.66	0.59	2.13	15.99
LB4	0.097	1514.40	1.84	N.D.	25.43	0.208	1106.43	0.60	1.52	26.00
001	0.085	4719.76	2.32	N.D.	43.52	0.240	1394.17	0.82	2.13	18.16
006	0.089	2214.98	1.79	N.D.	31.25	0.188	965.37	0.53	2.09	6.78

Table 13, continued. Mean metal values in floodplain soils from Little Bayou Creek and effluents collected March 16-18, 2004.

Station	Floodplain soils Metal Conc. ($\mu\text{g/g}$)									
	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	Pb
LB1	5.88	5522.48	232.69	6.60	868.53	425.29	N.D.	176.10	5.39	14.60
LB2A	5.08	3572.89	127.57	4.46	570.81	484.77	N.D.	164.09	4.27	12.19
LB2	6.19	4975.31	90.41	5.25	627.99	461.50	N.D.	175.30	5.11	13.85
LB3	4.38	3943.65	N.D.	3.21	402.71	260.48	N.D.	148.97	3.77	12.03
LB4	6.13	3416.99	47.77	2.83	327.89	514.19	N.D.	165.35	3.79	10.73
001	7.83	8331.24	321.53	6.64	911.60	200.40	N.D.	120.74	6.93	15.77
006	3.84	5430.24	64.94	3.74	470.27	391.37	N.D.	145.04	3.88	13.87

Table 13, continued. Mean metal values in floodplain soils from Little Bayou Creek and effluents collected March 16-18, 2004.

Station	Floodplain soils Metal Conc. ($\mu\text{g/g}$)							
	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
LB1	0.27	N.D.	N.D.	7.85	8.62	0.78	13.19	21.16
LB2A	0.30	N.D.	N.D.	6.83	7.17	1.15	9.28	32.00
LB2	0.50	N.D.	0.29	9.34	6.72	1.07	11.25	34.61
LB3	N.D.	N.D.	N.D.	10.20	5.31	0.50	10.92	46.36
LB4	0.27	0.27	0.30	7.82	7.27	1.38	8.40	27.72
001	0.28	N.D.	N.D.	10.11	13.54	0.08	17.00	26.09
006	N.D.	N.D.	0.40	6.86	10.79	0.60	12.01	12.96

Table 14. Mean metal values in floodplain soils from Little Bayou Creek and effluents collected October 1-2, 2004.

Station	Floodplain Soil Metal Conc. ($\mu\text{g/g}$)									
	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr
LB2A	0.041	7199.6	1.22	232.3	47.64	0.28	1409.6	0.66	2.88	40.08
LB2	0.037	8296.6	1.23	223.0	50.28	0.29	1406.7	0.70	2.80	21.07
LB3	0.033	4406.6	1.49	223.3	37.07	0.26	4218.1	0.64	2.73	28.04
LB4	0.087	5144.6	1.15	217.0	39.23	0.31	1196.5	0.59	2.17	41.08
001	0.030	12031.4	4.00	410.7	59.15	0.44	2080.8	1.13	3.68	10.32
006	0.044	7205.5	1.92	216.0	37.97	0.29	1783.2	0.72	3.03	8.52
008	0.016	8680.8	1.17	212.1	61.47	0.45	2133.0	0.84	2.69	15.26
010+011	0.029	9047.1	0.73	214.6	37.28	0.27	1342.0	0.68	2.39	14.30

Table 14, continued. Mean metal values in floodplain soils from Little Bayou Creek and effluents collected October 1-2, 2004.

Station	Floodplain Soil Metal Conc. ($\mu\text{g/g}$)									
	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P
LB2A	7.14	9479.2	490.6	6.82	660.78	550.46	N.D.	446.9	5.95	194.98
LB2	6.53	9545.4	497.0	7.73	647.99	540.28	0.25	444.9	6.48	269.85
LB3	5.79	9147.2	557.2	4.99	455.91	503.29	0.23	430.9	4.81	259.72
LB4	6.83	6995.6	426.9	5.03	358.85	365.13	0.21	424.8	5.36	221.17
001	14.30	18600.6	587.1	10.01	906.47	589.68	0.29	489.9	6.70	186.09
006	5.62	11036.2	595.1	6.85	759.24	593.57	0.24	459.8	5.60	240.56
008	6.37	12956.5	565.7	6.99	565.68	340.44	0.25	480.7	5.48	225.22
010+011	7.60	9251.2	546.9	8.53	820.99	523.45	N.D.	534.0	6.92	231.45

Table 14, continued. Mean metal values in floodplain soils from Little Big Bayou Creek and effluents collected October 1-2, 2004.

Station	Floodplain Soil Metal Conc. ($\mu\text{g/g}$)									
	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	V	Zn
LB2A	38.11	0.92	18.87	367.0	0.56	14.76	4.64	1.62	13.73	116.04
LB2	43.63	0.87	20.99	358.4	0.79	13.28	6.18	1.68	13.69	77.50
LB3	41.83	0.73	31.79	362.0	0.63	30.40	5.74	0.55	13.60	120.55
LB4	35.35	0.72	27.85	357.1	0.60	11.97	6.00	1.11	11.39	191.72
001	50.86	1.06	27.08	353.1	0.52	13.92	6.16	0.49	24.03	68.40
006	44.78	0.74	21.65	366.3	0.67	12.20	12.34	0.55	15.00	53.68
008	44.47	0.98	29.00	356.3	0.62	11.96	8.41	1.78	23.59	65.40
010+011	39.73	0.71	24.37	369.0	0.49	10.69	6.15	0.63	13.11	95.58

Figure 1. Silver mean metal concentrations in water and sediments from Big Bayou Creek collected March 16-18, 2004.

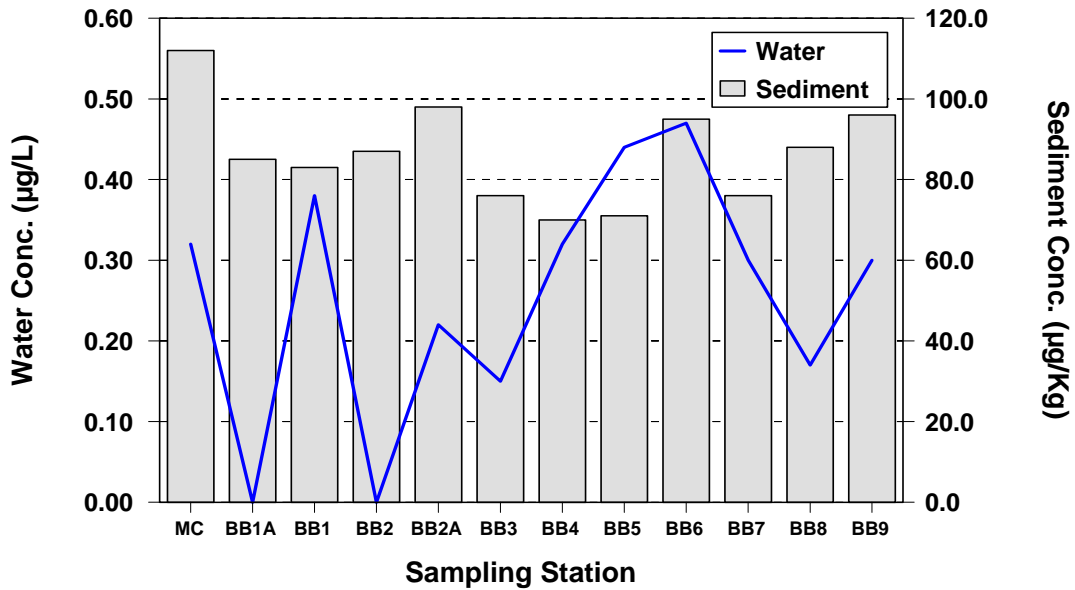


Figure 2. Silver mean metal concentrations in water and floodplain soils from Big Bayou Creek collected March 16-18, 2004.

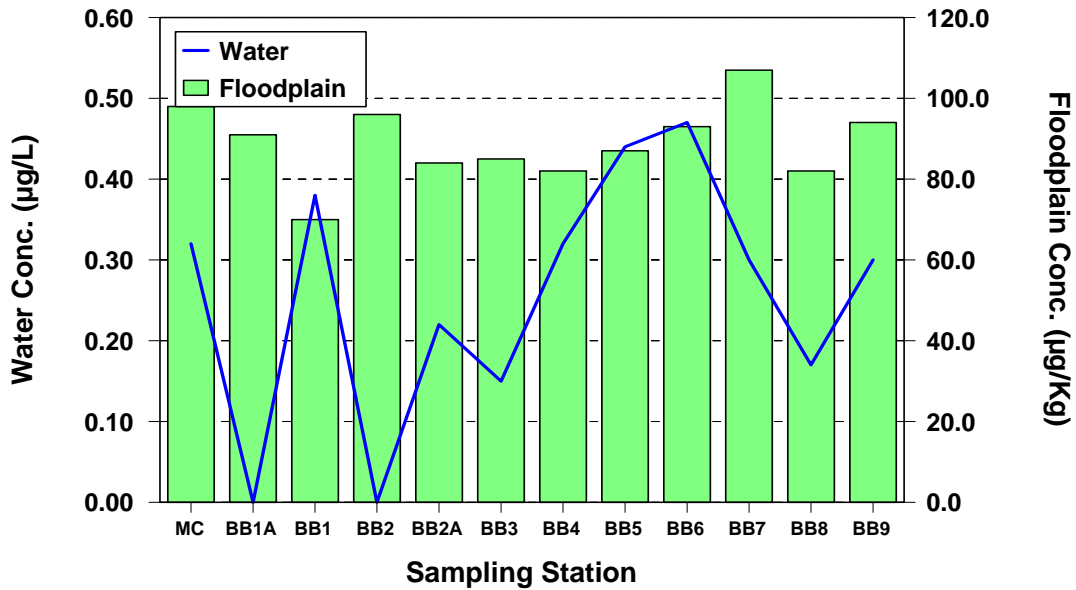


Figure 3. Silver mean metal concentrations in water and sediments from Big Bayou Creek collected October 1-2, 2004.

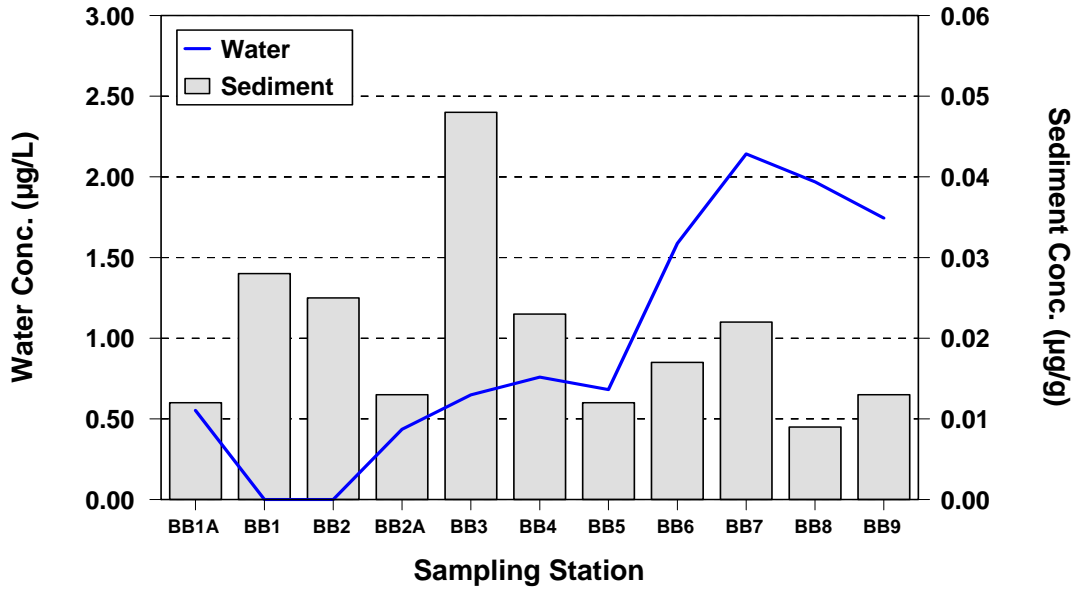


Figure 4. Silver mean metal concentrations in water and floodplain soils from Big Bayou Creek collected October 1-2, 2004.

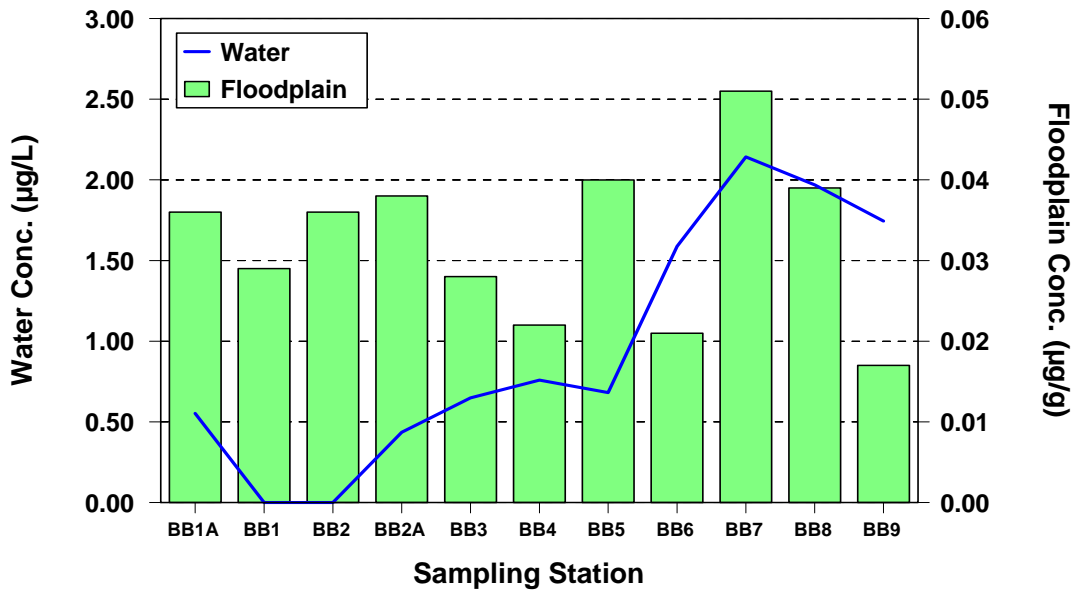


Figure 5. Copper mean metal concentrations in water and sediments from Big Bayou Creek collected March 16-18, 2004.

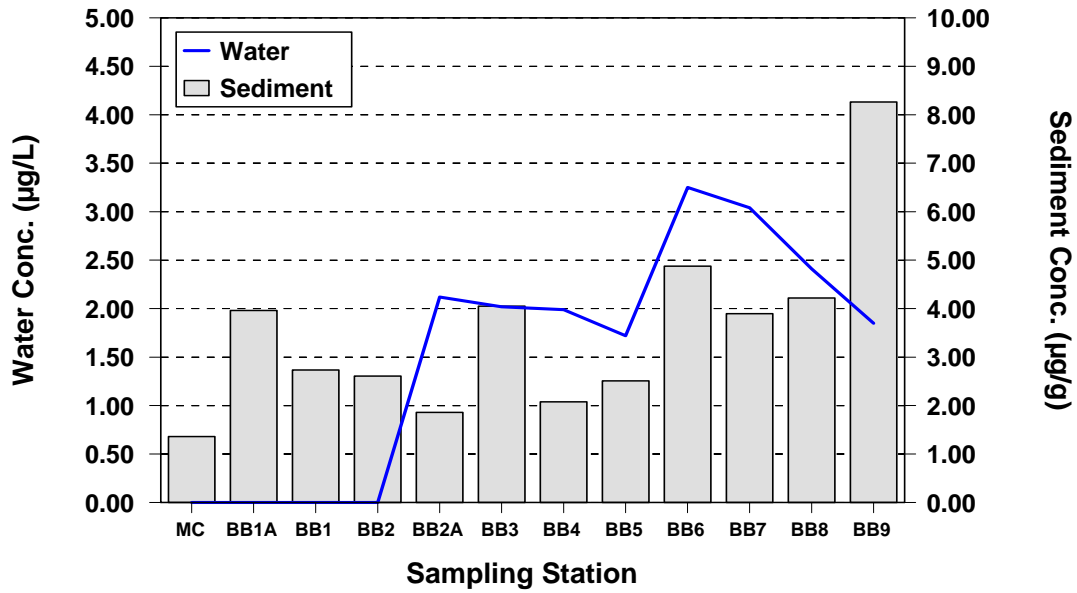


Figure 6. Copper mean metal concentrations in water and floodplain soils from Big Bayou Creek collected March 16-18, 2004.

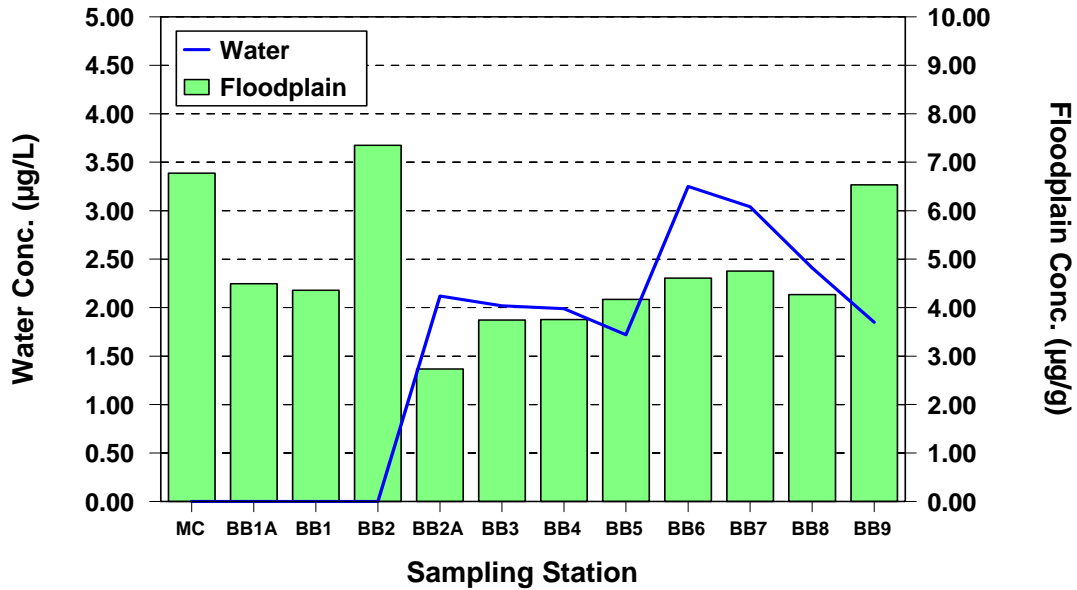


Figure 7. Copper mean metal concentrations in water and sediments from Big Bayou Creek collected October 1-2, 2004.

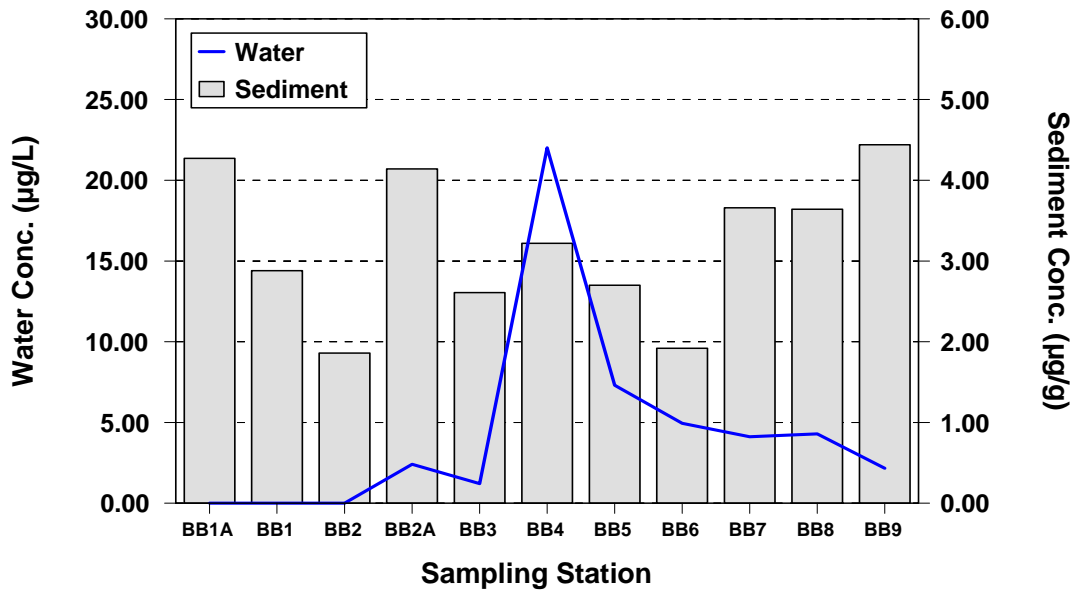


Figure 8. Copper mean metal concentrations in water and floodplain soils from Big Bayou Creek collected October 1-2, 2004.

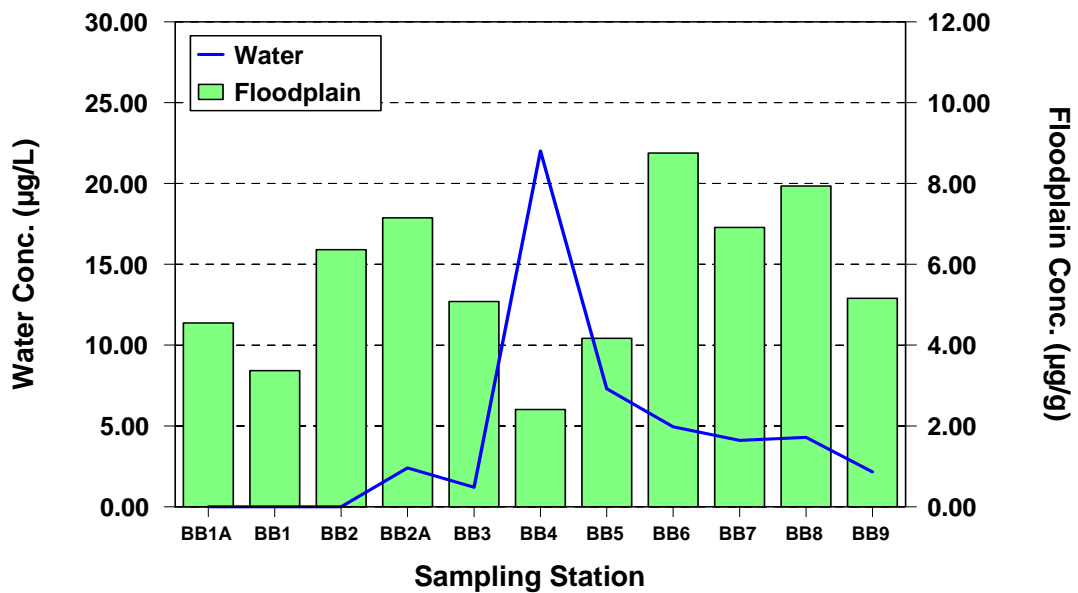


Figure 9. Iron mean metal concentrations in water and sediments from Big Bayou Creek collected March 16-18, 2004.

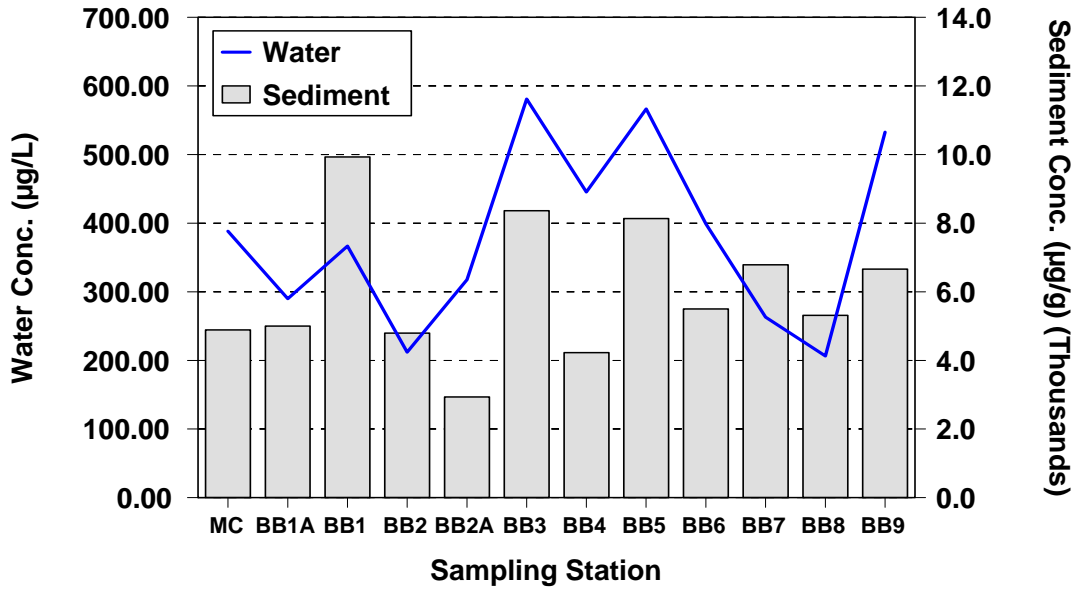


Figure 10. Iron mean metal concentrations in water and floodplain soils from Big Bayou Creek collected March 16-18, 2004.

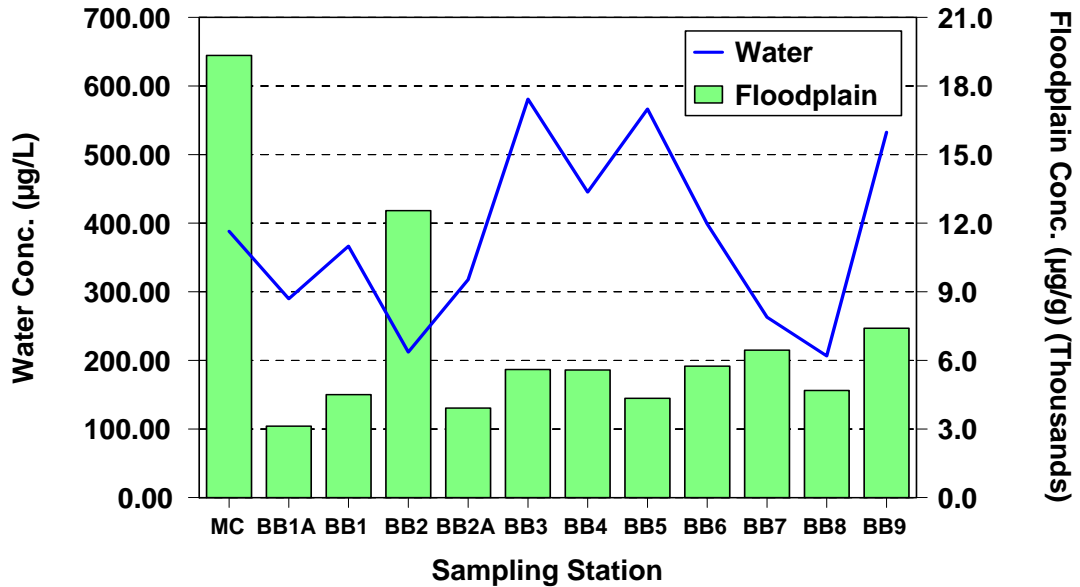


Figure 11. Iron mean metal concentrations in water and sediments from Big Bayou Creek collected October 1-2, 2004.

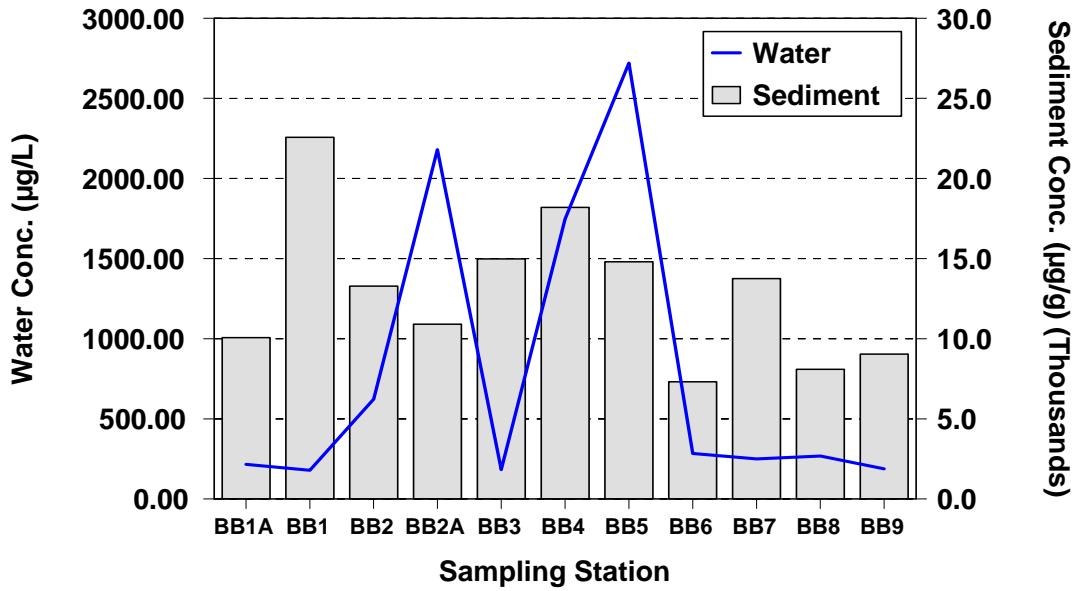


Figure 12. Iron mean metal concentrations in water and floodplain soils from Big Bayou Creek collected October 1-2, 2004.

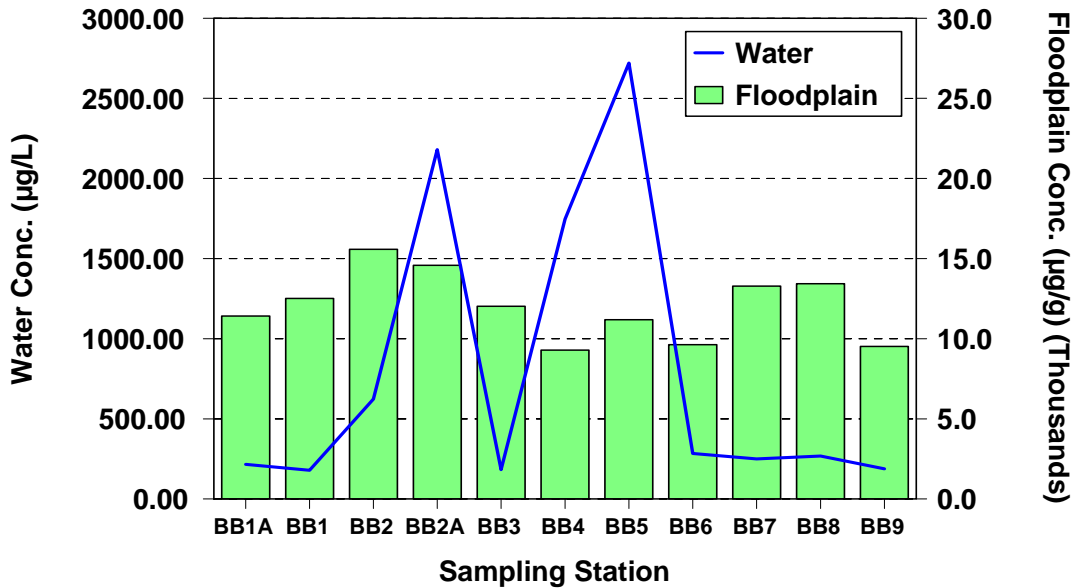


Figure 13. Nickel mean metal concentrations in water and sediments from Big Bayou Creek collected March 16-18, 2004.

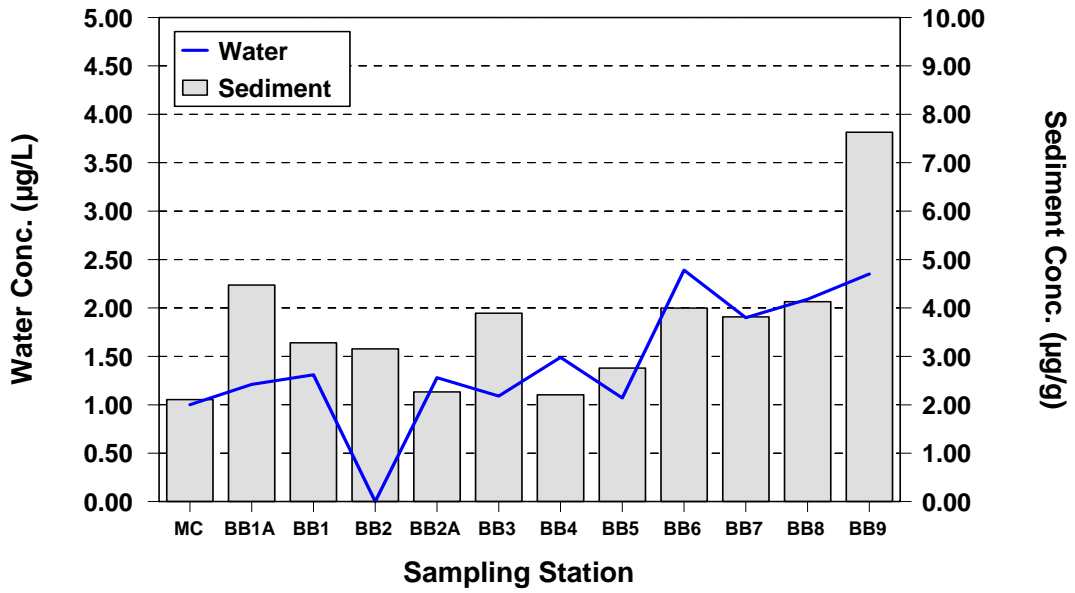


Figure 14. Nickel mean metal concentrations in water and floodplain soils from Big Bayou Creek collected March 16-18, 2004.

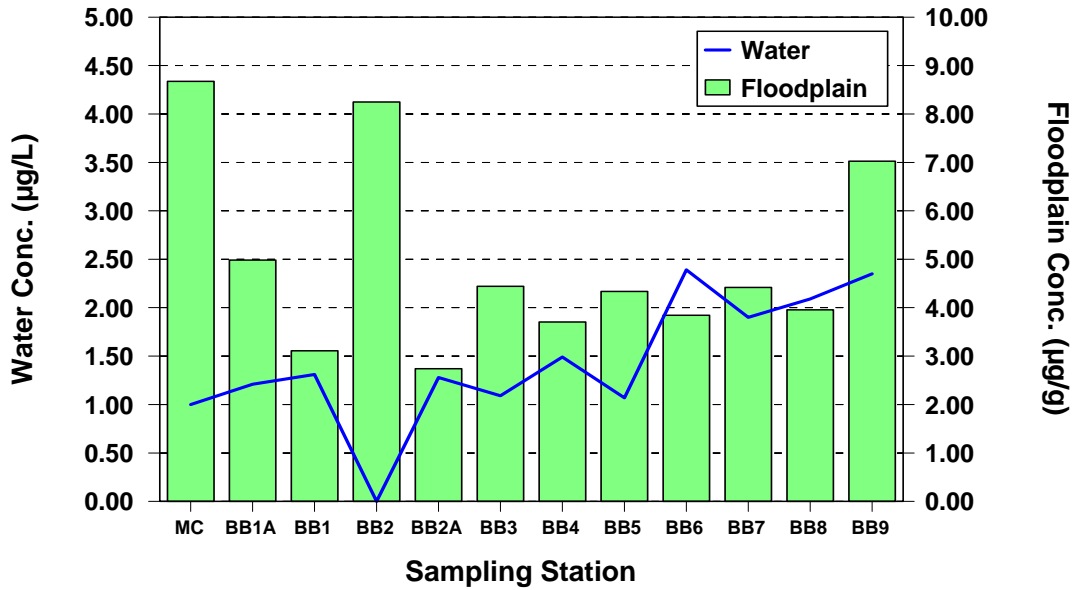


Figure 15. Nickel mean metal concentrations in water and sediments from Big Bayou Creek collected October 1-2, 2004.

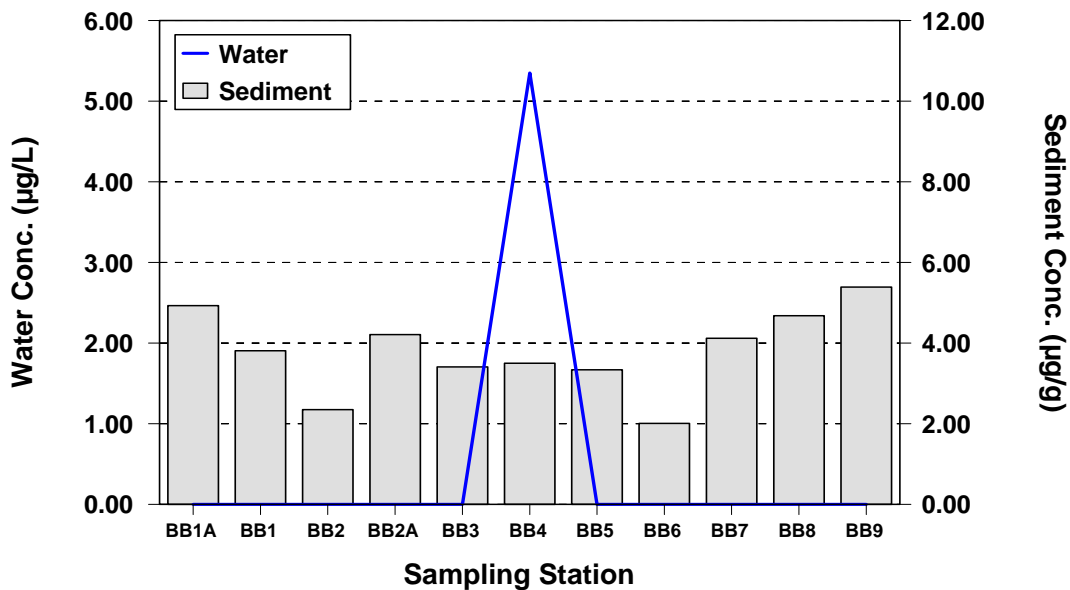


Figure 16. Nickel mean metal concentrations in water and floodplain soils from Big Bayou Creek collected October 1-2, 2004.

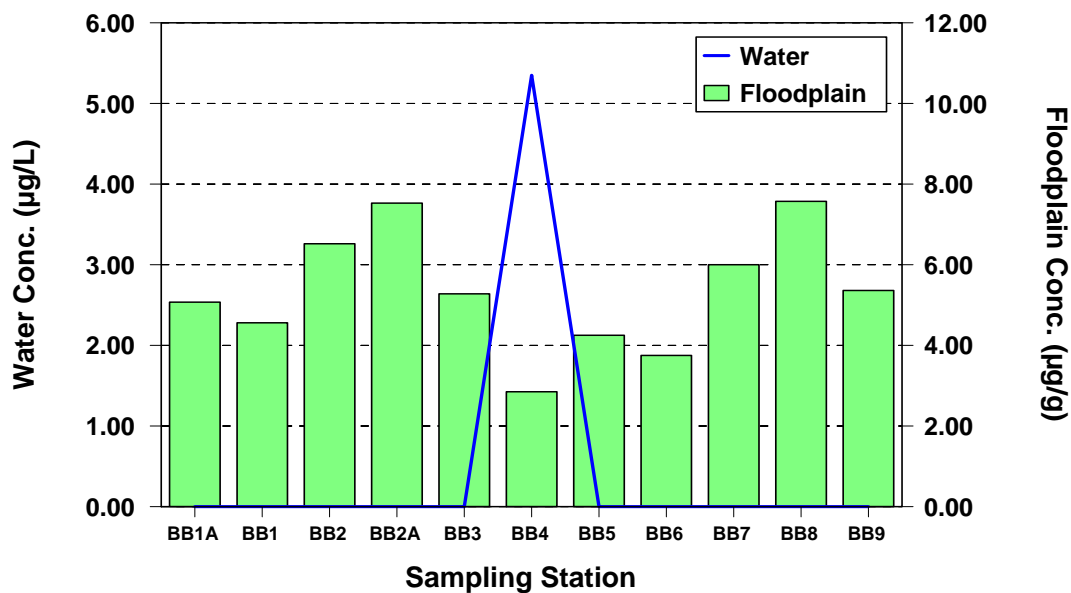


Figure 17. Zinc mean metal concentrations in water and sediments from Big Bayou Creek collected March 16-18, 2004.

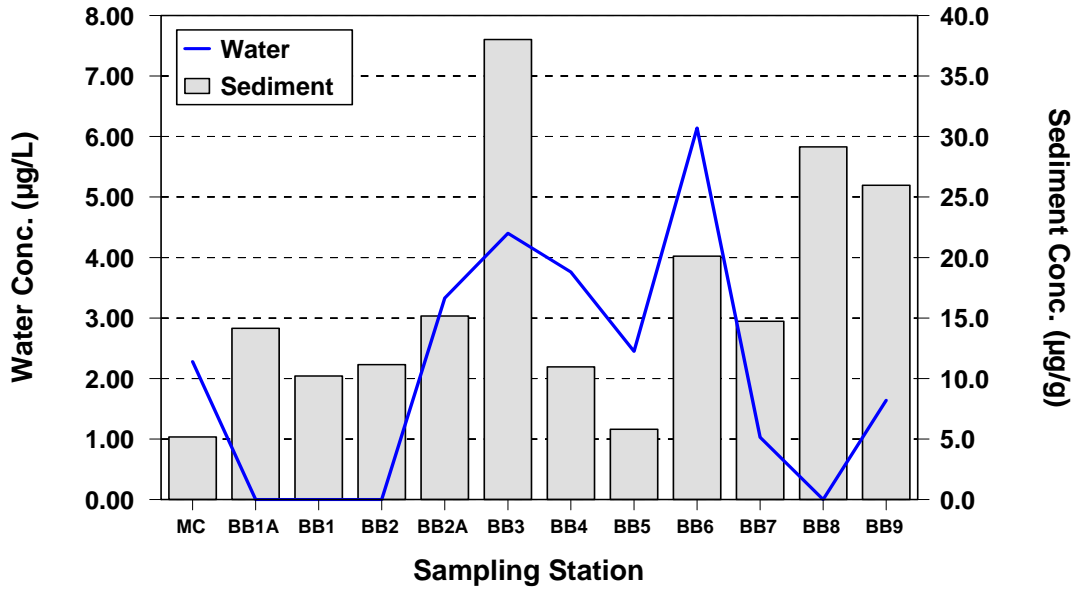


Figure 18. Zinc mean metal concentrations in water and floodplain soils from Big Bayou Creek collected March 16-18, 2004.

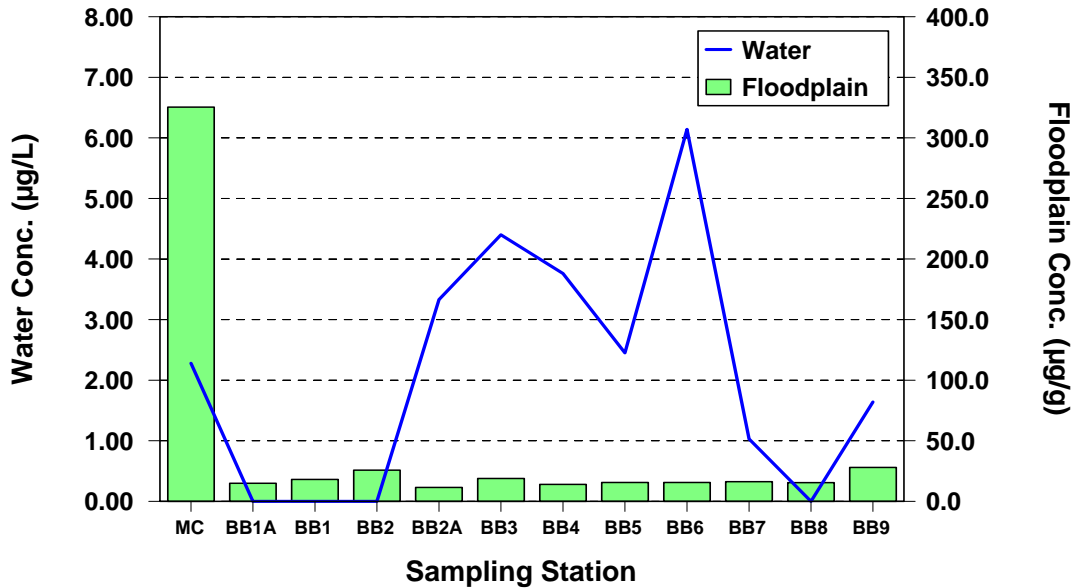


Figure 19. Zinc mean metal concentrations in water and sediments from Big Bayou Creek collected October 1-2, 2004.

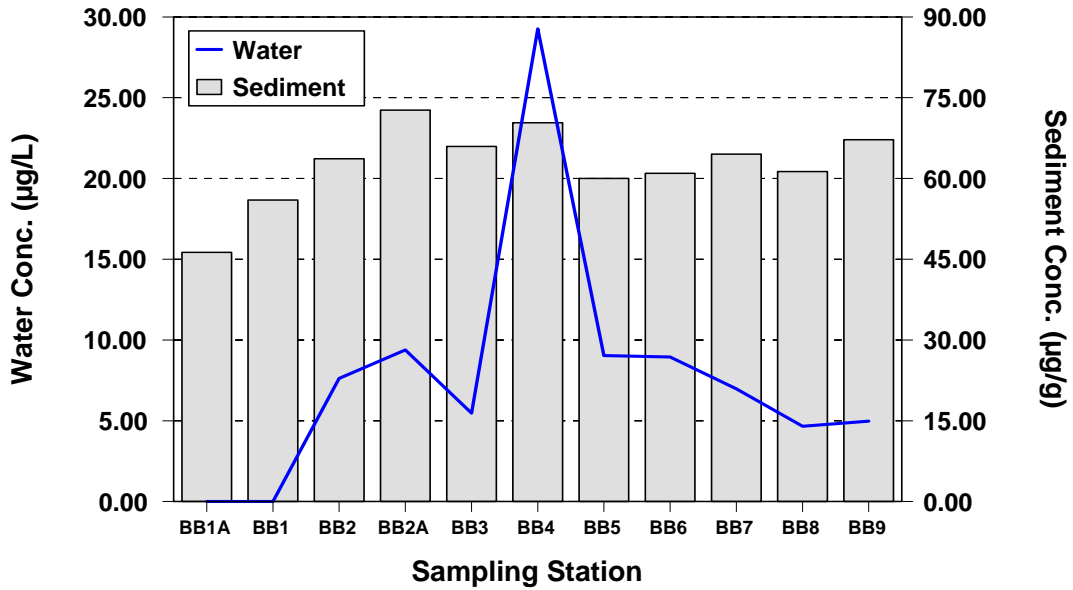


Figure 20. Zinc mean metal concentrations in water and floodplain soils from Big Bayou Creek collected October 1-2, 2004.

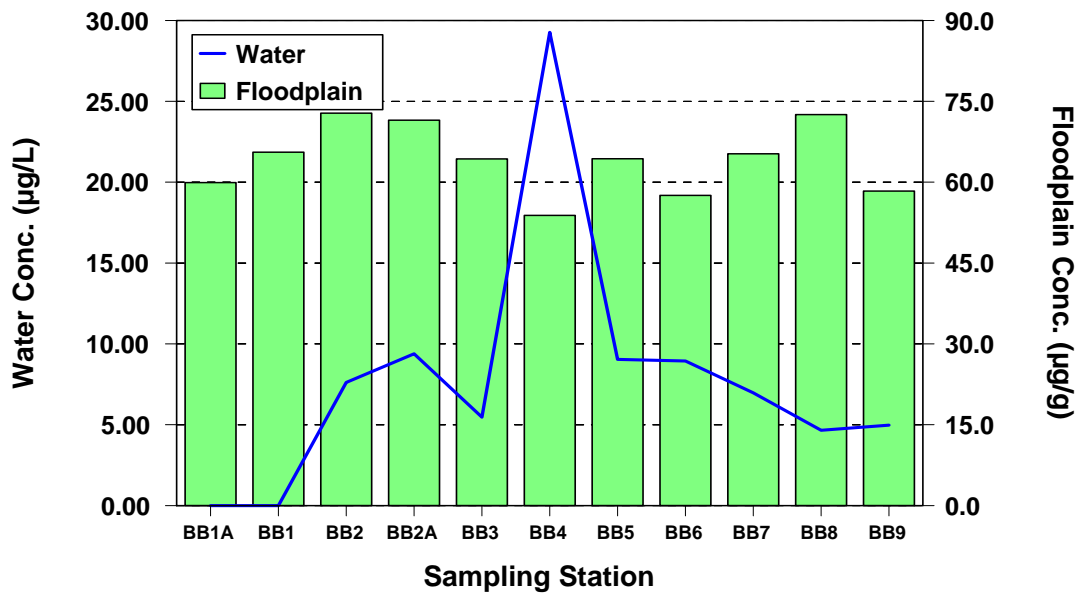


Figure 21. Silver mean metal concentrations in water and sediments from Little Bayou Creek collected March 16-18, 2004.

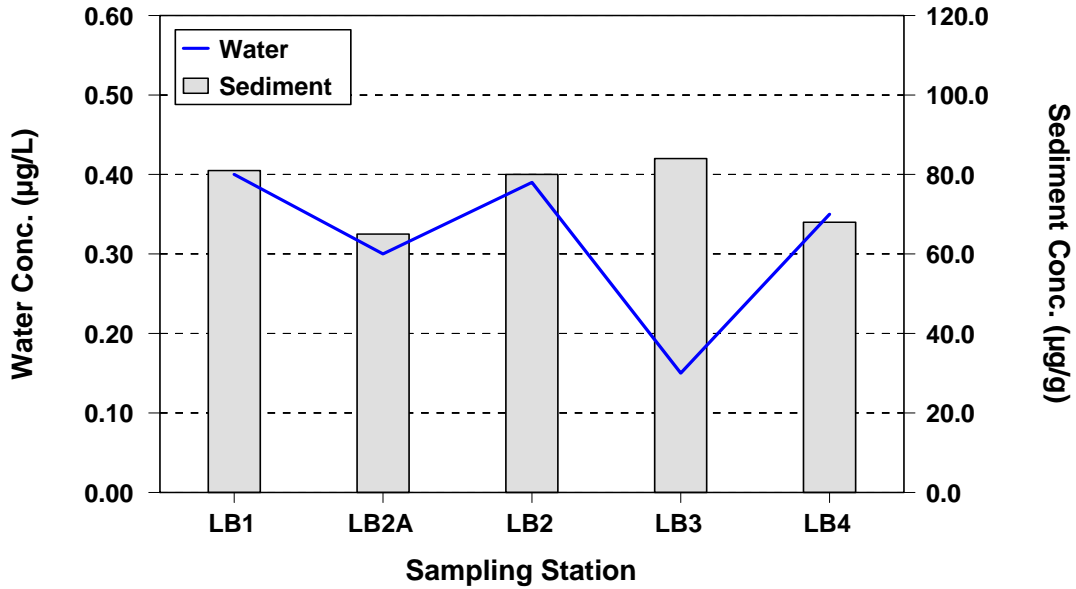


Figure 22. Silver mean metal concentrations in water and floodplain soils from Little Bayou Creek collected March 16-18, 2004.

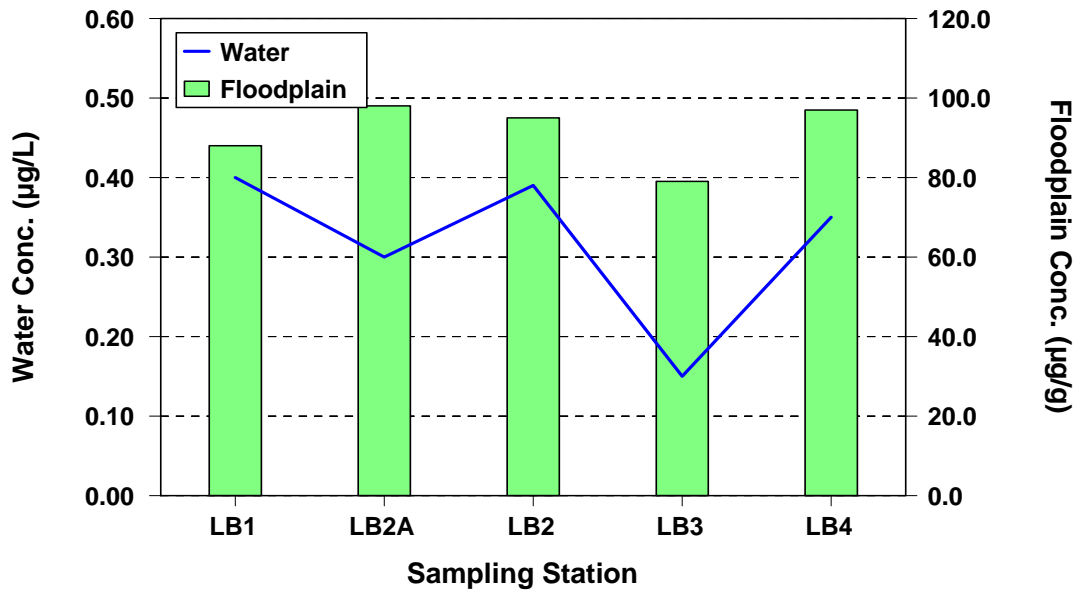


Figure 23. Silver mean metal concentrations in water and sediments from Little Bayou Creek collected October 1-2, 2004.

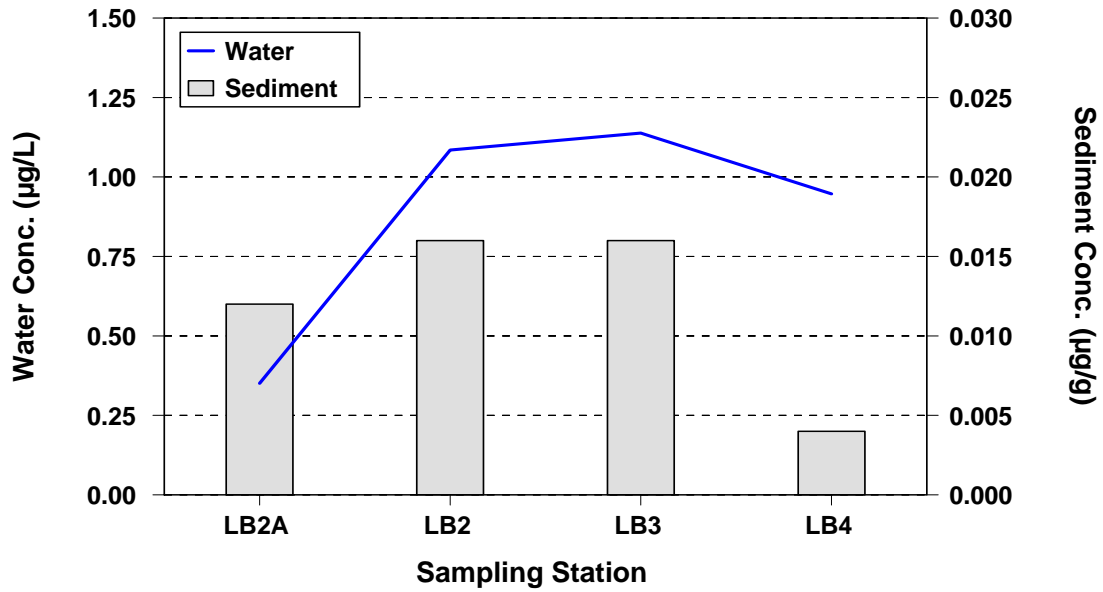


Figure 24. Silver mean metal concentrations in water and floodplain soils from Little Bayou Creek collected October 1-2, 2004.

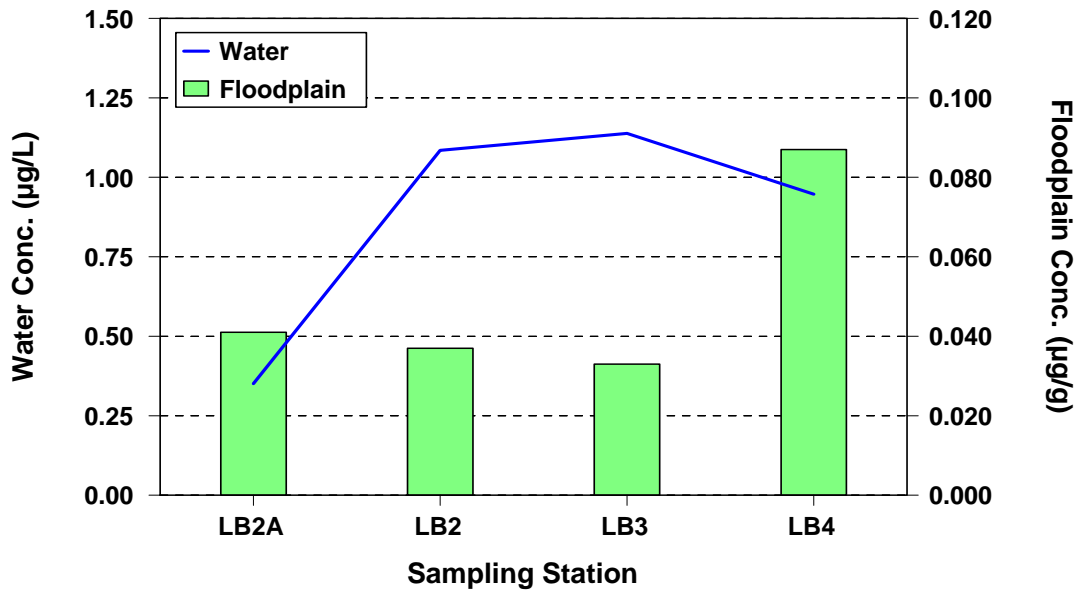


Figure 25. Copper mean metal concentrations in water and sediments from Little Bayou Creek collected March 16-18, 2004.

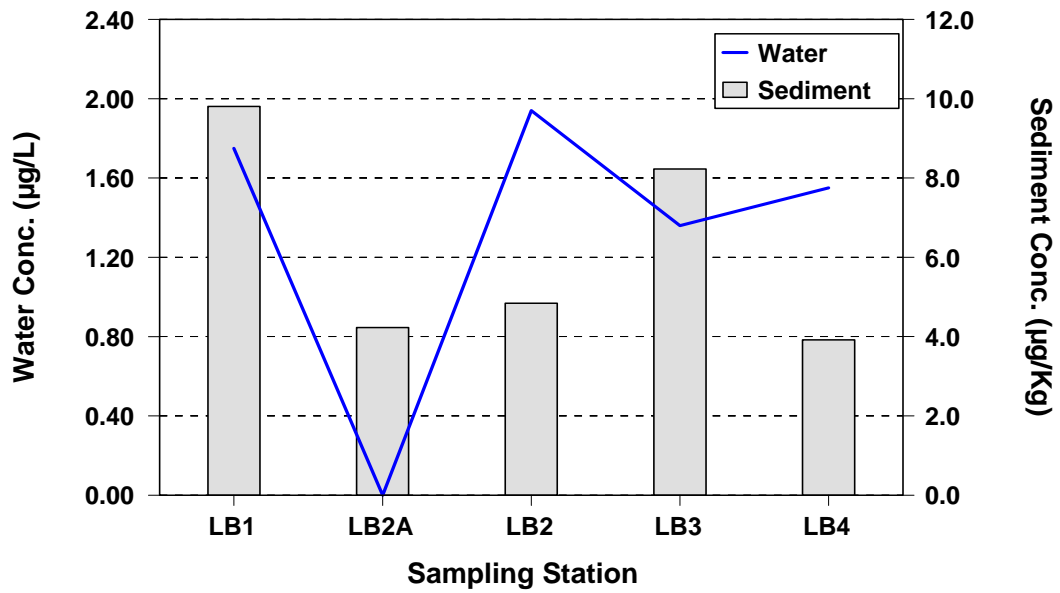


Figure 26. Copper mean metal concentrations in water and floodplain soils from Little Bayou Creek collected March 16-18, 2004.

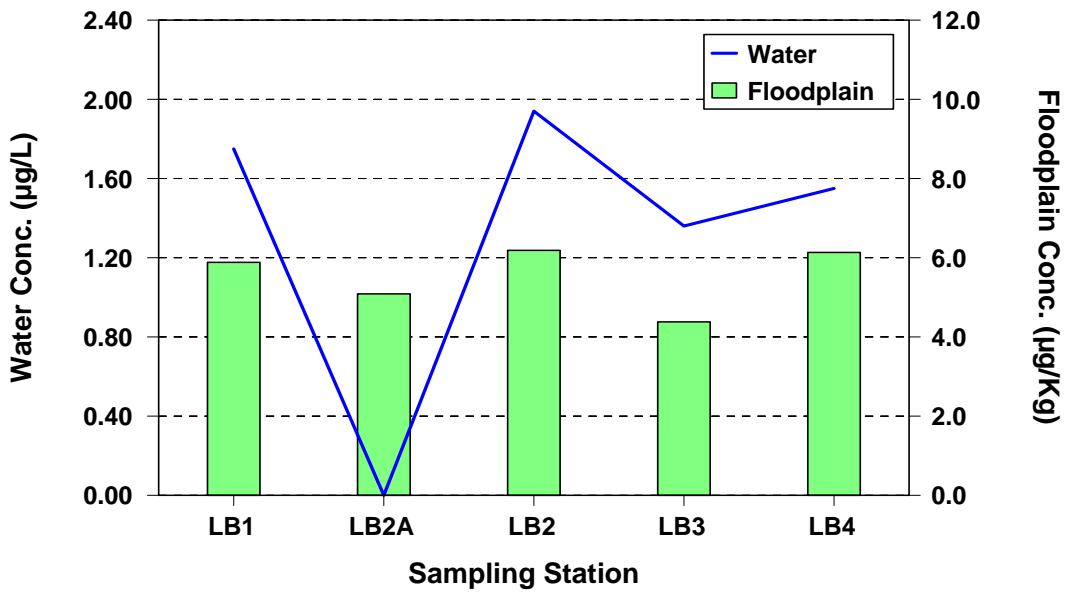


Figure 27. Copper mean metal concentrations in water and sediments from Little Bayou Creek collected October 1-2, 2004.

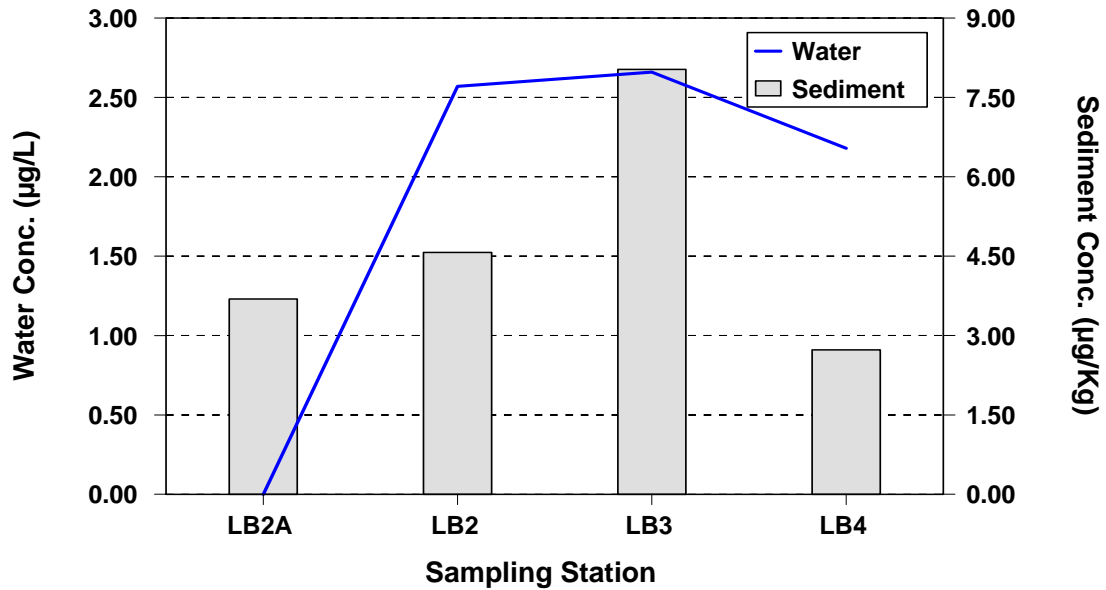


Figure 28. Copper mean metal concentrations in water and floodplain soils from Little Bayou Creek collected October 1-2, 2004.

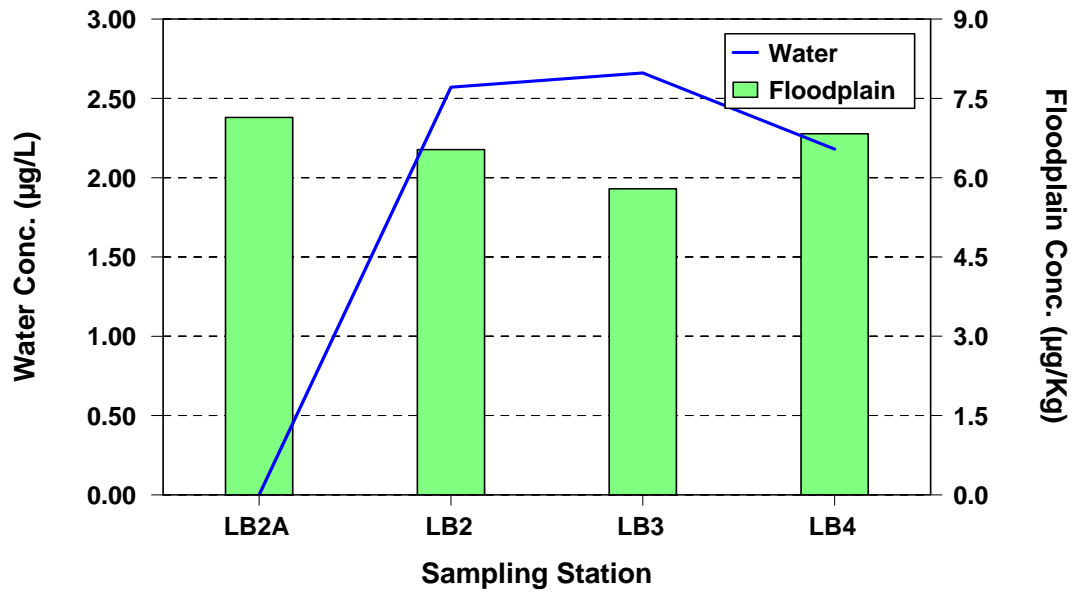


Figure 29. Zinc mean metal concentrations in water and sediments from Little Bayou Creek collected March 16-18, 2004.

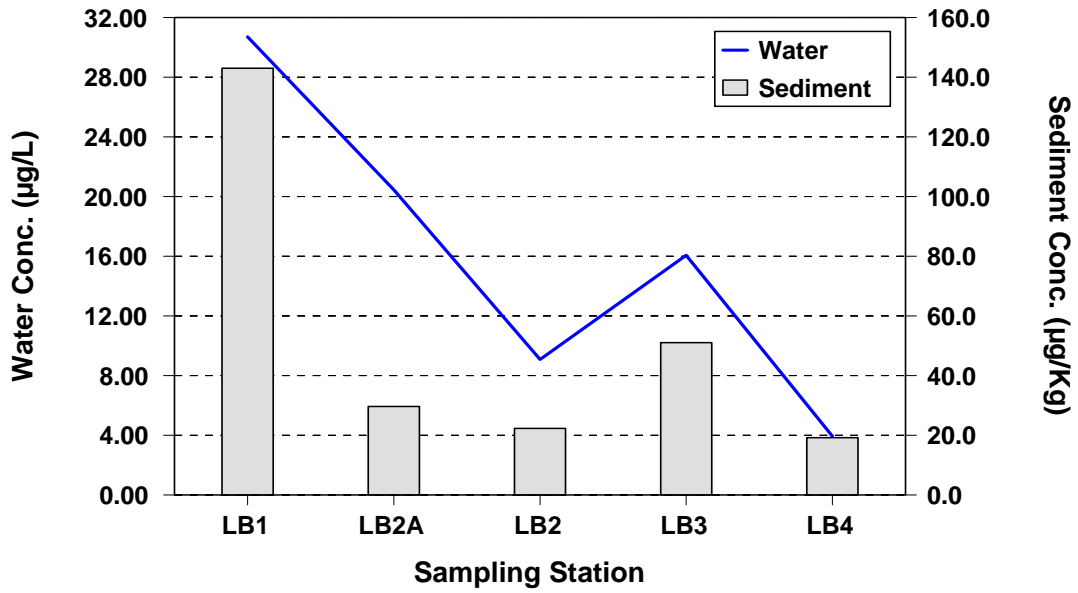


Figure 30. Zinc mean metal concentrations in water and floodplain soils from Little Bayou Creek collected March 16-18, 2004.

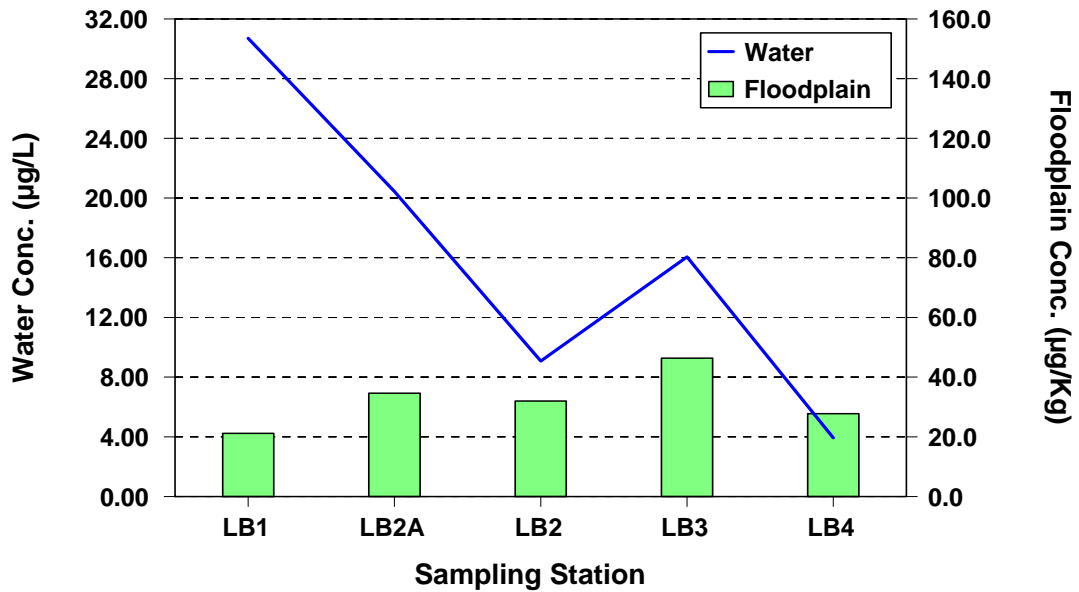


Figure 31. Zinc mean metal concentrations in water and sediments from Little Bayou Creek collected October 1-2, 2004.

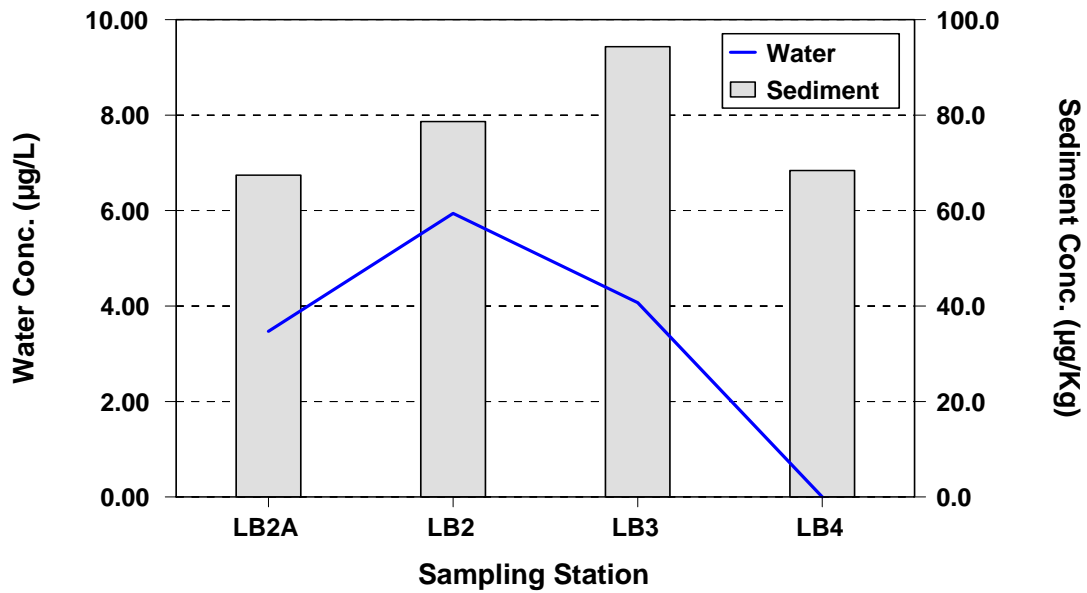
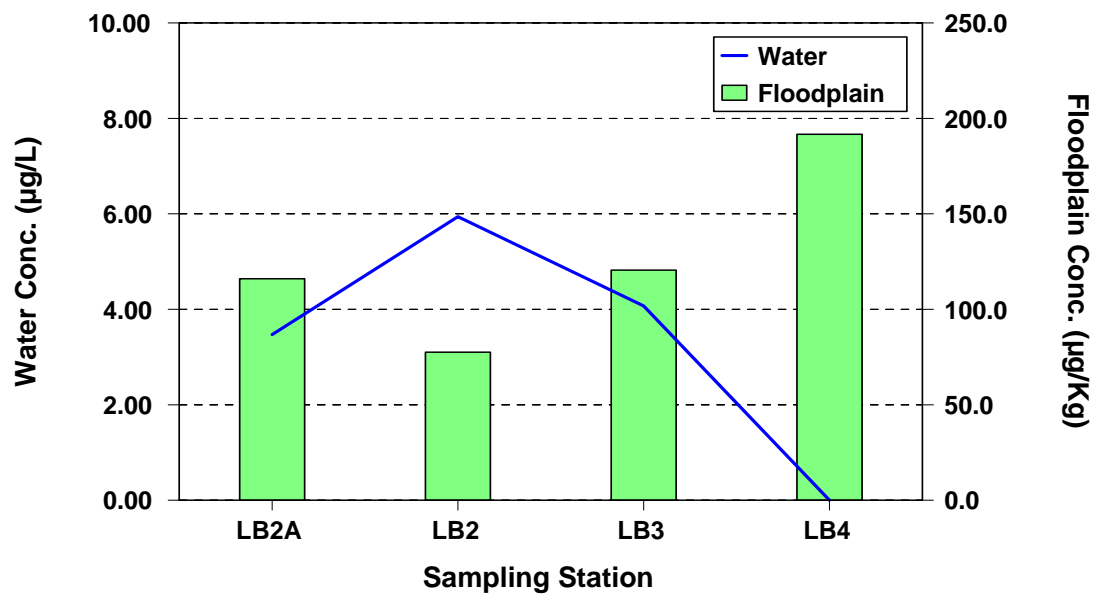


Figure 32. Zinc mean metal concentrations in water and floodplain soils from Little Bayou Creek collected October 1-2, 2004.



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APPENDIX

Table A1. Metal concentrations in water samples from Massac Creek (MC) and Big Bayou Creek collected October 1-2, 2004.

Station	Date	Sample	Water Metal Conc. ($\mu\text{g/L}$)							
			Ag	Al	As	B	Ba	Be	Ca	Cd
BB1A	10/01/04	MWS1	0.83	4827.94	<5.00	10532.33	25.63	<5.00	13973.14	1.71
BB1A	10/01/04	MWS2	0.28	4382.18	<5.00	9765.03	27.58	<5.00	14374.64	<0.25
BB1	10/01/04	MWS1	<0.25	2422.50	<5.00	4876.59	27.10	<5.00	13776.51	<0.25
BB1	10/01/04	MWS2	<0.25	5073.44	<5.00	9927.14	26.45	<5.00	14537.77	<0.25
BB2	10/01/04	MWS1	<0.25	5342.73	<5.00	9992.26	47.95	<5.00	16081.08	0.61
BB2	10/01/04	MWS2	<0.25	4232.71	<5.00	8965.85	46.87	<5.00	15625.91	<0.25
BB2A	10/01/04	MWS1	0.34	4883.65	<5.00	9354.74	19.98	<5.00	16914.72	0.73
BB2A	10/01/04	MWS2	0.53	5085.97	<5.00	10441.26	23.04	<5.00	17101.85	<0.25
BB3	10/01/04	MWS1	0.62	5009.80	<5.00	9441.71	15.16	<5.00	15386.34	3.43
BB3	10/01/04	MWS2	0.68	5345.73	<5.00	10201.28	13.93	<5.00	15315.74	<0.25
BB4	10/01/04	MWS1	0.74	6089.10	<5.00	10848.82	25.23	<5.00	15627.65	0.36
BB4	10/01/04	MWS2	0.62	5848.33	<5.00	9709.93	48.04	<5.00	15896.74	0.33
BB4	10/01/04	MWS3	0.91	4847.06	<5.00	9581.06	11.67	<5.00	14754.97	<0.25
BB5	10/01/04	MWS1	0.64	4611.49	<5.00	9084.24	14.72	<5.00	15057.60	0.65
BB5	10/01/04	MWS2	0.68	5820.54	<5.00	9400.27	24.47	<5.00	15801.34	<0.25
BB5	10/01/04	MWS3	0.72	5217.11	<5.00	9097.91	14.90	<5.00	15291.18	<0.25
BB6	10/01/04	MWS1	0.85	4048.78	<5.00	8856.10	16.80	<5.00	30258.07	0.80
BB6	10/01/04	MWS2	2.62	4543.25	<5.00	10005.01	17.18	<5.00	30636.36	<0.25
BB6	10/01/04	MWS3	1.29	4430.56	<5.00	9649.82	17.45	<5.00	30372.36	<0.25
BB7	10/01/04	MWS1	1.45	4556.78	<5.00	9490.89	18.27	<5.00	30597.54	0.84
BB7	10/01/04	MWS2	2.55	4902.11	<5.00	10390.71	21.11	<5.00	31329.54	0.38
BB7	10/01/04	MWS3	2.43	5349.59	<5.00	10153.46	25.45	<5.00	33233.06	<0.25
BB8	10/01/04	MWS1	1.96	4716.98	<5.00	9724.04	22.81	<5.00	30970.02	0.28
BB8	10/01/04	MWS2	1.98	5001.93	<5.00	9441.71	23.25	<5.00	31207.73	<0.25
BB9	10/01/04	MWS1	1.62	4432.36	<5.00	9277.32	24.94	<5.00	31080.16	<0.25
BB9	10/01/04	MWS2	1.87	4619.62	<5.00	10209.93	23.51	<5.00	31191.63	<0.25

Table A1, cont. Metal concentrations in water samples from Massac Creek (MC) and Big Bayou Creek collected October 1-2, 2004.

Station	Date	Sample	Water Metal Conc. (µg/L)							
			Co	Cr	Cu	Fe	K	Li	Mg	Mn
BB1A	10/01/04	MWS1	<5.00	<5.00	<1.00	200.82	2953.27	<5.00	3469.45	124.60
BB1A	10/01/04	MWS2	<5.00	<5.00	<1.00	231.84	2812.76	<5.00	3576.71	181.62
BB1	10/01/04	MWS1	<5.00	<5.00	<1.00	193.44	1829.17	<5.00	3451.56	118.34
BB1	10/01/04	MWS2	<5.00	<5.00	<1.00	165.18	3287.35	<5.00	3426.93	94.59
BB2	10/01/04	MWS1	<5.00	<5.00	<1.00	585.57	5904.80	<5.00	3718.79	347.20
BB2	10/01/04	MWS2	<5.00	<5.00	<1.00	662.26	5230.65	<5.00	3727.26	315.25
BB2A	10/01/04	MWS1	<5.00	<5.00	2.05	1740.77	4455.40	8.14	3787.08	253.25
BB2A	10/01/04	MWS2	<5.00	<5.00	2.76	2619.15	4484.32	9.33	3844.97	333.87
BB3	10/01/04	MWS1	<5.00	<5.00	1.21	238.12	4241.84	<5.00	3137.44	37.19
BB3	10/01/04	MWS2	<5.00	<5.00	<1.00	128.81	4428.30	<5.00	3126.16	20.01
BB4	10/01/04	MWS1	<5.00	<5.00	17.20	1552.32	5261.78	<5.00	3692.98	652.65
BB4	10/01/04	MWS2	<5.00	<5.00	41.11	3512.24	5163.79	<5.00	3881.93	1107.24
BB4	10/01/04	MWS3	<5.00	<5.00	7.72	174.03	4719.05	<5.00	3491.18	47.35
BB5	10/01/04	MWS1	<5.00	<5.00	4.95	1514.78	3899.17	<5.00	3839.04	85.37
BB5	10/01/04	MWS2	<5.00	<5.00	12.28	5300.30	4317.17	<5.00	4273.03	290.86
BB5	10/01/04	MWS3	<5.00	<5.00	4.70	1345.45	4343.24	<5.00	3801.66	77.26
BB6	10/01/04	MWS1	<5.00	<5.00	5.05	319.34	8777.19	9.13	7687.43	35.47
BB6	10/01/04	MWS2	<5.00	<5.00	4.97	276.62	9140.15	9.12	7744.43	35.20
BB6	10/01/04	MWS3	<5.00	<5.00	4.83	257.28	9106.43	9.04	7690.05	34.55
BB7	10/01/04	MWS1	<5.00	<5.00	4.23	127.96	9053.11	8.95	7671.37	48.32
BB7	10/01/04	MWS2	<5.00	<5.00	4.83	385.57	9401.44	9.13	7785.53	101.67
BB7	10/01/04	MWS3	<5.00	<5.00	3.28	236.59	9720.51	8.70	7823.95	207.35
BB8	10/01/04	MWS1	<5.00	<5.00	4.38	331.69	9311.96	8.94	7826.87	80.95
BB8	10/01/04	MWS2	<5.00	<5.00	4.21	204.84	9576.94	8.96	7819.65	69.35
BB9	10/01/04	MWS1	<5.00	<5.00	2.33	192.28	9232.08	8.64	7761.43	50.30
BB9	10/01/04	MWS2	<5.00	<5.00	1.99	183.23	9254.70	8.78	7728.25	50.17

Table A1, cont. Metal concentrations in water samples from Massac Creek (MC) and Big Bayou Creek collected October 1-2, 2004.

Station	Date	Sample	Water Metal Conc. ($\mu\text{g/L}$)						
			Mo	Na	Ni	P	Pb	Sb	Se
BB1A	10/01/04	MWS1	<5.00	26554.94	<5.00	28.42	<5.00	<20.00	<5.00
BB1A	10/01/04	MWS2	<5.00	25622.37	<5.00	33.33	<5.00	<20.00	<5.00
BB1	10/01/04	MWS1	<5.00	19260.21	<5.00	40.14	<5.00	<20.00	<5.00
BB1	10/01/04	MWS2	<5.00	25592.62	<5.00	38.89	<5.00	<20.00	<5.00
BB2	10/01/04	MWS1	<5.00	31140.42	<5.00	110.88	<5.00	<20.00	<5.00
BB2	10/01/04	MWS2	<5.00	29642.21	<5.00	107.08	<5.00	<20.00	<5.00
BB2A	10/01/04	MWS1	<5.00	21529.95	<5.00	68.06	5.57	<20.00	<5.00
BB2A	10/01/04	MWS2	<5.00	23147.96	<5.00	85.19	6.52	<20.00	<5.00
BB3	10/01/04	MWS1	<5.00	21994.84	<5.00	45.84	<5.00	<20.00	<5.00
BB3	10/01/04	MWS2	<5.00	23106.70	<5.00	32.69	<5.00	<20.00	<5.00
BB4	10/01/04	MWS1	<5.00	25564.46	<5.00	525.00	<5.00	<20.00	<5.00
BB4	10/01/04	MWS2	<5.00	23462.91	10.12	625.59	10.66	<20.00	<5.00
BB4	10/01/04	MWS3	6.42	23226.89	0.58	261.45	<5.00	<20.00	<5.00
BB5	10/01/04	MWS1	<5.00	21286.39	<5.00	141.52	<5.00	<20.00	<5.00
BB5	10/01/04	MWS2	<5.00	21330.03	<5.00	379.25	13.27	<20.00	<5.00
BB5	10/01/04	MWS3	<5.00	21120.19	<5.00	149.24	<5.00	<20.00	<5.00
BB6	10/01/04	MWS1	<5.00	33915.91	<5.00	130.21	<5.00	<20.00	<5.00
BB6	10/01/04	MWS2	<5.00	35784.61	<5.00	133.77	<5.00	<20.00	<5.00
BB6	10/01/04	MWS3	4.74	34729.47	<5.00	130.56	<5.00	<20.00	<5.00
BB7	10/01/04	MWS1	<5.00	34961.52	<5.00	114.87	<5.00	<20.00	<5.00
BB7	10/01/04	MWS2	<5.00	36355.02	<5.00	132.36	<5.00	<20.00	<5.00
BB7	10/01/04	MWS3	<5.00	36090.44	<5.00	131.77	<5.00	<20.00	<5.00
BB8	10/01/04	MWS1	<5.00	35343.12	<5.00	113.02	<5.00	<20.00	<5.00
BB8	10/01/04	MWS2	<5.00	34990.48	<5.00	231.57	<5.00	<20.00	<5.00
BB9	10/01/04	MWS1	<5.00	34327.25	<5.00	88.58	<5.00	<20.00	<5.00
BB9	10/01/04	MWS2	<5.00	35383.18	<5.00	90.63	<5.00	<20.00	<5.00

Table A1, cont. Metal concentrations in water samples from Massac Creek (MC) and Big Bayou Creek collected October 1-2, 2004.

Station	Date	Sample	Water Metal Conc. ($\mu\text{g/L}$)						
			Si	Sn	Sr	Ti	Tl	V	Zn
BB1A	10/01/04	MWS1	4781.78	<5.00	64.93	<5.00	<5.00	<5.00	<3.00
BB1A	10/01/04	MWS2	4590.38	<5.00	65.98	<5.00	5.69	<5.00	<3.00
BB1	10/01/04	MWS1	2569.52	<5.00	67.15	<5.00	<5.00	<5.00	<3.00
BB1	10/01/04	MWS2	3231.51	<5.00	66.27	<5.00	<5.00	<5.00	<3.00
BB2	10/01/04	MWS1	3050.27	<5.00	95.19	<5.00	<5.00	<5.00	6.89
BB2	10/01/04	MWS2	4356.63	<5.00	93.31	<5.00	<5.00	<5.00	8.36
BB2A	10/01/04	MWS1	2365.40	<5.00	108.22	<5.00	7.22	<5.00	8.97
BB2A	10/01/04	MWS2	4041.21	<5.00	108.38	<5.00	<5.00	<5.00	9.81
BB3	10/01/04	MWS1	2327.95	<5.00	98.37	<5.00	<5.00	<5.00	5.67
BB3	10/01/04	MWS2	2557.75	<5.00	97.44	<5.00	<5.00	<5.00	5.27
BB4	10/01/04	MWS1	2793.22	<5.00	72.98	<5.00	<5.00	<5.00	11.71
BB4	10/01/04	MWS2	2681.01	<5.00	79.04	<5.00	9.53	<5.00	68.63
BB4	10/01/04	MWS3	2408.76	<5.00	69.30	<5.00	<5.00	<5.00	7.48
BB5	10/01/04	MWS1	4164.90	<5.00	63.61	<5.00	<5.00	<5.00	6.82
BB5	10/01/04	MWS2	3309.08	<5.00	68.87	<5.00	<5.00	<5.00	16.83
BB5	10/01/04	MWS3	2362.35	<5.00	64.74	<5.00	<5.00	<5.00	3.48
BB6	10/01/04	MWS1	4252.05	<5.00	140.73	<5.00	<5.00	<5.00	10.90
BB6	10/01/04	MWS2	4809.41	<5.00	141.24	<5.00	<5.00	<5.00	7.67
BB6	10/01/04	MWS3	4304.89	<5.00	139.99	<5.00	<5.00	<5.00	8.30
BB7	10/01/04	MWS1	4074.95	<5.00	141.08	<5.00	<5.00	<5.00	7.94
BB7	10/01/04	MWS2	4375.60	<5.00	144.15	<5.00	<5.00	<5.00	7.05
BB7	10/01/04	MWS3	2806.03	<5.00	150.02	<5.00	<5.00	<5.00	5.95
BB8	10/01/04	MWS1	4248.19	<5.00	144.88	<5.00	<5.00	<5.00	5.28
BB8	10/01/04	MWS2	2653.14	<5.00	144.15	<5.00	<5.00	<5.00	4.04
BB9	10/01/04	MWS1	3837.96	<5.00	147.15	<5.00	<5.00	<5.00	4.98
BB9	10/01/04	MWS2	4406.33	<5.00	146.52	<5.00	<5.00	<5.00	<3.00

Table A2. Metal concentrations in water samples from Little Bayou Creek and effluents collected October 1-2, 2004.

Station	Date	Sample	Water Metal Conc. ($\mu\text{g/L}$)							
			Ag	Al	As	B	Ba	Be	Ca	Cd
LB2A	10/01/04	MWS1	0.40	4197.45	<5.00	9152.55	90.65	<5.00	23285.30	0.37
LB2A	10/01/04	MWS2	0.30	4387.11	<5.00	8928.51	90.62	<5.00	23205.97	0.25
LB2	10/01/04	MWS1	1.19	4230.64	<5.00	9329.69	18.56	<5.00	16864.29	0.62
LB2	10/01/04	MWS2	0.98	4882.65	<5.00	10518.21	18.25	<5.00	16996.63	<0.25
LB3	10/01/04	MWS1	1.13	4267.29	<5.00	9063.75	22.55	<5.00	17406.85	<0.25
LB3	10/01/04	MWS2	1.15	4214.18	<5.00	9440.35	21.84	<5.00	17209.26	<0.25
LB4	10/01/04	MWS1	1.11	4277.09	<5.00	8903.92	30.63	<5.00	17804.81	<0.25
LB4	10/01/04	MWS2	0.79	4497.33	<5.00	9505.01	30.73	<5.00	17783.46	<0.25
001	10/01/04	MWS1	2.76	5047.11	<5.00	10287.34	28.40	<5.00	55191.07	0.48
001	10/01/04	MWS2	2.54	2992.80	<5.00	5387.98	26.80	<5.00	54514.35	0.52
006	10/01/04	MWS1	0.89	3095.23	<5.00	5325.14	13.76	<5.00	15329.22	2.71
006	10/01/04	MWS2	0.43	3299.15	<5.00	5671.68	12.80	<5.00	15382.51	<0.25
008	10/01/04	MWS1	1.09	3032.99	<5.00	5561.02	10.50	<5.00	12965.83	0.38
008	10/01/04	MWS2	1.04	2883.91	<5.00	5224.04	9.43	<5.00	13035.53	<0.25
010011	10/01/04	MWS1	1.19	2717.58	<5.00	5134.34	13.71	<5.00	15747.09	<0.25
010011	10/01/04	MWS2	0.93	2827.94	<5.00	5206.28	13.45	<5.00	15756.61	<5.00

Table A2, continued. Metal concentrations in water samples from Little Bayou Creek and effluents collected October 1-2, 2004.

Station	Date	Sample	Water Metal Conc. ($\mu\text{g/L}$)							
			Co	Cr	Cu	Fe	K	Li	Mg	Mn
LB2A	10/01/04	MWS1	<5.00	<5.00	<1.00	357.46	2735.53	<5.00	7226.68	38.44
LB2A	10/01/04	MWS2	<5.00	<5.00	<1.00	380.96	2816.39	<5.00	7231.75	40.32
LB2	10/01/04	MWS1	<5.00	<5.00	2.61	182.30	4883.57	<5.00	4680.97	19.43
LB2	10/01/04	MWS2	<5.00	<5.00	2.53	181.23	5241.36	<5.00	4687.77	19.38
LB3	10/01/04	MWS1	<5.00	<5.00	2.76	239.03	4802.18	<5.00	4787.36	30.99
LB3	10/01/04	MWS2	<5.00	<5.00	2.55	256.30	4775.35	<5.00	4686.18	30.39
LB4	10/01/04	MWS1	<5.00	<5.00	2.20	354.59	5011.60	<5.00	5069.90	81.05
LB4	10/01/04	MWS2	<5.00	<5.00	2.16	385.73	5087.21	<5.00	5007.98	104.53
001	10/01/04	MWS1	<5.00	<5.00	9.89	795.79	20090.07	22.65	14558.70	80.32
001	10/01/04	MWS2	<5.00	<5.00	9.30	505.80	19060.45	22.20	14495.89	67.35
006	10/01/04	MWS1	<5.00	<5.00	3.39	1086.49	3008.36	<5.00	4015.06	52.22
006	10/01/04	MWS2	<5.00	<5.00	3.38	1328.82	3085.52	<5.00	3966.07	62.66
008	10/01/04	MWS1	<5.00	<5.00	45.59	586.94	4167.01	<5.00	3529.53	21.68
008	10/01/04	MWS2	<5.00	<5.00	50.90	612.43	4068.26	<5.00	3512.29	21.34
010011	10/01/04	MWS1	<5.00	<5.00	3.46	199.38	4241.39	<5.00	4509.54	15.62
010011	10/01/04	MWS2	<5.00	<5.00	<5.00	339.76	4279.19	<5.00	4484.31	16.41

Table A2, continued. Metal concentrations in water samples from Little Bayou Creek and effluents collected October 1-2, 2004.

Station	Date	Sample	Water Metal Conc. (µg/L)						
			Mo	Na	Ni	P	Pb	Sb	Se
LB2A	10/01/04	MWS1	<5.00	37927.81	<5.00	20.76	<5.00	<20.00	<5.00
LB2A	10/01/04	MWS2	<5.00	37669.18	<5.00	22.04	<5.00	<20.00	<5.00
LB2	10/01/04	MWS1	<5.00	24763.19	<5.00	153.62	<5.00	<20.00	<5.00
LB2	10/01/04	MWS2	<5.00	26480.76	<5.00	153.11	<5.00	<20.00	<5.00
LB3	10/01/04	MWS1	<5.00	24522.41	<5.00	139.27	<5.00	<20.00	<5.00
LB3	10/01/04	MWS2	<5.00	25238.40	<5.00	142.18	<5.00	<20.00	<5.00
LB4	10/01/04	MWS1	<5.00	23594.61	<5.00	101.31	<5.00	<20.00	<5.00
LB4	10/01/04	MWS2	<5.00	24779.85	<5.00	102.24	<5.00	<20.00	<5.00
001	10/01/04	MWS1	4.92	60079.33	<5.00	228.61	5.17	<20.00	<5.00
001	10/01/04	MWS2	5.58	53593.81	<5.00	205.47	<5.00	<20.00	<5.00
006	10/01/04	MWS1	<5.00	14740.18	<5.00	26.25	<5.00	<20.00	<5.00
006	10/01/04	MWS2	1.17	15122.97	<5.00	28.65	<5.00	<20.00	<5.00
008	10/01/04	MWS1	6.64	19554.94	<5.00	470.08	<5.00	<20.00	<5.00
008	10/01/04	MWS2	6.78	19165.41	<5.00	548.78	<5.00	<20.00	<5.00
010011	10/01/04	MWS1	<5.00	19180.09	<5.00	168.89	<5.00	<20.00	<5.00
010011	10/01/04	MWS2	<5.00	19481.16	<5.00	163.38	<5.00	<20.00	<5.00

Table A2, continued. Metal concentrations in water samples from Little Bayou Creek and effluents collected October 1-2, 2004.

Station	Date	Sample	Water Metal Conc. (µg/L)						
			Si	Sn	Sr	Ti	Tl	V	Zn
LB2A	10/01/04	MWS1	4895.18	<5.00	174.75	<5.00	7.76	<5.00	<3.00
LB2A	10/01/04	MWS2	4675.48	<5.00	175.25	<5.00	<5.00	<5.00	3.47
LB2	10/01/04	MWS1	3919.29	<5.00	82.99	<5.00	<5.00	<5.00	5.94
LB2	10/01/04	MWS2	4231.75	<5.00	82.08	<5.00	<5.00	<5.00	<3.00
LB3	10/01/04	MWS1	3565.56	<5.00	90.24	<5.00	<5.00	<5.00	4.65
LB3	10/01/04	MWS2	4265.58	<5.00	89.77	<5.00	<5.00	<5.00	3.49
LB4	10/01/04	MWS1	3366.59	<5.00	114.48	<5.00	<5.00	<5.00	<3.00
LB4	10/01/04	MWS2	3892.46	<5.00	114.01	<5.00	<5.00	<5.00	<3.00
001	10/01/04	MWS1	5565.56	<5.00	187.07	<5.00	<5.00	<5.00	10.99
001	10/01/04	MWS2	2999.76	<5.00	189.59	<5.00	<5.00	<5.00	6.53
006	10/01/04	MWS1	1638.51	<5.00	58.60	<5.00	<5.00	<5.00	3.95
006	10/01/04	MWS2	1797.07	<5.00	57.51	<5.00	<5.00	<5.00	<3.00
008	10/01/04	MWS1	1621.50	<5.00	51.73	<5.00	<5.00	<5.00	26.43
008	10/01/04	MWS2	1537.59	<5.00	52.10	<5.00	<5.00	<5.00	11.27
010011	10/01/04	MWS1	1613.87	<5.00	70.97	<5.00	<5.00	<5.00	3.73
010011	10/01/04	MWS2	1718.74	<5.00	71.24	<5.00	<5.00	<5.00	5.19

Table B1. Metal concentrations in sediments from Massac Creek (MC) and Big Bayou Creek collected March 16-18, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)									
			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr
MC	03/18/04	MSED1	0.095	<45.37	3.35	3666.13	24.13	0.241	127.48	0.70	1.91	9.71
MC	03/18/04	MSED2	0.129	<40.29	2.64	1583.34	19.30	0.202	99.67	0.60	1.37	9.04
BB1A	03/16/04	MSED1	0.090	3020.68	2.50	868.31	39.03	0.254	656.11	0.65	2.35	6.25
BB1A	03/16/04	MSED2	0.080	3089.23	2.07	368.69	35.85	0.222	674.66	0.64	1.90	5.55
BB1	03/16/04	MSED1	0.086	2107.47	3.70	323.16	28.65	0.357	507.15	0.97	2.35	15.13
BB1	03/16/04	MSED2	0.079	<37.22	5.35	<36.84	21.24	0.465	202.57	1.16	1.95	23.61
BB2	03/17/04	MSED1	0.083	1275.45	1.94	<41.83	21.71	0.225	309.06	0.60	1.85	6.41
BB2	03/17/04	MSED2	0.091	1936.96	2.56	<47.34	27.21	0.254	1193.59	0.70	1.80	6.92
BB2A	03/16/04	MSED1	0.106	181.72	1.85	<47.21	24.81	0.184	358.55	0.51	1.31	5.83
BB2A	03/16/04	MSED2	0.089	378.10	2.16	<48.13	26.81	0.206	461.79	0.54	1.80	5.69
BB3	03/16/04	MSED1	0.085	4604.26	1.85	<37.76	25.68	0.305	814.67	0.99	1.70	8.64
BB3	03/16/04	MSED2	0.067	4070.54	2.01	<39.63	26.81	0.284	779.82	0.85	1.77	8.58
BB4	03/17/04	MSED1	0.071	1354.93	1.99	<40.26	19.89	0.214	376.51	0.60	1.20	8.34
BB4	03/17/04	MSED2	0.068	819.17	1.72	<42.46	22.12	0.192	375.67	0.56	1.15	7.35
BB5	03/17/04	MSED1	0.080	4599.25	1.63	<47.64	15.56	0.286	496.07	0.86	1.02	8.94
BB5	03/17/04	MSED2	0.062	5596.12	1.76	<41.11	17.85	0.302	504.64	0.95	1.15	8.62
BB6	03/17/04	MSED1	0.098	3120.97	2.02	<43.77	31.23	0.250	1277.92	0.67	1.99	6.70
BB6	03/17/04	MSED2	0.092	2529.88	1.90	<42.11	27.05	0.205	2079.82	0.53	2.17	7.82
BB7	03/18/04	MSED1	0.079	2489.43	2.81	<41.83	19.38	0.289	304.89	0.91	2.01	16.90
BB7	03/18/04	MSED2	0.073	3299.09	2.01	<39.22	24.97	0.281	366.25	0.83	1.57	9.43
BB8	03/18/04	MSED1	0.084	2414.77	2.13	<39.39	36.12	0.277	540.59	0.65	2.56	7.29
BB8	03/18/04	MSED2	0.093	2756.98	2.46	<43.38	41.66	0.309	656.10	0.71	2.44	7.98
BB9	03/18/04	MSED1	0.090	3761.17	2.59	<45.52	31.93	0.308	843.68	0.77	2.08	26.68
BB9	03/18/04	MSED2	0.102	4768.04	1.67	<44.28	41.39	0.365	996.98	0.92	1.84	27.95

¹ MSED1 and MSED2 are separate samples.

Table B1, continued. Metal concentrations in sediments from Massac Creek (MC) and Big Bayou Creek collected March 16-18, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)								
			Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni
MC	03/18/04	MSED1	1.51	5279.38	<0.92	<0.92	67.83	331.45	0.28	86.08	2.29
MC	03/18/04	MSED2	1.22	4493.62	<0.81	<0.81	44.56	265.91	<0.20	70.90	1.92
BB1A	03/16/04	MSED1	4.15	4695.43	<0.98	5.09	599.60	404.35	<0.25	127.36	4.69
BB1A	03/16/04	MSED2	3.78	5308.97	28.90	4.70	588.99	465.26	<0.19	139.30	4.26
BB1	03/16/04	MSED1	3.00	8999.20	<0.73	2.97	334.16	311.52	<0.18	86.23	3.57
BB1	03/16/04	MSED2	2.47	10860.66	<0.75	0.76	98.70	259.84	0.30	104.76	2.99
BB2	03/17/04	MSED1	2.43	4253.04	<0.85	2.51	239.23	148.82	<0.21	121.30	2.90
BB2	03/17/04	MSED2	2.78	5336.36	<0.97	3.39	338.52	360.46	<0.24	161.59	3.41
BB2A	03/16/04	MSED1	1.82	2664.34	<0.96	1.73	196.93	199.81	<0.24	70.94	2.19
BB2A	03/16/04	MSED2	1.90	3210.43	<0.98	1.88	202.78	268.59	<0.25	98.35	2.34
BB3	03/16/04	MSED1	4.13	9435.23	47.55	5.12	446.86	171.03	<0.19	142.21	3.90
BB3	03/16/04	MSED2	3.97	7290.30	50.41	4.89	457.94	138.87	<0.20	114.32	3.89
BB4	03/17/04	MSED1	2.16	4638.71	<0.82	2.16	177.72	92.41	<0.21	107.78	2.27
BB4	03/17/04	MSED2	1.99	3815.03	<0.87	1.85	154.19	91.58	<0.22	87.24	2.14
BB5	03/17/04	MSED1	2.41	7354.55	<0.97	4.47	176.68	51.04	<0.24	135.61	2.60
BB5	03/17/04	MSED2	2.61	8909.10	<0.84	4.90	213.71	92.56	<0.21	101.99	2.92
BB6	03/17/04	MSED1	5.15	5128.51	<0.89	4.53	506.63	319.70	<0.22	145.22	4.16
BB6	03/17/04	MSED2	4.60	5870.94	<0.86	3.98	471.26	298.64	<0.21	172.72	3.84
BB7	03/18/04	MSED1	3.54	7916.22	<0.85	3.32	262.51	126.34	<0.21	113.27	3.65
BB7	03/18/04	MSED2	4.26	5661.39	<0.80	4.18	347.46	149.73	<0.20	92.88	3.98
BB8	03/18/04	MSED1	3.81	5071.94	<0.80	3.92	407.77	371.41	<0.20	136.64	3.93
BB8	03/18/04	MSED2	4.63	5556.35	28.33	4.38	463.96	425.66	<0.22	193.17	4.33
BB9	03/18/04	MSED1	8.55	5880.19	163.61	6.99	663.65	170.20	<0.23	138.36	7.25
BB9	03/18/04	MSED2	7.97	7444.84	176.44	8.70	785.29	313.17	<0.23	201.53	8.01

¹ MSED1 and MSED2 are separate samples.

Table B1, continued. Metal concentrations in sediments from Massac Creek (MC) and Big Bayou Creek collected March 16-18, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)								
			Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
MC	03/18/04	MSED1	12.78	0.25	<0.23	0.36	<2.29	24.72	0.40	12.56	5.77
MC	03/18/04	MSED2	10.21	<0.20	<0.20	0.26	<2.04	20.18	0.15	11.30	4.58
BB1A	03/16/04	MSED1	12.71	0.30	<0.25	<0.25	6.34	7.09	0.93	11.16	14.56
BB1A	03/16/04	MSED2	12.04	0.31	<0.19	0.29	6.28	5.75	0.67	10.04	13.74
BB1	03/16/04	MSED1	16.87	0.39	<0.18	0.24	4.63	6.81	0.26	18.21	11.39
BB1	03/16/04	MSED2	17.58	0.53	<0.19	0.29	<1.88	17.08	0.19	24.37	9.03
BB2	03/17/04	MSED1	11.25	<0.21	<0.21	<0.21	2.76	7.76	0.08	10.66	10.55
BB2	03/17/04	MSED2	13.08	<0.24	<0.24	<0.24	6.02	4.78	1.21	11.45	11.77
BB2A	03/16/04	MSED1	8.92	<0.24	<0.24	<0.24	3.40	6.35	0.20	9.24	13.32
BB2A	03/16/04	MSED2	10.21	<0.25	<0.25	<0.25	4.22	8.84	0.55	10.26	17.01
BB3	03/16/04	MSED1	17.51	0.35	<0.19	0.27	7.70	3.01	0.50	14.79	61.09
BB3	03/16/04	MSED2	14.82	0.35	<0.20	<0.20	6.93	2.92	0.24	13.81	14.93
BB4	03/17/04	MSED1	10.42	0.32	<0.21	<0.21	2.72	3.36	0.14	11.67	11.09
BB4	03/17/04	MSED2	10.38	<0.22	<0.22	<0.22	2.66	3.40	0.52	10.36	10.86
BB5	03/17/04	MSED1	13.16	0.36	<0.24	<0.24	4.16	2.92	0.30	17.41	5.29
BB5	03/17/04	MSED2	14.63	0.40	<0.21	<0.21	4.53	2.38	0.08	17.79	6.34
BB6	03/17/04	MSED1	13.79	0.21	<0.22	0.30	9.78	3.91	0.47	10.69	21.05
BB6	03/17/04	MSED2	13.56	<0.21	<0.21	<0.21	7.02	3.74	0.60	11.88	19.17
BB7	03/18/04	MSED1	15.20	0.51	<0.21	<0.21	4.28	3.66	0.05	18.97	13.12
BB7	03/18/04	MSED2	13.12	<0.20	<0.20	<0.20	5.43	2.16	0.09	11.49	16.35
BB8	03/18/04	MSED1	12.76	0.30	<0.20	<0.20	5.70	5.58	0.95	11.59	41.16
BB8	03/18/04	MSED2	14.63	<0.22	<0.22	<0.22	6.68	5.80	0.89	12.35	17.11
BB9	03/18/04	MSED1	15.00	0.32	<0.23	<0.23	6.82	5.66	0.14	11.39	24.57
BB9	03/18/04	MSED2	17.54	0.39	<0.23	<0.23	7.94	4.15	0.36	12.38	27.38

¹ MSED1 and MSED2 are separate samples.

Table B2. Metal concentrations in sediments from Massac Creek (MC) and Big Bayou Creek collected October 1-2, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)									
			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr
BB1A	10/01/04	MSED1	0.013	6798.9	1.60	406.2	38.88	<0.22	462.5	0.56	2.96	7.45
BB1A	10/01/04	MSED2	0.011	3761.8	1.12	393.3	36.30	<0.25	464.5	0.54	1.95	9.47
BB1	10/01/04	MSED1	0.009	1380.1	2.24	340.8	18.46	0.23	345.9	0.65	2.42	16.17
BB1	10/01/04	MSED2	0.047	2467.5	10.55	665.5	23.10	0.72	387.5	1.78	4.32	34.78
BB2A	10/01/04	MSED1	0.035	1254.3	4.08	347.0	13.73	0.36	174.6	1.02	2.86	29.59
BB2A	10/01/04	MSED2	0.015	969.5	2.12	326.4	12.71	<0.24	212.2	0.44	1.93	7.04
BB2	10/01/04	MSED1	0.005	14990.2	<2.49	324.6	49.74	0.33	951.2	0.46	1.86	13.86
BB2	10/01/04	MSED2	0.021	2237.3	3.20	295.7	19.86	0.30	384.6	0.69	1.94	11.07
BB3	10/01/04	MSED1	0.021	855.8	2.59	294.3	13.94	0.27	140.8	1.26	2.26	22.07
BB3	10/01/04	MSED2	0.075	7081.6	1.51	287.8	25.26	0.30	751.8	0.86	3.28	12.88
BB4	10/01/04	MSED1	0.017	1265.4	3.10	272.1	12.44	0.28	314.3	0.74	2.38	22.08
BB4	10/01/04	MSED2	0.030	3507.0	4.85	279.2	20.59	0.45	418.9	1.13	4.00	22.09
BB5	10/01/04	MSED1	0.013	13376.3	0.78	271.8	17.05	0.30	533.2	0.90	1.68	8.58
BB5	10/01/04	MSED2	0.011	2596.3	2.12	267.1	13.84	0.24	259.9	0.59	1.81	10.15
BB6	10/01/04	MSED1	0.016	1136.2	1.42	264.2	14.67	<0.24	844.1	0.40	1.00	9.10
BB6	10/01/04	MSED2	0.018	1812.6	1.17	269.3	16.96	<0.25	362.4	0.46	2.05	8.96
BB7	10/02/04	MSED1	0.029	1732.0	2.48	520.5	19.15	<0.32	365.3	0.91	1.75	22.93
BB7	10/02/04	MSED2	0.016	3139.8	0.95	242.3	20.51	0.23	402.4	0.55	1.70	12.69
BB8	10/02/04	MSED1	0.005	3772.8	1.20	231.6	29.51	<0.22	511.1	0.49	1.59	6.25
BB8	10/02/04	MSED2	0.013	3713.9	0.80	253.2	29.13	<0.24	404.4	0.43	2.04	7.55
BB9	10/02/04	MSED1	0.017	4448.6	0.68	239.5	33.74	<0.23	421.8	0.49	2.32	10.09
BB9	10/02/04	MSED2	0.009	3423.1	0.94	243.0	24.45	0.28	704.9	0.99	4.63	9.62

¹ MSED1 and MSED2 are separate samples.

Table B2, continued. Metal concentrations in sediments from Massac Creek (MC) and Big Bayou Creek collected October 1-2, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)								
			Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni
BB1A	10/01/04	MSED1	4.69	10117.8	491.5	6.71	654.21	313.87	<0.22	489.89	5.23
BB1A	10/01/04	MSED2	3.85	10017.6	480.2	4.66	421.72	214.76	<0.25	560.76	4.63
BB1	10/01/04	MSED1	1.68	10450.2	666.3	0.94	<4.58	164.74	<0.23	538.19	2.04
BB1	10/01/04	MSED2	4.08	34688.5	773.8	1.17	17.89	435.40	0.72	527.50	5.57
BB2A	10/01/04	MSED1	2.35	19541.5	683.1	0.61	<4.93	187.93	0.38	555.39	2.91
BB2A	10/01/04	MSED2	1.38	7040.7	650.6	0.77	<4.89	149.76	<0.24	574.25	1.79
BB2	10/01/04	MSED1	5.63	8971.6	597.8	11.32	796.84	117.57	<0.25	641.56	5.15
BB2	10/01/04	MSED2	2.65	12844.1	357.6	1.55	58.46	190.11	0.25	506.75	3.27
BB3	10/01/04	MSED1	1.46	13259.1	672.6	0.50	<4.77	229.53	0.29	495.36	2.20
BB3	10/01/04	MSED2	3.77	16717.1	463.7	5.27	335.20	1243.32	0.24	575.85	4.63
BB4	10/01/04	MSED1	2.62	14133.9	624.0	0.78	<4.57	145.59	0.39	556.42	2.87
BB4	10/01/04	MSED2	3.82	22266.0	375.4	2.53	131.28	406.72	0.33	494.06	4.14
BB5	10/01/04	MSED1	3.37	18536.5	494.6	8.73	239.58	119.78	<0.24	566.43	3.97
BB5	10/01/04	MSED2	2.03	11065.8	674.2	1.59	<4.78	137.02	0.29	530.72	2.70
BB6	10/01/04	MSED1	1.60	6190.8	666.7	0.99	<4.84	107.52	<0.24	510.70	1.85
BB6	10/01/04	MSED2	2.24	8437.5	724.2	1.40	33.57	103.52	<0.25	538.49	2.18
BB7	10/02/04	MSED1	3.45	17547.3	664.1	1.17	<4.94	177.33	0.33	545.76	4.09
BB7	10/02/04	MSED2	3.88	9951.5	394.8	2.88	198.24	89.73	0.23	566.85	4.14
BB8	10/02/04	MSED1	3.44	9204.7	456.0	5.32	502.69	170.87	<0.22	496.95	4.37
BB8	10/02/04	MSED2	3.84	6982.8	455.4	4.63	290.55	172.11	<0.24	543.26	5.00
BB9	10/02/04	MSED1	4.89	8473.7	488.4	5.89	378.27	244.03	<0.23	473.51	4.88
BB9	10/02/04	MSED2	3.99	9617.8	495.2	5.46	344.35	199.60	0.24	516.42	5.90

¹ MSED1 and MSED2 are separate samples.

Table B2, continued. Metal concentrations in sediments from Massac Creek (MC) and Big Bayou Creek collected October 1-2, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)						
			P	Pb	Sb	Se	Si	Sn	Sr
BB1A	10/01/04	MSED1	207.54	34.19	0.63	21.12	411.4	<0.22	6.56
BB1A	10/01/04	MSED2	152.42	38.83	0.45	28.02	450.6	0.40	4.45
BB1	10/01/04	MSED1	184.95	39.26	0.51	45.87	413.9	0.63	1.96
BB1	10/01/04	MSED2	506.95	59.80	1.48	20.18	419.2	0.85	2.87
BB2A	10/01/04	MSED1	220.34	45.13	0.77	29.99	440.5	0.64	1.29
BB2A	10/01/04	MSED2	167.31	39.14	0.47	32.18	434.3	0.51	1.45
BB2	10/01/04	MSED1	79.30	44.91	0.85	24.42	446.1	<0.25	11.14
BB2	10/01/04	MSED2	273.36	45.94	0.61	24.92	407.8	0.48	2.74
BB3	10/01/04	MSED1	208.73	38.52	0.74	25.77	415.2	0.60	1.19
BB3	10/01/04	MSED2	196.25	43.96	0.77	24.88	407.4	0.40	6.18
BB4	10/01/04	MSED1	247.13	43.66	0.64	20.55	393.9	0.55	1.58
BB4	10/01/04	MSED2	237.02	49.53	0.94	34.05	406.7	0.50	3.70
BB5	10/01/04	MSED1	110.28	47.40	1.00	35.98	418.7	0.38	5.67
BB5	10/01/04	MSED2	172.82	35.51	0.55	41.49	413.7	0.31	1.68
BB6	10/01/04	MSED1	145.40	34.44	0.39	34.12	417.8	0.39	9.08
BB6	10/01/04	MSED2	111.91	39.46	0.49	14.86	428.7	0.32	1.75
BB7	10/02/04	MSED1	225.28	39.47	0.85	32.24	424.0	0.57	1.57
BB7	10/02/04	MSED2	142.44	35.24	0.71	24.30	403.1	<0.23	3.44
BB8	10/02/04	MSED1	167.95	36.61	0.62	27.51	383.5	<0.22	6.73
BB8	10/02/04	MSED2	190.42	34.46	0.41	17.28	422.2	0.36	4.85
BB9	10/02/04	MSED1	201.33	38.42	0.55	27.50	403.4	<0.23	5.59
BB9	10/02/04	MSED2	262.87	35.24	0.59	21.59	410.5	0.31	5.31

¹ MSED1 and MSED2 are separate samples.

Table B2, continued. Metal concentrations in sediments from Massac Creek (MC) and Big Bayou Creek collected October 1-2, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)			
			Ti	Tl	V	Zn
BB1A	10/01/04	MSED1	39.35	1.31	12.90	36.71
BB1A	10/01/04	MSED2	39.17	<0.25	14.31	55.87
BB1	10/01/04	MSED1	23.96	<0.23	15.54	50.91
BB1	10/01/04	MSED2	31.78	0.41	42.09	61.08
BB2A	10/01/04	MSED1	28.02	<0.25	28.02	62.70
BB2A	10/01/04	MSED2	15.69	<0.24	10.06	64.66
BB2	10/01/04	MSED1	11.32	<0.25	15.11	80.77
BB2	10/01/04	MSED2	23.43	<0.23	16.89	64.64
BB3	10/01/04	MSED1	20.72	<0.24	21.58	65.22
BB3	10/01/04	MSED2	24.40	3.06	18.97	66.71
BB4	10/01/04	MSED1	20.06	<0.23	20.57	66.03
BB4	10/01/04	MSED2	13.76	0.69	28.74	74.68
BB5	10/01/04	MSED1	7.82	0.29	20.24	61.29
BB5	10/01/04	MSED2	13.72	<0.24	14.99	58.73
BB6	10/01/04	MSED1	11.45	<0.24	10.44	58.46
BB6	10/01/04	MSED2	16.19	<0.25	10.92	63.48
BB7	10/02/04	MSED1	20.75	0.26	26.17	67.55
BB7	10/02/04	MSED2	13.85	0.59	14.01	61.50
BB8	10/02/04	MSED1	20.45	<0.22	10.54	59.18
BB8	10/02/04	MSED2	18.18	<0.24	10.47	63.38
BB9	10/02/04	MSED1	16.40	<0.23	10.19	67.29
BB9	10/02/04	MSED2	18.04	<0.24	9.87	67.14

¹ MSED1 and MSED2 are separate samples.

Table B3. Metal concentrations in sediments from Little Bayou Creek and effluents collected March 16-18, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)									
			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr
LB1	03/18/04	MSED1	0.081	8295.35	2.65	<42.08	OVER	0.273	6373.81	1.23	2.10	13.84
LB1	03/18/04	MSED2	0.081	8469.45	4.28	<40.36	OVER	0.363	2099.50	1.39	2.43	11.81
LB2	03/17/04	MSED1	0.073	3892.92	2.03	<43.91	30.09	0.304	850.23	0.66	3.64	12.37
LB2	03/17/04	MSED2	0.057	4103.72	1.88	<40.16	29.26	0.389	811.60	0.92	2.70	12.57
LB2A	03/17/04	MSED1	0.091	3353.57	6.65	<43.02	40.07	0.648	756.85	2.06	3.54	18.04
LB2A	03/17/04	MSED2	0.068	2054.43	3.47	<39.50	30.28	0.482	581.83	1.13	3.01	30.41
LB3	03/17/04	MSED1	0.099	4264.34	12.07	<41.37	OVER	0.711	960.96	2.25	4.17	40.23
LB3	03/17/04	MSED2	0.068	3015.21	8.10	<41.72	36.47	0.757	840.44	2.00	3.49	19.05
LB4	03/17/04	MSED1	0.065	2877.20	1.23	<40.51	29.64	0.241	648.73	0.53	1.42	15.91
LB4	03/17/04	MSED2	0.071	2532.19	1.58	<43.42	28.32	0.230	639.84	0.51	1.30	13.35
001	03/17/04	MSED1	0.058	3137.78	1.34	<35.71	30.41	0.342	992.21	0.56	2.50	9.80
001	03/17/04	MSED2	0.064	2755.41	1.62	<39.28	29.48	0.309	972.80	0.53	2.12	9.52
006	03/17/04	MSED1	0.075	1883.73	2.15	<40.94	23.04	0.212	1005.60	1.64	1.71	6.64
006	03/17/04	MSED2	0.081	3408.90	2.05	<40.50	25.00	0.271	869.26	0.67	3.06	7.13
008	03/17/04	MSED1	0.117	3418.51	2.08	<38.00	23.76	0.386	1320.68	1.28	1.67	24.33
008	03/17/04	MSED2	0.191	3243.76	1.89	<44.46	26.97	0.263	1605.19	1.07	1.71	16.16
010011	03/17/04	MSED1	0.075	2627.82	1.76	<48.37	22.26	0.281	949.96	0.75	1.68	20.51
010011	03/17/04	MSED2	0.072	3060.71	2.05	<41.46	20.07	0.313	1023.33	0.82	3.23	19.34

¹ MSED1 and MSED2 are separate samples.

Table B3, continued. Metal concentrations in sediments from Little Bayou Creek and effluents collected March 16-18, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)								
			Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni
LB1	03/18/04	MSED1	9.06	13170.87	359.96	8.37	1900.46	240.52	<0.21	103.82	6.26
LB1	03/18/04	MSED2	10.55	14960.10	433.32	9.41	1540.62	338.05	<0.21	187.99	7.19
LB2	03/17/04	MSED1	4.67	4625.49	<0.90	4.20	499.06	89.79	<0.22	132.69	4.16
LB2	03/17/04	MSED2	5.03	7778.05	<0.82	4.09	483.94	97.13	<0.20	109.84	4.62
LB2A	03/17/04	MSED1	5.09	15502.66	<0.88	3.47	415.30	509.39	0.26	192.93	5.31
LB2A	03/17/04	MSED2	3.37	10631.35	<0.81	2.28	285.91	263.74	<0.20	153.42	4.77
LB3	03/17/04	MSED1	8.31	24052.67	<0.84	4.71	572.18	501.14	0.52	168.30	6.76
LB3	03/17/04	MSED2	8.14	20754.63	<0.85	3.61	452.51	360.35	0.42	127.81	6.39
LB4	03/17/04	MSED1	4.15	3836.24	23.49	4.27	387.08	130.05	<0.21	110.59	3.30
LB4	03/17/04	MSED2	3.69	3367.70	76.68	4.04	459.43	112.15	<0.22	110.26	3.07
001	03/17/04	MSED1	14.41	3880.11	163.08	6.01	736.52	0.54	<0.18	159.45	6.23
001	03/17/04	MSED2	13.70	3409.53	143.55	5.57	715.45	<0.40	0.28	160.62	6.34
006	03/17/04	MSED1	4.95	4592.64	<0.84	3.71	489.33	222.95	<0.21	85.93	3.48
006	03/17/04	MSED2	5.11	5376.28	<0.83	4.85	501.24	334.94	<0.21	63.57	4.02
008	03/17/04	MSED1	24.17	9326.37	23.75	5.07	593.97	<0.39	0.41	91.60	15.92
008	03/17/04	MSED2	30.97	5000.41	72.53	5.65	690.17	<0.45	0.42	128.59	17.81
010011	03/17/04	MSED1	6.00	5274.70	<0.99	3.47	475.90	40.88	<0.25	147.03	4.19
010011	03/17/04	MSED2	7.58	6390.51	<0.85	3.95	536.08	64.46	<0.21	162.08	4.47

¹ MSED1 and MSED2 are separate samples.

Table B3, continued. Metal concentrations in sediments from Little Bayou Creek and effluents collected March 16-18, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)								
			Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
LB1	03/18/04	MSED1	21.60	0.30	<0.21	<0.21	17.41	10.95	0.10	21.97	119.35
LB1	03/18/04	MSED2	25.10	0.27	<0.21	<0.21	7.85	9.89	0.22	23.11	166.62
LB2	03/17/04	MSED1	11.86	0.28	<0.22	<0.22	7.96	1.64	0.17	10.23	29.37
LB2	03/17/04	MSED2	15.62	0.41	<0.20	<0.20	7.90	1.34	0.06	14.40	29.90
LB2A	03/17/04	MSED1	27.14	0.72	<0.22	<0.22	11.90	2.00	0.30	27.99	24.99
LB2A	03/17/04	MSED2	20.27	0.54	<0.20	<0.20	8.63	1.05	0.16	23.80	19.66
LB3	03/17/04	MSED1	10.82	1.28	<0.21	0.47	9.96	2.22	0.30	36.83	64.54
LB3	03/17/04	MSED2	13.70	1.25	<0.21	0.30	8.97	2.01	0.20	30.42	37.50
LB4	03/17/04	MSED1	10.25	0.22	<0.21	<0.21	9.50	1.49	0.07	9.24	20.64
LB4	03/17/04	MSED2	9.56	<0.22	<0.22	<0.22	8.86	2.19	0.14	9.07	17.70
001	03/17/04	MSED1	9.27	0.28	<0.18	<0.18	8.09	4.26	0.15	8.31	25.93
001	03/17/04	MSED2	8.62	<0.20	<0.20	<0.20	7.71	4.04	0.11	8.01	23.51
006	03/17/04	MSED1	11.68	0.23	<0.21	<0.21	8.00	4.35	0.39	10.60	12.29
006	03/17/04	MSED2	14.64	<0.21	<0.21	<0.21	7.12	3.67	0.38	11.90	12.92
008	03/17/04	MSED1	22.22	0.44	<0.19	0.34	6.51	5.40	0.19	25.27	31.08
008	03/17/04	MSED2	21.84	0.31	<0.23	0.34	7.32	6.10	0.15	13.83	51.92
010011	03/17/04	MSED1	13.12	0.34	<0.25	<0.25	9.29	2.10	0.06	13.27	40.03
010011	03/17/04	MSED2	14.42	0.25	<0.21	<0.21	8.32	1.91	<0.042	11.40	30.84

¹ MSED1 and MSED2 are separate samples.

Table B4. Metal concentrations in sediments from Little Bayou Creek and effluents collected October 1-2, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)									
			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr
LB2A	10/01/04	MSED1	0.006	4493.6	2.02	243.2	27.89	0.36	483.8	0.66	3.39	13.31
LB2A	10/01/04	MSED2	0.018	3439.9	7.74	475.4	30.53	0.64	754.3	1.32	2.75	20.32
LB2	10/01/04	MSED1	0.025	10706.7	1.70	251.6	25.48	0.37	848.3	0.81	7.71	12.76
LB2	10/01/04	MSED2	0.008	8412.9	0.80	211.9	24.20	0.30	748.6	0.61	2.72	20.39
LB3	10/01/04	MSED1	0.008	3030.8	10.05	455.1	43.82	0.69	472.0	1.62	4.66	47.25
LB3	10/01/04	MSED2	0.024	5047.0	16.10	480.7	28.43	0.92	752.7	2.21	5.61	53.58
LB4	10/01/04	MSED1	0.003	693.0	1.62	227.7	17.98	<0.24	257.3	0.37	1.46	0.00
LB4	10/01/04	MSED2	0.005	628.0	1.33	225.9	10.62	<0.24	100.6	0.42	1.47	49.49
001	10/01/04	MSED1	0.013	3925.7	0.42	212.6	32.12	<0.23	1020.3	0.45	2.06	9.33
001	10/01/04	MSED2	0.012	4127.8	0.59	207.7	35.10	0.24	1053.0	0.42	2.15	9.69
006	10/01/04	MSED1	0.034	7747.3	1.98	222.0	30.68	0.31	1152.4	0.79	2.97	10.00
006	10/01/04	MSED2	0.023	7621.6	1.93	221.3	29.75	0.30	1132.2	0.76	3.01	10.01
008	10/01/04	MSED1	0.012	8305.0	0.65	227.3	25.37	0.31	480.9	0.83	2.29	16.47
008	10/01/04	MSED2	0.012	8852.3	0.94	224.7	24.94	0.38	770.9	0.99	3.11	11.80
010011	10/01/04	MSED1	0.011	4107.0	3.72	222.0	20.00	0.44	819.9	1.02	4.05	22.32
010011	10/01/04	MSED2	0.014	3805.4	0.87	221.8	20.88	0.25	551.5	0.53	3.39	12.64

¹ MSED1 and MSED2 are separate samples.

Table B4, continued. Metal concentrations in sediments from Little Bayou Creek and effluents collected October 1-2, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)								
			Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni
LB2A	10/01/04	MSED1	2.90	13164.7	722.1	2.83	205.57	186.95	<0.24	508.72	3.98
LB2A	10/01/04	MSED2	4.49	25391.3	681.2	1.86	145.14	286.20	0.33	473.75	6.04
LB2	10/01/04	MSED1	3.80	16434.7	439.0	5.63	478.70	539.11	<0.25	452.23	4.94
LB2	10/01/04	MSED2	5.34	11246.9	435.7	5.71	485.06	157.65	<0.22	394.98	4.56
LB3	10/01/04	MSED1	7.04	32412.4	671.8	1.83	146.94	352.54	0.57	380.48	6.23
LB3	10/01/04	MSED2	9.02	45552.4	425.4	4.17	339.30	580.44	0.83	440.71	8.17
LB4	10/01/04	MSED1	3.31	5424.5	591.3	0.56	<4.85	70.21	<0.24	386.02	1.48
LB4	10/01/04	MSED2	2.15	6376.9	576.6	0.46	<4.88	63.61	<0.24	384.06	1.39
001	10/01/04	MSED1	12.51	5800.5	526.5	5.65	726.75	44.73	<0.23	488.76	5.50
001	10/01/04	MSED2	13.06	6062.6	509.8	6.00	610.75	48.26	<0.23	436.47	5.66
006	10/01/04	MSED1	5.55	15064.2	503.8	6.87	628.27	551.16	0.31	503.76	5.82
006	10/01/04	MSED2	5.09	14661.6	477.8	6.75	642.68	536.44	0.25	549.04	5.59
008	10/01/04	MSED1	4.21	13346.9	413.9	4.65	248.11	100.76	<0.25	418.11	4.43
008	10/01/04	MSED2	6.01	19134.1	418.8	5.05	297.31	127.66	0.30	418.87	5.42
010011	10/01/04	MSED1	4.38	20048.0	703.9	2.72	208.49	245.49	0.25	483.21	6.93
010011	10/01/04	MSED2	3.36	10024.5	724.4	2.74	203.67	152.94	<0.25	506.05	3.70

¹ MSED1 and MSED2 are separate samples.

Table B4, continued. Metal concentrations in sediments from Little Bayou Creek and effluents collected October 1-2, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)						
			P	Pb	Sb	Se	Si	Sn	Sr
LB2A	10/01/04	MSED1	176.21	46.24	0.58	23.99	413.8	<0.24	8.53
LB2A	10/01/04	MSED2	276.93	49.67	1.05	16.80	427.9	0.60	11.35
LB2	10/01/04	MSED1	118.88	46.84	0.87	40.30	436.5	<0.25	12.29
LB2	10/01/04	MSED2	163.14	34.98	0.68	24.03	380.5	<0.22	12.01
LB3	10/01/04	MSED1	496.78	65.26	1.47	23.24	408.4	0.72	7.86
LB3	10/01/04	MSED2	668.98	75.43	2.06	30.81	428.4	0.64	12.90
LB4	10/01/04	MSED1	162.36	36.97	0.73	29.33	416.0	0.39	3.91
LB4	10/01/04	MSED2	168.53	36.26	0.72	22.59	418.0	0.45	1.41
001	10/01/04	MSED1	179.04	38.22	0.48	14.93	417.8	0.29	7.88
001	10/01/04	MSED2	217.83	34.13	0.68	30.72	391.9	<0.23	8.27
006	10/01/04	MSED1	217.58	42.55	0.79	25.50	414.3	0.40	10.20
006	10/01/04	MSED2	202.07	46.59	0.76	20.32	414.7	0.32	10.23
008	10/01/04	MSED1	177.67	44.26	0.68	34.77	428.7	0.32	6.12
008	10/01/04	MSED2	243.80	49.18	1.09	23.29	428.3	0.30	6.98
010011	10/01/04	MSED1	211.55	48.11	1.08	27.11	411.8	0.39	6.25
010011	10/01/04	MSED2	121.63	39.28	0.53	31.60	428.5	<0.25	5.41

¹ MSED1 and MSED2 are separate samples.

Table B4, continued. Metal concentrations in sediments from Little Bayou Creek and effluents collected October 1-2, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)			
			Ti	Tl	V	Zn
LB2A	10/01/04	MSED1	2.11	<0.24	16.67	62.76
LB2A	10/01/04	MSED2	2.76	<0.24	30.07	72.07
LB2	10/01/04	MSED1	3.47	0.44	19.53	74.73
LB2	10/01/04	MSED2	3.01	<0.22	13.02	82.60
LB3	10/01/04	MSED1	10.22	<0.24	35.81	89.27
LB3	10/01/04	MSED2	11.46	0.62	47.27	99.43
LB4	10/01/04	MSED1	9.59	<0.24	9.60	70.23
LB4	10/01/04	MSED2	10.52	<0.24	9.58	66.53
001	10/01/04	MSED1	12.90	<0.23	7.29	201.96
001	10/01/04	MSED2	11.96	<0.23	7.63	76.13
006	10/01/04	MSED1	16.27	1.00	16.80	72.00
006	10/01/04	MSED2	16.91	1.01	16.47	71.44
008	10/01/04	MSED1	4.59	0.72	15.52	66.54
008	10/01/04	MSED2	5.19	0.74	20.94	73.61
010011	10/01/04	MSED1	1.64	<0.24	19.77	87.16
010011	10/01/04	MSED2	1.79	0.40	11.58	77.74

¹ MSED1 and MSED2 are separate samples.

Table C1. Metal concentrations in floodplain soils from Massac Creek (MC) and Big Bayou Creek collected March 16-18, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)									
			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr
MC	03/18/04	MFP1	0.081	5973.82	2.36	2156.19	OVER	0.300	453.57	0.89	2.84	7.37
MC	03/18/04	MFP2	0.115	4229.56	6.27	<43.27	OVER	0.855	504.34	2.68	4.52	29.80
BB1A	03/16/04	MFP1	0.082	1837.58	1.87	<40.28	OVER	0.186	3485.66	0.65	1.48	4.01
BB1A	03/16/04	MFP2	0.100	2111.91	1.89	<44.46	OVER	0.206	1919.70	0.72	1.86	4.52
BB1	03/16/04	MFP1	0.072	<40.74	1.67	<40.33	22.15	0.143	4300.06	0.60	1.13	6.52
BB1	03/16/04	MFP2	0.069	1835.35	2.33	<40.51	23.39	0.190	6194.74	0.92	1.55	9.16
BB2	03/17/04	MFP1	0.090	4241.08	2.22	<38.30	OVER	0.307	958.73	0.83	2.41	6.89
BB2	03/17/04	MFP2	0.102	7448.34	4.16	<46.98	OVER	0.544	3647.90	1.79	6.73	18.38
BB2A	03/16/04	MFP1	0.079	<46.07	2.55	<45.60	21.72	0.226	304.30	0.58	2.18	6.57
BB2A	03/16/04	MFP2	0.090	1075.35	2.20	<46.71	39.64	0.206	1298.61	0.63	1.75	6.89
BB3	03/16/04	MFP1	0.090	1666.41	2.28	<44.55	28.56	0.285	651.30	0.78	3.08	7.10
BB3	03/16/04	MFP2	0.081	2298.78	2.38	<44.04	26.80	0.219	2061.63	0.62	1.68	6.92
BB4	03/17/04	MFP1	0.090	2328.74	2.18	<47.85	26.87	0.297	812.03	0.85	2.11	23.78
BB4	03/17/04	MFP2	0.074	1696.45	1.93	<45.73	25.92	0.202	816.56	0.57	1.83	6.08
BB5	03/17/04	MFP1	0.086	2074.75	2.55	<42.42	34.44	0.238	1078.65	0.75	1.92	6.06
BB5	03/17/04	MFP2	0.087	2960.72	2.33	<43.81	37.78	0.246	962.22	0.60	1.84	5.85
BB6	03/17/04	MFP1	0.095	552.99	2.84	<46.71	22.69	0.278	522.93	0.99	2.71	8.37
BB6	03/17/04	MFP2	0.091	2969.35	2.57	<44.40	41.45	0.241	1452.36	0.73	2.00	7.05
BB7	03/18/04	MFP1	0.103	3522.28	1.76	<42.66	35.29	0.262	888.70	0.87	2.58	6.71
BB7	03/18/04	MFP2	0.110	2164.49	3.27	<45.75	33.36	0.323	868.59	0.91	1.83	8.88
BB8	03/18/04	MFP1	0.090	2374.41	2.33	<46.23	24.46	0.224	550.76	0.62	1.99	8.38
BB8	03/18/04	MFP2	0.074	3273.34	2.27	<37.72	37.30	0.226	1028.22	0.64	1.83	7.01
BB9	03/18/04	MFP1	0.088	3128.94	2.07	<44.26	34.40	0.279	760.10	0.71	1.95	8.48
BB9	03/18/04	MFP2	0.099	6239.92	1.79	<44.40	OVER	0.430	1713.39	1.12	2.59	10.09

¹ MFP1 and MFP2 are separate samples.

Table C1, continued. Metal concentrations in floodplain soils from Massac Creek (MC) and Big Bayou Creek collected March 16-18, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)								
			Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni
MC	03/18/04	MFP1	5.97	8212.99	266.54	7.63	911.52	472.77	<0.21	149.73	6.31
MC	03/18/04	MFP2	7.58	30451.12	163.77	4.19	524.19	1320.98	0.81	123.03	11.03
BB1A	03/16/04	MFP1	4.29	3080.36	115.41	3.85	461.93	458.53	<0.21	120.23	4.72
BB1A	03/16/04	MFP2	4.69	3161.03	126.36	4.39	619.53	597.34	<0.23	112.37	5.25
BB1	03/16/04	MFP1	4.06	2913.63	102.33	1.46	333.16	180.58	<0.21	76.93	2.42
BB1	03/16/04	MFP2	4.66	6094.47	81.98	3.60	737.56	165.85	<0.21	117.52	3.79
BB2	03/17/04	MFP1	5.46	7071.72	156.52	5.67	701.37	548.22	<0.20	113.42	5.35
BB2	03/17/04	MFP2	9.23	18023.97	622.63	10.42	1970.86	452.64	0.34	189.02	11.15
BB2A	03/16/04	MFP1	1.88	4131.13	<0.93	1.37	155.71	210.47	<0.23	75.15	2.30
BB2A	03/16/04	MFP2	3.59	3708.08	44.76	2.69	468.56	360.42	<0.24	106.47	3.18
BB3	03/16/04	MFP1	3.07	6710.43	<0.91	2.93	385.04	391.25	<0.23	109.35	3.48
BB3	03/16/04	MFP2	4.41	4490.46	63.84	3.80	467.68	199.08	<0.22	129.23	5.40
BB4	03/17/04	MFP1	4.32	7371.86	<0.98	3.56	371.50	284.28	<0.24	141.38	4.15
BB4	03/17/04	MFP2	3.19	3794.13	94.27	3.30	425.46	230.42	<0.23	128.96	3.26
BB5	03/17/04	MFP1	3.80	4851.23	<0.87	3.53	432.85	458.27	<0.22	134.34	3.69
BB5	03/17/04	MFP2	4.54	3830.06	74.01	4.86	629.81	469.62	<0.22	169.59	4.98
BB6	03/17/04	MFP1	2.61	6321.10	<0.95	1.84	204.49	337.99	<0.24	156.63	3.03
BB6	03/17/04	MFP2	6.61	5171.77	<0.91	4.83	582.89	441.01	<0.23	165.91	4.66
BB7	03/18/04	MFP1	4.86	5663.64	154.06	4.94	551.86	670.07	<0.22	113.57	4.73
BB7	03/18/04	MFP2	4.65	7237.74	101.31	3.64	491.73	352.71	0.29	192.77	4.11
BB8	03/18/04	MFP1	3.45	4395.82	102.08	2.56	312.66	274.68	<0.24	96.54	3.42
BB8	03/18/04	MFP2	5.10	4969.15	351.94	5.10	650.57	305.07	<0.19	165.21	4.49
BB9	03/18/04	MFP1	5.12	5467.91	218.60	6.04	652.72	282.69	<0.23	159.63	5.18
BB9	03/18/04	MFP2	7.95	9352.19	418.56	8.16	1117.47	515.13	0.27	141.34	8.87

¹ MFP1 and MFP2 are separate samples.

Table C1, continued. Metal concentrations in floodplain soils from Massac Creek (MC) and Big Bayou Creek collected March 16-18, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)								
			Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
MC	03/18/04	MFP1	16.96	0.33	<0.21	<0.21	6.14	19.29	1.25	14.46	577.84
MC	03/18/04	MFP2	11.10	1.20	<0.22	0.81	4.80	20.96	0.63	42.48	72.88
BB1A	03/16/04	MFP1	9.48	<0.21	<0.21	0.29	18.98	10.13	1.27	8.03	13.06
BB1A	03/16/04	MFP2	10.92	<0.23	<0.23	<0.23	9.99	11.72	1.52	8.63	16.94
BB1	03/16/04	MFP1	8.56	<0.21	<0.21	<0.21	7.95	10.22	0.12	6.45	15.67
BB1	03/16/04	MFP2	12.49	0.31	<0.21	<0.21	14.78	7.99	0.25	8.53	20.73
BB2	03/17/04	MFP1	16.73	0.24	<0.20	0.34	8.48	11.57	0.68	13.80	18.55
BB2	03/17/04	MFP2	30.67	0.81	<0.24	0.42	15.78	16.16	0.35	25.90	33.05
BB2A	03/16/04	MFP1	12.00	<0.23	<0.23	0.31	2.29	16.79	0.33	11.71	8.33
BB2A	03/16/04	MFP2	10.74	<0.24	<0.24	0.33	8.52	5.50	1.04	10.44	14.59
BB3	03/16/04	MFP1	15.82	0.37	<0.23	<0.23	6.59	12.48	0.48	13.94	22.39
BB3	03/16/04	MFP2	13.94	0.23	<0.22	0.30	6.87	8.48	0.12	10.76	15.39
BB4	03/17/04	MFP1	16.06	0.45	<0.24	0.40	7.87	12.32	0.23	16.07	13.68
BB4	03/17/04	MFP2	11.20	<0.23	<0.23	<0.23	5.96	9.29	0.34	9.92	14.44
BB5	03/17/04	MFP1	12.39	0.25	<0.22	<0.22	7.61	11.05	1.19	11.08	13.08
BB5	03/17/04	MFP2	14.19	<0.22	<0.22	<0.22	9.73	11.52	1.19	9.94	18.08
BB6	03/17/04	MFP1	15.03	0.40	<0.24	0.52	3.60	14.93	0.21	14.48	12.60
BB6	03/17/04	MFP2	15.97	<0.23	<0.23	<0.23	9.77	10.24	0.84	11.44	18.78
BB7	03/18/04	MFP1	14.92	0.28	<0.22	0.31	9.21	10.46	1.71	12.58	14.81
BB7	03/18/04	MFP2	19.30	0.27	<0.23	0.43	7.16	10.79	0.20	13.91	17.81
BB8	03/18/04	MFP1	12.55	<0.24	<0.24	<0.24	4.98	12.26	0.14	11.49	13.84
BB8	03/18/04	MFP2	12.74	0.36	<0.19	0.28	7.51	10.99	0.19	10.40	17.21
BB9	03/18/04	MFP1	13.38	0.30	<0.23	0.33	6.21	11.59	0.54	10.73	20.13
BB9	03/18/04	MFP2	19.46	0.44	<0.23	0.36	8.87	9.31	0.97	13.95	35.85

¹ MFP1 and MFP2 are separate samples.

Table C2. Metal concentrations in floodplain soils from Massac Creek (MC) and Big Bayou Creek collected October 1-2, 2004.

Station	Date	Sample ¹	Floodplain Soil Metal Conc. (µg/g)									
			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr
BB1A	10/01/04	MFP1	0.034	4817.0	3.15	546.21	23.19	0.34	501.01	0.75	2.77	10.10
BB1A	10/01/04	MFP2	0.039	5316.4	2.18	354.41	36.12	0.29	938.80	0.71	3.54	7.65
BB1	10/01/04	MFP1	0.027	3211.3	2.46	616.31	19.28	<0.24	4160.38	0.74	0.99	4.57
BB1	10/01/04	MFP2	0.030	2143.0	1.40	302.42	20.33	0.25	16243.66	1.02	3.68	13.83
BB2A	10/01/04	MFP1	0.039	9795.7	2.41	305.21	47.82	0.41	1862.57	1.06	3.88	12.36
BB2A	10/01/04	MFP2	0.032	9351.1	1.88	286.83	46.03	0.33	2860.90	0.91	3.17	11.17
BB2	10/01/04	MFP1	0.045	9887.5	2.18	277.15	48.62	0.32	886.77	0.80	3.39	9.11
BB2	10/01/04	MFP2	0.030	10565.1	2.76	275.98	57.47	0.42	3082.83	1.06	3.71	11.11
BB3	10/01/04	MFP1	0.024	5470.2	2.39	273.42	24.90	0.30	961.54	0.77	3.14	8.68
BB3	10/01/04	MFP2	0.031	7925.4	1.99	266.45	40.58	0.30	1245.82	0.75	3.21	9.18
BB4	10/01/04	MFP1	0.019	2174.3	1.75	262.11	21.40	<0.24	384.26	0.50	1.95	8.34
BB4	10/01/04	MFP2	0.025	2721.1	2.19	269.60	25.44	0.25	435.78	0.67	1.74	12.35
BB5	10/01/04	MFP1	0.041	4938.3	2.02	250.31	29.59	0.27	1290.34	0.75	2.09	4.97
BB5	10/01/04	MFP2	0.039	6989.5	1.91	253.38	24.78	0.31	553.09	0.75	3.04	10.33
BB6	10/01/04	MFP1	0.011	2113.1	1.64	246.92	24.90	0.19	415.19	0.50	2.00	7.64
BB6	10/01/04	MFP2	0.032	5548.6	2.21	250.03	29.29	0.29	1338.84	0.77	3.03	9.34
BB7	10/02/04	MFP1	0.026	9311.9	2.79	474.88	33.21	<0.25	449.96	0.87	2.30	15.68
BB7	10/02/04	MFP2	0.077	8649.9	2.25	241.49	41.10	0.29	1139.75	0.93	3.28	8.87
BB8	10/02/04	MFP1	0.044	10730.1	2.14	242.70	55.75	0.37	1909.08	0.90	3.68	11.52
BB8	10/02/04	MFP2	0.034	9754.7	1.81	245.71	39.94	0.33	1349.23	0.84	3.25	10.59
BB9	10/02/04	MFP1	0.010	4192.6	1.05	235.10	32.29	0.25	475.06	0.57	2.27	10.14
BB9	10/02/04	MFP2	0.024	6743.1	1.33	232.73	24.98	0.31	777.14	0.71	2.85	13.78

¹ MFP1 and MFP2 are separate samples.

Table C2, continued. Metal concentrations in floodplain soils from Massac Creek (MC) and Big Bayou Creek collected October 1-2, 2004.

Station	Date	Sample ¹	Floodplain Soil Metal Conc. (µg/g)								
			Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni
BB1A	10/01/04	MFP1	4.26	12281.36	447.92	5.03	361.70	512.16	0.26	382.60	4.69
BB1A	10/01/04	MFP2	4.84	10552.65	524.13	5.86	511.75	447.93	0.24	366.46	5.46
BB1	10/01/04	MFP1	<2.41	9722.82	448.40	2.49	405.49	430.13	0.26	249.93	<2.41
BB1	10/01/04	MFP2	3.37	15309.77	371.20	1.76	372.17	366.48	0.27	365.13	4.56
BB2A	10/01/04	MFP1	5.91	17418.43	586.44	9.29	802.63	386.33	0.28	381.13	6.65
BB2A	10/01/04	MFP2	6.81	13755.94	889.84	9.39	548.78	506.38	0.33	383.06	6.38
BB2	10/01/04	MFP1	6.75	12679.89	698.35	9.88	573.59	343.73	0.26	380.98	6.98
BB2	10/01/04	MFP2	7.54	16486.27	860.57	11.96	938.28	618.29	0.34	454.76	8.09
BB3	10/01/04	MFP1	4.47	12072.50	614.92	5.49	427.56	521.02	0.25	501.30	4.75
BB3	10/01/04	MFP2	5.69	11988.45	729.37	7.75	653.46	564.77	0.31	455.65	5.80
BB4	10/01/04	MFP1	2.37	7822.53	419.77	1.56	75.35	318.21	<0.24	425.73	2.67
BB4	10/01/04	MFP2	2.46	10761.83	695.48	1.72	22.95	289.72	<0.25	462.92	3.04
BB5	10/01/04	MFP1	2.95	10378.77	594.98	4.46	496.49	368.33	0.25	425.48	3.12
BB5	10/01/04	MFP2	5.40	11991.86	530.35	6.14	460.53	485.15	<0.25	417.54	5.39
BB6	10/01/04	MFP1	2.32	7562.72	668.61	1.45	<4.94	280.39	<0.25	427.98	2.32
BB6	10/01/04	MFP2	15.18	11695.83	528.90	5.78	450.74	573.05	<0.25	445.38	5.19
BB7	10/02/04	MFP1	7.78	14497.80	646.94	8.28	682.14	362.29	0.38	443.46	5.89
BB7	10/02/04	MFP2	6.03	12082.75	713.72	7.86	832.55	1069.28	0.28	452.29	6.10
BB8	10/02/04	MFP1	8.54	14073.15	653.34	10.42	913.40	432.94	0.27	436.39	7.87
BB8	10/02/04	MFP2	7.35	12796.07	732.84	9.65	848.15	614.56	0.26	447.15	7.27
BB9	10/02/04	MFP1	3.86	8697.98	451.81	5.98	370.48	195.13	<0.25	436.02	4.61
BB9	10/02/04	MFP2	6.46	10354.95	550.52	7.45	611.85	347.39	0.24	434.55	6.11

¹ MFP1 and MFP2 are separate samples.

Table C2, continued. Metal concentrations in floodplain soils from Massac Creek (MC) and Big Bayou Creek collected October 1-2, 2004.

Station	Date	Sample ¹	Floodplain Soil Metal Conc. (µg/g)						
			P	Pb	Sb	Se	Si	Sn	Sr
BB1A	10/01/04	MFP1	225.65	43.63	0.76	16.94	426.40	0.79	6.23
BB1A	10/01/04	MFP2	240.70	40.80	0.65	34.02	366.94	0.76	11.75
BB1	10/01/04	MFP1	214.38	35.74	0.76	28.93	364.79	0.91	<2.41
BB1	10/01/04	MFP2	227.81	45.45	0.76	27.70	358.36	1.08	13.18
BB2A	10/01/04	MFP1	181.73	50.35	1.08	22.06	372.75	0.57	23.76
BB2A	10/01/04	MFP2	427.20	46.76	1.01	26.46	371.32	0.61	22.95
BB2	10/01/04	MFP1	277.14	47.09	0.83	21.72	376.26	0.79	10.09
BB2	10/01/04	MFP2	343.64	46.41	0.85	38.28	365.34	0.71	14.54
BB3	10/01/04	MFP1	216.20	45.91	0.66	20.95	367.84	0.73	9.45
BB3	10/01/04	MFP2	203.28	47.24	0.55	19.79	366.92	0.55	11.45
BB4	10/01/04	MFP1	232.70	40.30	0.55	37.53	366.32	0.78	5.81
BB4	10/01/04	MFP2	190.02	43.08	0.84	44.58	373.84	0.74	3.76
BB5	10/01/04	MFP1	229.13	40.62	0.75	28.03	364.65	0.69	8.97
BB5	10/01/04	MFP2	217.03	43.43	0.85	22.18	367.05	0.66	8.47
BB6	10/01/04	MFP1	157.61	39.14	0.46	24.77	367.51	0.62	2.76
BB6	10/01/04	MFP2	203.13	45.03	0.79	34.79	367.73	0.61	11.25
BB7	10/02/04	MFP1	210.34	58.28	1.00	31.14	369.60	0.60	6.40
BB7	10/02/04	MFP2	221.89	70.31	0.75	12.50	374.36	0.81	10.41
BB8	10/02/04	MFP1	341.95	49.13	0.91	26.02	369.79	0.75	13.38
BB8	10/02/04	MFP2	253.24	46.63	0.83	10.20	374.96	0.73	10.43
BB9	10/02/04	MFP1	232.13	38.82	0.67	29.82	368.20	0.73	5.13
BB9	10/02/04	MFP2	232.71	44.96	0.72	29.08	367.65	0.78	8.82

¹ MFP1 and MFP2 are separate samples.

Table C2, continued. Metal concentrations in floodplain soils from Massac Creek (MC) and Big Bayou Creek collected October 1-2, 2004.

Station	Date	Sample ¹	Floodplain Soil Metal Conc. (µg/g)			
			Ti	Tl	V	Zn
BB1A	10/01/04	MFP1	18.71	1.06	17.23	63.11
BB1A	10/01/04	MFP2	14.65	0.80	15.39	56.74
BB1	10/01/04	MFP1	7.30	0.45	6.49	63.57
BB1	10/01/04	MFP2	10.80	0.27	11.82	67.57
BB2A	10/01/04	MFP1	7.92	0.63	20.18	70.15
BB2A	10/01/04	MFP2	12.01	1.24	17.03	75.46
BB2	10/01/04	MFP1	18.50	0.34	17.02	68.07
BB2	10/01/04	MFP2	15.43	0.94	20.60	74.91
BB3	10/01/04	MFP1	11.95	0.35	16.59	63.54
BB3	10/01/04	MFP2	16.11	0.76	16.11	65.10
BB4	10/01/04	MFP1	20.77	<0.24	12.71	51.31
BB4	10/01/04	MFP2	14.32	0.82	15.72	56.40
BB5	10/01/04	MFP1	13.06	0.49	8.83	64.24
BB5	10/01/04	MFP2	13.72	1.02	16.14	64.45
BB6	10/01/04	MFP1	17.38	0.56	11.89	50.89
BB6	10/01/04	MFP2	15.17	0.68	16.01	64.22
BB7	10/02/04	MFP1	14.77	0.15	17.45	67.36
BB7	10/02/04	MFP2	15.04	2.77	16.39	63.20
BB8	10/02/04	MFP1	12.13	0.52	18.07	75.32
BB8	10/02/04	MFP2	13.09	1.12	16.64	69.77
BB9	10/02/04	MFP1	19.70	0.41	11.14	55.38
BB9	10/02/04	MFP2	15.22	<0.25	13.67	61.36

¹ MMFP1 and MMFP2 are separate samples.

Table C3. Metal concentrations in floodplain soils from Little Bayou Creek and effluents collected March 16-18, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)									
			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr
LB1	03/18/04	MFP1	0.065	3833.35	1.67	<40.53	42.48	0.255	1755.91	0.55	1.14	6.47
LB1	03/18/04	MFP2	0.111	5690.65	1.90	<40.78	OVER	0.321	583.55	0.79	3.25	7.89
LB2A	03/17/04	MFP1	0.098	1898.66	2.21	<41.54	41.87	0.175	1135.48	0.55	1.40	35.79
LB2A	03/17/04	MFP2	0.093	3780.08	2.07	<40.88	33.47	0.157	378.47	0.46	1.90	29.73
LB2	03/17/04	MFP1	0.113	4141.98	1.74	<39.92	40.61	0.272	905.32	0.74	1.89	9.18
LB2	03/17/04	MFP2	0.083	3368.40	1.90	<44.10	46.13	0.256	1139.92	0.60	1.55	20.34
LB3	03/17/04	MFP1	0.076	1608.78	2.35	<43.48	31.57	0.246	1025.20	0.60	2.29	16.42
LB3	03/17/04	MFP2	0.082	1830.38	2.00	<46.34	32.45	0.246	1626.11	0.58	1.97	15.56
LB4	03/17/04	MFP1	0.107	743.00	1.79	<42.63	23.24	0.194	1481.83	0.59	1.58	29.00
LB4	03/17/04	MFP2	0.087	2285.79	1.88	<37.71	27.62	0.222	731.03	0.61	1.46	23.01
001	03/17/04	MFP1	0.085	4719.76	2.32	<41.72	43.52	0.240	1394.17	0.82	2.13	18.16
006	03/17/04	MFP1	0.089	2214.98	1.79	<42.08	31.25	0.188	965.37	0.53	2.09	6.78

¹ MFP1 and MFP2 are separate samples.

Table C3, continued. Metal concentrations in floodplain soils from Little Bayou Creek and effluents collected March 16-18, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)								
			Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni
LB1	03/18/04	MFP1	5.38	4211.37	<0.83	5.71	789.52	94.86	<0.21	187.75	4.40
LB1	03/18/04	MFP2	6.38	6833.59	232.69	7.49	947.54	755.72	<0.21	164.44	6.39
LB2A	03/17/04	MFP1	5.30	2785.44	<0.85	3.80	540.92	417.95	<0.21	185.33	4.10
LB2A	03/17/04	MFP2	4.87	4360.35	127.57	5.11	600.70	551.59	<0.21	142.84	4.44
LB2	03/17/04	MFP1	7.20	6189.06	102.86	5.62	669.56	400.16	<0.20	155.76	5.02
LB2	03/17/04	MFP2	5.17	3761.56	77.95	4.88	586.41	522.85	<0.23	194.83	5.20
LB3	03/17/04	MFP1	4.16	4131.25	<0.89	2.97	379.81	252.76	<0.22	120.44	3.59
LB3	03/17/04	MFP2	4.60	3756.04	<0.95	3.45	425.61	268.20	<0.24	177.49	3.95
LB4	03/17/04	MFP1	5.22	3158.53	<0.87	2.21	269.94	376.91	<0.22	174.70	3.54
LB4	03/17/04	MFP2	7.05	3675.46	47.77	3.44	385.85	651.46	<0.19	156.00	4.05
001	03/17/04	MFP1	7.83	8331.24	321.53	6.64	911.60	200.40	<0.21	120.74	6.93
006	03/17/04	MFP1	3.84	5430.24	64.94	3.74	470.27	391.37	<0.21	145.04	3.88

¹ MFP1 and MFP2 are separate samples.

Table C3, continued. Metal concentrations in floodplain soils from Little Bayou Creek and effluents collected March 16-18, 2004.

Station	Date	Sample ¹	Sediment Metal Conc. (µg/g)								
			Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
LB1	03/18/04	MFP1	11.34	0.27	<0.21	<0.21	9.19	9.72	0.07	11.56	21.14
LB1	03/18/04	MFP2	17.85	<0.21	<0.21	<0.21	6.50	7.52	1.48	14.82	21.17
LB2A	03/17/04	MFP1	9.98	0.29	<0.21	<0.21	8.80	6.50	1.02	8.02	38.67
LB2A	03/17/04	MFP2	14.39	0.30	<0.21	<0.21	4.87	7.84	1.27	10.54	25.33
LB2	03/17/04	MFP1	15.69	0.50	<0.20	0.29	8.91	6.02	0.76	12.60	32.40
LB2	03/17/04	MFP2	12.01	<0.23	<0.23	<0.23	9.77	7.42	1.38	9.90	36.83
LB3	03/17/04	MFP1	12.49	<0.22	<0.22	<0.22	7.15	5.21	0.66	11.17	21.18
LB3	03/17/04	MFP2	11.57	<0.24	<0.24	<0.24	13.26	5.40	0.34	10.66	71.55
LB4	03/17/04	MFP1	10.00	0.27	<0.22	<0.22	9.24	7.24	0.91	7.80	28.47
LB4	03/17/04	MFP2	11.46	<0.19	0.27	0.30	6.41	7.30	1.86	9.01	26.98
001	03/17/04	MFP1	15.77	0.28	<0.21	<0.21	10.11	13.54	0.08	17.00	26.09
006	03/17/04	MFP1	13.87	<0.21	<0.21	0.40	6.86	10.79	0.60	12.01	12.96

¹ MFP1 and MFP2 are separate samples.

Table C4. Metal concentrations in floodplain soils from Little Bayou Creek and effluents collected October 1-2, 2004.

Station	Date	Sample ¹	Floodplain Soil Metal Conc. (µg/g)									
			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr
LB2A	10/01/04	MFP1	0.032	7060.8	1.26	235.43	36.59	0.29	1186.91	0.65	2.87	34.55
LB2A	10/01/04	MFP2	0.050	7338.3	1.18	229.24	58.69	0.27	1632.26	0.67	2.88	45.61
LB2	10/01/04	MFP1	0.019	6374.0	1.10	223.38	40.42	0.25	1739.09	0.66	2.56	18.17
LB2	10/01/04	MFP2	0.056	10219.3	1.37	222.59	60.14	0.34	1074.38	0.75	3.05	23.97
LB3	10/01/04	MFP1	0.030	4627.2	1.44	222.74	49.24	0.26	7400.15	0.66	2.57	21.76
LB3	10/01/04	MFP2	0.036	4186.0	1.55	223.85	24.91	0.25	1036.02	0.63	2.90	34.33
LB4	10/01/04	MFP1	0.076	3656.2	1.05	214.17	35.82	<0.24	827.39	0.48	1.89	44.85
LB4	10/01/04	MFP2	0.099	6632.9	1.25	219.77	42.64	0.31	1565.53	0.71	2.45	37.30
001	10/01/04	MFP1	0.022	12053.0	2.69	403.00	18.63	0.40	711.00	1.01	3.64	9.07
001	10/01/04	MFP2	0.037	12009.7	5.32	418.39	99.68	0.47	3450.53	1.25	3.71	11.57
006	10/01/04	MFP1	0.051	7573.6	1.85	218.93	40.56	0.30	1898.16	0.73	3.04	8.63
006	10/01/04	MFP2	0.036	6837.5	1.99	213.02	35.37	0.28	1668.18	0.72	3.02	8.41
008	10/01/04	MFP1	0.008	10782.7	1.31	213.15	81.77	0.45	890.32	1.06	3.53	21.12
008	10/01/04	MFP2	0.023	6578.9	1.02	211.09	41.18	<0.24	3375.77	0.62	1.85	9.41
010011	10/01/04	MFP1	0.025	7691.7	0.75	217.66	46.41	0.26	2249.40	0.75	2.54	19.32
010011	10/01/04	MFP2	0.034	10402.5	0.72	211.60	28.14	0.29	434.54	0.60	2.23	9.28

¹ MFP1 and MFP2 are separate samples.

Table C4, continued. Metal concentrations in floodplain soils from Little Bayou Creek and effluents collected October 1-2, 2004.

Station	Date	Sample ¹	Floodplain Soil Metal Conc. (µg/g)								
			Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni
LB2A	10/01/04	MFP1	7.03	9690.08	476.48	6.44	595.24	517.19	<0.25	447.79	5.64
LB2A	10/01/04	MFP2	7.26	9268.26	504.65	7.20	726.33	583.72	<0.25	446.03	6.27
LB2	10/01/04	MFP1	5.79	8429.32	414.96	5.81	491.66	426.48	<0.24	469.42	5.29
LB2	10/01/04	MFP2	7.27	10661.51	578.98	9.65	804.32	654.08	0.25	420.37	7.67
LB3	10/01/04	MFP1	6.07	9573.64	633.70	5.41	566.25	498.34	0.23	434.69	4.88
LB3	10/01/04	MFP2	5.52	8720.86	480.68	4.57	345.56	508.24	<0.24	427.14	4.74
LB4	10/01/04	MFP1	6.21	6063.41	364.82	3.82	224.22	366.53	<0.24	423.82	4.19
LB4	10/01/04	MFP2	7.46	7927.87	489.07	6.23	493.49	363.72	0.21	425.72	6.53
001	10/01/04	MFP1	4.68	16737.98	481.30	7.92	669.34	304.55	0.22	531.84	5.51
001	10/01/04	MFP2	23.91	20463.26	692.97	12.10	1143.60	874.82	0.36	448.05	7.90
006	10/01/04	MFP1	6.12	11271.08	629.15	7.30	755.52	602.42	0.25	469.05	5.94
006	10/01/04	MFP2	5.13	10801.35	561.10	6.41	762.95	584.72	0.24	450.49	5.25
008	10/01/04	MFP1	5.37	17266.13	522.44	7.37	584.65	291.34	0.25	497.79	5.84
008	10/01/04	MFP2	7.37	8646.91	608.94	6.61	546.72	389.54	<0.24	463.58	5.12
010011	10/01/04	MFP1	9.83	9625.05	544.54	8.28	833.49	380.76	<0.25	506.72	7.49
010011	10/01/04	MFP2	5.38	8877.28	549.16	8.79	808.48	666.14	<0.25	561.37	6.35

¹ MFP1 and MFP2 are separate samples.

Table C4, continued. Metal concentrations in floodplain soils from Little Bayou Creek and effluents collected October 1-2, 2004.

Station	Date	Sample ¹	Floodplain Soil Metal Conc. (µg/g)						
			P	Pb	Sb	Se	Si	Sn	Sr
LB2A	10/01/04	MFP1	191.43	36.46	0.85	14.46	368.41	0.51	14.03
LB2A	10/01/04	MFP2	198.52	39.75	0.98	23.28	365.64	0.61	15.49
LB2	10/01/04	MFP1	167.70	40.84	0.76	21.22	358.01	<0.24	16.83
LB2	10/01/04	MFP2	372.00	46.41	0.98	20.75	358.71	0.79	9.73
LB3	10/01/04	MFP1	258.45	42.86	0.70	39.51	364.12	0.68	42.66
LB3	10/01/04	MFP2	260.99	40.79	0.76	24.08	359.91	0.58	18.15
LB4	10/01/04	MFP1	183.07	31.12	0.57	37.12	353.38	0.54	10.00
LB4	10/01/04	MFP2	259.28	39.58	0.87	18.59	360.77	0.66	13.95
001	10/01/04	MFP1	87.80	45.16	1.14	24.70	344.80	0.45	9.82
001	10/01/04	MFP2	284.39	56.56	0.99	29.47	361.35	0.58	18.02
006	10/01/04	MFP1	226.61	45.42	0.69	21.30	365.79	0.58	11.71
006	10/01/04	MFP2	254.51	44.14	0.79	22.00	366.79	0.76	12.69
008	10/01/04	MFP1	213.24	46.97	1.38	32.49	350.99	0.54	11.34
008	10/01/04	MFP2	237.19	41.97	0.58	25.51	361.58	0.71	12.58
010011	10/01/04	MFP1	234.76	38.41	0.66	32.17	367.13	0.50	14.40
010011	10/01/04	MFP2	228.14	41.05	0.75	16.57	370.79	0.48	6.98

¹ MFP1 and MFP2 are separate samples.

Table C4, continued. Metal concentrations in floodplain soils from Little Bayou Creek and effluents collected October 1-2, 2004.

Station	Date	Sample ¹	Floodplain Soil Metal Conc. (µg/g)			
			Ti	Tl	V	Zn
LB2A	10/01/04	MFP1	4.42	1.12	14.30	85.14
LB2A	10/01/04	MFP2	4.86	2.12	13.15	146.95
LB2	10/01/04	MFP1	4.18	1.08	12.21	74.30
LB2	10/01/04	MFP2	8.18	2.28	15.17	80.71
LB3	10/01/04	MFP1	5.08	0.81	13.59	147.48
LB3	10/01/04	MFP2	6.40	0.28	13.62	93.63
LB4	10/01/04	MFP1	5.55	0.24	10.42	242.98
LB4	10/01/04	MFP2	6.45	1.99	12.36	140.47
001	10/01/04	MFP1	4.29	0.30	21.59	43.17
001	10/01/04	MFP2	8.02	0.68	26.47	93.64
006	10/01/04	MFP1	12.16	0.33	15.09	55.52
006	10/01/04	MFP2	12.52	0.77	14.91	51.85
008	10/01/04	MFP1	4.10	<0.24	34.45	48.86
008	10/01/04	MFP2	12.71	1.78	12.74	81.93
010011	10/01/04	MFP1	6.13	0.79	12.50	135.31
010011	10/01/04	MFP2	6.18	0.47	13.72	55.84

¹ MFP1 and MFP2 are separate samples.