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RUNOFF POLLUTANTS - APPENDIX

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16. Abstract <p>The overall objectives of this research were to identify the sources of highway pollutants and to determine their deposition and accumulation with the highway system and subsequent removal from the highway system to the surrounding environment. This document is the appendix to the research report and contains the detailed monitoring data for rainfall quality, paved and unpaved runoff quality, highway surface loads and surface load removal through highway sweeping. Data for a total solids mass balance, including the deposition, accumulation and removal processes, are also presented.</p> <p>This document is the fourth volume of a report entitled "Sources and Migration of Highway Runoff Pollutants". The titles of the volumes of this report are:</p>																				
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METRIC CONVERSION FACTORS

APPROXIMATE CONVERSIONS FROM METRIC MEASURES

SYMBOL WHEN YOU KNOW MULTIPLY BY TO FIND SYMBOL

LENGTH

in	inches	2.5	centimeters	cm
ft	feet	30	centimeters	cm
yd	yards	0.9	meters	m
mi	miles	1.6	kilometers	km

AREA

in ²	square inches	6.5	square centimeters	cm ²
ft ²	square feet	0.09	square meters	m ²
yd ²	square yards	0.6	square meters	m ²
mi ²	square miles	2.6	square kilometers	km ²
	acres	0.4	hectares	ha

MASS (weight)

oz	ounces	28	grams	g
lb	pounds	0.45	kilograms	kg
	short tons(2000lb)	0.9	tonnes	t

VOLUME

tsp	teaspoons	5	milliliters	ml
tbsp	tablespoons	15	milliliters	ml
fl oz	fluid ounces	30	milliliters	ml
c	cups	0.24	liters	l
pt	pints	0.47	liters	l
qt	quarts	0.95	liters	l
gal	gallons	3.8	liters	l
ft ³	cubic feet	0.03	cubic meters	m ³
yd ³	cubic yards	0.76	cubic meters	m ³

TEMPERATURE (exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C
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APPROXIMATE CONVERSIONS FROM METRIC MEASURES

SYMBOL WHEN YOU KNOW MULTIPLY BY TO FIND SYMBOL

LENGTH

mm	millimeters	0.04	inches	in
cm	centimeters	0.4	inches	in
m	meters	3.3	feet	ft
m	meters	1.1	yards	yd
km	kilometers	0.6	miles	mi

AREA

cm ²	square centimeters	0.16	square inches	in ²
m ²	square meters	1.2	square yards	yd ²
km ²	square kilometers	0.4	square miles	mi ²
ha	hectares(10,000m ²)	2.5	acres	

MASS (weight)

g	grams	0.035	ounces	oz
kg	kilograms	2.2	pounds	lb
t	tonnes (1000kg)	1.1	short tons	

VOLUME

ml	milliliters	8.03	fluid ounces	fl oz
l	liters	2.1	pints	pt
l	liters	1.06	quarts	qt
l	liters	0.26	gallons	gal
m ³	cubic meters	36	cubic feet	ft ³
m ³	cubic meters	1.3	cubic yards	yd ³

TEMPERATURE (exact)

°C	Celsius temperature	9/5 (then add 32)	Fahrenheit temperature	°F
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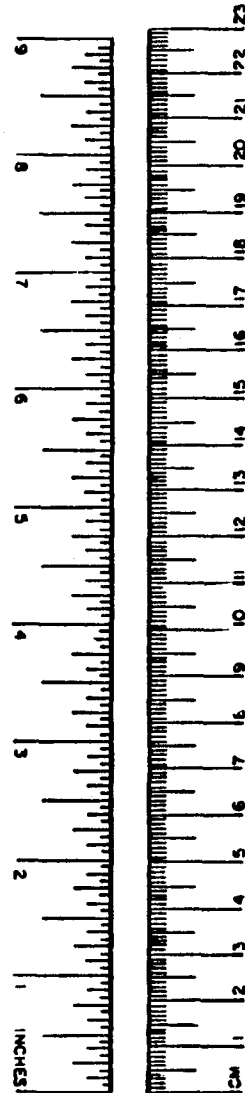


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FOREWARD

This report is composed of four volumes: Volume I is an Executive Summary; Volume II presents the details of the Monitoring Site Selection and Field Monitoring Procedures; Volume III contains the Results of the Literature Search, Analysis of the Accumulated Data, and Conclusions and Recommendations Formulated from the Data Analysis; Volume IV is an Appendix and contains the detailed data collected at a Result of the Field Monitoring Program. The report will be of interest to planners, designers and researchers involved in evaluation of highway stormwater runoff contributions to nonpoint sources of water pollution.

Research in Water Quality Changes due to Highway Operations is included in the Federally Coordinated Program of Highway Research and Development as Task 3 of Project 3E, "Reduction of Environmental Hazards to Water Resources Due to the Highway System". Dr. Byron N. Lord is the Project and Task Manager.

Sufficient copies of the report are being distributed to provide a minimum of one copy to each FHWA Regional office, Division office and State highway agency. Direct distribution is being made to the Division offices.

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APPENDIX A

RAINFALL QUALITY DATA FOR THE MONITORING SITES

Background precipitation quality samples (snowfall and rainfall) were obtained at all four sites to establish the background level of atmospheric pollutants reaching the highway system through precipitation wash-out. Precipitation quality (snowfall and rainfall) was also measured on site with a Belfort weighing type precipitation gauge. Routine analyses performed on precipitation samples included pH, solids, selected metals, sulfate and chloride, while sodium, arsenic, mercury, polychlorinated biphenyls, total organic carbon, chemical oxygen demand, rubber and oil and grease analyses were performed on selected samples. These quality data for individual events at the four monitoring sites are presented in Tables A-1 to A-4.

Table A-1. Precipitation quality (mg/l) at the Milwaukee I-94 site.

Parameter	10/22 1978	11/12-13 1978	1/12-13 1979	4/24-25 1979	6/7 1979	7/24 1979	8/22 1979	10/1 1979
pH	3.8	3.8	6.8	3.5	3.8	4.0	4.1	4.8
TS	16	46	85	17	75	54	33	31
TSS	3	4	23	12	18	5	4	17
VSS	2	NA	9	3	6	3	2	12
TVS	7	28	27	8	20	12	23	18
Pb	ND	0.05	0.10	ND	ND	ND	ND	ND
Zn	0.26	3.9	0.08	ND	0.08	0.07	0.13	0.24
Fe	ND	ND	0.37	ND	0.03	0.07	0.60	0.23
Cr	ND	0.01	ND	ND	ND	ND	ND	ND
Cu	0.04	0.04	0.05	ND	0.03	0.03	0.13	0.71
Cd	ND	ND	ND	ND	ND	ND	ND	ND
Ni	ND	ND	ND	ND	ND	ND	ND	ND
TPO	0.05	ND	0.14	0.06	0.03	ND	ND	0.08
TKN ⁴	1.3	2.0	1.9	3.2	1.1	1.0	1.2	2.1
NO ₂ /NO ₃	0.41	0.75	0.44	0.62	0.33	0.25	0.29	0.93
Sulfate	ND	ND	1.0	NA	5	ND	ND	ND
As	NA	ND	NA	NA	NA	NA	ND	NA
Hg $\times 10^{-3}$	NA	ND	NA	ND	NA	NA	NA	NA
Na	NA	1.25	NA	NA	NA	NA	NA	NA
Cl	NA	10	10	2.0	ND	ND	2.0	1.4
PCB $\times 10^3$	NA	ND	NA	NA	NA	NA	NA	0.05
TOC	NA	8	NA	NA	NA	NA	NA	26
COD	NA	12	NA	NA	NA	NA	NA	45
Rubber	NA	NA	NA	NA	NA	NA	NA	NA
O&G	NA	NA	NA	NA	NA	NA	NA	NA
Precipitation, in	0.23	0.5	1.18 ^a	0.64	0.39	0.42	0.46	0.21

^a Snowfall sample.

NA - No analysis performed.

ND = Not detectable.

Metric units: To convert in to cm multiply by 2.54.

Table A-1. Precipitation quality (mg/l) at the Milwaukee I-94 site
(continued).

Parameter	11/6 1979	1/11 1980	1/15-16 1980	1/16 1980	2/5-6 1980	3/4 1980	4/3 1980	5/13 1980
pH	3.5	3.4	3.5	3.7	3.8	4.8	3.2	2.7
TS	82	210	50	23	20	42	55	39
TSS	14	55	5	6	6	24	31	12
VSS	4	12	2	3	2	6	6	6
TVS	57	70	39	15	13	17	13	26
Pb	ND	0.3	ND	ND	ND	ND	ND	ND
Zn	0.27	0.55	0.39	0.09	0.08	0.16	0.23	0.18
Fe	0.87	1.0	0.40	0.16	0.17	0.31	0.41	ND
Cr	0.01	0.02	ND	ND	0.04	ND	ND	ND
Cu	0.16	0.16	0.14	0.02	0.03	0.03	0.02	0.03
Cd	ND	ND	ND	ND	0.02	ND	ND	ND
Ni	ND	0.1	ND	ND	0.2	ND	ND	ND
TPO ₄	ND	0.07	ND	ND	0.04	0.14	0.05	ND
TKN ₄	2.2	2.5	1.7	1.4	2.0	3.0	2.0	2.0
NO ₂ /NO ₃	1.7	1.63	1.96	0.53	0.96	0.92	1.64	0.82
Sulfate	12	6	10	3	ND	4	4	3
As	NA	NA	NA	NA	NA	NA	NA	NA
Hg $\times 10^{-3}$	NA	NA	NA	NA	NA	NA	NA	NA
Na	NA	NA	NA	NA	NA	NA	NA	NA
Cl	ND	27	25	7	9	10	9.5	10
PCB $\times 10^{-3}$	NA	NA	NA	NA	NA	0.10	NA	NA
TOC	ND	12	10	ND	NA	NA	6	NA
COD	28	45	15	11	NA	NA	23	NA
Rubber	NA	NA	NA	NA	NA	NA	0.275	NA
O&G	NA	NA	NA	NA	NA	NA	ND	NA
Precipitation, in	0.20	0.10	0.16	0.31	0.25 ^a	0.12	0.24	0.11

^a Snowfall sample.

NA = No analysis performed.

ND - Not detectable.

Metric units: To convert in to cm multiply by 2.54.

Table A-2. Precipitation quality (mg/l) at the Sacramento Hwy 50 site.

Parameter	12/19 1979	1/9 1980	2/14-15 1980	12/3-4 1980	1/22-23 1981
pH	4.9	4.9	5.0	6.3	5.1
TS	84	64	30	20	69
TSS	8	3	2	18	4
VSS	ND	2	ND	12	1
TVS	NA	20	10	16	6
Pb	ND	0.1	ND	ND	0.05
Zn	0.03	0.06	0.20	0.11	0.160
Fe	ND	0.1	0.30	0.2	0.18
Cr	ND	ND	0.02	ND	0.018
Cu	ND	0.05	0.06	ND	0.035
Cd	ND	ND	0.04	0.03	0.008
Ni	ND	0.1	0.1	ND	0.05
TPO ₄	ND	0.06	NA	ND	ND
TKN ⁴	1.3	1.1	NA	1.1	ND
NO ₂ /NO ₃	0.14	0.52	NA	0.17	0.07
Sulfate	ND	1	ND	ND	ND
As	NA	NA	ND	NA	ND
Hg x 10 ⁻³	NA	ND	NA	ND	ND
Na	14	NA	NA	2.0	0.3
Cl	25	2.0	6.0	3.0	ND
PCB x 10 ⁻³	NA	NA	NA	0.31	NA
TOC	11	ND	NA	11	10
COD	8.0	12	NA	32	10
Rubber	NA	NA	NA	ND	NA
Precipitation, in	0.50	1.01	1.47	1.16	1.10

NA = No analysis performed.

ND - Not detectable.

Metric units: To convert in to cm multiply by 2.54.

Table A-3. Precipitation quality (mg/l) at the Harrisburg I-81 site.

Parameter	9/2 1980	9/18 1980	10/25 1980	10/25 1980	11/24 1980	11/24 1980	2/20 1981	4/23 1981	4/24 1981	6/10 1981
pH	4.3	3.9	4.1	5.6	3.6	3.2	4.8	4.2	4.3	4.7
TS	66	19	68	56	20	20	37	23	50	4
TSS	5	7	7	7	2	2	2	4	30	2
VSS	3	3	2	3	1	1	1	2	NA	NA
TVS	28	11	35	48	12	12	5	12	NA	NA
Pb	ND	0.2	0.2	0.2	0.1	ND	ND	0.01	ND	0.03
Zn	0.29	0.23	0.08	0.11	0.09	0.06	0.048	0.064	0.07	0.072
Fe	0.30	0.82	0.30	0.40	0.30	0.20	0.19	0.15	0.8	0.155
Cr	0.11	ND	ND	ND	ND	ND	ND	0.007	NA	NA
Cu	0.16	0.07	0.04	0.03	0.05	0.02	0.020	0.049	NA	NA
Cd	0.04	0.02	ND	ND	ND	ND	0.003	ND	NA	NA
Ni	0.2	ND	ND	ND	ND	ND	ND	0.01	NA	NA
TPO ⁴	0.04	0.02	ND	ND	ND	ND	ND	ND	NA	NA
TKN ⁴	0.70	0.58	0.50	ND	1.00	1.10	1.1	ND	NA	NA
NO ₂ /NO ₃	0.27	1.03	0.09	0.03	0.24	0.03	0.16	0.98	NA	NA
Sulfate	ND	13	1	ND	2	1	ND	ND	NA	NA
As	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
Hg $\times 10^{-3}$	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
Na	NA	NA	1.4	1.0	ND	ND	0.2	NA	NA	NA
Cl	2.5	5	1	1	2	3	1	ND	NA	ND
PCB $\times 10^{-3}$	NA	NA	NA	NA	0.26	0.14	NA	NA	NA	NA
TOC	NA	19	10	5.0	5.0	ND	NA	NA	NA	NA
COD	NA	6.0	ND	ND	12	ND	NA	NA	NA	NA
Rubber	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
O&G	NA	NA	ND	ND	1	2	NA	NA	NA	NA
Precipitation, in	0.25	0.23	1.01	0.56	0.80	1.18	1.02	0.42	1.10	0.52

NA = No analysis performed.

ND = Not detectable.

Metric units: To convert in to cm multiply by 2.54.

Table A-4. Precipitation quality (mg/l) at the Efland I-85 site.

Parameter	8/11-12 1981	8/19 1981	9/5 1981	9/7 1981	9/15-16 1981	10/24-25 1981	10/27 1981
pH	3.4	4.6	4.2	4.7	3.7	4.6	5.4
TS	26	23	4	2	6	4	2
SS	3	1	1	ND	ND	1	1
VSS	2	ND	ND	ND	ND	NA	NA
TVS	14	10	2	ND	4	NA	NA
Pb	ND	ND	0.02	0.02	ND	ND	ND
Zn	0.03	0.05	0.04	ND	0.02	0.02	0.03
Fe	0.06	1.50	0.07	0.14	0.53	0.07	0.06
Cr	0.01	ND	NA	ND	NA	0.002	0.002
Cu	0.02	0.06	0.03	0.03	0.03	0.01	0.03
Cd	0.002	ND	0.001	0.004	ND	ND	ND
Ni	ND	ND	0.01	0.01	ND	ND	ND
TPO	ND	ND	ND	ND	0.03	NA	NA
TKN ⁴	1.90	0.51	0.84	0.045	ND	NA	NA
NO ₂ /NO ₃	0.81	0.03	0.23	0.07	0.19	NA	NA
Sulfate	5	ND	ND	ND	ND	NA	NA
As	ND	NA	NA	NA	NA	NA	NA
Hg _x 10 ⁻³	ND	NA	NA	NA	NA	NA	NA
Na	0.10	0.61	0.25	0.53	ND	NA	NA
Cl	ND	6	4	3	6	NA	NA
PCB _x 10 ⁻³	NA	NA	NA	NA	NA	NA	NA
TOC	5	NA	NA	NA	NA	NA	NA
COD	17	NA	NA	NA	NA	NA	NA
Rubber	NA	NA	NA	NA	NA	NA	NA
O&G	ND	NA	NA	NA	NA	NA	NA
Precipitation, in	2.04	1.85	1.43	3.70	0.72	0.78	2.29

NA = No analysis performed.

ND = Not detectable.

Metric units: To convert in to cm multiply by 2.54.

Table A-4. Precipitation quality (mg/l) at the Efland I-85 site (continued).

Parameter	11/24 1981	12/1 1981	12/14 1981	1/3 1982	2/2 1982	3/20-21 1982	4/8-9 1982
pH	4.2	3.6	4.2	4.8	4.8	3.8	3.8
TS	12	NA	5	33	20	12	31
SS	4	NA	ND	9	1	2	5
VSS	NA	NA	NA	5	NA	NA	NA
TVS	NA	NA	NA	24	NA	NA	NA
Pb	ND	NA	ND	ND	ND	0.01	ND
Zn	0.03	NA	0.02	0.04	0.02	0.04	0.05
Fe	0.14	NA	0.08	0.27	0.05	0.05	0.13
Cr	ND	NA	0.01	ND	0.002	0.003	ND
Cu	0.03	NA	0.01	0.04	0.02	0.09	0.01
Cd	ND	NA	ND	ND	ND	ND	0.003
Ni	ND	NA	0.01	ND	ND	ND	0.02
TPO ⁴	NA	NA	ND	NA	NA	ND	NA
TKN ⁴	NA	NA	2.00	NA	NA	2.00	NA
NO ₂ /NO ₃	NA	NA	0.10	NA	NA	0.45	NA
Sulfate	NA	NA	NA	NA	NA	NA	NA
As	NA	NA	NA	NA	NA	NA	NA
Hg $\times 10^{-3}$	NA	NA	NA	NA	NA	NA	NA
Na	0.20	NA	2	NA	ND	NA	NA
Cl	ND	NA	1	NA	3	NA	NA
PCB $\times 10^{-3}$	NA	NA	NA	NA	NA	NA	ND
TOC	NA	NA	NA	NA	NA	NA	16
COD	NA	NA	NA	NA	NA	NA	8
Rubber	NA	NA	NA	NA	NA	NA	NA
O&G	NA	NA	NA	NA	NA	NA	NA
Precipitation, in	0.34	0.22	1.77	0.82	1.39	0.90	0.64

NA = No analysis performed

ND = Not detectable

Metric units: To convert in to cm multiply by 2.54.

APPENDIX B

PAVED RUNOFF

Quantity and quality of runoff from the paved (Appendix B), as well as the unpaved (Appendix C) area at each site (except at the Efland site), was monitored at separate points in order to establish the overall fate of pollutants leaving the highway drainage system. Monitoring of the paved and unpaved areas was segregated to determine pollutant loadings leaving the highway drainage system and to develop insights into the hydraulics of pollutant movement and strengths at various points in the drainage scheme. Two types of drainage systems were monitored: flush shoulder (Harrisburg and Efland) and curb and gutter (Milwaukee and Sacramento).

A large volume of highway runoff quality data was collected at the four sites monitored. Composite data was collected at each site to provide information on the total pollutant load leaving the highway system during a runoff event. In order to suitably characterize flow composite sample analysis data, concentration (mg/l), loadings [lb/mi/event (kg/km/event)], and loadings normalized for runoff volume [lb/mi/in of runoff (kg/km/cm of runoff)] were calculated for each site. Loadings data, lb/mi/event (kg/km/event) provide information on pollutants actually leaving a highway section [the term mile (km) includes both directions] for each event monitored. Loading values normalized for runoff volume, lb/mi/in of runoff, provide a loading unit which can be used to compare sites in relationship to site characteristics by eliminating flow volume bias. At Milwaukee both lane directions were monitored directly, while at Sacramento and Harrisburg only one lane direction was actually monitored. At Efland one-and-one-half lane directions were monitored. Therefore, composite loading values calculated for Sacramento and Harrisburg were multiplied by two to reflect values which indicate loadings on a pounds-per-highway mile (both directions) basis, while an appropriate factor was applied to the Efland data. Loading values at all sites can then be directly compared. Hydraulic data and composite quality data for quality monitored events (samples were not obtained for every runoff event) are presented in Tables B-1 to B-4. Data for Milwaukee, Sacramento and Harrisburg represent the paved area only, while the Efland data represent both the paved and unpaved areas.

APPENDIX B
PAVED RUNOFF

TABLE B-1 Paved runoff flow and quality data - Milwaukee I-94

EVENT	DATE	RAINFALL, RUNOFF, Q/R, pH				EVENT	TS			
		inches	inches	Q/R	pH		mg/l	lb	lb/mi	lb/mi/in
1	09/12/78	8.00E-02	6.00E-02	7.50E-01	-	1	2.89E+02	1.93E+01	7.27E+01	1.21E+03
2	09/13/78	9.50E-01	7.50E-01	7.89E-01	-	2	9.50E+01	7.91E+01	2.99E+02	3.98E+02
3	09/13/78	1.90E-01	1.70E-01	8.95E-01	-	3	2.85E+02	5.38E+01	2.03E+02	1.19E+03
4	09/14/78	2.00E-01	1.50E-01	7.50E-01	-	4	2.20E+02	3.66E+01	1.38E+02	9.22E+02
5	09/17/78	6.00E-01	5.30E-01	8.83E-01	-	5	1.30E+02	7.65E+01	2.89E+02	5.45E+02
6	09/18/78	1.34E+00	1.23E+00	9.18E-01	-	6	1.85E+02	2.53E+02	9.54E+02	7.75E+02
7	09/20/78	1.50E-01	1.40E-01	9.33E-01	-	7	1.06E+02	1.65E+01	6.22E+01	4.44E+02
8	09/21/78	6.30E-01	5.40E-01	8.57E-01	-	8	1.50E+02	9.00E+01	3.39E+02	6.29E+02
9	09/30/78	4.00E-02	2.00E-02	5.00E-01	-	9	1.99E+03	4.42E+01	1.67E+02	8.34E+03
10	10/02/78	2.50E-01	1.50E-01	6.00E-01	7.20E+00	10	2.25E+02	3.75E+01	1.41E+02	9.43E+02
11	10/05/78	4.40E-01	3.20E-01	7.27E-01	-	11	1.38E+02	4.90E+01	1.85E+02	5.78E+02
12	10/05/78	1.20E-01	1.00E-01	8.33E-01	-	12	2.42E+02	2.69E+01	1.01E+02	1.01E+03
13	10/16/78	1.10E-01	8.00E-02	7.27E-01	-	13	3.85E+02	3.42E+01	1.29E+02	1.61E+03
14	10/22/78	2.30E-01	1.40E-01	6.09E-01	-	14	2.32E+02	3.61E+01	1.36E+02	9.72E+02
15	10/25/78	1.10E-01	1.00E-01	9.09E-01	-	15	2.63E+02	2.92E+01	1.10E+02	1.10E+03
16	10/25/78	3.00E-02	3.00E-02	1.00E+00	-	16	3.00E+02	9.99E+00	3.77E+01	1.26E+03
17	11/05/78	2.00E-02	2.00E-02	1.00E+00	-	17	1.30E+03	2.88E+01	1.09E+02	5.44E+03
18	11/12/78	5.40E-01	4.30E-01	7.96E-01	-	18	3.92E+02	1.87E+02	7.06E+02	1.64E+03
19	11/17/78	6.80E-01	6.00E-01	8.82E-01	-	19	2.73E+02	1.82E+02	6.86E+02	1.14E+03
20	11/17/78	-	2.00E-02	-	-	20	7.65E+02	1.70E+01	6.41E+01	3.21E+03
21	11/22/78	4.00E-01	4.30E-01	1.08E+00	-	21	6.15E+02	2.94E+02	1.11E+03	2.58E+03
22	11/26/78	4.00E-01	4.30E-01	1.08E+00	-	22	9.66E+03	4.61E+03	1.74E+04	4.05E+04
23	11/29/78	6.00E-02	6.00E-02	1.00E+00	-	23	6.93E+03	4.62E+02	1.74E+03	2.90E+04
24	12/03/78	6.60E-01	2.00E-01	3.03E-01	-	24	1.19E+04	2.64E+03	9.97E+03	4.99E+04
25	02/21/79	3.50E-01	3.60E-01	1.03E+00	-	25	-	-	-	-
26	03/03/79	4.10E-01	5.60E-01	1.37E+00	7.50E+00	26	1.31E+03	8.15E+02	3.07E+03	5.49E+03
27	03/07/79	1.00E-01	1.30E-01	1.30E+00	7.15E+00	27	1.66E+03	2.40E+02	9.04E+02	6.96E+03
28	03/18/79	2.10E-01	2.70E-01	1.29E+00	7.50E+00	28	7.60E+02	2.28E+02	8.60E+02	3.18E+03
29	03/19/79	7.00E-02	9.00E-02	1.29E+00	7.50E+00	29	3.43E+03	3.43E+02	1.29E+03	1.44E+04
30	03/22/79	5.00E-02	5.00E-02	1.00E+00	-	30	-	-	-	-
31	03/23/79	1.30E-01	1.50E-01	1.15E+00	7.45E+00	31	7.35E+02	1.22E+02	4.62E+02	3.08E+03
32	03/23/79	4.00E-02	6.00E-02	1.50E+00	-	32	-	-	-	-
33	03/29/79	1.20E-01	1.50E-01	1.25E+00	7.75E+00	33	1.69E+03	2.82E+02	1.06E+03	7.08E+03
34	03/29/79	3.90E-01	5.00E-01	1.28E+00	6.80E+00	34	1.50E+03	8.33E+02	3.14E+03	6.29E+03
35	03/30/79	8.10E-01	7.80E-01	9.63E-01	7.20E+00	35	2.13E+03	1.85E+03	6.96E+03	8.93E+03
36	04/05/79	1.10E-01	9.00E-02	8.18E-01	7.05E+00	36	5.79E+02	5.79E+01	2.18E+02	2.43E+03
37	04/11/79	1.22E+00	1.09E+00	8.93E-01	6.90E+00	37	3.40E+02	4.12E+02	1.42E+03	1.42E+03
38	04/12/79	3.00E-02	3.00E-02	1.00E+00	-	38	-	-	-	-
39	04/20/79	1.10E-01	1.00E-01	9.09E-01	-	39	8.62E+02	9.57E+01	3.61E+02	3.61E+03
40	04/24/79	5.00E-02	4.00E-02	8.00E-01	-	40	8.15E+02	3.62E+01	1.37E+02	3.42E+03
41	04/24/79	4.20E-01	3.30E-01	7.86E-01	6.80E+00	41	3.34E+02	1.22E+02	4.62E+02	1.40E+03
42	04/25/79	1.20E+00	9.70E-01	8.08E-01	6.90E+00	42	3.69E+02	3.97E+02	1.50E+03	1.55E+03
43	04/27/79	2.40E-01	1.80E-01	7.50E-01	7.10E+00	43	3.93E+02	7.86E+01	2.96E+02	1.65E+03
44	04/29/79	3.20E-01	2.90E-01	9.06E-01	7.20E+00	44	3.57E+02	1.15E+02	4.34E+02	1.50E+03
45	05/02/79	3.40E-01	2.60E-01	7.65E-01	-	45	2.67E+02	7.71E+01	2.91E+02	1.12E+03
46	05/11/79	3.00E-02	2.00E-02	6.67E-01	-	46	2.71E+03	6.02E+01	2.27E+02	1.14E+04
47	05/11/79	3.00E-02	2.00E-02	6.67E-01	-	47	1.05E+03	2.33E+01	8.80E+01	4.40E+03
48	05/13/79	1.50E-01	9.00E-02	6.00E-01	-	48	5.25E+02	5.25E+01	1.98E+02	2.29E+03

EVENT	DATE	RAINFALL,		RUNOFF,		Q/R	pH	TS				
		inches	inches	inches	inches			mg/l	lb	lb/mi	lb/mi/in	
49	05/13/79	1.30E-01	1.00E-01	7.69E-01	-			49	2.76E+02	3.07E+01	1.16E+02	1.16E+03
50	05/18/79	3.90E-01	2.90E-01	7.44E-01	5.90E+00			50	5.83E+02	1.88E+02	7.09E+02	2.44E+03
51	05/30/79	1.07E+00	8.70E-01	8.13E-01	5.10E+00			51	3.74E+02	3.61E+02	1.36E+03	1.57E+03
52	06/04/79	4.00E-02	2.00E-02	5.00E-01	6.30E+00			52	8.65E+02	1.92E+01	7.25E+01	3.62E+03
53	06/05/79	7.00E-02	6.00E-02	8.57E-01	6.40E+00			53	5.80E+02	3.86E+01	1.46E+02	2.43E+03
54	06/07/79	3.90E-01	3.20E-01	8.21E-01	6.70E+00			54	2.93E+02	1.04E+02	3.93E+02	1.23E+03
55	06/08/79	1.70E-01	1.30E-01	7.65E-01	7.30E+00			55	5.83E+02	8.42E+01	3.18E+02	2.44E+03
56	06/09/79	7.00E-02	6.00E-02	8.57E-01	6.60E+00			56	1.83E+02	1.22E+01	4.60E+01	7.67E+02
57	06/10/79	1.40E-01	1.00E-01	7.14E-01	6.40E+00			57	2.03E+02	2.25E+01	8.51E+01	8.51E+02
58	06/17/79	8.00E-02	6.00E-02	7.50E-01	6.20E+00			58	1.50E+02	9.99E+00	3.77E+01	6.29E+02
59	06/20/79	1.10E-01	1.00E-01	9.09E-01	6.50E+00			59	3.65E+02	4.05E+01	1.53E+02	1.53E+03
60	06/20/79	3.80E-01	2.60E-01	6.84E-01	6.30E+00			60	4.21E+02	1.22E+02	4.59E+02	1.76E+03
61	06/27/79	4.70E-01	4.30E-01	9.15E-01	6.00E+00			61	3.30E+02	1.50E+02	5.95E+02	1.38E+03
62	06/28/79	6.80E-01	5.40E-01	7.94E-01	6.70E+00			62	2.04E+02	1.22E+02	4.62E+02	8.55E+02
63	06/30/79	7.00E-02	5.00E-02	7.14E-01	6.60E+00			63	3.36E+02	1.87E+01	7.04E+01	1.41E+03
64	07/03/79	4.60E-01	3.80E-01	8.26E-01	6.50E+00			64	2.90E+02	1.22E+02	4.62E+02	1.22E+03
65	07/04/79	4.00E-02	3.00E-02	7.50E-01	6.90E+00			65	3.90E+02	1.30E+01	4.90E+01	1.63E+03
66	07/10/79	4.00E-02	2.00E-02	5.00E-01	6.40E+00			66	4.05E+02	9.00E+00	3.39E+01	1.70E+03
67	07/11/79	4.00E-01	2.80E-01	7.00E-01	6.70E+00			67	3.33E+02	1.04E+02	3.91E+02	1.40E+03
68	07/11/79	6.00E-02	4.00E-02	6.67E-01	6.70E+00			68	3.48E+02	1.55E+01	5.83E+01	1.46E+03
69	07/24/79	4.20E-01	3.50E-01	8.34E-01	6.80E+00			69	2.64E+02	1.03E+02	3.87E+02	1.11E+03
70	07/30/79	3.40E-01	2.50E-01	7.35E-01	6.90E+00			70	2.74E+02	7.61E+01	2.87E+02	1.15E+03
71	08/03/79	2.00E-01	1.60E-01	8.00E-01	6.40E+00			71	2.43E+02	4.32E+01	1.63E+02	1.02E+03
72	08/05/79	3.40E-01	3.00E-01	8.82E-01	6.00E+00			72	1.12E+02	3.73E+01	1.41E+02	4.69E+02
73	08/08/79	2.30E-01	1.80E-01	7.83E-01	6.85E+00			73	1.73E+02	3.46E+01	1.30E+02	7.25E+02
74	08/09/79	1.28E+00	1.26E+00	9.84E-01	6.90E+00			74	2.77E+02	3.88E+02	1.46E+03	1.16E+03
75	08/12/79	6.00E-02	5.00E-02	8.33E-01	6.70E+00			75	3.24E+02	1.80E+01	6.79E+01	1.36E+03
76	08/13/79	3.00E-02	2.00E-02	6.67E-01	7.55E+00			76	1.13E+03	2.51E+01	9.47E+01	4.74E+03
77	08/17/79	1.30E-01	1.20E-01	9.23E-01	6.90E+00			77	3.20E+02	4.26E+01	1.61E+02	1.34E+03
78	08/17/79	1.20E-01	1.10E-01	9.17E-01	6.80E+00			78	9.00E+01	1.10E+01	4.15E+01	3.77E+02
79	08/19/79	4.00E-02	3.00E-02	7.50E-01	7.00E+00			79	2.90E+02	9.66E+00	3.65E+01	1.22E+03
80	08/20/79	8.50E-01	8.10E-01	9.53E-01	7.20E+00			80	1.35E+02	1.21E+02	4.58E+02	5.66E+02
81	08/22/79	2.00E-02	1.00E-02	5.00E-01	6.85E+00			81	4.98E+02	5.53E+00	2.09E+01	2.09E+03
82	08/22/79	5.00E-02	4.00E-02	8.00E-01	6.95E+00			82	1.95E+02	8.66E+00	3.27E+01	8.17E+02
83	08/23/79	3.00E-02	2.00E-02	6.67E-01	7.00E+00			83	1.87E+02	4.15E+00	1.57E+01	7.84E+02
84	08/23/79	2.00E-02	2.00E-02	1.00E+00	7.00E+00			84	1.82E+02	4.04E+00	1.53E+01	7.63E+02
85	08/23/79	4.00E-02	3.00E-02	7.50E-01	6.65E+00			85	3.27E+02	1.09E+01	4.11E+01	1.37E+03
86	08/26/79	3.00E-02	2.00E-02	6.67E-01	6.20E+00			86	4.74E+02	1.05E+01	3.97E+01	1.99E+03
87	08/27/79	4.90E-01	4.40E-01	8.98E-01	7.00E+00			87	1.82E+02	8.89E+01	3.36E+02	7.63E+02
88	08/29/79	2.30E-01	2.00E-01	8.70E-01	7.20E+00			88	1.43E+02	3.18E+01	1.20E+02	5.99E+02
89	09/13/79	4.00E-02	3.00E-02	7.50E-01	6.70E+00			89	2.21E+03	7.36E+01	2.78E+02	9.26E+03
90	10/01/79	2.10E-01	1.50E-01	7.14E-01	6.80E+00			90	7.82E+02	1.30E+02	4.92E+02	3.28E+03
91	10/20/79	2.40E-01	2.30E-01	9.58E-01	6.20E+00			91	2.10E+02	5.36E+01	2.02E+02	8.80E+02
92	10/20/79	6.00E-02	4.00E-02	6.67E-01	6.55E+00			92	1.75E+02	7.77E+00	2.93E+01	7.33E+02
93	10/22/79	5.90E-01	4.30E-01	7.29E-01	6.80E+00			93	6.58E+02	3.14E+02	1.19E+03	2.76E+03
94	10/31/79	2.50E-01	2.30E-01	9.20E-01	6.90E+00			94	3.25E+02	8.30E+01	3.13E+02	1.36E+03
95	11/06/79	2.00E-01	1.60E-01	8.00E-01	6.90E+00			95	4.01E+02	7.13E+01	2.69E+02	1.68E+03
96	11/21/79	9.80E-01	7.40E-01	7.55E-01	7.20E+00			96	2.47E+02	2.03E+02	7.66E+02	1.04E+03
97	11/22/79	2.20E-01	1.90E-01	8.64E-01	6.40E+00			97	2.21E+02	4.66E+01	1.76E+02	9.26E+02
98	11/25/79	6.60E-01	6.00E-01	9.09E-01	6.80E+00			98	1.10E+02	7.33E+01	2.77E+02	4.61E+02
99	12/11/79	9.00E-02	4.00E-02	4.44E-01	7.00E+00			99	1.10E+03	4.89E+01	1.84E+02	4.61E+03
100	12/22/79	1.60E-01	1.30E-01	8.13E-01	7.00E+00			100	7.11E+02	1.03E+02	3.87E+02	2.98E+03
101	12/23/79	1.50E-01	1.30E-01	8.67E-01	7.00E+00			101	4.74E+02	6.84E+01	2.58E+02	1.99E+03
102	01/02/80	7.00E-02	7.00E-02	1.00E+00	7.30E+00			102	1.54E+04	1.20E+03	4.52E+03	6.45E+04

EVENT	DATE	RAINFALL,		RUNOFF,		Q/R	pH	EVENT	mg/l	TS		
		inches	inches	inches	inches					lb	lb/mi	lb/mi/in
103	01/06/80	2.00E-02	1.00E-02	5.00E-01	6.65E+00	103	4.56E+04	5.06E+02	1.91E+03	1.91E+05		
104	01/06/80	7.00E-02	5.00E-02	7.14E-01	6.60E+00	104	4.50E+04	2.50E+03	9.43E+03	1.89E+05		
105	01/06/80	9.00E-02	7.00E-02	7.78E-01	7.05E+00	105	1.87E+04	1.45E+03	5.49E+03	7.84E+04		
106	01/10/80	-	4.00E-02	-	7.20E+00	106	1.27E+04	5.64E+02	2.13E+03	5.32E+04		
107	01/11/80	1.10E-01	1.00E-01	9.09E-01	7.80E+00	107	3.13E+03	3.48E+02	1.31E+03	1.31E+04		
108	01/13/80	5.00E-02	5.00E-02	1.00E+00	7.20E+00	108	5.37E+03	2.98E+02	1.13E+03	2.25E+04		
109	01/15/80	2.00E-02	1.00E-02	5.00E-01	7.40E+00	109	6.67E+03	7.41E+01	2.80E+02	2.80E+04		
110	01/15/80	1.40E-01	1.10E-01	7.86E-01	7.70E+00	110	9.60E+02	1.17E+02	4.43E+02	4.02E+03		
111	01/16/80	2.00E-01	2.30E-01	8.21E-01	6.90E+00	111	8.05E+02	2.06E+02	7.76E+02	3.37E+03		
112	01/16/80	6.00E-02	6.00E-02	1.00E+00	7.40E+00	112	8.76E+02	5.84E+01	2.20E+02	3.67E+03		
113	01/24/80	2.00E-02	2.00E-02	1.00E+00	7.40E+00	113	3.16E+04	7.02E+02	2.65E+03	1.32E+05		
114	02/03/80	3.00E-02	1.00E-02	3.33E-01	6.60E+00	114	5.74E+04	6.37E+02	2.41E+03	2.41E+05		
115	02/06/80	2.60E-01	3.00E-02	1.15E-01	7.10E+00	115	3.37E+04	1.12E+03	4.24E+03	1.41E+05		
116	02/09/80	3.00E-02	2.00E-02	6.67E-01	7.00E+00	116	2.61E+04	5.80E+02	2.19E+03	1.09E+05		
117	02/22/80	1.60E-01	2.20E-01	1.38E+00	7.60E+00	117	2.32E+03	5.67E+02	2.14E+03	9.72E+03		
118	02/22/80	6.00E-02	1.10E-01	1.83E+00	7.70E+00	118	2.58E+03	3.15E+02	1.19E+03	1.08E+04		
119	02/22/80	3.00E-02	2.00E-02	6.67E-01	6.80E+00	119	8.09E+03	1.80E+02	6.78E+02	3.39E+04		
120	02/25/80	6.00E-02	2.00E-02	3.33E-01	7.40E+00	120	1.78E+04	3.95E+02	1.49E+03	7.46E+04		
121	03/04/80	1.70E-01	1.30E-01	7.65E-01	-	121	1.15E+04	1.67E+03	6.29E+03	4.84E+04		
122	03/05/80	7.00E-02	4.00E-02	5.71E-01	7.00E+00	122	2.64E+04	1.17E+03	4.43E+03	1.11E+05		
123	03/13/80	9.00E-02	9.00E-02	1.00E+00	7.30E+00	123	1.79E+04	1.79E+03	6.75E+03	7.50E+04		
124	03/23/80	1.00E-01	9.00E-02	9.00E-01	7.95E+00	124	2.62E+03	2.62E+02	9.88E+02	1.10E+04		
125	04/02/80	2.00E-02	1.00E-02	5.00E-01	6.40E+00	125	4.88E+03	5.42E+01	2.05E+02	2.05E+04		
126	04/03/80	6.00E-02	5.00E-02	8.33E-01	7.10E+00	126	1.56E+03	8.66E+01	3.27E+02	6.54E+03		
127	04/03/80	2.40E-01	2.10E-01	8.75E-01	7.40E+00	127	3.03E+03	7.07E+02	2.67E+03	1.27E+04		
128	04/07/80	4.00E-02	2.00E-02	5.00E-01	7.50E+00	128	6.51E+02	1.45E+01	5.46E+01	2.73E+03		
129	04/08/80	4.90E-01	4.80E-01	9.80E-01	7.20E+00	129	2.78E+02	1.48E+02	5.59E+02	1.16E+03		
130	04/08/80	3.80E-01	3.10E-01	8.16E-01	7.50E+00	130	8.95E+02	3.08E+02	1.16E+03	3.75E+03		
131	04/11/80	2.90E-01	1.90E-01	6.55E-01	7.30E+00	131	3.88E+02	8.19E+01	3.09E+02	1.63E+03		
132	04/14/80	8.00E-02	7.00E-02	8.75E-01	7.60E+00	132	1.61E+03	1.25E+02	4.72E+02	6.75E+03		
133	04/14/80	2.10E-01	2.70E-01	1.29E+00	7.70E+00	133	2.57E+03	7.71E+02	2.91E+03	1.08E+04		
134	04/24/80	2.00E-02	2.00E-02	1.00E+00	6.80E+00	134	2.42E+03	5.37E+01	2.03E+02	1.01E+04		
135	04/27/80	8.00E-02	5.00E-02	6.25E-01	6.90E+00	135	5.80E+02	3.22E+01	1.22E+02	2.43E+03		
136	04/28/80	1.20E-01	8.00E-02	6.67E-01	7.30E+00	136	4.36E+02	3.87E+01	1.46E+02	1.83E+03		
137	04/28/80	2.70E-01	2.30E-01	8.52E-01	7.10E+00	137	2.18E+02	5.57E+01	2.10E+02	9.14E+02		
138	05/12/80	1.10E-01	9.00E-02	8.18E-01	6.40E+00	138	4.98E+02	4.98E+01	1.88E+02	2.09E+03		
139	05/13/80	3.10E-01	2.40E-01	7.74E-01	6.55E+00	139	6.27E+02	1.67E+02	6.31E+02	2.63E+03		

VTS					SS				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	-	-	-	-	2	6.40E+01	5.33E+01	2.01E+02	2.68E+02
3	-	-	-	-	3	-	-	-	-
4	-	-	-	-	4	-	-	-	-
5	-	-	-	-	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	-	-	-	-	7	-	-	-	-
8	-	-	-	-	8	-	-	-	-
9	-	-	-	-	9	-	-	-	-
10	6.50E+01	1.08E+01	4.09E+01	2.72E+02	10	1.15E+02	1.92E+01	7.23E+01	4.82E+02
11	-	-	-	-	11	4.70E+01	1.67E+01	6.30E+01	1.97E+02
12	-	-	-	-	12	2.23E+02	2.48E+01	9.35E+01	9.35E+02
13	-	-	-	-	13	2.45E+02	2.18E+01	8.21E+01	1.03E+03
14	-	-	-	-	14	4.40E+01	6.84E+00	2.58E+01	1.84E+02
15	-	-	-	-	15	1.30E+02	1.53E+01	5.78E+01	5.78E+02
16	-	-	-	-	16	1.28E+02	4.26E+00	1.61E+01	5.36E+02
17	-	-	-	-	17	1.56E+02	3.46E+00	1.31E+01	6.54E+02
18	-	-	-	-	18	2.19E+02	1.05E+02	3.95E+02	9.18E+02
19	-	-	-	-	19	1.42E+02	9.46E+01	3.57E+02	5.95E+02
20	-	-	-	-	20	1.37E+02	3.04E+00	1.15E+01	5.74E+02
21	-	-	-	-	21	1.08E+02	5.16E+01	1.95E+02	4.53E+02
22	-	-	-	-	22	1.04E+02	4.92E+01	1.86E+02	4.32E+02
23	-	-	-	-	23	4.07E+02	2.71E+01	1.02E+02	1.71E+03
24	-	-	-	-	24	1.16E+02	2.58E+01	9.72E+01	4.86E+02
25	-	-	-	-	25	-	-	-	-
26	1.87E+02	1.16E+02	4.39E+02	7.84E+02	26	4.02E+02	2.50E+02	9.43E+02	1.68E+03
27	2.68E+02	3.87E+01	1.46E+02	1.12E+03	27	4.90E+02	7.07E+01	2.67E+02	2.05E+03
28	1.35E+02	4.05E+01	1.53E+02	5.66E+02	28	2.27E+02	6.81E+01	2.57E+02	9.51E+02
29	-	-	-	-	29	6.77E+02	6.77E+01	2.55E+02	2.84E+03
30	-	-	-	-	30	-	-	-	-
31	9.20E+01	1.53E+01	5.78E+01	3.86E+02	31	1.53E+02	2.55E+01	9.62E+01	6.41E+02
32	-	-	-	-	32	-	-	-	-
33	3.76E+02	6.26E+01	2.36E+02	1.58E+03	33	9.56E+02	1.59E+02	6.01E+02	4.01E+03
34	2.85E+02	1.58E+02	5.97E+02	1.19E+03	34	1.21E+03	6.72E+02	2.54E+03	5.07E+03
35	3.68E+02	3.19E+02	1.20E+03	1.54E+03	35	1.86E+03	1.61E+03	6.08E+03	7.79E+03
36	1.07E+02	1.07E+01	4.11E+01	4.57E+02	36	1.73E+02	1.73E+01	6.52E+01	7.25E+02
37	6.20E+01	7.50E+01	2.83E+02	2.60E+02	37	1.72E+02	2.08E+02	7.86E+02	7.21E+02
38	-	-	-	-	38	-	-	-	-
39	-	-	-	-	39	1.42E+02	1.58E+01	5.95E+01	5.95E+02
40	-	-	-	-	40	7.30E+01	3.24E+00	1.22E+01	3.06E+02
41	1.58E+02	5.79E+01	2.19E+02	6.62E+02	41	1.91E+02	7.00E+01	2.64E+02	8.00E+02
42	7.00E+01	7.54E+01	2.85E+02	2.93E+02	42	1.91E+02	2.06E+02	7.76E+02	8.00E+02
43	-	-	-	-	43	9.10E+01	1.82E+01	6.86E+01	3.81E+02
44	-	-	-	-	44	5.90E+01	1.90E+01	7.17E+01	2.47E+02
45	3.50E+01	1.01E+01	3.81E+01	1.47E+02	45	6.00E+01	1.73E+01	6.54E+01	2.51E+02
46	-	-	-	-	46	9.38E+02	2.88E+01	7.86E+01	3.93E+03
47	-	-	-	-	47	2.78E+02	6.17E+00	2.33E+01	1.16E+03
48	-	-	-	-	48	3.98E+02	3.98E+01	1.50E+02	1.67E+03
49	-	-	-	-	49	2.30E+02	2.55E+01	9.64E+01	9.64E+02
50	-	-	-	-	50	3.15E+02	1.01E+02	3.83E+02	1.32E+03
51	1.31E+02	1.27E+02	4.78E+02	5.49E+02	51	1.41E+02	1.36E+02	5.14E+02	5.91E+02
52	-	-	-	-	52	2.04E+02	6.31E+00	2.38E+01	1.19E+03
53	-	-	-	-	53	4.10E+02	2.73E+01	1.03E+02	1.72E+03
54	7.30E+01	2.59E+01	9.79E+01	3.06E+02	54	1.97E+02	7.00E+01	2.64E+02	8.26E+02

VTS					SS				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
55	-	-	-	-	55	1.70E+01	2.45E+00	9.26E+00	7.12E+01
56	-	-	-	-	56	2.70E+01	1.80E+00	6.79E+00	1.13E+02
57	-	-	-	-	57	1.05E+02	1.17E+01	4.40E+01	4.40E+02
58	-	-	-	-	58	6.10E+01	4.06E+00	1.53E+01	2.56E+02
59	-	-	-	-	59	1.91E+02	2.12E+01	8.00E+01	8.00E+02
60	1.17E+02	3.38E+01	1.27E+02	4.90E+02	60	2.78E+02	8.03E+01	3.03E+02	1.16E+03
61	-	-	-	-	61	1.70E+02	8.12E+01	3.06E+02	7.12E+02
62	1.23E+02	7.38E+01	2.78E+02	5.15E+02	62	7.80E+01	4.68E+01	1.77E+02	3.27E+02
63	2.02E+02	1.12E+01	4.23E+01	8.47E+02	63	8.00E+01	4.44E+00	1.68E+01	3.35E+02
64	8.50E+01	3.59E+01	1.35E+02	3.56E+02	64	1.23E+02	5.19E+01	1.96E+02	5.15E+02
65	-	-	-	-	65	9.40E+01	3.13E+00	1.18E+01	3.94E+02
66	-	-	-	-	66	1.02E+02	2.27E+00	8.55E+00	4.27E+02
67	7.98E+01	2.46E+01	9.27E+01	3.31E+02	67	2.14E+02	6.65E+01	2.51E+02	8.97E+02
68	6.90E+01	3.07E+00	1.16E+01	2.87E+02	68	1.05E+02	4.66E+00	1.76E+01	4.40E+02
69	1.56E+02	6.06E+01	2.29E+02	6.54E+02	69	1.36E+02	5.29E+01	1.99E+02	5.70E+02
70	5.70E+01	1.58E+01	5.97E+01	2.39E+02	70	1.25E+02	3.47E+01	1.31E+02	5.24E+02
71	6.80E+01	1.21E+01	4.56E+01	2.85E+02	71	7.20E+01	1.28E+01	4.83E+01	3.02E+02
72	5.70E+01	1.90E+01	7.17E+01	2.37E+02	72	7.20E+01	2.40E+01	9.05E+01	3.02E+02
73	6.30E+01	1.26E+01	4.75E+01	2.64E+02	73	4.60E+01	9.20E+00	3.47E+01	1.93E+02
74	5.40E+01	7.56E+01	2.85E+02	2.26E+02	74	2.35E+02	3.29E+02	1.24E+03	9.85E+02
75	-	-	-	-	75	1.04E+02	5.77E+00	2.18E+01	4.36E+02
76	-	-	-	-	76	1.73E+02	3.84E+00	1.45E+01	7.25E+02
77	1.40E+02	1.87E+01	7.04E+01	5.87E+02	77	1.60E+02	2.13E+01	8.05E+01	6.71E+02
78	-	-	-	-	78	6.00E+01	7.34E+00	2.77E+01	2.51E+02
79	-	-	-	-	79	8.00E+01	2.67E+00	1.01E+01	3.35E+02
80	1.00E+01	9.00E+00	3.39E+01	4.19E+01	80	4.70E+01	4.23E+01	1.60E+02	1.97E+02
81	-	-	-	-	81	7.50E+01	8.33E-01	3.14E+00	3.14E+02
82	-	-	-	-	82	5.10E+01	2.27E+00	8.55E+00	2.14E+02
83	-	-	-	-	83	2.70E+01	6.00E-01	2.26E+00	1.13E+02
84	-	-	-	-	84	2.60E+01	5.77E-01	2.18E+00	1.09E+02
85	-	-	-	-	85	1.15E+02	3.83E+00	1.45E+01	4.82E+02
86	-	-	-	-	86	6.70E+01	1.49E+00	5.62E+00	2.81E+02
87	8.80E+01	4.30E+01	1.62E+02	3.69E+02	87	9.10E+01	4.45E+01	1.68E+02	3.81E+02
88	2.20E+01	4.89E+00	1.84E+01	9.22E+01	88	5.90E+01	1.31E+01	4.94E+01	2.47E+02
89	-	-	-	-	89	3.35E+02	1.12E+01	4.21E+01	1.40E+03
90	1.82E+02	3.03E+01	1.14E+02	7.63E+02	90	2.25E+02	3.75E+01	1.41E+02	9.43E+02
91	1.45E+02	3.70E+01	1.40E+02	6.08E+02	91	9.70E+01	2.48E+01	9.35E+01	4.06E+02
92	1.40E+02	6.22E+00	2.35E+01	5.87E+02	92	4.00E+01	1.78E+00	6.71E+00	1.68E+02
93	1.40E+02	6.69E+01	2.52E+02	5.87E+02	93	1.45E+02	6.92E+01	2.61E+02	6.08E+02
94	-	-	-	-	94	1.34E+02	3.42E+01	1.29E+02	5.62E+02
95	1.04E+02	1.85E+01	6.97E+01	4.36E+02	95	8.30E+01	1.47E+01	5.57E+01	3.48E+02
96	4.10E+01	3.37E+01	1.27E+02	1.72E+02	96	1.40E+02	1.15E+02	4.34E+02	5.87E+02
97	-	-	-	-	97	1.95E+02	4.11E+01	1.55E+02	8.17E+02
98	-	-	-	-	98	6.90E+01	4.60E+01	1.73E+02	2.89E+02
99	-	-	-	-	99	3.71E+02	1.65E+01	6.22E+01	1.55E+03
100	-	-	-	-	100	3.85E+02	4.40E+01	1.66E+02	1.28E+03
101	-	-	-	-	101	1.23E+02	1.78E+01	6.70E+01	5.15E+02
102	-	-	-	-	102	2.52E+02	1.96E+01	7.39E+01	1.06E+03
103	-	-	-	-	103	1.96E+02	2.18E+00	8.21E+00	8.21E+00
104	-	-	-	-	104	2.67E+02	1.48E+01	5.59E+01	1.12E+03
105	-	-	-	-	105	1.53E+02	1.19E+01	4.49E+01	6.41E+02
106	4.03E+02	1.79E+01	6.76E+01	1.69E+03	106	2.86E+02	1.27E+01	4.79E+01	1.20E+03
107	5.10E+02	5.66E+01	2.14E+02	2.14E+03	107	9.47E+02	1.05E+02	3.97E+02	3.97E+03
108	-	-	-	-	108	1.83E+02	1.02E+01	3.83E+01	7.67E+02

VTS					SS				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
109	-	-	-	-	109	5.63E+02	6.25E+00	2.36E+01	2.36E+03
110	2.15E+02	2.63E+01	9.91E+01	9.01E+02	110	2.67E+02	3.29E+01	1.24E+02	1.13E+03
111	1.88E+02	4.80E+01	1.81E+02	7.88E+02	111	2.98E+02	7.61E+01	2.87E+02	1.25E+03
112	-	-	-	-	112	4.44E+02	2.96E+01	1.12E+02	1.86E+03
113	-	-	-	-	113	2.66E+02	5.91E+00	2.23E+01	1.11E+03
114	-	-	-	-	114	5.48E+02	6.09E+00	2.30E+01	2.30E+03
115	-	-	-	-	115	3.32E+02	1.11E+01	4.17E+01	1.39E+03
116	-	-	-	-	116	2.36E+02	5.24E+00	1.98E+01	9.89E+02
117	-	-	-	-	117	8.00E+02	1.95E+02	7.38E+02	3.35E+03
118	-	-	-	-	118	1.29E+02	1.58E+01	5.95E+01	5.41E+02
119	-	-	-	-	119	2.60E+01	5.77E-01	2.18E+00	1.09E+02
120	-	-	-	-	120	5.00E+01	1.11E+00	4.19E+00	2.10E+02
121	-	-	-	-	121	5.97E+02	8.62E+01	3.25E+02	2.50E+03
122	-	-	-	-	122	2.91E+02	1.29E+01	4.88E+01	1.22E+03
123	-	-	-	-	123	4.30E+02	4.30E+01	1.62E+02	1.80E+03
124	-	-	-	-	124	2.10E+02	2.10E+01	7.92E+01	8.80E+02
125	-	-	-	-	125	1.91E+02	2.12E+00	8.00E+00	8.00E+02
126	-	-	-	-	126	5.68E+02	3.15E+01	1.19E+02	2.30E+03
127	-	-	-	-	127	1.44E+02	3.36E+01	1.27E+02	6.03E+02
128	-	-	-	-	128	1.54E+02	3.42E+00	1.29E+01	6.45E+02
129	-	-	-	-	129	1.28E+02	6.82E+01	2.57E+02	5.36E+02
130	-	-	-	-	130	8.00E+01	2.75E+01	1.04E+02	3.35E+02
131	-	-	-	-	131	1.11E+02	2.34E+01	8.84E+01	4.65E+02
132	-	-	-	-	132	2.41E+02	1.87E+01	7.07E+01	1.01E+03
133	-	-	-	-	133	7.24E+02	2.17E+02	8.19E+02	3.03E+03
134	-	-	-	-	134	1.42E+02	3.15E+00	1.19E+01	5.95E+02
135	-	-	-	-	135	1.58E+02	8.77E+00	3.31E+01	6.62E+02
136	-	-	-	-	136	1.64E+02	1.46E+01	5.50E+01	6.87E+02
137	-	-	-	-	137	8.70E+01	2.22E+01	8.39E+01	3.65E+02
138	-	-	-	-	138	2.04E+02	2.04E+01	7.69E+01	8.55E+02
139	7.00E+01	1.87E+01	7.04E+01	2.93E+02	139	5.00E+02	1.55E+02	5.83E+02	2.43E+03

VSS					TOC				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	-	-	-	-	2	-	-	-	-
3	-	-	-	-	3	-	-	-	-
4	-	-	-	-	4	-	-	-	-
5	-	-	-	-	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	-	-	-	-	7	-	-	-	-
8	-	-	-	-	8	-	-	-	-
9	-	-	-	-	9	-	-	-	-
10	3.50E+01	5.83E+00	2.20E+01	1.47E+02	10	3.60E+01	6.00E+00	2.26E+01	1.51E+02
11	-	-	-	-	11	-	-	-	-
12	-	-	-	-	12	-	-	-	-
13	-	-	-	-	13	-	-	-	-
14	-	-	-	-	14	-	-	-	-
15	-	-	-	-	15	-	-	-	-
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	-	-	-	-	18	-	-	-	-
19	-	-	-	-	19	-	-	-	-
20	-	-	-	-	20	-	-	-	-
21	-	-	-	-	21	-	-	-	-
22	-	-	-	-	22	-	-	-	-
23	-	-	-	-	23	-	-	-	-
24	-	-	-	-	24	-	-	-	-
25	-	-	-	-	25	-	-	-	-
26	1.14E+02	7.09E+01	2.68E+02	4.78E+02	26	9.30E+01	5.78E+01	2.18E+02	3.90E+02
27	1.41E+02	2.04E+01	7.68E+01	5.91E+02	27	1.03E+02	1.49E+01	5.61E+01	4.32E+02
28	6.30E+01	1.89E+01	7.13E+01	2.64E+02	28	4.70E+01	1.41E+01	5.32E+01	1.97E+02
29	-	-	-	-	29	-	-	-	-
30	-	-	-	-	30	-	-	-	-
31	4.00E+01	6.66E+00	2.51E+01	1.68E+02	31	3.90E+01	6.50E+00	2.45E+01	1.63E+02
32	-	-	-	-	32	-	-	-	-
33	2.98E+02	4.96E+01	1.87E+02	1.25E+03	33	1.82E+02	3.03E+01	1.14E+02	7.63E+02
34	2.33E+02	1.29E+02	4.88E+02	9.76E+02	34	1.35E+02	7.50E+01	2.83E+02	5.66E+02
35	2.80E+02	2.43E+02	9.15E+02	1.17E+03	35	1.30E+02	1.13E+02	4.25E+02	5.45E+02
36	4.30E+01	4.30E+00	1.62E+01	1.80E+02	36	3.70E+01	3.70E+00	1.40E+01	1.55E+02
37	3.70E+01	4.48E+01	1.69E+02	1.55E+02	37	1.80E+01	2.18E+01	8.22E+01	7.54E+01
38	-	-	-	-	38	-	-	-	-
39	-	-	-	-	39	-	-	-	-
40	-	-	-	-	40	-	-	-	-
41	4.30E+01	1.58E+01	5.95E+01	1.80E+02	41	3.40E+01	1.25E+01	4.70E+01	1.42E+02
42	4.10E+01	4.42E+01	1.67E+02	1.72E+02	42	3.30E+01	3.55E+01	1.34E+02	1.38E+02
43	-	-	-	-	43	-	-	-	-
44	-	-	-	-	44	-	-	-	-
45	-	-	-	-	45	-	-	-	-
46	-	-	-	-	46	-	-	-	-
47	-	-	-	-	47	-	-	-	-
48	-	-	-	-	48	-	-	-	-
49	-	-	-	-	49	-	-	-	-
50	-	-	-	-	50	-	-	-	-
51	4.20E+01	4.06E+01	1.53E+02	1.76E+02	51	4.10E+01	3.96E+01	1.49E+02	1.72E+02
52	-	-	-	-	52	-	-	-	-
53	-	-	-	-	53	-	-	-	-
54	4.60E+01	1.63E+01	6.17E+01	1.93E+02	54	3.40E+01	1.21E+01	4.56E+01	1.42E+02

VSS					TOC				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
55	-	-	-	-	55	-	-	-	-
56	-	-	-	-	56	-	-	-	-
57	-	-	-	-	57	-	-	-	-
58	-	-	-	-	58	-	-	-	-
59	-	-	-	-	59	-	-	-	-
60	5.30E+01	1.53E+01	5.77E+01	2.22E+02	60	1.00E+01	5.20E+00	1.96E+01	7.54E+01
61	-	-	-	-	61	-	-	-	-
62	2.00E+01	1.20E+01	4.53E+01	8.38E+01	62	-	-	-	-
63	2.90E+01	1.61E+00	6.08E+00	1.22E+02	63	-	-	-	-
64	2.80E+01	1.18E+01	4.46E+01	1.17E+02	64	3.20E+01	1.35E+01	5.10E+01	1.34E+02
65	-	-	-	-	65	-	-	-	-
66	-	-	-	-	66	-	-	-	-
67	4.20E+01	1.31E+01	4.93E+01	1.76E+02	67	2.70E+01	8.40E+00	3.17E+01	1.13E+02
68	5.00E+01	2.22E+00	8.39E+00	2.10E+02	68	4.00E+01	2.13E+00	8.05E+00	2.01E+02
69	2.70E+01	1.05E+01	3.96E+01	1.13E+02	69	2.60E+01	1.01E+01	3.81E+01	1.09E+02
70	4.60E+01	1.28E+01	4.82E+01	1.93E+02	70	3.60E+01	9.99E+00	3.77E+01	1.51E+02
71	2.00E+01	3.55E+00	1.34E+01	8.38E+01	71	3.10E+01	5.51E+00	2.08E+01	1.30E+02
72	1.60E+01	5.33E+00	2.01E+01	6.71E+01	72	6.00E+00	2.00E+00	7.54E+00	2.51E+01
73	2.00E+01	4.00E+00	1.51E+01	8.38E+01	73	3.20E+01	6.40E+00	2.41E+01	1.34E+02
74	4.00E+01	5.60E+01	2.11E+02	1.60E+02	74	2.50E+01	3.50E+01	1.32E+02	1.05E+02
75	-	-	-	-	75	-	-	-	-
76	-	-	-	-	76	-	-	-	-
77	6.00E+01	8.00E+00	3.02E+01	2.51E+02	77	2.20E+01	2.93E+00	1.11E+01	9.22E+01
78	-	-	-	-	78	-	-	-	-
79	-	-	-	-	79	-	-	-	-
80	2.20E+01	1.98E+01	7.47E+01	9.22E+01	80	3.00E+00	2.70E+00	1.02E+01	1.26E+01
81	-	-	-	-	81	-	-	-	-
82	-	-	-	-	82	-	-	-	-
83	-	-	-	-	83	-	-	-	-
84	-	-	-	-	84	-	-	-	-
85	-	-	-	-	85	-	-	-	-
86	-	-	-	-	86	-	-	-	-
87	2.50E+01	1.22E+01	4.61E+01	1.05E+02	87	2.10E+01	1.03E+01	3.87E+01	8.80E+01
88	1.50E+01	3.33E+00	1.26E+01	6.29E+01	88	1.20E+01	2.67E+00	1.01E+01	5.03E+01
89	-	-	-	-	89	-	-	-	-
90	9.30E+01	1.55E+01	5.85E+01	3.90E+02	90	8.20E+01	1.37E+01	5.15E+01	3.44E+02
91	4.00E+01	1.02E+01	3.86E+01	1.68E+02	91	7.00E+00	1.79E+00	6.75E+00	2.93E+01
92	3.20E+01	1.42E+00	5.36E+00	1.34E+02	92	1.60E+01	7.11E-01	2.68E+00	6.71E+01
93	4.60E+01	2.20E+01	8.29E+01	1.93E+02	93	3.50E+01	1.67E+01	6.31E+01	1.47E+02
94	-	-	-	-	94	-	-	-	-
95	2.60E+01	4.62E+00	1.74E+01	1.09E+02	95	1.20E+01	2.13E+00	8.05E+00	5.03E+01
96	3.10E+01	2.55E+01	9.61E+01	1.30E+02	96	6.00E+00	4.93E+00	1.86E+01	2.51E+01
97	-	-	-	-	97	-	-	-	-
98	-	-	-	-	98	-	-	-	-
99	-	-	-	-	99	-	-	-	-
100	-	-	-	-	100	-	-	-	-
101	-	-	-	-	101	-	-	-	-
102	-	-	-	-	102	-	-	-	-
103	-	-	-	-	103	-	-	-	-
104	-	-	-	-	104	-	-	-	-
105	-	-	-	-	105	-	-	-	-
106	1.00E+02	4.44E+00	1.68E+01	4.19E+02	106	-	-	-	-
107	3.17E+02	3.52E+01	1.33E+02	1.33E+03	107	-	-	-	-
108	-	-	-	-	108	-	-	-	-

VSS					TOC				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
109	-	-	-	-	109	-	-	-	-
110	1.03E+02	1.26E+01	4.75E+01	4.32E+02	110	-	-	-	-
111	9.70E+01	2.48E+01	9.35E+01	4.02E+02	111	-	-	-	-
112	-	-	-	-	112	-	-	-	-
113	-	-	-	-	113	-	-	-	-
114	-	-	-	-	114	-	-	-	-
115	-	-	-	-	115	-	-	-	-
116	-	-	-	-	116	-	-	-	-
117	-	-	-	-	117	-	-	-	-
118	-	-	-	-	118	-	-	-	-
119	-	-	-	-	119	-	-	-	-
120	-	-	-	-	120	-	-	-	-
121	-	-	-	-	121	-	-	-	-
122	-	-	-	-	122	-	-	-	-
123	-	-	-	-	123	-	-	-	-
124	-	-	-	-	124	-	-	-	-
125	-	-	-	-	125	-	-	-	-
126	-	-	-	-	126	-	-	-	-
127	-	-	-	-	127	-	-	-	-
128	-	-	-	-	128	-	-	-	-
129	-	-	-	-	129	-	-	-	-
130	-	-	-	-	130	-	-	-	-
131	-	-	-	-	131	-	-	-	-
132	-	-	-	-	132	-	-	-	-
133	-	-	-	-	133	-	-	-	-
134	-	-	-	-	134	-	-	-	-
135	-	-	-	-	135	-	-	-	-
136	-	-	-	-	136	-	-	-	-
137	-	-	-	-	137	-	-	-	-
138	-	-	-	-	138	-	-	-	-
139	1.09E+02	2.91E+01	1.10E+02	4.57E+02	139	6.30E+01	1.68E+01	6.34E+01	2.64E+02

COD					Pb				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	-	-	-	-	2	1.00E-01	8.33E-02	3.14E-01	4.19E-01
3	-	-	-	-	3	-	-	-	-
4	-	-	-	-	4	-	-	-	-
5	-	-	-	-	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	-	-	-	-	7	-	-	-	-
8	-	-	-	-	8	-	-	-	-
9	-	-	-	-	9	-	-	-	-
10	9.60E+01	1.60E+01	6.03E+01	4.02E+02	10	6.00E-01	9.99E-02	3.77E-01	2.51E+00
11	-	-	-	-	11	-	-	-	-
12	-	-	-	-	12	-	-	-	-
13	-	-	-	-	13	-	-	-	-
14	-	-	-	-	14	-	-	-	-
15	-	-	-	-	15	-	-	-	-
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	-	-	-	-	18	-	-	-	-
19	-	-	-	-	19	-	-	-	-
20	-	-	-	-	20	-	-	-	-
21	-	-	-	-	21	-	-	-	-
22	-	-	-	-	22	-	-	-	-
23	-	-	-	-	23	-	-	-	-
24	-	-	-	-	24	-	-	-	-
25	-	-	-	-	25	-	-	-	-
26	2.60E+02	1.62E+02	6.10E+02	1.09E+03	26	2.70E+00	1.68E+00	6.34E+00	1.13E+01
27	3.60E+02	5.20E+01	1.96E+02	1.51E+03	27	2.70E+00	3.90E-01	1.47E+00	1.13E+01
28	1.55E+02	4.65E+01	1.75E+02	6.50E+02	28	1.30E+00	3.90E-01	1.47E+00	5.45E+00
29	-	-	-	-	29	3.70E+00	3.70E-01	1.40E+00	1.55E+01
30	-	-	-	-	30	-	-	-	-
31	1.26E+02	2.10E+01	7.92E+01	5.28E+02	31	9.00E-01	1.50E-01	5.66E-01	3.77E+00
32	-	-	-	-	32	-	-	-	-
33	6.60E+02	1.10E+02	4.15E+02	2.77E+03	33	5.70E+00	9.49E-01	3.58E+00	2.39E+01
34	5.00E+02	2.78E+02	1.05E+03	2.10E+03	34	5.10E+00	2.83E+00	1.07E+01	2.14E+01
35	5.90E+02	5.11E+02	1.93E+03	2.47E+03	35	6.20E+00	5.37E+00	2.03E+01	2.60E+01
36	1.30E+02	1.30E+01	4.90E+01	5.45E+02	36	8.50E-01	8.50E-02	3.21E-01	3.56E+00
37	7.50E+01	9.08E+01	3.43E+02	3.14E+02	37	7.00E-01	8.47E-01	3.20E+00	2.93E+00
38	-	-	-	-	38	-	-	-	-
39	-	-	-	-	39	-	-	-	-
40	-	-	-	-	40	-	-	-	-
41	1.20E+02	4.40E+01	1.66E+02	5.03E+02	41	8.00E-01	2.93E-01	1.11E+00	3.35E+00
42	9.50E+01	1.02E+02	3.86E+02	3.98E+02	42	7.00E-01	7.54E-01	2.85E+00	2.93E+00
43	-	-	-	-	43	-	-	-	-
44	-	-	-	-	44	-	-	-	-
45	-	-	-	-	45	-	-	-	-
46	-	-	-	-	46	-	-	-	-
47	-	-	-	-	47	-	-	-	-
48	-	-	-	-	48	-	-	-	-
49	-	-	-	-	49	-	-	-	-
50	-	-	-	-	50	-	-	-	-
51	1.00E+02	9.66E+01	3.65E+02	4.19E+02	51	6.00E-01	5.80E-01	2.19E+00	2.51E+00
52	-	-	-	-	52	-	-	-	-
53	-	-	-	-	53	-	-	-	-
54	9.10E+01	3.23E+01	1.22E+02	3.81E+02	54	8.50E-01	3.02E-01	1.14E+00	3.56E+00

COD					Pb				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
55	-	-	-	-	55	-	-	-	-
56	-	-	-	-	56	-	-	-	-
57	-	-	-	-	57	-	-	-	-
58	-	-	-	-	58	-	-	-	-
59	-	-	-	-	59	-	-	-	-
60	1.13E+02	3.26E+01	1.23E+02	4.74E+02	60	1.30E+00	3.75E-01	1.42E+00	5.45E+00
61	-	-	-	-	61	-	-	-	-
62	-	-	-	-	62	4.00E-01	2.40E-01	9.05E-01	1.68E+00
63	-	-	-	-	63	4.00E-01	2.22E-02	8.38E-02	1.68E+00
64	6.80E+01	2.87E+01	1.08E+02	2.85E+02	64	3.50E-01	1.48E-01	5.57E-01	1.47E+00
65	-	-	-	-	65	-	-	-	-
66	-	-	-	-	66	-	-	-	-
67	8.60E+01	2.67E+01	1.01E+02	3.60E+02	67	1.20E+00	3.73E-01	1.41E+00	5.03E+00
68	1.05E+02	4.66E+00	1.76E+01	4.40E+02	68	5.00E-01	2.22E-02	8.38E-02	2.10E+00
69	9.40E+01	3.65E+01	1.38E+02	3.94E+02	69	6.00E-01	2.33E-01	8.80E-01	2.51E+00
70	1.26E+02	3.50E+01	1.32E+02	5.28E+02	70	6.00E-01	1.67E-01	6.29E-01	2.51E+00
71	8.60E+01	1.53E+01	5.77E+01	3.60E+02	71	5.00E-01	8.88E-02	3.35E-01	2.10E+00
72	5.50E+01	1.83E+01	6.91E+01	2.30E+02	72	6.00E-01	2.00E-01	7.54E-01	2.51E+00
73	1.07E+02	2.14E+01	8.07E+01	4.48E+02	73	3.00E-01	6.00E-02	2.26E-01	1.26E+00
74	6.30E+01	8.82E+01	3.33E+02	2.64E+02	74	7.00E-01	9.79E-01	3.70E+00	2.93E+00
75	-	-	-	-	75	-	-	-	-
76	-	-	-	-	76	-	-	-	-
77	1.25E+02	1.67E+01	6.29E+01	5.24E+02	77	6.00E-01	8.00E-02	3.02E-01	2.51E+00
78	-	-	-	-	78	-	-	-	-
79	-	-	-	-	79	-	-	-	-
80	4.60E+01	4.14E+01	1.56E+02	1.93E+02	80	2.00E-01	1.80E-01	6.79E-01	8.38E-01
81	-	-	-	-	81	-	-	-	-
82	-	-	-	-	82	-	-	-	-
83	-	-	-	-	83	-	-	-	-
84	-	-	-	-	84	-	-	-	-
85	-	-	-	-	85	-	-	-	-
86	-	-	-	-	86	-	-	-	-
87	7.90E+01	3.86E+01	1.46E+02	3.31E+02	87	5.00E-01	2.44E-01	9.22E-01	2.10E+00
88	6.00E+01	1.33E+01	5.03E+01	2.51E+02	88	4.00E-01	8.08E-02	3.35E-01	1.68E+00
89	-	-	-	-	89	-	-	-	-
90	3.06E+02	5.18E+01	1.92E+02	1.28E+03	90	1.50E+00	2.50E-01	9.43E-01	6.29E+00
91	8.90E+01	2.27E+01	8.58E+01	3.73E+02	91	7.00E-01	1.79E-01	6.75E-01	2.93E+00
92	8.40E+01	3.73E+00	1.41E+01	3.52E+02	92	5.00E-01	2.22E-02	8.38E-02	2.10E+00
93	1.67E+02	7.97E+01	3.01E+02	7.00E+02	93	1.00E+00	4.78E-01	1.80E+00	4.19E+00
94	-	-	-	-	94	-	-	-	-
95	9.40E+01	1.67E+01	6.30E+01	3.94E+02	95	1.00E-01	1.78E-02	6.71E-02	4.19E-01
96	6.10E+01	5.01E+01	1.89E+02	2.56E+02	96	6.00E-01	4.93E-01	1.86E+00	2.51E+00
97	-	-	-	-	97	-	-	-	-
98	-	-	-	-	98	-	-	-	-
99	-	-	-	-	99	-	-	-	-
100	-	-	-	-	100	-	-	-	-
101	-	-	-	-	101	-	-	-	-
102	-	-	-	-	102	-	-	-	-
103	-	-	-	-	103	-	-	-	-
104	-	-	-	-	104	-	-	-	-
105	-	-	-	-	105	-	-	-	-
106	-	-	-	-	106	2.30E+00	1.02E-01	3.86E-01	9.64E+00
107	-	-	-	-	107	6.30E+00	7.00E-01	2.64E+00	2.64E+01
108	-	-	-	-	108	-	-	-	-

COD					Pb				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
109	-	-	-	-	109	-	-	-	-
110	-	-	-	-	110	1.80E+00	2.20E-01	8.30E-01	7.54E+00
111	-	-	-	-	111	1.50E+00	3.83E-01	1.45E+00	6.29E+00
112	-	-	-	-	112	-	-	-	-
113	-	-	-	-	113	-	-	-	-
114	-	-	-	-	114	-	-	-	-
115	-	-	-	-	115	-	-	-	-
116	-	-	-	-	116	-	-	-	-
117	-	-	-	-	117	4.70E+00	1.15E+00	4.33E+00	1.97E+01
118	-	-	-	-	118	-	-	-	-
119	-	-	-	-	119	-	-	-	-
120	-	-	-	-	120	4.00E-01	8.88E-03	3.35E-02	1.68E+00
121	-	-	-	-	121	-	-	-	-
122	-	-	-	-	122	-	-	-	-
123	-	-	-	-	123	-	-	-	-
124	-	-	-	-	124	-	-	-	-
125	-	-	-	-	125	-	-	-	-
126	-	-	-	-	126	-	-	-	-
127	-	-	-	-	127	-	-	-	-
128	-	-	-	-	128	-	-	-	-
129	-	-	-	-	129	-	-	-	-
130	-	-	-	-	130	-	-	-	-
131	-	-	-	-	131	-	-	-	-
132	-	-	-	-	132	-	-	-	-
133	-	-	-	-	133	-	-	-	-
134	-	-	-	-	134	-	-	-	-
135	-	-	-	-	135	-	-	-	-
136	-	-	-	-	136	-	-	-	-
137	-	-	-	-	137	-	-	-	-
138	-	-	-	-	138	-	-	-	-
139	1.88E+02	5.01E+01	1.89E+02	7.88E+02	139	2.20E+00	5.86E-01	2.21E+00	9.22E+00

Zn					Fe				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	1.10E-01	9.16E-02	3.46E-01	4.61E-01	2	2.00E+00	1.67E+00	6.29E+00	8.30E+00
3	-	-	-	-	3	-	-	-	-
4	-	-	-	-	4	-	-	-	-
5	-	-	-	-	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	-	-	-	-	7	-	-	-	-
8	-	-	-	-	8	-	-	-	-
9	-	-	-	-	9	-	-	-	-
10	3.70E-01	6.16E-02	2.33E-01	1.55E+00	10	3.90E+00	6.50E-01	2.45E+00	1.63E+01
11	-	-	-	-	11	-	-	-	-
12	-	-	-	-	12	-	-	-	-
13	-	-	-	-	13	-	-	-	-
14	-	-	-	-	14	-	-	-	-
15	-	-	-	-	15	-	-	-	-
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	-	-	-	-	18	-	-	-	-
19	-	-	-	-	19	-	-	-	-
20	-	-	-	-	20	-	-	-	-
21	-	-	-	-	21	-	-	-	-
22	-	-	-	-	22	-	-	-	-
23	-	-	-	-	23	-	-	-	-
24	-	-	-	-	24	-	-	-	-
25	-	-	-	-	25	-	-	-	-
26	8.80E-01	5.47E-01	2.07E+00	3.69E+00	26	1.50E+01	9.33E+00	3.52E+01	6.29E+01
27	1.10E+00	1.59E-01	5.99E-01	4.61E+00	27	1.60E+01	2.31E+00	8.72E+00	6.71E+01
28	4.60E-01	1.38E-01	5.20E-01	1.93E+00	28	6.80E+00	2.04E+00	7.69E+00	2.85E+01
29	1.10E+00	1.10E-01	4.15E-01	4.61E+00	29	2.00E+01	2.00E+00	7.54E+00	8.38E+01
30	-	-	-	-	30	-	-	-	-
31	3.90E-01	6.50E-02	2.45E-01	1.63E+00	31	5.80E+00	9.66E-01	3.65E+00	2.43E+01
32	-	-	-	-	32	-	-	-	-
33	2.90E+00	4.83E-01	1.82E+00	1.22E+01	33	3.90E+01	6.50E+00	2.45E+01	1.63E+02
34	2.10E+00	1.17E+00	4.40E+00	8.80E+00	34	3.30E+01	1.83E+01	6.91E+01	1.38E+02
35	2.30E+00	1.99E+00	7.52E+00	9.64E+00	35	4.60E+01	3.98E+01	1.50E+02	1.93E+02
36	4.40E-01	4.40E-02	1.66E-01	1.84E+00	36	7.40E+00	7.40E-01	2.79E+00	3.10E+01
37	3.80E-01	4.60E-01	1.74E+00	1.59E+00	37	5.50E+00	6.66E+00	2.51E+01	2.30E+01
38	-	-	-	-	38	-	-	-	-
39	-	-	-	-	39	-	-	-	-
40	-	-	-	-	40	-	-	-	-
41	3.60E-01	1.32E-01	4.98E-01	1.51E+00	41	6.10E+00	2.24E+00	8.44E+00	2.56E+01
42	2.90E-01	3.12E-01	1.18E+00	1.22E+00	42	5.70E+00	6.14E+00	2.32E+01	2.39E+01
43	-	-	-	-	43	-	-	-	-
44	-	-	-	-	44	-	-	-	-
45	-	-	-	-	45	-	-	-	-
46	-	-	-	-	46	-	-	-	-
47	-	-	-	-	47	-	-	-	-
48	-	-	-	-	48	-	-	-	-
49	-	-	-	-	49	-	-	-	-
50	-	-	-	-	50	-	-	-	-
51	3.20E-01	3.09E-01	1.17E+00	1.34E+00	51	4.40E+00	4.25E+00	1.60E+01	1.84E+01
52	-	-	-	-	52	-	-	-	-
53	-	-	-	-	53	-	-	-	-
54	5.30E-01	1.88E-01	7.11E-01	2.22E+00	54	6.70E+00	2.38E+00	8.98E+00	2.81E+01

Zn					Fe				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
55	-	-	-	-	55	-	-	-	-
56	-	-	-	-	56	-	-	-	-
57	-	-	-	-	57	-	-	-	-
58	-	-	-	-	58	-	-	-	-
59	-	-	-	-	59	-	-	-	-
60	7.10E-01	2.05E-01	7.74E-01	2.90E+00	60	1.19E+01	3.44E+00	1.30E+01	4.99E+01
61	-	-	-	-	61	-	-	-	-
62	2.60E-01	1.56E-01	5.88E-01	1.09E+00	62	3.30E+00	1.98E+00	7.47E+00	1.38E+01
63	4.30E-01	2.39E-02	9.01E-02	1.80E+00	63	2.70E+00	1.50E-01	5.66E-01	1.13E+01
64	2.80E-01	1.18E-01	4.46E-01	1.17E+00	64	3.40E+00	1.43E+00	5.41E+00	1.42E+01
65	-	-	-	-	65	-	-	-	-
66	-	-	-	-	66	-	-	-	-
67	4.90E-01	1.52E-01	5.75E-01	2.05E+00	67	7.50E+00	2.33E+00	8.80E+00	3.14E+01
68	4.20E-01	1.87E-02	7.04E-02	1.76E+00	68	3.50E+00	1.55E-01	5.87E-01	1.47E+01
69	4.80E-01	1.87E-01	7.04E-01	2.01E+00	69	5.30E+00	2.06E+00	7.77E+00	2.22E+01
70	3.50E-01	9.72E-02	3.67E-01	1.47E+00	70	4.80E+00	1.33E+00	5.03E+00	2.01E+01
71	3.50E-01	6.22E-02	2.35E-01	1.47E+00	71	3.00E+00	5.33E-01	2.01E+00	1.26E+01
72	2.50E-01	8.33E-02	3.14E-01	1.05E+00	72	2.60E+00	8.66E-01	3.27E+00	1.09E+01
73	2.70E-01	5.40E-02	2.04E-01	1.13E+00	73	2.27E+00	4.54E-01	1.71E+00	9.51E+00
74	3.60E-01	5.04E-01	1.90E+00	1.51E+00	74	5.40E+00	7.56E+00	2.85E+01	2.26E+01
75	-	-	-	-	75	-	-	-	-
76	-	-	-	-	76	-	-	-	-
77	3.40E-01	4.53E-02	1.71E-01	1.42E+00	77	5.60E+00	7.46E-01	2.82E+00	2.35E+01
78	-	-	-	-	78	-	-	-	-
79	-	-	-	-	79	-	-	-	-
80	2.80E-01	2.52E-01	9.50E-01	1.17E+00	80	2.20E+00	1.98E+00	7.47E+00	9.22E+00
81	-	-	-	-	81	-	-	-	-
82	-	-	-	-	82	-	-	-	-
83	-	-	-	-	83	-	-	-	-
84	-	-	-	-	84	-	-	-	-
85	-	-	-	-	85	-	-	-	-
86	-	-	-	-	86	-	-	-	-
87	2.80E-01	1.37E-01	5.16E-01	1.17E+00	87	3.40E+00	1.66E+00	6.27E+00	1.42E+01
88	2.40E-01	5.33E-02	2.01E-01	1.01E+00	88	1.70E+00	3.78E-01	1.42E+00	7.12E+00
89	-	-	-	-	89	-	-	-	-
90	6.30E-01	1.05E-01	3.96E-01	2.64E+00	90	8.60E+00	1.43E+00	5.41E+00	3.60E+01
91	4.30E-01	1.10E-01	4.14E-01	1.80E+00	91	4.80E+00	1.23E+00	4.63E+00	2.01E+01
92	3.90E-01	1.73E-02	6.54E-02	1.63E+00	92	2.40E+00	1.07E-01	4.02E-01	1.01E+01
93	5.40E-01	2.58E-01	9.73E-01	2.26E+00	93	7.60E+00	3.63E+00	1.37E+01	3.18E+01
94	-	-	-	-	94	-	-	-	-
95	3.60E-01	6.40E-02	2.41E-01	1.51E+00	95	3.40E+00	6.04E-01	2.28E+00	1.42E+01
96	2.10E-01	1.73E-01	6.51E-01	8.80E-01	96	4.00E+00	3.29E+00	1.24E+01	1.68E+01
97	-	-	-	-	97	-	-	-	-
98	-	-	-	-	98	-	-	-	-
99	-	-	-	-	99	-	-	-	-
100	-	-	-	-	100	-	-	-	-
101	-	-	-	-	101	-	-	-	-
102	-	-	-	-	102	-	-	-	-
103	-	-	-	-	103	-	-	-	-
104	-	-	-	-	104	-	-	-	-
105	-	-	-	-	105	-	-	-	-
106	1.40E+00	6.22E-02	2.35E-01	5.87E+00	106	9.50E+00	4.22E-01	1.59E+00	3.98E+01
107	2.53E+00	2.81E-01	1.06E+00	1.06E+01	107	2.50E+01	2.78E+00	1.05E+01	1.05E+02
108	-	-	-	-	108	-	-	-	-

Zn					Fe				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
109	-	-	-	-	109	-	-	-	-
110	7.30E-01	8.92E-02	3.37E-01	3.06E+00	110	1.10E+01	1.34E+00	5.07E+00	4.61E+01
111	7.40E-01	1.89E-01	7.13E-01	3.10E+00	111	1.10E+01	2.81E+00	1.06E+01	4.61E+01
112	-	-	-	-	112	-	-	-	-
113	-	-	-	-	113	-	-	-	-
114	-	-	-	-	114	-	-	-	-
115	-	-	-	-	115	-	-	-	-
116	-	-	-	-	116	-	-	-	-
117	2.50E+00	6.11E-01	2.30E+00	1.05E+01	117	3.00E+01	7.33E+00	2.77E+01	1.26E+02
118	-	-	-	-	118	-	-	-	-
119	-	-	-	-	119	-	-	-	-
120	6.30E-01	1.40E-02	5.28E-02	2.64E+00	120	1.30E+00	2.89E-02	1.09E-01	5.45E+00
121	-	-	-	-	121	-	-	-	-
122	-	-	-	-	122	-	-	-	-
123	-	-	-	-	123	-	-	-	-
124	-	-	-	-	124	-	-	-	-
125	-	-	-	-	125	-	-	-	-
126	-	-	-	-	126	-	-	-	-
127	-	-	-	-	127	-	-	-	-
128	-	-	-	-	128	-	-	-	-
129	-	-	-	-	129	-	-	-	-
130	-	-	-	-	130	-	-	-	-
131	-	-	-	-	131	-	-	-	-
132	-	-	-	-	132	-	-	-	-
133	-	-	-	-	133	-	-	-	-
134	-	-	-	-	134	-	-	-	-
135	-	-	-	-	135	-	-	-	-
136	-	-	-	-	136	-	-	-	-
137	-	-	-	-	137	-	-	-	-
138	-	-	-	-	138	-	-	-	-
139	7.70E-01	2.05E-01	7.74E-01	3.23E+00	139	1.30E+01	3.46E+00	1.31E+01	5.45E+01

Cr					Cu				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	-	-	-	-	2	-	-	-	-
3	-	-	-	-	3	-	-	-	-
4	-	-	-	-	4	-	-	-	-
5	-	-	-	-	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	-	-	-	-	7	-	-	-	-
8	-	-	-	-	8	-	-	-	-
9	-	-	-	-	9	-	-	-	-
10	5.00E-02	8.33E-03	3.14E-02	2.10E-01	10	3.70E-01	6.16E-02	2.34E-01	1.55E+00
11	-	-	-	-	11	-	-	-	-
12	-	-	-	-	12	-	-	-	-
13	-	-	-	-	13	-	-	-	-
14	-	-	-	-	14	-	-	-	-
15	-	-	-	-	15	-	-	-	-
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	-	-	-	-	18	-	-	-	-
19	-	-	-	-	19	-	-	-	-
20	-	-	-	-	20	-	-	-	-
21	-	-	-	-	21	-	-	-	-
22	-	-	-	-	22	-	-	-	-
23	-	-	-	-	23	-	-	-	-
24	-	-	-	-	24	-	-	-	-
25	-	-	-	-	25	-	-	-	-
26	9.00E-02	5.60E-02	2.11E-01	3.77E-01	26	2.20E-01	1.37E-01	5.16E-01	9.22E-01
27	5.00E-02	7.22E-03	2.72E-02	2.10E-01	27	2.70E-01	3.90E-02	1.47E-01	1.13E+00
28	3.00E-02	9.00E-03	3.39E-02	1.26E-01	28	1.40E-01	4.20E-02	1.58E-01	5.87E-01
29	2.00E-02	2.00E-03	7.54E-03	8.38E-02	29	9.00E-02	9.00E-03	3.39E-02	3.77E-01
30	-	-	-	-	30	-	-	-	-
31	3.00E-02	5.00E-03	1.89E-02	1.26E-01	31	1.30E-01	2.17E-02	8.17E-02	5.45E-01
32	-	-	-	-	32	-	-	-	-
33	1.80E-01	3.00E-02	1.13E-01	7.54E-01	33	5.20E-01	8.66E-02	3.27E-01	2.18E+00
34	1.30E-01	7.22E-02	2.72E-01	5.45E-01	34	4.30E-01	2.39E-01	9.01E-01	1.80E+00
35	1.70E-01	1.47E-01	5.56E-01	7.12E-01	35	5.90E-01	5.11E-01	1.93E+00	2.47E+00
36	3.00E-02	3.00E-03	1.13E-02	1.26E-01	36	1.40E-01	1.40E-02	5.20E-02	5.87E-01
37	2.00E-02	2.42E-02	9.14E-02	8.38E-02	37	2.30E-01	2.78E-01	1.05E+00	9.64E-01
38	-	-	-	-	38	-	-	-	-
39	-	-	-	-	39	-	-	-	-
40	-	-	-	-	40	-	-	-	-
41	ND	ND	ND	ND	41	1.40E-01	5.13E-02	1.94E-01	5.87E-01
42	ND	ND	ND	ND	42	1.20E-01	1.29E-01	4.88E-01	5.03E-01
43	-	-	-	-	43	-	-	-	-
44	-	-	-	-	44	-	-	-	-
45	-	-	-	-	45	-	-	-	-
46	-	-	-	-	46	-	-	-	-
47	-	-	-	-	47	-	-	-	-
48	-	-	-	-	48	-	-	-	-
49	-	-	-	-	49	-	-	-	-
50	-	-	-	-	50	-	-	-	-
51	ND	ND	ND	ND	51	1.40E-01	1.35E-01	5.10E-01	5.87E-01
52	-	-	-	-	52	-	-	-	-
53	-	-	-	-	53	-	-	-	-
54	ND	ND	ND	ND	54	1.60E-01	5.69E-02	2.15E-01	6.71E-01

Cr					Cu				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
55	-	-	-	-	55	-	-	-	-
56	-	-	-	-	56	-	-	-	-
57	-	-	-	-	57	-	-	-	-
58	-	-	-	-	58	-	-	-	-
59	-	-	-	-	59	-	-	-	-
60	3.00E-02	8.66E-03	3.27E-02	1.26E-01	60	1.50E-01	4.33E-02	1.63E-01	6.29E-01
61	-	-	-	-	61	-	-	-	-
62	ND	ND	ND	ND	62	1.10E-01	6.60E-02	2.49E-01	4.61E-01
63	ND	ND	ND	ND	63	1.90E-01	1.05E-02	3.98E-02	7.96E-01
64	ND	ND	ND	ND	64	8.00E-02	3.38E-02	1.27E-01	3.35E-01
65	-	-	-	-	65	-	-	-	-
66	-	-	-	-	66	-	-	-	-
67	ND	ND	ND	ND	67	1.50E-01	4.66E-02	1.76E-01	6.29E-01
68	ND	ND	ND	ND	68	1.80E-01	8.00E-03	3.02E-02	7.54E-01
69	ND	ND	ND	ND	69	7.00E-02	2.72E-02	1.03E-01	2.93E-01
70	2.00E-02	5.55E-03	2.10E-02	8.38E-02	70	8.00E-02	2.22E-02	8.38E-02	3.35E-01
71	2.00E-02	3.55E-03	1.34E-02	8.38E-02	71	1.50E-01	2.67E-02	1.01E-01	6.29E-01
72	1.00E-02	3.33E-03	1.26E-02	4.19E-02	72	1.50E-01	5.00E-02	1.89E-01	6.29E-01
73	ND	ND	ND	ND	73	9.00E-02	1.80E-02	6.79E-02	3.77E-01
74	2.00E-02	2.80E-02	1.06E-01	8.38E-02	74	1.30E-01	1.82E-01	6.86E-01	5.45E-01
75	-	-	-	-	75	-	-	-	-
76	-	-	-	-	76	-	-	-	-
77	ND	ND	ND	ND	77	1.40E-01	1.87E-02	7.04E-02	5.87E-01
78	-	-	-	-	78	-	-	-	-
79	-	-	-	-	79	-	-	-	-
80	ND	ND	ND	ND	80	1.30E-01	1.17E-01	4.41E-01	5.45E-01
81	-	-	-	-	81	-	-	-	-
82	-	-	-	-	82	-	-	-	-
83	-	-	-	-	83	-	-	-	-
84	-	-	-	-	84	-	-	-	-
85	-	-	-	-	85	-	-	-	-
86	-	-	-	-	86	-	-	-	-
87	ND	ND	ND	ND	87	7.00E-02	3.42E-02	1.29E-01	2.93E-01
88	ND	ND	ND	ND	88	1.00E-01	2.22E-02	8.38E-02	4.19E-01
89	-	-	-	-	89	-	-	-	-
90	3.00E-02	5.00E-03	1.89E-02	1.26E-01	90	1.70E-01	2.83E-02	1.07E-01	7.12E-01
91	6.00E-02	1.53E-02	5.78E-02	2.51E-01	91	1.40E-01	3.58E-02	1.35E-01	5.87E-01
92	4.00E-02	1.78E-03	6.71E-03	1.68E-01	92	1.30E-01	5.77E-03	2.18E-02	5.45E-01
93	6.00E-02	2.87E-02	1.08E-01	2.51E-01	93	2.10E-01	1.00E-01	3.78E-01	8.80E-01
94	-	-	-	-	94	-	-	-	-
95	1.00E-02	1.78E-03	6.71E-03	4.19E-02	95	1.70E-01	3.02E-02	1.14E-01	7.12E-01
96	4.00E-02	3.29E-02	1.24E-01	1.68E-01	96	5.00E-02	4.11E-02	1.55E-01	2.10E-01
97	-	-	-	-	97	-	-	-	-
98	-	-	-	-	98	-	-	-	-
99	-	-	-	-	99	-	-	-	-
100	-	-	-	-	100	-	-	-	-
101	-	-	-	-	101	-	-	-	-
102	-	-	-	-	102	-	-	-	-
103	-	-	-	-	103	-	-	-	-
104	-	-	-	-	104	-	-	-	-
105	-	-	-	-	105	-	-	-	-
106	6.00E-02	2.67E-03	1.01E-02	2.51E-01	106	4.20E-01	1.87E-02	7.04E-02	1.76E+00
107	2.00E-02	2.22E-03	8.38E-03	8.38E-02	107	3.00E-01	3.33E-02	1.26E-01	1.26E+00
108	-	-	-	-	108	-	-	-	-

Cr					Cu				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
109	-	-	-	-	109	-	-	-	-
110	5.00E-02	6.11E-03	2.30E-02	2.10E-01	110	2.20E-01	2.69E-02	1.01E-01	9.22E-01
111	5.00E-02	1.28E-02	4.82E-02	2.10E-01	111	1.80E-01	4.60E-02	1.73E-01	7.54E-01
112	-	-	-	-	112	-	-	-	-
113	-	-	-	-	113	-	-	-	-
114	-	-	-	-	114	-	-	-	-
115	-	-	-	-	115	-	-	-	-
116	-	-	-	-	116	-	-	-	-
117	-	-	-	-	117	-	-	-	-
118	-	-	-	-	118	-	-	-	-
119	-	-	-	-	119	-	-	-	-
120	ND	ND	ND	ND	120	1.00E-01	2.22E-03	8.38E-03	4.19E-01
121	-	-	-	-	121	-	-	-	-
122	-	-	-	-	122	-	-	-	-
123	-	-	-	-	123	-	-	-	-
124	-	-	-	-	124	-	-	-	-
125	-	-	-	-	125	-	-	-	-
126	-	-	-	-	126	-	-	-	-
127	-	-	-	-	127	-	-	-	-
128	-	-	-	-	128	-	-	-	-
129	-	-	-	-	129	-	-	-	-
130	-	-	-	-	130	-	-	-	-
131	-	-	-	-	131	-	-	-	-
132	-	-	-	-	132	-	-	-	-
133	-	-	-	-	133	-	-	-	-
134	-	-	-	-	134	-	-	-	-
135	-	-	-	-	135	-	-	-	-
136	-	-	-	-	136	-	-	-	-
137	-	-	-	-	137	-	-	-	-
138	-	-	-	-	138	-	-	-	-
139	7.00E-02	1.87E-02	7.04E-02	2.93E-01	139	2.80E-01	7.46E-02	2.82E-01	1.17E+00

Cd					Ni				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	-	-	-	-	2	-	-	-	-
3	-	-	-	-	3	-	-	-	-
4	-	-	-	-	4	-	-	-	-
5	-	-	-	-	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	-	-	-	-	7	-	-	-	-
8	-	-	-	-	8	-	-	-	-
9	-	-	-	-	9	-	-	-	-
10	ND	ND	ND	ND	10	-	-	-	-
11	-	-	-	-	11	-	-	-	-
12	-	-	-	-	12	-	-	-	-
13	-	-	-	-	13	-	-	-	-
14	-	-	-	-	14	-	-	-	-
15	-	-	-	-	15	-	-	-	-
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	-	-	-	-	18	-	-	-	-
19	-	-	-	-	19	-	-	-	-
20	-	-	-	-	20	-	-	-	-
21	-	-	-	-	21	-	-	-	-
22	-	-	-	-	22	-	-	-	-
23	-	-	-	-	23	-	-	-	-
24	-	-	-	-	24	-	-	-	-
25	-	-	-	-	25	-	-	-	-
26	ND	ND	ND	ND	26	ND	ND	ND	ND
27	1.00E-02	1.44E-03	5.45E-03	4.19E-02	27	2.00E-01	2.89E-02	1.09E-01	8.38E-01
28	3.00E-02	9.00E-03	3.39E-02	1.26E-01	28	2.00E-01	6.00E-02	2.26E-01	8.38E-01
29	2.00E-02	2.00E-03	7.54E-03	8.38E-02	29	1.00E-01	9.99E-03	3.77E-02	4.19E-01
30	-	-	-	-	30	-	-	-	-
31	2.00E-02	3.33E-03	1.26E-02	8.38E-02	31	2.00E-01	3.33E-02	1.26E-01	8.38E-01
32	-	-	-	-	32	-	-	-	-
33	2.00E-02	3.33E-03	1.26E-02	8.38E-02	33	4.00E-02	6.66E-03	2.51E-02	1.68E-01
34	3.00E-02	1.67E-02	6.29E-02	1.26E-01	34	2.00E-01	1.11E-01	4.19E-01	8.38E-01
35	3.00E-02	2.60E-02	9.81E-02	1.26E-01	35	4.00E-02	3.46E-02	1.31E-01	1.68E-01
36	ND	ND	ND	ND	36	ND	ND	ND	ND
37	ND	ND	ND	ND	37	-	-	-	-
38	-	-	-	-	38	-	-	-	-
39	-	-	-	-	39	-	-	-	-
40	-	-	-	-	40	-	-	-	-
41	2.00E-02	7.33E-03	2.77E-02	8.38E-02	41	ND	ND	ND	ND
42	2.00E-02	2.15E-02	8.13E-02	8.38E-02	42	ND	ND	ND	ND
43	-	-	-	-	43	-	-	-	-
44	-	-	-	-	44	-	-	-	-
45	-	-	-	-	45	-	-	-	-
46	-	-	-	-	46	-	-	-	-
47	-	-	-	-	47	-	-	-	-
48	-	-	-	-	48	-	-	-	-
49	-	-	-	-	49	-	-	-	-
50	-	-	-	-	50	-	-	-	-
51	ND	ND	ND	ND	51	ND	ND	ND	ND
52	-	-	-	-	52	-	-	-	-
53	-	-	-	-	53	-	-	-	-
54	4.00E-02	1.42E-02	5.36E-02	1.68E-01	54	1.20E-01	4.26E-02	1.61E-01	5.03E-01

Cd					Ni				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
55	-	-	-	-	55	-	-	-	-
56	-	-	-	-	56	-	-	-	-
57	-	-	-	-	57	-	-	-	-
58	-	-	-	-	58	-	-	-	-
59	-	-	-	-	59	-	-	-	-
60	1.00E-02	2.89E-03	1.09E-02	4.19E-02	60	1.00E-02	2.89E-03	1.09E-02	4.19E-02
61	-	-	-	-	61	-	-	-	-
62	ND	ND	ND	ND	62	ND	ND	ND	ND
63	ND	ND	ND	ND	63	ND	ND	ND	ND
64	ND	ND	ND	ND	64	ND	ND	ND	ND
65	-	-	-	-	65	-	-	-	-
66	-	-	-	-	66	-	-	-	-
67	2.00E-02	6.22E-03	2.35E-02	8.38E-02	67	ND	ND	ND	ND
68	2.00E-02	8.88E-04	3.35E-03	8.38E-02	68	ND	ND	ND	ND
69	ND	ND	ND	ND	69	1.50E-01	5.83E-02	2.20E-01	6.29E-01
70	ND	ND	ND	ND	70	1.00E-01	2.78E-02	1.05E-01	4.19E-01
71	ND	ND	ND	ND	71	5.00E-02	8.88E-03	3.35E-02	2.10E-01
72	3.00E-02	9.99E-03	3.77E-02	1.26E-01	72	8.00E-02	2.67E-02	1.01E-01	3.35E-01
73	ND	ND	ND	ND	73	1.70E-01	3.40E-02	1.28E-01	7.12E-01
74	ND	ND	ND	ND	74	ND	ND	ND	ND
75	-	-	-	-	75	-	-	-	-
76	-	-	-	-	76	-	-	-	-
77	ND	ND	ND	ND	77	ND	ND	ND	ND
78	-	-	-	-	78	-	-	-	-
79	-	-	-	-	79	-	-	-	-
80	ND	ND	ND	ND	80	1.20E-01	1.08E-01	4.07E-01	5.03E-01
81	-	-	-	-	81	-	-	-	-
82	-	-	-	-	82	-	-	-	-
83	-	-	-	-	83	-	-	-	-
84	-	-	-	-	84	-	-	-	-
85	-	-	-	-	85	-	-	-	-
86	-	-	-	-	86	-	-	-	-
87	ND	ND	ND	ND	87	ND	ND	ND	ND
88	ND	ND	ND	ND	88	2.00E-01	4.44E-02	1.68E-01	8.38E-01
89	-	-	-	-	89	-	-	-	-
90	3.00E-02	5.00E-03	1.89E-02	1.26E-01	90	2.00E-01	3.33E-02	1.26E-01	8.38E-01
91	2.00E-02	5.11E-03	1.93E-02	8.38E-02	91	ND	ND	ND	ND
92	3.00E-02	1.33E-03	5.03E-03	1.26E-01	92	ND	ND	ND	ND
93	4.00E-02	1.91E-02	7.21E-02	1.68E-01	93	2.20E-01	1.05E-01	3.96E-01	9.22E-01
94	-	-	-	-	94	-	-	-	-
95	ND	ND	ND	ND	95	ND	ND	ND	ND
96	ND	ND	ND	ND	96	ND	ND	ND	ND
97	-	-	-	-	97	-	-	-	-
98	-	-	-	-	98	-	-	-	-
99	-	-	-	-	99	-	-	-	-
100	-	-	-	-	100	-	-	-	-
101	-	-	-	-	101	-	-	-	-
102	-	-	-	-	102	-	-	-	-
103	-	-	-	-	103	-	-	-	-
104	-	-	-	-	104	-	-	-	-
105	-	-	-	-	105	-	-	-	-
106	6.00E-02	2.67E-03	1.01E-02	2.51E-01	106	3.00E-02	1.33E-03	5.03E-03	1.26E-01
107	ND	ND	ND	ND	107	3.00E-02	3.33E-03	1.26E-02	1.26E-01
108	-	-	-	-	108	-	-	-	-

Cd					Ni				
EVENT	ng/l	lb	lb/mi	lb/mi/in	EVENT	ng/l	lb	lb/mi	lb/mi/in
109	-	-	-	-	109	-	-	-	-
110	3.00E-02	3.66E-03	1.38E-02	1.26E-01	110	2.00E-01	2.44E-02	9.22E-02	8.38E-01
111	4.00E-02	1.02E-02	3.86E-02	1.68E-01	111	1.00E-01	2.55E-02	9.64E-02	4.19E-01
112	-	-	-	-	112	-	-	-	-
113	-	-	-	-	113	-	-	-	-
114	-	-	-	-	114	-	-	-	-
115	-	-	-	-	115	-	-	-	-
116	-	-	-	-	116	-	-	-	-
117	-	-	-	-	117	-	-	-	-
118	-	-	-	-	118	-	-	-	-
119	-	-	-	-	119	-	-	-	-
120	3.00E-02	6.66E-04	2.51E-03	1.26E-01	120	1.00E-01	2.22E-03	8.38E-03	4.19E-01
121	-	-	-	-	121	-	-	-	-
122	-	-	-	-	122	-	-	-	-
123	-	-	-	-	123	-	-	-	-
124	-	-	-	-	124	-	-	-	-
125	-	-	-	-	125	-	-	-	-
126	-	-	-	-	126	-	-	-	-
127	-	-	-	-	127	-	-	-	-
128	-	-	-	-	128	-	-	-	-
129	-	-	-	-	129	-	-	-	-
130	-	-	-	-	130	-	-	-	-
131	-	-	-	-	131	-	-	-	-
132	-	-	-	-	132	-	-	-	-
133	-	-	-	-	133	-	-	-	-
134	-	-	-	-	134	-	-	-	-
135	-	-	-	-	135	-	-	-	-
136	-	-	-	-	136	-	-	-	-
137	-	-	-	-	137	-	-	-	-
138	-	-	-	-	138	-	-	-	-
139	3.00E-02	8.00E-03	3.02E-02	1.26E-01	139	1.00E-01	2.67E-02	1.01E-01	4.19E-01

Hg					P04-P				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	-	-	-	-	2	-	-	-	-
3	-	-	-	-	3	-	-	-	-
4	-	-	-	-	4	-	-	-	-
5	-	-	-	-	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	-	-	-	-	7	-	-	-	-
8	-	-	-	-	8	-	-	-	-
9	-	-	-	-	9	-	-	-	-
10	8.50E-04	1.42E-04	5.34E-04	3.56E-03	10	1.80E-01	3.00E-02	1.13E-01	7.54E-01
11	-	-	-	-	11	-	-	-	-
12	-	-	-	-	12	-	-	-	-
13	-	-	-	-	13	-	-	-	-
14	-	-	-	-	14	-	-	-	-
15	-	-	-	-	15	-	-	-	-
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	-	-	-	-	18	-	-	-	-
19	-	-	-	-	19	-	-	-	-
20	-	-	-	-	20	-	-	-	-
21	-	-	-	-	21	-	-	-	-
22	-	-	-	-	22	-	-	-	-
23	-	-	-	-	23	-	-	-	-
24	-	-	-	-	24	-	-	-	-
25	-	-	-	-	25	-	-	-	-
26	ND	ND	ND	ND	26	2.90E-01	1.80E-01	6.81E-01	1.22E+00
27	ND	ND	ND	ND	27	5.00E-01	7.22E-02	2.72E-01	2.10E+00
28	ND	ND	ND	ND	28	2.50E-01	7.50E-02	2.83E-01	1.05E+00
29	-	-	-	-	29	-	-	-	-
30	-	-	-	-	30	-	-	-	-
31	ND	ND	ND	ND	31	2.40E-01	4.00E-02	1.51E-01	1.01E+00
32	-	-	-	-	32	-	-	-	-
33	ND	ND	ND	ND	33	9.20E-01	1.53E-01	5.78E-01	3.86E+00
34	ND	ND	ND	ND	34	7.80E-01	4.33E-01	1.63E+00	3.27E+00
35	ND	ND	ND	ND	35	1.12E+00	9.70E-01	3.66E+00	4.69E+00
36	ND	ND	ND	ND	36	3.90E-01	3.90E-02	1.47E-01	1.63E+00
37	2.50E-04	3.03E-04	1.14E-03	1.05E-03	37	2.40E-01	2.91E-01	1.10E+00	1.81E+00
38	-	-	-	-	38	-	-	-	-
39	-	-	-	-	39	-	-	-	-
40	-	-	-	-	40	-	-	-	-
41	ND	ND	ND	ND	41	5.80E-01	2.13E-01	8.02E-01	2.43E+00
42	ND	ND	ND	ND	42	3.00E-01	3.23E-01	1.22E+00	1.26E+00
43	-	-	-	-	43	-	-	-	-
44	-	-	-	-	44	-	-	-	-
45	-	-	-	-	45	-	-	-	-
46	-	-	-	-	46	-	-	-	-
47	-	-	-	-	47	-	-	-	-
48	-	-	-	-	48	-	-	-	-
49	-	-	-	-	49	-	-	-	-
50	-	-	-	-	50	-	-	-	-
51	ND	ND	ND	ND	51	2.90E-01	2.80E-01	1.06E+00	1.22E+00
52	-	-	-	-	52	-	-	-	-
53	-	-	-	-	53	-	-	-	-
54	-	-	-	-	54	2.90E-01	1.03E-01	3.89E-01	1.22E+00

Hg					P04-P				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
55	-	-	-	-	55	-	-	-	-
56	-	-	-	-	56	-	-	-	-
57	-	-	-	-	57	-	-	-	-
58	-	-	-	-	58	-	-	-	-
59	-	-	-	-	59	-	-	-	-
60	-	-	-	-	60	-	-	-	-
61	-	-	-	-	61	-	-	-	-
62	-	-	-	-	62	-	-	-	-
63	-	-	-	-	63	-	-	-	-
64	-	-	-	-	64	2.60E-01	1.10E-01	4.14E-01	1.09E+00
65	-	-	-	-	65	-	-	-	-
66	-	-	-	-	66	-	-	-	-
67	-	-	-	-	67	3.70E-01	1.15E-01	4.34E-01	1.55E+00
68	-	-	-	-	68	4.30E-01	1.91E-02	7.21E-02	1.80E+00
69	ND	ND	ND	ND	69	2.90E-01	1.13E-01	4.25E-01	1.22E+00
70	ND	ND	ND	ND	70	2.80E-01	7.77E-02	2.94E-01	1.17E+00
71	-	-	-	-	71	2.40E-01	4.26E-02	1.61E-01	1.01E+00
72	-	-	-	-	72	1.40E-01	4.66E-02	1.76E-01	5.87E-01
73	-	-	-	-	73	3.50E-01	7.00E-02	2.64E-01	1.47E+00
74	ND	ND	ND	ND	74	5.80E-01	8.12E-01	3.06E+00	2.43E+00
75	-	-	-	-	75	-	-	-	-
76	-	-	-	-	76	-	-	-	-
77	-	-	-	-	77	2.20E-01	2.93E-02	1.11E-01	9.22E-01
78	-	-	-	-	78	-	-	-	-
79	-	-	-	-	79	-	-	-	-
80	-	-	-	-	80	1.20E-01	1.08E-01	4.07E-01	5.03E-01
81	-	-	-	-	81	-	-	-	-
82	-	-	-	-	82	-	-	-	-
83	-	-	-	-	83	-	-	-	-
84	-	-	-	-	84	-	-	-	-
85	-	-	-	-	85	-	-	-	-
86	-	-	-	-	86	-	-	-	-
87	3.00E-06	1.47E-06	5.53E-06	1.26E-05	87	3.10E-01	1.51E-01	5.72E-01	1.30E+00
88	-	-	-	-	88	4.00E-01	8.88E-02	3.35E-01	1.68E+00
89	-	-	-	-	89	-	-	-	-
90	-	-	-	-	90	7.30E-01	1.22E-01	4.59E-01	3.06E+00
91	-	-	-	-	91	2.00E-01	5.11E-02	1.93E-01	8.38E-01
92	-	-	-	-	92	1.00E-01	4.44E-03	1.68E-02	4.19E-01
93	-	-	-	-	93	3.10E-01	1.48E-01	5.59E-01	1.30E+00
94	-	-	-	-	94	-	-	-	-
95	-	-	-	-	95	2.20E-01	3.91E-02	1.48E-01	9.22E-01
96	-	-	-	-	96	1.20E-01	9.86E-02	3.72E-01	5.03E-01
97	-	-	-	-	97	-	-	-	-
98	-	-	-	-	98	-	-	-	-
99	-	-	-	-	99	-	-	-	-
100	-	-	-	-	100	-	-	-	-
101	-	-	-	-	101	-	-	-	-
102	-	-	-	-	102	-	-	-	-
103	-	-	-	-	103	-	-	-	-
104	-	-	-	-	104	-	-	-	-
105	-	-	-	-	105	-	-	-	-
106	-	-	-	-	106	3.20E-01	1.42E-02	5.36E-02	1.34E+00
107	-	-	-	-	107	1.21E+00	1.34E-01	5.07E-01	5.07E+00
108	-	-	-	-	108	-	-	-	-

Hg					P04-P				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
109	-	-	-	-	109	-	-	-	-
110	-	-	-	-	110	3.30E-01	4.03E-02	1.52E-01	1.38E+00
111	-	-	-	-	111	3.50E-01	8.94E-02	3.37E-01	1.47E+00
112	-	-	-	-	112	-	-	-	-
113	-	-	-	-	113	-	-	-	-
114	-	-	-	-	114	-	-	-	-
115	-	-	-	-	115	-	-	-	-
116	-	-	-	-	116	-	-	-	-
117	-	-	-	-	117	-	-	-	-
118	-	-	-	-	118	-	-	-	-
119	-	-	-	-	119	-	-	-	-
120	-	-	-	-	120	1.10E-01	2.44E-03	9.22E-03	4.61E-01
121	-	-	-	-	121	-	-	-	-
122	-	-	-	-	122	-	-	-	-
123	-	-	-	-	123	-	-	-	-
124	-	-	-	-	124	-	-	-	-
125	-	-	-	-	125	-	-	-	-
126	-	-	-	-	126	-	-	-	-
127	-	-	-	-	127	-	-	-	-
128	-	-	-	-	128	-	-	-	-
129	-	-	-	-	129	-	-	-	-
130	-	-	-	-	130	-	-	-	-
131	-	-	-	-	131	-	-	-	-
132	-	-	-	-	132	-	-	-	-
133	-	-	-	-	133	-	-	-	-
134	-	-	-	-	134	-	-	-	-
135	-	-	-	-	135	-	-	-	-
136	-	-	-	-	136	-	-	-	-
137	-	-	-	-	137	-	-	-	-
138	-	-	-	-	138	-	-	-	-
139	5.00E-07	1.33E-07	5.03E-07	2.10E-06	139	5.00E-01	1.33E-01	5.03E-01	2.10E+00

EVENT	TKN				EVENT	NO2 + NO3			
	mg/l	lb	lb/mi	lb/mi/in		mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	-	-	-	-	2	-	-	-	-
3	-	-	-	-	3	-	-	-	-
4	-	-	-	-	4	-	-	-	-
5	-	-	-	-	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	-	-	-	-	7	-	-	-	-
8	-	-	-	-	8	-	-	-	-
9	-	-	-	-	9	-	-	-	-
10	3.00E+00	5.00E-01	1.89E+00	1.26E+01	10	8.00E-01	1.33E-01	5.03E-01	3.35E+00
11	-	-	-	-	11	-	-	-	-
12	-	-	-	-	12	-	-	-	-
13	-	-	-	-	13	-	-	-	-
14	-	-	-	-	14	-	-	-	-
15	-	-	-	-	15	-	-	-	-
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	-	-	-	-	18	-	-	-	-
19	-	-	-	-	19	-	-	-	-
20	-	-	-	-	20	-	-	-	-
21	-	-	-	-	21	-	-	-	-
22	-	-	-	-	22	-	-	-	-
23	-	-	-	-	23	-	-	-	-
24	-	-	-	-	24	-	-	-	-
25	-	-	-	-	25	-	-	-	-
26	3.40E+00	2.11E+00	7.98E+00	1.42E+01	26	1.00E+00	6.22E-01	2.35E+00	4.19E+00
27	4.30E+00	6.21E-01	2.34E+00	1.80E+01	27	2.20E+00	3.18E-01	1.20E+00	9.22E+00
28	2.00E+00	6.00E-01	2.26E+00	8.38E+00	28	9.10E-01	2.73E-01	1.03E+00	3.81E+00
29	-	-	-	-	29	-	-	-	-
30	-	-	-	-	30	-	-	-	-
31	2.40E+00	4.00E-01	1.51E+00	1.01E+01	31	1.52E+00	2.53E-01	9.55E-01	6.37E+00
32	-	-	-	-	32	-	-	-	-
33	5.40E+00	9.00E-01	3.39E+00	2.26E+01	33	8.10E-01	1.35E-01	5.09E-01	3.39E+00
34	4.50E+00	2.50E+00	9.43E+00	1.89E+01	34	5.20E-01	2.89E-01	1.09E+00	2.18E+00
35	4.00E+00	3.46E+00	1.31E+01	1.68E+01	35	4.80E-01	4.16E-01	1.57E+00	2.01E+00
36	2.80E+00	2.80E-01	1.06E+00	1.17E+01	36	8.60E-01	8.60E-02	3.24E-01	3.60E+00
37	1.70E+00	2.06E+00	7.77E+00	7.12E+00	37	4.90E-01	5.93E-01	2.24E+00	2.05E+00
38	-	-	-	-	38	-	-	-	-
39	-	-	-	-	39	-	-	-	-
40	-	-	-	-	40	-	-	-	-
41	2.20E+00	8.06E-01	3.04E+00	9.22E+00	41	5.90E-01	2.16E-01	8.16E-01	2.47E+00
42	2.20E+00	2.37E+00	8.94E+00	9.22E+00	42	3.80E-01	4.09E-01	1.54E+00	1.59E+00
43	-	-	-	-	43	-	-	-	-
44	-	-	-	-	44	-	-	-	-
45	-	-	-	-	45	-	-	-	-
46	-	-	-	-	46	-	-	-	-
47	-	-	-	-	47	-	-	-	-
48	-	-	-	-	48	-	-	-	-
49	-	-	-	-	49	-	-	-	-
50	-	-	-	-	50	-	-	-	-
51	2.10E+00	2.03E+00	7.66E+00	8.80E+00	51	5.40E-01	5.22E-01	1.97E+00	2.26E+00
52	-	-	-	-	52	-	-	-	-
53	-	-	-	-	53	-	-	-	-
54	2.50E+00	8.88E-01	3.35E+00	1.05E+01	54	7.30E-01	2.59E-01	9.79E-01	3.06E+00

TKN					NO2 + NO3				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
55	-	-	-	-	55	-	-	-	-
56	-	-	-	-	56	-	-	-	-
57	-	-	-	-	57	-	-	-	-
58	-	-	-	-	58	-	-	-	-
59	-	-	-	-	59	-	-	-	-
60	5.10E+00	1.47E+00	5.56E+00	2.14E+01	60	8.40E-01	2.43E-01	9.15E-01	3.52E+00
61	-	-	-	-	61	-	-	-	-
62	-	-	-	-	62	-	-	-	-
63	-	-	-	-	63	-	-	-	-
64	2.20E+00	9.28E-01	3.50E+00	9.22E+00	64	1.28E+00	5.40E-01	2.04E+00	5.36E+00
65	-	-	-	-	65	-	-	-	-
66	-	-	-	-	66	-	-	-	-
67	5.30E+00	1.65E+00	6.22E+00	2.22E+01	67	1.06E+00	3.30E-01	1.24E+00	4.44E+00
68	5.90E+00	2.62E-01	9.89E-01	2.47E+01	68	2.73E+00	1.21E-01	4.58E-01	1.14E+01
69	3.00E+00	1.17E+00	4.40E+00	1.26E+01	69	7.60E-01	2.95E-01	1.11E+00	3.18E+00
70	3.00E+00	8.33E-01	3.14E+00	1.26E+01	70	4.90E-01	1.36E-01	5.13E-01	2.05E+00
71	2.50E+00	4.44E-01	1.68E+00	1.05E+01	71	8.20E-01	1.46E-01	5.50E-01	3.44E+00
72	2.10E+00	7.00E-01	2.64E+00	8.80E+00	72	4.50E-01	1.50E-01	5.66E-01	1.89E+00
73	3.00E+00	6.00E-01	2.26E+00	1.26E+01	73	8.30E-01	1.66E-01	6.26E-01	3.48E+00
74	2.00E+00	2.80E+00	1.06E+01	8.38E+00	74	4.10E-01	5.74E-01	2.16E+00	1.72E+00
75	-	-	-	-	75	-	-	-	-
76	-	-	-	-	76	-	-	-	-
77	2.10E+00	2.80E-01	1.06E+00	8.80E+00	77	4.60E-01	6.13E-02	2.31E-01	1.93E+00
78	-	-	-	-	78	-	-	-	-
79	-	-	-	-	79	-	-	-	-
80	1.40E+00	1.26E+00	4.75E+00	5.87E+00	80	6.80E-01	6.12E-01	2.31E+00	2.85E+00
81	-	-	-	-	81	-	-	-	-
82	-	-	-	-	82	-	-	-	-
83	-	-	-	-	83	-	-	-	-
84	-	-	-	-	84	-	-	-	-
85	-	-	-	-	85	-	-	-	-
86	-	-	-	-	86	-	-	-	-
87	1.70E+00	8.31E-01	3.13E+00	7.12E+00	87	4.50E-01	2.20E-01	8.30E-01	1.89E+00
88	2.30E+00	5.11E-01	1.93E+00	9.64E+00	88	4.30E-01	9.55E-02	3.60E-01	1.80E+00
89	-	-	-	-	89	-	-	-	-
90	8.40E+00	1.40E+00	5.28E+00	3.52E+01	90	1.98E+00	3.30E-01	1.24E+00	8.30E+00
91	9.80E+00	2.50E+00	9.45E+00	4.11E+01	91	6.00E-01	1.53E-01	5.78E-01	2.51E+00
92	4.20E+00	1.87E-01	7.04E-01	1.76E+01	92	1.20E+00	5.33E-02	2.01E-01	5.03E+00
93	8.40E+00	4.01E+00	1.51E+01	3.52E+01	93	1.59E+00	7.59E-01	2.87E+00	6.66E+00
94	-	-	-	-	94	-	-	-	-
95	2.00E+00	3.55E-01	1.34E+00	8.38E+00	95	1.45E+00	2.58E-01	9.72E-01	6.08E+00
96	2.30E+00	1.89E+00	7.13E+00	9.64E+00	96	4.30E-01	3.53E-01	1.33E+00	1.80E+00
97	-	-	-	-	97	-	-	-	-
98	-	-	-	-	98	-	-	-	-
99	-	-	-	-	99	-	-	-	-
100	-	-	-	-	100	-	-	-	-
101	-	-	-	-	101	-	-	-	-
102	-	-	-	-	102	-	-	-	-
103	-	-	-	-	103	-	-	-	-
104	-	-	-	-	104	-	-	-	-
105	-	-	-	-	105	-	-	-	-
106	3.90E+00	1.73E-01	6.54E-01	1.63E+01	106	1.56E+00	6.93E-02	2.61E-01	6.54E+00
107	6.40E+00	7.11E-01	2.68E+00	2.68E+01	107	1.58E+00	1.75E-01	6.62E-01	6.62E+00
108	-	-	-	-	108	-	-	-	-

TKN					NO2 + NO3				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
109	-	-	-	-	109	-	-	-	-
110	3.10E+00	3.79E-01	1.43E+00	1.30E+01	110	1.00E+00	2.20E-01	8.30E-01	7.54E+00
111	2.80E+00	7.15E-01	2.70E+00	1.17E+01	111	9.20E-01	2.35E-01	8.87E-01	3.86E+00
112	-	-	-	-	112	-	-	-	-
113	-	-	-	-	113	-	-	-	-
114	-	-	-	-	114	-	-	-	-
115	-	-	-	-	115	-	-	-	-
116	-	-	-	-	116	-	-	-	-
117	-	-	-	-	117	-	-	-	-
118	-	-	-	-	118	-	-	-	-
119	-	-	-	-	119	-	-	-	-
120	4.00E+00	8.88E-02	3.35E-01	1.68E+01	120	2.20E-01	4.89E-03	1.84E-02	9.22E-01
121	-	-	-	-	121	-	-	-	-
122	-	-	-	-	122	-	-	-	-
123	-	-	-	-	123	-	-	-	-
124	-	-	-	-	124	-	-	-	-
125	-	-	-	-	125	-	-	-	-
126	-	-	-	-	126	-	-	-	-
127	-	-	-	-	127	-	-	-	-
128	-	-	-	-	128	-	-	-	-
129	-	-	-	-	129	-	-	-	-
130	-	-	-	-	130	-	-	-	-
131	-	-	-	-	131	-	-	-	-
132	-	-	-	-	132	-	-	-	-
133	-	-	-	-	133	-	-	-	-
134	-	-	-	-	134	-	-	-	-
135	-	-	-	-	135	-	-	-	-
136	-	-	-	-	136	-	-	-	-
137	-	-	-	-	137	-	-	-	-
138	-	-	-	-	138	-	-	-	-
139	4.00E+00	1.07E+00	4.02E+00	1.68E+01	139	4.60E-01	1.23E-01	4.63E-01	1.93E+00

Cl					Na				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	4.00E+00	3.33E+00	1.26E+01	1.68E+01	2	-	-	-	-
3	1.00E+01	1.89E+00	7.12E+00	4.19E+01	3	-	-	-	-
4	1.40E+01	2.33E+00	8.80E+00	5.87E+01	4	-	-	-	-
5	7.00E+00	4.12E+00	1.55E+01	2.93E+01	5	-	-	-	-
6	1.20E+01	1.64E+01	6.19E+01	5.03E+01	6	-	-	-	-
7	1.40E+01	2.18E+00	8.21E+00	5.87E+01	7	-	-	-	-
8	8.00E+00	4.80E+00	1.81E+01	3.35E+01	8	-	-	-	-
9	5.63E+02	1.25E+01	4.72E+01	2.36E+03	9	-	-	-	-
10	2.35E+01	3.91E+00	1.48E+01	9.85E+01	10	-	-	-	-
11	2.00E+01	7.11E+00	2.68E+01	8.38E+01	11	-	-	-	-
12	6.00E+00	6.66E-01	2.51E+00	2.51E+01	12	-	-	-	-
13	2.70E+01	2.40E+00	9.05E+00	1.13E+02	13	-	-	-	-
14	-	-	-	-	14	-	-	-	-
15	-	-	-	-	15	-	-	-	-
16	-	-	-	-	16	-	-	-	-
17	3.56E+02	7.91E+00	2.98E+01	1.49E+03	17	-	-	-	-
18	-	-	-	-	18	-	-	-	-
19	3.00E+01	2.00E+01	7.54E+01	1.26E+02	19	-	-	-	-
20	2.10E+02	4.66E+00	1.76E+01	8.00E+02	20	-	-	-	-
21	2.62E+02	1.25E+02	4.72E+02	1.10E+03	21	-	-	-	-
22	5.60E+03	2.67E+03	1.01E+04	2.35E+04	22	7.00E+03	3.34E+03	1.26E+04	2.93E+04
23	3.75E+03	2.50E+02	9.43E+02	1.57E+04	23	2.50E+03	1.67E+02	6.29E+02	1.05E+04
24	7.50E+03	1.67E+03	6.29E+03	3.14E+04	24	4.20E+03	9.33E+02	3.52E+03	1.76E+04
25	8.93E+03	3.57E+03	1.35E+04	3.74E+04	25	-	-	-	-
26	4.45E+02	2.77E+02	1.04E+03	1.86E+03	26	2.80E+02	1.74E+02	6.57E+02	1.17E+03
27	4.80E+02	6.93E+01	2.61E+02	2.01E+03	27	3.00E+02	4.33E+01	1.63E+02	1.26E+03
28	2.25E+02	6.75E+01	2.55E+02	9.43E+02	28	1.30E+02	3.90E+01	1.47E+02	5.45E+02
29	2.15E+02	2.15E+01	8.11E+01	9.01E+02	29	-	-	-	-
30	7.75E+02	4.30E+01	1.62E+02	3.25E+03	30	-	-	-	-
31	4.80E+02	8.00E+01	3.02E+02	2.01E+03	31	1.20E+02	2.00E+01	7.54E+01	5.03E+02
32	7.20E+03	4.80E+02	1.81E+03	3.02E+04	32	-	-	-	-
33	2.88E+02	4.80E+01	1.81E+02	1.21E+03	33	1.90E+02	3.16E+01	1.19E+02	7.96E+02
34	1.05E+02	5.83E+01	2.20E+02	4.40E+02	34	1.00E+02	5.55E+01	2.10E+02	4.19E+02
35	7.50E+01	6.50E+01	2.45E+02	3.14E+02	35	4.30E+01	3.72E+01	1.41E+02	1.80E+02
36	1.25E+02	1.25E+01	4.71E+01	5.24E+02	36	9.00E+01	9.00E+00	3.39E+01	3.77E+02
37	5.00E+01	6.05E+01	2.28E+02	2.10E+02	37	2.30E+01	2.78E+01	1.05E+02	9.64E+01
38	4.05E+02	1.35E+01	5.09E+01	1.70E+03	38	-	-	-	-
39	2.50E+02	2.78E+01	1.05E+02	1.05E+03	39	-	-	-	-
40	2.10E+02	9.33E+00	3.52E+01	8.80E+02	40	-	-	-	-
41	1.40E+01	5.13E+00	1.94E+01	5.87E+01	41	8.00E+00	2.93E+00	1.11E+01	3.35E+01
42	2.00E+01	2.15E+01	8.13E+01	8.38E+01	42	1.20E+01	1.29E+01	4.88E+01	5.03E+01
43	7.00E+01	1.40E+01	5.28E+01	2.93E+02	43	-	-	-	-
44	5.00E+01	1.61E+01	6.08E+01	2.10E+02	44	-	-	-	-
45	3.50E+01	1.01E+01	3.81E+01	1.47E+02	45	-	-	-	-
46	4.25E+02	9.44E+00	3.56E+01	1.78E+03	46	-	-	-	-
47	1.95E+02	4.33E+00	1.63E+01	8.17E+02	47	-	-	-	-
48	1.80E+01	1.80E+00	6.79E+00	7.54E+01	48	-	-	-	-
49	2.20E+01	2.44E+00	9.22E+00	9.22E+01	49	-	-	-	-
50	5.00E+01	1.61E+01	6.08E+01	2.10E+02	50	-	-	-	-
51	1.80E+01	1.74E+01	6.56E+01	7.54E+01	51	-	-	-	-
52	-	-	-	-	52	-	-	-	-
53	-	-	-	-	53	-	-	-	-
54	1.20E+01	4.26E+00	1.61E+01	5.03E+01	54	-	-	-	-

C1					Na				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
55	-	-	-	-	55	-	-	-	-
56	-	-	-	-	56	-	-	-	-
57	-	-	-	-	57	-	-	-	-
58	-	-	-	-	58	-	-	-	-
59	-	-	-	-	59	-	-	-	-
60	3.20E+01	9.24E+00	3.49E+01	1.34E+02	60	-	-	-	-
61	-	-	-	-	61	-	-	-	-
62	1.00E+01	6.00E+00	2.26E+01	4.19E+01	62	-	-	-	-
63	1.00E+01	5.55E-01	2.10E+00	4.19E+01	63	-	-	-	-
64	8.00E+00	3.38E+00	1.27E+01	3.35E+01	64	-	-	-	-
65	-	-	-	-	65	-	-	-	-
66	-	-	-	-	66	-	-	-	-
67	1.00E+01	3.11E+00	1.17E+01	4.19E+01	67	-	-	-	-
68	3.60E+01	1.60E+00	6.03E+00	1.51E+02	68	-	-	-	-
69	2.10E+01	8.16E+00	3.08E+01	8.80E+01	69	-	-	-	-
70	5.20E+01	1.44E+01	5.45E+01	2.18E+02	70	-	-	-	-
71	3.20E+01	5.69E+00	2.15E+01	1.34E+02	71	-	-	-	-
72	1.60E+01	5.35E+00	2.01E+01	6.71E+01	72	-	-	-	-
73	2.30E+01	4.60E+00	1.73E+01	9.64E+01	73	-	-	-	-
74	6.00E+00	8.40E+00	3.17E+01	2.51E+01	74	-	-	-	-
75	-	-	-	-	75	-	-	-	-
76	-	-	-	-	76	-	-	-	-
77	1.40E+01	1.87E+00	7.04E+00	5.87E+01	77	-	-	-	-
78	-	-	-	-	78	-	-	-	-
79	-	-	-	-	79	-	-	-	-
80	1.30E+01	1.17E+01	4.41E+01	5.45E+01	80	-	-	-	-
81	-	-	-	-	81	-	-	-	-
82	-	-	-	-	82	-	-	-	-
83	-	-	-	-	83	-	-	-	-
84	-	-	-	-	84	-	-	-	-
85	-	-	-	-	85	-	-	-	-
86	-	-	-	-	86	-	-	-	-
87	1.00E+01	4.89E+00	1.84E+01	4.19E+01	87	-	-	-	-
88	6.00E+00	1.34E+00	5.03E+00	2.51E+01	88	-	-	-	-
89	-	-	-	-	89	-	-	-	-
90	1.70E+02	2.83E+01	1.07E+02	7.12E+02	90	1.05E+02	1.75E+01	6.60E+01	4.40E+02
91	1.00E+02	2.55E+01	9.64E+01	4.19E+02	91	1.04E+01	2.66E+00	1.00E+01	4.36E+01
92	3.00E+01	1.33E+00	5.03E+00	1.26E+02	92	2.14E+01	9.51E-01	3.59E+00	8.97E+01
93	1.30E+01	6.21E+00	2.34E+01	5.45E+01	93	4.84E+01	2.31E+01	8.72E+01	2.03E+02
94	-	-	-	-	94	-	-	-	-
95	1.16E+02	2.06E+01	7.78E+01	4.86E+02	95	-	-	-	-
96	4.02E+01	3.30E+01	1.25E+02	1.68E+02	96	1.00E+01	8.22E+00	3.10E+01	4.19E+01
97	1.30E+01	2.74E+00	1.04E+01	5.45E+01	97	1.08E+01	2.28E+00	8.60E+00	4.53E+01
98	1.10E+01	7.33E+00	2.77E+01	4.61E+01	98	9.80E+00	6.53E+00	2.46E+01	4.11E+01
99	2.60E+02	1.15E+01	4.36E+01	1.07E+03	99	1.90E+02	8.44E+00	3.18E+01	7.96E+02
100	1.60E+02	2.31E+01	8.72E+01	6.71E+02	100	1.26E+02	1.82E+01	6.86E+01	5.28E+02
101	1.40E+02	2.02E+01	7.63E+01	5.87E+02	101	1.00E+02	1.44E+01	5.45E+01	4.19E+02
102	9.75E+03	7.58E+02	2.86E+03	4.09E+04	102	6.00E+03	4.66E+02	1.76E+03	2.51E+04
103	2.95E+04	3.28E+02	1.24E+03	1.24E+05	103	1.92E+04	2.13E+02	8.05E+02	8.05E+04
104	2.15E+04	1.19E+03	4.50E+03	9.01E+04	104	1.52E+04	8.44E+02	3.18E+03	6.37E+04
105	1.05E+04	8.16E+02	3.08E+03	4.40E+04	105	6.70E+03	5.21E+02	1.97E+03	2.81E+04
106	7.75E+03	3.44E+02	1.30E+03	3.25E+04	106	4.30E+03	1.91E+02	7.21E+02	1.80E+04
107	1.10E+03	1.22E+02	4.61E+02	4.61E+03	107	1.10E+03	1.22E+02	4.61E+02	4.61E+03
108	3.12E+03	1.73E+02	6.54E+02	1.31E+04	108	1.95E+03	1.08E+02	4.07E+02	8.17E+03

Cl					Na				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
109	2.95E+03	3.28E+01	1.24E+02	1.24E+04	109	-	-	-	-
110	5.00E+02	6.11E+01	2.30E+02	2.10E+03	110	2.70E+02	3.30E+01	1.24E+02	1.13E+03
111	4.00E+02	1.02E+02	3.86E+02	1.68E+03	111	1.70E+02	4.34E+01	1.64E+02	7.12E+02
112	3.50E+02	2.33E+01	8.80E+01	1.47E+03	112	1.60E+02	1.87E+01	4.02E+01	6.71E+02
113	2.87E+04	6.38E+02	2.41E+03	1.20E+05	113	9.25E+03	2.85E+02	7.75E+02	3.88E+04
114	3.50E+04	3.89E+02	1.47E+03	1.47E+05	114	2.25E+04	2.50E+02	9.45E+02	9.43E+04
115	3.09E+04	1.03E+03	3.88E+03	1.29E+05	115	8.70E+03	2.90E+02	1.09E+03	3.65E+04
116	1.66E+04	3.69E+02	1.39E+03	6.96E+04	116	8.00E+03	1.78E+02	6.71E+02	3.35E+04
117	8.00E+03	1.95E+03	7.38E+03	3.35E+04	117	2.50E+03	6.11E+02	2.30E+03	1.05E+04
118	1.34E+03	1.64E+02	6.18E+02	5.62E+03	118	6.20E+02	7.97E+01	2.86E+02	2.60E+03
119	4.44E+03	9.86E+01	3.72E+02	1.86E+04	119	3.70E+03	8.22E+01	3.10E+02	1.55E+04
120	1.00E+04	2.22E+02	8.38E+02	4.19E+04	120	6.00E+03	1.33E+02	5.03E+02	2.51E+04
121	7.00E+03	1.01E+03	3.81E+03	2.93E+04	121	4.10E+03	5.92E+02	2.23E+03	1.72E+04
122	1.68E+04	7.46E+02	2.82E+03	7.04E+04	122	-	-	-	-
123	1.80E+04	1.80E+03	6.79E+03	7.54E+04	123	6.40E+03	6.40E+02	2.41E+03	2.68E+04
124	1.20E+03	1.20E+02	4.53E+02	5.03E+03	124	-	-	-	-
125	2.90E+03	3.22E+01	1.22E+02	1.22E+04	125	-	-	-	-
126	4.95E+02	2.75E+01	1.04E+02	2.07E+03	126	3.50E+02	1.94E+01	7.33E+01	1.47E+03
127	1.85E+03	4.31E+02	1.63E+03	7.75E+03	127	1.40E+03	3.26E+02	1.23E+03	5.87E+03
128	1.93E+02	4.29E+00	1.62E+01	8.09E+02	128	1.80E+02	4.00E+00	1.51E+01	7.54E+02
129	6.00E+01	3.20E+01	1.21E+02	2.51E+02	129	4.40E+01	2.35E+01	8.85E+01	1.84E+02
130	3.75E+02	1.29E+02	4.87E+02	1.57E+03	130	3.30E+02	1.14E+02	4.29E+02	1.38E+03
131	1.00E+02	2.11E+01	7.96E+01	4.19E+02	131	4.80E+01	1.01E+01	3.82E+01	2.01E+02
132	7.00E+02	5.44E+01	2.05E+02	2.93E+03	132	4.20E+02	3.26E+01	1.23E+02	1.76E+03
133	1.35E+03	4.05E+02	1.53E+03	5.66E+03	133	1.10E+03	3.30E+02	1.24E+03	4.61E+03
134	1.08E+03	2.39E+01	9.01E+01	4.50E+03	134	7.20E+02	1.60E+01	6.03E+01	3.02E+03
135	1.70E+02	9.44E+00	3.56E+01	7.12E+02	135	7.00E+01	3.89E+00	1.47E+01	2.93E+02
136	9.50E+01	8.44E+00	3.18E+01	3.98E+02	136	4.40E+01	3.91E+00	1.48E+01	1.84E+02
137	4.80E+01	1.23E+01	4.63E+01	2.01E+02	137	3.20E+01	8.17E+00	3.08E+01	1.34E+02
138	8.00E+01	8.00E+00	3.02E+01	3.35E+02	138	4.20E+01	4.20E+00	1.58E+01	1.76E+02
139	1.60E+01	4.26E+00	1.61E+01	6.71E+01	139	1.00E+01	2.67E+00	1.01E+01	4.19E+01

Ca					SO4				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	-	-	-	-	2	-	-	-	-
3	-	-	-	-	3	-	-	-	-
4	-	-	-	-	4	-	-	-	-
5	-	-	-	-	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	-	-	-	-	7	-	-	-	-
8	-	-	-	-	8	-	-	-	-
9	-	-	-	-	9	-	-	-	-
10	-	-	-	-	10	-	-	-	-
11	-	-	-	-	11	-	-	-	-
12	-	-	-	-	12	-	-	-	-
13	-	-	-	-	13	-	-	-	-
14	-	-	-	-	14	-	-	-	-
15	-	-	-	-	15	-	-	-	-
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	-	-	-	-	18	-	-	-	-
19	-	-	-	-	19	-	-	-	-
20	-	-	-	-	20	-	-	-	-
21	-	-	-	-	21	-	-	-	-
22	8.00E+01	3.82E+01	1.44E+02	3.35E+02	22	-	-	-	-
23	1.00E+02	6.66E+00	2.51E+01	4.19E+02	23	-	-	-	-
24	1.15E+02	2.55E+01	9.64E+01	4.82E+02	24	-	-	-	-
25	-	-	-	-	25	-	-	-	-
26	4.20E+01	2.61E+01	9.86E+01	1.76E+02	26	-	-	-	-
27	5.60E+01	8.08E+00	3.05E+01	2.35E+02	27	-	-	-	-
28	2.20E+01	6.60E+00	2.49E+01	9.22E+01	28	-	-	-	-
29	-	-	-	-	29	-	-	-	-
30	-	-	-	-	30	-	-	-	-
31	2.00E+01	3.33E+00	1.26E+01	8.38E+01	31	-	-	-	-
32	-	-	-	-	32	-	-	-	-
33	2.10E+01	3.50E+00	1.32E+01	8.80E+01	33	-	-	-	-
34	2.90E+01	1.61E+01	6.08E+01	1.22E+02	34	-	-	-	-
35	4.10E+01	3.55E+01	1.34E+02	1.72E+02	35	-	-	-	-
36	2.30E+01	2.30E+00	8.67E+00	9.64E+01	36	-	-	-	-
37	8.00E+00	9.68E+00	3.65E+01	3.35E+01	37	-	-	-	-
38	-	-	-	-	38	-	-	-	-
39	-	-	-	-	39	-	-	-	-
40	-	-	-	-	40	-	-	-	-
41	8.90E+00	3.26E+00	1.23E+01	3.73E+01	41	-	-	-	-
42	9.50E+00	1.02E+01	3.86E+01	3.98E+01	42	-	-	-	-
43	-	-	-	-	43	-	-	-	-
44	-	-	-	-	44	-	-	-	-
45	-	-	-	-	45	-	-	-	-
46	-	-	-	-	46	-	-	-	-
47	-	-	-	-	47	-	-	-	-
48	-	-	-	-	48	-	-	-	-
49	-	-	-	-	49	-	-	-	-
50	-	-	-	-	50	-	-	-	-
51	-	-	-	-	51	-	-	-	-
52	-	-	-	-	52	-	-	-	-
53	-	-	-	-	53	-	-	-	-
54	-	-	-	-	54	-	-	-	-

Ca					SO4				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
55	-	-	-	-	55	-	-	-	-
56	-	-	-	-	56	-	-	-	-
57	-	-	-	-	57	-	-	-	-
58	-	-	-	-	58	-	-	-	-
59	-	-	-	-	59	-	-	-	-
60	-	-	-	-	60	-	-	-	-
61	-	-	-	-	61	-	-	-	-
62	-	-	-	-	62	-	-	-	-
63	-	-	-	-	63	-	-	-	-
64	-	-	-	-	64	-	-	-	-
65	-	-	-	-	65	-	-	-	-
66	-	-	-	-	66	-	-	-	-
67	-	-	-	-	67	-	-	-	-
68	-	-	-	-	68	-	-	-	-
69	-	-	-	-	69	-	-	-	-
70	-	-	-	-	70	-	-	-	-
71	-	-	-	-	71	-	-	-	-
72	-	-	-	-	72	-	-	-	-
73	-	-	-	-	73	-	-	-	-
74	-	-	-	-	74	-	-	-	-
75	-	-	-	-	75	-	-	-	-
76	-	-	-	-	76	-	-	-	-
77	-	-	-	-	77	-	-	-	-
78	-	-	-	-	78	-	-	-	-
79	-	-	-	-	79	-	-	-	-
80	-	-	-	-	80	-	-	-	-
81	-	-	-	-	81	-	-	-	-
82	-	-	-	-	82	-	-	-	-
83	-	-	-	-	83	-	-	-	-
84	-	-	-	-	84	-	-	-	-
85	-	-	-	-	85	-	-	-	-
86	-	-	-	-	86	-	-	-	-
87	-	-	-	-	87	-	-	-	-
88	-	-	-	-	88	-	-	-	-
89	-	-	-	-	89	-	-	-	-
90	1.20E+01	2.00E+00	7.54E+00	5.03E+01	90	-	-	-	-
91	5.00E+00	1.28E+00	4.82E+00	2.10E+01	91	-	-	-	-
92	5.50E+00	2.44E-01	9.22E-01	2.30E+01	92	-	-	-	-
93	6.00E+00	2.87E+00	1.08E+01	2.51E+01	93	-	-	-	-
94	-	-	-	-	94	-	-	-	-
95	-	-	-	-	95	-	-	-	-
96	2.00E+01	1.64E+01	6.20E+01	8.38E+01	96	-	-	-	-
97	2.30E+01	4.85E+00	1.83E+01	9.64E+01	97	-	-	-	-
98	1.10E+01	7.33E+00	2.77E+01	4.61E+01	98	-	-	-	-
99	2.60E+01	1.15E+00	4.36E+00	1.09E+02	99	-	-	-	-
100	3.80E+01	5.49E+00	2.07E+01	1.59E+02	100	-	-	-	-
101	2.80E+01	4.04E+00	1.53E+01	1.17E+02	101	-	-	-	-
102	1.50E+02	1.17E+01	4.40E+01	6.29E+02	102	-	-	-	-
103	2.30E+02	2.55E+00	9.64E+00	9.64E+02	103	-	-	-	-
104	1.70E+02	9.44E+00	3.56E+01	7.12E+02	104	-	-	-	-
105	8.00E+01	6.22E+00	2.35E+01	3.35E+02	105	-	-	-	-
106	1.03E+02	4.58E+00	1.73E+01	4.32E+02	106	1.80E+02	8.00E+00	3.02E+01	7.54E+02
107	9.70E+01	1.08E+01	4.06E+01	4.06E+02	107	6.00E+01	6.66E+00	2.51E+01	2.51E+02
108	7.80E+01	4.33E+00	1.63E+01	3.27E+02	108	-	-	-	-

Ca					SO4				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
109	-	-	-	-	109	-	-	-	-
110	4.50E+01	5.50E+00	2.07E+01	1.89E+02	110	3.70E+01	4.52E+00	1.71E+01	1.55E+02
111	4.10E+01	1.05E+01	3.95E+01	1.72E+02	111	4.10E+01	1.05E+01	3.95E+01	1.72E+02
112	4.70E+01	3.13E+00	1.18E+01	1.97E+02	112	-	-	-	-
113	2.20E+02	4.89E+00	1.84E+01	9.22E+02	113	-	-	-	-
114	4.50E+02	5.00E+00	1.89E+01	1.89E+03	114	-	-	-	-
115	3.60E+01	1.20E+00	4.53E+00	1.51E+02	115	-	-	-	-
116	2.80E+01	6.22E-01	2.35E+00	1.17E+02	116	-	-	-	-
117	1.30E+02	3.18E+01	1.20E+02	5.45E+02	117	-	-	-	-
118	1.00E+02	1.22E+01	4.61E+01	4.19E+02	118	-	-	-	-
119	3.40E+02	7.55E+00	2.85E+01	1.42E+03	119	-	-	-	-
120	1.40E+02	3.11E+00	1.17E+01	5.87E+02	120	-	-	-	-
121	3.70E+02	5.34E+01	2.02E+02	1.55E+03	121	-	-	-	-
122	-	-	-	-	122	-	-	-	-
123	3.20E+02	3.20E+01	1.21E+02	1.34E+03	123	-	-	-	-
124	-	-	-	-	124	-	-	-	-
125	-	-	-	-	125	-	-	-	-
126	4.80E+01	2.67E+00	1.01E+01	2.01E+02	126	-	-	-	-
127	4.00E+01	9.33E+00	3.52E+01	1.68E+02	127	-	-	-	-
128	3.10E+01	6.89E-01	2.60E+00	1.30E+02	128	-	-	-	-
129	2.50E+01	1.33E+01	5.03E+01	1.05E+02	129	-	-	-	-
130	3.60E+01	1.24E+01	4.68E+01	1.51E+02	130	-	-	-	-
131	1.30E+01	2.74E+00	1.04E+01	5.45E+01	131	-	-	-	-
132	1.60E+01	1.24E+00	4.69E+00	6.71E+01	132	-	-	-	-
133	1.60E+01	4.80E+00	1.81E+01	6.71E+01	133	-	-	-	-
134	1.10E+02	2.44E+00	9.22E+00	4.61E+02	134	-	-	-	-
135	1.10E+01	6.11E-01	2.30E+00	4.61E+01	135	-	-	-	-
136	1.10E+01	9.77E-01	3.69E+00	4.61E+01	136	-	-	-	-
137	9.00E+00	2.30E+00	8.67E+00	3.77E+01	137	-	-	-	-
138	9.00E+00	9.00E-01	3.39E+00	3.77E+01	138	-	-	-	-
139	5.00E+00	1.33E+00	5.03E+00	2.10E+01	139	1.00E+01	2.67E+00	1.01E+01	4.19E+01

O & G

EVENT	mg/l	lb	lb/mi	lb/mi/in
1	5.00E+00	3.33E-01	1.26E+00	2.10E+01
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	4.00E+00	6.66E-01	2.51E+00	1.68E+01
11	-	-	-	-
12	-	-	-	-
13	-	-	-	-
14	-	-	-	-
15	-	-	-	-
16	-	-	-	-
17	-	-	-	-
18	-	-	-	-
19	-	-	-	-
20	-	-	-	-
21	-	-	-	-
22	-	-	-	-
23	-	-	-	-
24	-	-	-	-
25	-	-	-	-
26	1.60E+01	9.95E+00	3.75E+01	6.71E+01
27	2.70E+01	3.90E+00	1.47E+01	1.13E+02
28	1.00E+01	3.00E+00	1.13E+01	4.19E+01
29	-	-	-	-
30	-	-	-	-
31	-	-	-	-
32	-	-	-	-
33	1.00E+01	1.67E+00	6.29E+00	4.19E+01
34	1.60E+01	8.88E+00	3.35E+01	6.71E+01
35	8.00E+00	6.95E+00	2.61E+01	3.35E+01
36	-	-	-	-
37	-	-	-	-
38	-	-	-	-
39	-	-	-	-
40	-	-	-	-
41	-	-	-	-
42	-	-	-	-
43	-	-	-	-
44	-	-	-	-
45	-	-	-	-
46	-	-	-	-
47	-	-	-	-
48	-	-	-	-
49	-	-	-	-
50	-	-	-	-
51	-	-	-	-
52	-	-	-	-
53	-	-	-	-
54	1.10E+01	3.91E+00	1.48E+01	4.61E+01

O & G				
EVENT	mg/l	lb	lb/mi	lb/mi/in
55	-	-	-	-
56	-	-	-	-
57	-	-	-	-
58	-	-	-	-
59	-	-	-	-
60	-	-	-	-
61	-	-	-	-
62	-	-	-	-
63	-	-	-	-
64	-	-	-	-
65	-	-	-	-
66	-	-	-	-
67	2.00E+00	6.22E-01	2.35E+00	8.30E+00
68	5.00E+00	2.22E-01	8.38E-01	2.10E+01
69	6.00E+00	2.33E+00	8.80E+00	2.51E+01
70	2.00E+00	5.55E-01	2.10E+00	8.30E+00
71	-	-	-	-
72	5.00E+00	1.67E+00	6.29E+00	2.10E+01
73	-	-	-	-
74	6.00E+00	8.40E+00	3.17E+01	2.51E+01
75	-	-	-	-
76	8.00E+00	1.78E-01	6.71E-01	3.35E+01
77	9.00E+00	1.20E+00	4.53E+00	3.77E+01
78	-	-	-	-
79	-	-	-	-
80	1.00E+00	9.00E-01	3.39E+00	4.19E+00
81	-	-	-	-
82	-	-	-	-
83	-	-	-	-
84	-	-	-	-
85	-	-	-	-
86	-	-	-	-
87	-	-	-	-
88	-	-	-	-
89	-	-	-	-
90	2.20E+01	3.66E+00	1.38E+01	9.22E+01
91	-	-	-	-
92	-	-	-	-
93	-	-	-	-
94	-	-	-	-
95	-	-	-	-
96	-	-	-	-
97	-	-	-	-
98	-	-	-	-
99	-	-	-	-
100	-	-	-	-
101	-	-	-	-
102	-	-	-	-
103	-	-	-	-
104	-	-	-	-
105	-	-	-	-
106	-	-	-	-
107	-	-	-	-
108	-	-	-	-

O & G				
EVENT	mg/l	lb	lb/mi	lb/mi/in
109	-	-	-	-
110	-	-	-	-
111	-	-	-	-
112	-	-	-	-
113	-	-	-	-
114	-	-	-	-
115	-	-	-	-
116	-	-	-	-
117	-	-	-	-
118	-	-	-	-
119	-	-	-	-
120	-	-	-	-
121	-	-	-	-
122	-	-	-	-
123	-	-	-	-
124	-	-	-	-
125	-	-	-	-
126	-	-	-	-
127	-	-	-	-
128	-	-	-	-
129	-	-	-	-
130	-	-	-	-
131	-	-	-	-
132	-	-	-	-
133	-	-	-	-
134	-	-	-	-
135	-	-	-	-
136	-	-	-	-
137	-	-	-	-
138	-	-	-	-
139	-	-	-	-

APPENDIX B
PAVED RUNOFF

TABLE B-2 Paved runoff flow and quality data - Sacramento Hwy 50

EVENT	DATE	TS				EVENT	mg/l	lb	lb/mi	lb/mi/in
		RAINFALL, inches	RUNOFF, inches	Q/R	pH					
1	12/19/79	5.00E-01	3.00E-01	6.00E-01	6.70E+00	1	3.40E+02	4.65E+01	3.51E+02	1.17E+03
2	01/09/80	1.01E+00	8.10E-01	8.02E-01	7.00E+00	2	2.94E+02	1.08E+02	8.19E+02	1.01E+03
3	01/10/80	9.40E-01	7.90E-01	8.40E-01	6.80E+00	3	1.47E+02	5.29E+01	3.99E+02	5.05E+02
4	01/11/80	1.05E+00	9.60E-01	9.14E-01	6.80E+00	4	2.55E+02	1.12E+02	8.42E+02	8.77E+02
5	01/15/80	1.80E-01	1.50E-01	8.33E-01	7.20E+00	5	1.70E+02	1.16E+01	8.77E+01	5.84E+02
6	01/16/80	3.40E-01	2.90E-01	8.53E-01	7.60E+00	6	1.03E+02	1.36E+01	1.03E+02	3.54E+02
7	01/17/80	9.70E-01	7.50E-01	7.73E-01	7.50E+00	7	1.86E+02	6.35E+01	4.80E+02	6.39E+02
8	02/14/80	1.40E-01	8.00E-02	5.71E-01	6.70E+00	8	3.01E+02	1.10E+01	8.28E+01	1.03E+03
9	02/14/80	6.00E-02	6.00E-02	1.00E+00	7.41E+00	9	2.00E+02	5.47E+00	4.13E+01	6.88E+02
10	02/14/80	1.30E-01	1.20E-01	9.23E-01	6.80E+00	10	2.30E+02	1.26E+01	9.49E+01	7.91E+02
11	02/15/80	2.90E-01	2.00E-01	6.90E-01	6.85E+00	11	1.34E+02	1.22E+01	9.21E+01	4.61E+02
12	02/15/80	4.00E-01	3.10E-01	7.75E-01	6.75E+00	12	2.49E+02	3.52E+01	2.65E+02	8.56E+02
13	02/15/80	2.50E-01	2.00E-01	8.00E-01	6.80E+00	13	3.00E+02	2.73E+01	2.06E+02	1.03E+03
14	02/16/80	4.30E-01	4.20E-01	9.77E-01	6.90E+00	14	1.12E+02	2.14E+01	1.62E+02	3.85E+02
15	02/16/80	3.30E-01	1.90E-01	5.76E-01	6.90E+00	15	1.48E+02	1.28E+01	9.67E+01	5.09E+02
16	02/16/80	1.10E-01	1.40E-01	1.27E+00	6.90E+00	16	1.08E+02	6.89E+00	5.20E+01	3.71E+02
17	02/17/80	6.00E-02	5.00E-02	8.33E-01	7.70E+00	17	7.10E+01	1.62E+00	1.22E+01	2.44E+02
18	02/17/80	6.80E-01	6.00E-01	8.82E-01	7.20E+00	18	1.76E+02	4.81E+01	3.63E+02	6.05E+02
19	02/18/80	1.62E+00	1.40E+00	8.64E-01	7.40E+00	19	3.17E+02	2.02E+02	1.53E+03	1.09E+03
21	02/20/80	4.70E-01	3.90E-01	8.30E-01	7.10E+00	21	1.46E+02	2.59E+01	1.96E+02	5.02E+02
22	02/21/80	5.40E-01	5.00E-01	9.26E-01	7.15E+00	22	1.07E+02	2.44E+01	1.84E+02	3.68E+02
23	02/27/80	1.00E-01	6.00E-02	6.00E-01	6.85E+00	23	1.90E+02	5.19E+00	3.92E+01	6.53E+02
24	02/27/80	4.00E-01	3.20E-01	8.00E-01	6.60E+00	24	2.55E+02	3.72E+01	2.81E+02	8.77E+02
25	03/04/80	3.50E-01	3.10E-01	8.86E-01	6.90E+00	25	1.20E+02	1.69E+01	1.28E+02	4.13E+02
26	03/05/80	4.00E-02	3.00E-02	7.50E-01	7.18E+00	26	2.63E+02	3.59E+00	2.71E+01	9.04E+02
27	03/05/80	1.00E-01	6.00E-02	6.00E-01	7.27E+00	27	4.11E+02	1.12E+01	8.48E+01	1.41E+03
28	03/05/80	5.00E-02	3.00E-02	6.00E-01	7.17E+00	28	2.18E+02	2.98E+00	2.25E+01	7.49E+02
29	03/05/80	6.00E-01	5.20E-01	8.67E-01	7.00E+00	29	6.80E+01	1.61E+01	1.22E+02	2.34E+02
30	03/25/80	7.00E-01	5.30E-01	7.57E-01	6.90E+00	30	2.01E+02	4.85E+01	3.66E+02	6.91E+02
31	04/04/80	8.30E-01	6.90E-01	8.31E-01	7.10E+00	31	1.11E+02	3.49E+01	2.63E+02	3.82E+02
32	12/03/80	4.00E-01	3.30E-01	8.25E-01	6.70E+00	32	3.73E+02	5.61E+01	4.23E+02	1.28E+03
33	12/03/80	2.40E-01	2.30E-01	9.58E-01	6.45E+00	33	2.69E+02	2.82E+01	2.13E+02	9.25E+02
34	12/04/80	3.50E-01	3.30E-01	9.43E-01	6.55E+00	34	1.39E+02	2.09E+01	1.58E+02	4.78E+02
35	01/22/81	1.27E+00	1.25E+00	9.84E-01	5.75E+00	35	1.92E+02	1.09E+02	8.25E+02	6.60E+02

VTS					SS				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	7.60E+01	1.04E+01	7.84E+01	2.61E+02	1	2.16E+02	2.95E+01	2.23E+02	7.43E+02
2	2.00E+01	7.38E+00	5.57E+01	6.88E+01	2	1.63E+02	6.01E+01	4.54E+02	5.60E+02
3	6.30E+01	2.27E+01	1.71E+02	2.17E+02	3	5.70E+01	2.05E+01	1.55E+02	1.96E+02
4	8.50E+01	3.72E+01	2.81E+02	2.92E+02	4	1.55E+02	6.78E+01	5.12E+02	5.33E+02
5	-	-	-	-	5	1.11E+02	7.58E+00	5.72E+01	3.82E+02
6	-	-	-	-	6	3.50E+01	4.62E+00	3.49E+01	1.20E+02
7	4.30E+01	1.47E+01	1.11E+02	1.48E+02	7	9.30E+01	3.18E+01	2.40E+02	3.20E+02
8	-	-	-	-	8	1.64E+02	5.98E+00	4.51E+01	5.64E+02
9	-	-	-	-	9	9.40E+01	2.57E+00	1.94E+01	3.23E+02
10	6.60E+01	3.61E+00	2.72E+01	2.27E+02	10	1.24E+02	6.78E+00	5.12E+01	4.26E+02
11	7.20E+01	6.56E+00	4.95E+01	2.48E+02	11	4.80E+01	4.37E+00	3.30E+01	1.65E+02
12	9.00E+01	1.27E+01	9.59E+01	3.09E+02	12	1.33E+02	1.88E+01	1.42E+02	4.57E+02
13	8.00E+01	7.29E+00	5.50E+01	2.75E+02	13	1.54E+02	1.40E+01	1.06E+02	5.29E+02
14	3.40E+01	6.51E+00	4.91E+01	1.17E+02	14	4.60E+01	8.80E+00	6.64E+01	1.58E+02
15	4.40E+01	3.81E+00	2.87E+01	1.51E+02	15	7.50E+01	6.49E+00	4.90E+01	2.58E+02
16	2.80E+01	1.79E+00	1.35E+01	9.63E+01	16	3.70E+01	2.36E+00	1.78E+01	1.27E+02
17	-	-	-	-	17	1.20E+01	2.73E-01	2.06E+00	4.13E+01
18	5.00E+01	1.37E+01	1.03E+02	1.72E+02	18	9.00E+01	2.46E+01	1.86E+02	3.09E+02
19	5.80E+01	3.70E+01	2.79E+02	1.99E+02	19	1.66E+02	1.06E+02	7.99E+02	5.71E+02
21	5.60E+01	9.95E+00	7.51E+01	1.93E+02	21	7.20E+01	1.28E+01	9.65E+01	2.48E+02
22	5.80E+01	1.32E+01	9.97E+01	1.99E+02	22	3.20E+01	7.29E+00	5.50E+01	1.10E+02
23	-	-	-	-	23	9.30E+01	2.54E+00	1.92E+01	3.20E+02
24	5.00E+01	7.29E+00	5.50E+01	1.72E+02	24	9.80E+01	1.43E+01	1.08E+02	3.37E+02
25	3.30E+01	4.66E+00	3.52E+01	1.13E+02	25	5.10E+01	7.20E+00	5.44E+01	1.75E+02
26	-	-	-	-	26	1.57E+02	2.15E+00	1.62E+01	5.40E+02
27	-	-	-	-	27	2.79E+02	7.63E+00	5.76E+01	9.59E+02
28	-	-	-	-	28	1.58E+02	2.16E+00	1.63E+01	5.43E+02
29	2.10E+01	4.97E+00	3.75E+01	7.22E+01	29	4.00E+01	9.48E+00	7.15E+01	1.38E+02
30	6.30E+01	1.52E+01	1.15E+02	2.17E+02	30	9.80E+01	2.37E+01	1.79E+02	3.37E+02
31	4.60E+01	1.45E+01	1.09E+02	1.53E+02	31	6.40E+01	2.01E+01	1.52E+02	2.20E+02
32	7.50E+01	1.13E+01	8.51E+01	2.58E+02	32	2.44E+02	3.67E+01	2.77E+02	8.39E+02
33	7.30E+01	7.65E+00	5.77E+01	2.51E+02	33	1.59E+02	1.67E+01	1.26E+02	5.47E+02
34	4.20E+01	6.31E+00	4.77E+01	1.44E+02	34	8.10E+01	1.22E+01	9.19E+01	2.78E+02
35	9.30E+01	5.30E+01	4.00E+02	3.20E+02	35	9.20E+01	5.24E+01	3.95E+02	3.16E+02

VSS					TOC				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	4.60E+01	6.29E+00	4.74E+01	1.50E+02	1	-	-	-	-
2	3.50E+01	1.29E+01	9.75E+01	1.20E+02	2	2.10E+01	7.75E+00	5.85E+01	7.22E+01
3	1.80E+01	6.48E+00	4.89E+01	6.19E+01	3	1.00E+01	3.60E+00	2.72E+01	3.44E+01
4	3.00E+01	1.31E+01	9.90E+01	1.03E+02	4	1.10E+01	4.01E+00	3.63E+01	3.78E+01
5	-	-	-	-	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	1.70E+01	5.81E+00	4.38E+01	5.84E+01	7	1.30E+01	4.44E+00	3.35E+01	4.47E+01
8	-	-	-	-	8	-	-	-	-
9	-	-	-	-	9	-	-	-	-
10	3.20E+01	1.75E+00	1.32E+01	1.10E+02	10	-	-	-	-
11	2.20E+01	2.00E+00	1.51E+01	7.56E+01	11	-	-	-	-
12	3.40E+01	4.80E+00	3.62E+01	1.17E+02	12	-	-	-	-
13	3.20E+01	2.92E+00	2.20E+01	1.10E+02	13	-	-	-	-
14	1.30E+01	2.49E+00	1.88E+01	4.47E+01	14	2.60E+01	4.97E+00	3.75E+01	8.94E+01
15	2.00E+01	1.73E+00	1.31E+01	6.88E+01	15	4.60E+01	3.98E+00	3.00E+01	1.58E+02
16	1.20E+01	7.65E-01	5.78E+00	4.13E+01	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	2.20E+01	6.01E+00	4.54E+01	7.56E+01	18	3.40E+01	9.29E+00	7.01E+01	1.17E+02
19	2.30E+01	1.47E+01	1.11E+02	7.91E+01	19	-	-	-	-
21	1.80E+01	3.20E+00	2.41E+01	6.19E+01	21	-	-	-	-
22	7.00E+00	1.59E+00	1.20E+01	2.41E+01	22	-	-	-	-
23	-	-	-	-	23	-	-	-	-
24	1.70E+01	2.48E+00	1.87E+01	5.84E+01	24	-	-	-	-
25	1.50E+01	2.12E+00	1.60E+01	5.16E+01	25	4.00E+00	5.65E-01	4.26E+00	1.38E+01
26	-	-	-	-	26	-	-	-	-
27	-	-	-	-	27	-	-	-	-
28	-	-	-	-	28	-	-	-	-
29	1.20E+01	2.84E+00	2.15E+01	4.13E+01	29	-	-	-	-
30	2.20E+01	5.31E+00	4.01E+01	7.56E+01	30	3.60E+01	8.69E+00	6.56E+01	1.24E+02
31	1.40E+01	4.40E+00	3.32E+01	4.81E+01	31	1.40E+01	4.40E+00	3.32E+01	4.81E+01
32	3.80E+01	5.71E+00	4.31E+01	1.31E+02	32	2.10E+01	3.16E+00	2.38E+01	7.22E+01
33	2.50E+01	2.62E+00	1.98E+01	8.60E+01	33	-	-	-	-
34	1.40E+01	2.10E+00	1.59E+01	4.81E+01	34	-	-	-	-
35	1.30E+01	7.40E+00	5.59E+01	4.47E+01	35	2.00E+01	1.14E+01	8.60E+01	6.88E+01

COD

EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	8.60E+01	3.17E+01	2.39E+02	2.96E+02
3	2.80E+01	1.01E+01	7.60E+01	9.63E+01
4	4.20E+01	1.84E+01	1.39E+02	1.44E+02
5	-	-	-	-
6	-	-	-	-
7	4.70E+01	1.61E+01	1.21E+02	1.62E+02
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
11	-	-	-	-
12	-	-	-	-
13	-	-	-	-
14	4.20E+01	8.04E+00	6.06E+01	1.44E+02
15	8.30E+01	7.18E+00	5.42E+01	2.85E+02
16	-	-	-	-
17	-	-	-	-
18	5.00E+01	1.37E+01	1.03E+02	1.72E+02
19	-	-	-	-
21	-	-	-	-
22	-	-	-	-
23	-	-	-	-
24	-	-	-	-
25	1.60E+01	2.26E+00	1.71E+01	5.50E+01
26	-	-	-	-
27	-	-	-	-
28	-	-	-	-
29	-	-	-	-
30	8.20E+01	1.98E+01	1.49E+02	2.82E+02
31	4.20E+01	1.32E+01	9.96E+01	1.44E+02
32	9.90E+01	1.49E+01	1.12E+02	3.40E+02
33	-	-	-	-
34	-	-	-	-
35	6.30E+01	3.59E+01	2.71E+02	2.17E+02

Pb

EVENT	mg/l	lb	lb/mi	lb/mi/in
1	6.00E-01	8.20E-02	6.19E-01	2.06E+00
2	7.00E-01	2.59E-01	1.95E+00	2.41E+00
3	2.00E-01	7.20E-02	5.43E-01	6.88E-01
4	4.00E-01	1.75E-01	1.32E+00	1.38E+00
5	6.00E-01	4.10E-02	3.09E-01	2.06E+00
6	3.00E-01	3.96E-02	2.99E-01	1.03E+00
7	4.00E-01	1.37E-01	1.03E+00	1.38E+00
8	6.00E-01	2.19E-02	1.65E-01	2.06E+00
9	4.00E-01	1.09E-02	8.25E-02	1.38E+00
10	4.00E-01	2.19E-02	1.65E-01	1.38E+00
11	2.00E-01	1.82E-02	1.38E-01	6.88E-01
12	4.00E-01	5.65E-02	4.26E-01	1.38E+00
13	3.00E-01	2.73E-02	2.06E-01	1.03E+00
14	ND	ND	ND	ND
15	3.00E-01	2.60E-02	1.96E-01	1.03E+00
16	ND	ND	ND	ND
17	ND	ND	ND	ND
18	4.00E-01	1.09E-01	8.25E-01	1.38E+00
19	4.00E-01	2.55E-01	1.93E+00	1.38E+00
21	4.00E-01	7.11E-02	5.36E-01	1.38E+00
22	1.00E-01	2.28E-02	1.72E-01	3.44E-01
23	4.00E-01	1.09E-02	8.25E-02	1.38E+00
24	3.00E-01	4.37E-02	3.30E-01	1.03E+00
25	2.00E-01	2.82E-02	2.13E-01	6.88E-01
26	5.00E-01	6.83E-03	5.16E-02	1.72E+00
27	7.00E-01	1.91E-02	1.44E-01	2.41E+00
28	5.00E-01	6.83E-03	5.16E-02	1.72E+00
29	1.00E-01	2.37E-02	1.79E-01	3.44E-01
30	4.00E-01	9.66E-02	7.29E-01	1.38E+00
31	1.00E-01	3.14E-02	2.37E-01	3.44E-01
32	6.00E-01	9.02E-02	6.81E-01	2.06E+00
33	5.00E-01	5.24E-02	3.95E-01	1.72E+00
34	ND	ND	ND	ND
35	3.80E-01	2.16E-01	1.63E+00	1.31E+00

Zn				Fe					
EVENT	Mg/l	lb	lb/mi	lb/mi/in	EVENT	Mg/l	lb	lb/mi	lb/mi/in
1	3.70E-01	5.06E-02	3.82E-01	1.27E+00	1	1.00E+01	1.37E+00	1.03E+01	3.44E+01
2	3.00E-01	1.11E-01	8.35E-01	1.03E+00	2	7.20E+00	2.66E+00	2.01E+01	2.48E+01
3	2.10E-01	7.56E-02	5.70E-01	7.22E-01	3	3.50E+00	1.26E+00	9.51E+00	1.20E+01
4	3.70E-01	1.62E-01	1.22E+00	1.27E+00	4	5.90E+00	2.58E+00	1.95E+01	2.03E+01
5	2.60E-01	1.78E-02	1.34E-01	8.94E-01	5	4.80E+00	3.28E-01	2.48E+00	1.65E+01
6	1.70E-01	2.25E-02	1.69E-01	5.84E-01	6	1.60E+00	2.11E-01	1.60E+00	5.50E+00
7	2.20E-01	7.52E-02	5.67E-01	7.56E-01	7	3.00E+00	1.02E+00	7.74E+00	1.03E+01
8	4.00E-01	1.46E-02	1.10E-01	1.38E+00	8	6.50E+00	2.37E-01	1.79E+00	2.23E+01
9	2.90E-01	7.93E-03	5.98E-02	9.97E-01	9	4.00E+00	1.09E-01	8.25E-01	1.38E+01
10	3.10E-01	1.69E-02	1.28E-01	1.07E+00	10	4.30E+00	2.35E-01	1.77E+00	1.48E+01
11	7.70E-01	7.02E-02	5.29E-01	2.65E+00	11	1.30E+00	1.18E-01	8.94E-01	4.47E+00
12	2.70E-01	3.81E-02	2.88E-01	9.28E-01	12	4.00E+00	5.65E-01	4.26E+00	1.38E+01
13	2.70E-01	2.46E-02	1.86E-01	9.28E-01	13	5.10E+00	4.65E-01	3.51E+00	1.75E+01
14	8.00E-01	1.53E-01	1.16E+00	2.75E+00	14	1.90E+00	3.64E-01	2.74E+00	6.53E+00
15	3.30E-01	2.86E-02	2.16E-01	1.13E+00	15	2.20E+00	1.90E-01	1.44E+00	7.56E+00
16	2.40E-01	1.53E-02	1.16E-01	8.25E-01	16	1.40E+00	8.93E-02	6.74E-01	4.81E+00
17	2.00E-01	4.56E-03	3.44E-02	6.88E-01	17	4.00E-01	9.11E-03	6.88E-02	1.38E+00
18	1.70E-01	4.65E-02	3.51E-01	5.84E-01	18	3.30E+00	9.02E-01	6.81E+00	1.13E+01
19	1.50E-01	9.57E-02	7.22E-01	5.16E-01	19	3.50E+00	2.23E+00	1.68E+01	1.20E+01
21	1.50E-01	2.66E-02	2.01E-01	5.16E-01	21	2.10E+00	3.73E-01	2.82E+00	7.22E+00
22	9.00E-02	2.05E-02	1.55E-01	3.09E-01	22	9.00E-01	2.05E-01	1.55E+00	3.09E+00
23	5.40E-01	1.48E-02	1.11E-01	1.86E+00	23	3.40E+00	9.29E-02	7.01E-01	1.17E+01
24	3.90E-01	5.69E-02	4.29E-01	1.34E+00	24	3.30E+00	4.81E-01	3.63E+00	1.13E+01
25	1.20E-01	1.69E-02	1.28E-01	4.13E-01	25	1.40E+00	1.98E-01	1.49E+00	4.81E+00
26	3.30E-01	4.51E-03	3.40E-02	1.13E+00	26	8.40E+00	1.15E-01	8.66E-01	2.89E+01
27	2.60E-01	7.11E-03	5.36E-02	8.94E-01	27	1.07E+01	2.92E-01	2.21E+00	3.68E+01
28	4.50E-01	6.15E-03	4.64E-02	1.55E+00	28	6.80E+00	9.29E-02	7.01E-01	2.34E+01
29	1.80E-01	4.26E-02	3.22E-01	6.19E-01	29	1.60E+00	3.79E-01	2.86E+00	5.50E+00
30	2.30E-01	5.55E-02	4.19E-01	7.91E-01	30	4.90E+00	1.18E+00	8.93E+00	1.68E+01
31	2.10E-01	6.60E-02	4.98E-01	7.22E-01	31	2.20E+00	6.92E-01	5.22E+00	7.56E+00
32	3.60E-01	5.41E-02	4.08E-01	1.24E+00	32	8.30E+00	1.25E+00	9.42E+00	2.85E+01
33	3.30E-01	3.46E-02	2.61E-01	1.13E+00	33	4.60E+00	4.82E-01	3.64E+00	1.58E+01
34	2.30E-01	3.46E-02	2.61E-01	7.91E-01	34	1.20E+00	1.80E-01	1.36E+00	4.13E+00
35	2.45E-01	1.40E-01	1.05E+00	8.42E-01	35	5.50E+00	3.13E+00	2.36E+01	1.89E+01

Cr					Cu				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	ND	ND	ND	ND	1	1.20E-01	1.64E-02	1.24E-01	4.13E-01
2	4.00E-02	1.48E-02	1.11E-01	1.38E-01	2	1.60E-01	5.90E-02	4.46E-01	5.50E-01
3	2.00E-02	7.20E-03	5.43E-02	6.88E-02	3	1.20E-01	4.32E-02	3.26E-01	4.13E-01
4	3.00E-02	1.31E-02	9.90E-02	1.03E-01	4	1.60E-01	7.00E-02	5.28E-01	5.50E-01
5	2.00E-02	1.37E-03	1.03E-02	6.88E-02	5	6.00E-02	4.10E-03	3.09E-02	2.06E-01
6	2.00E-02	2.64E-03	1.99E-02	6.88E-02	6	6.00E-02	7.94E-03	5.98E-02	2.06E-01
7	2.00E-02	6.83E-03	5.16E-02	6.88E-02	7	6.00E-02	2.05E-02	1.55E-01	2.06E-01
8	2.00E-02	7.29E-04	5.50E-03	6.88E-02	8	1.20E-01	4.47E-03	3.30E-02	4.13E-01
9	-	-	-	-	9	-	-	-	-
10	3.00E-02	1.64E-03	1.24E-02	1.03E-01	10	1.30E-01	7.11E-03	5.36E-02	4.47E-01
11	4.00E-02	3.64E-03	2.75E-02	1.38E-01	11	7.00E-02	6.38E-03	4.81E-02	2.41E-01
12	2.00E-02	2.82E-03	2.13E-02	6.88E-02	12	7.00E-02	9.89E-03	7.46E-02	2.41E-01
13	ND	ND	ND	ND	13	7.00E-02	6.38E-03	4.81E-02	2.41E-01
14	2.00E-02	3.83E-03	2.89E-02	6.88E-02	14	9.00E-02	1.72E-02	1.30E-01	3.09E-01
15	ND	ND	ND	ND	15	6.00E-02	5.19E-03	3.92E-02	2.06E-01
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	ND	ND	ND	ND	18	ND	ND	ND	ND
19	ND	ND	ND	ND	19	ND	ND	ND	ND
21	ND	ND	ND	ND	21	5.00E-02	8.88E-03	6.70E-02	1.72E-01
22	ND	ND	ND	ND	22	5.00E-02	1.14E-02	8.60E-02	1.72E-01
23	ND	ND	ND	ND	23	1.30E-01	3.55E-03	2.68E-02	4.47E-01
24	ND	ND	ND	ND	24	7.00E-02	1.02E-02	7.70E-02	2.41E-01
25	ND	ND	ND	ND	25	8.00E-02	1.13E-02	8.53E-02	2.75E-01
26	-	-	-	-	26	-	-	-	-
27	-	-	-	-	27	-	-	-	-
28	-	-	-	-	28	-	-	-	-
29	ND	ND	ND	ND	29	5.00E-02	1.18E-02	8.94E-02	1.72E-01
30	ND	ND	ND	ND	30	1.10E-01	2.66E-02	2.00E-01	3.78E-01
31	2.00E-02	6.29E-03	4.74E-02	6.88E-02	31	9.00E-02	2.83E-02	2.14E-01	3.09E-01
32	3.00E-02	4.51E-03	3.40E-02	1.03E-01	32	6.00E-02	9.02E-03	6.81E-02	2.06E-01
33	ND	ND	ND	ND	33	5.00E-02	5.24E-03	3.95E-02	1.72E-01
34	ND	ND	ND	ND	34	4.00E-02	6.01E-03	4.54E-02	1.38E-01
35	8.00E-03	4.56E-03	3.44E-02	2.75E-02	35	8.00E-02	4.56E-02	3.44E-01	2.75E-01

Cd					Ni				
EVENT	Mg/l	lb	lb/mi	lb/mi/in	EVENT	Mg/l	lb	lb/mi	lb/mi/in
1	3.00E-02	4.10E-03	3.09E-02	1.03E-01	1	1.00E-01	1.37E-02	1.03E-01	3.44E-01
2	ND	ND	ND	ND	2	2.00E-01	7.38E-02	5.57E-01	6.88E-01
3	ND	ND	ND	ND	3	1.00E-01	3.60E-02	2.72E-01	3.44E-01
4	ND	ND	ND	ND	4	2.00E-01	8.75E-02	6.60E-01	6.88E-01
5	ND	ND	ND	ND	5	1.00E-01	6.83E-03	5.16E-02	3.44E-01
6	3.00E-02	3.96E-03	2.99E-02	1.03E-01	6	ND	ND	ND	ND
7	2.00E-02	6.83E-03	5.16E-02	6.88E-02	7	1.00E-01	3.42E-02	2.58E-01	3.44E-01
8	3.00E-02	1.09E-03	8.25E-03	1.03E-01	8	2.00E-01	7.29E-03	5.50E-02	6.88E-01
9	-	-	-	-	9	-	-	-	-
10	2.00E-02	1.09E-03	8.25E-03	6.88E-02	10	1.00E-01	5.47E-03	4.13E-02	3.44E-01
11	4.00E-02	3.64E-03	2.75E-02	1.38E-01	11	1.00E-01	9.11E-03	6.88E-02	3.44E-01
12	3.00E-02	4.24E-03	3.20E-02	1.03E-01	12	1.00E-01	1.41E-02	1.07E-01	3.44E-01
13	4.00E-02	3.64E-03	2.75E-02	1.38E-01	13	ND	ND	ND	ND
14	2.00E-02	3.83E-03	2.89E-02	6.88E-02	14	1.00E-01	1.91E-02	1.44E-01	3.44E-01
15	3.00E-02	2.60E-03	1.96E-02	1.03E-01	15	1.00E-01	8.66E-03	6.53E-02	3.44E-01
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	ND	ND	ND	ND	18	ND	ND	ND	ND
19	ND	ND	ND	ND	19	ND	ND	ND	ND
21	2.00E-02	3.55E-03	2.68E-02	6.88E-02	21	ND	ND	ND	ND
22	ND	ND	ND	ND	22	ND	ND	ND	ND
23	ND	ND	ND	ND	23	ND	ND	ND	ND
24	ND	ND	ND	ND	24	ND	ND	ND	ND
25	1.00E-02	1.41E-03	1.07E-02	3.44E-02	25	ND	ND	ND	ND
26	-	-	-	-	26	-	-	-	-
27	-	-	-	-	27	-	-	-	-
28	-	-	-	-	28	-	-	-	-
29	2.00E-02	4.74E-03	3.58E-02	6.88E-02	29	ND	ND	ND	ND
30	ND	ND	ND	ND	30	ND	ND	ND	ND
31	ND	ND	ND	ND	31	ND	ND	ND	ND
32	2.00E-02	3.01E-03	2.27E-02	6.88E-02	32	ND	ND	ND	ND
33	ND	ND	ND	ND	33	1.00E-01	1.05E-02	7.91E-02	3.44E-01
34	2.00E-02	3.01E-03	2.27E-02	6.88E-02	34	1.00E-01	1.50E-02	1.13E-01	3.44E-01
35	1.00E-02	5.69E-03	4.30E-02	3.44E-02	35	3.00E-02	1.71E-02	1.29E-01	1.03E-01

Hg					As				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	ND	ND	ND	ND	2	-	-	-	-
3	ND	ND	ND	ND	3	-	-	-	-
4	-	-	-	-	4	-	-	-	-
5	-	-	-	-	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	ND	ND	ND	ND	7	-	-	-	-
8	-	-	-	-	8	-	-	-	-
9	-	-	-	-	9	-	-	-	-
10	-	-	-	-	10	-	-	-	-
11	-	-	-	-	11	-	-	-	-
12	-	-	-	-	12	-	-	-	-
13	-	-	-	-	13	-	-	-	-
14	-	-	-	-	14	-	-	-	-
15	-	-	-	-	15	-	-	-	-
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	ND	ND	ND	ND	18	-	-	-	-
19	-	-	-	-	19	-	-	-	-
21	-	-	-	-	21	-	-	-	-
22	-	-	-	-	22	-	-	-	-
23	-	-	-	-	23	-	-	-	-
24	-	-	-	-	24	-	-	-	-
25	-	-	-	-	25	-	-	-	-
26	-	-	-	-	26	-	-	-	-
27	-	-	-	-	27	-	-	-	-
28	-	-	-	-	28	-	-	-	-
29	-	-	-	-	29	-	-	-	-
30	ND	ND	ND	ND	30	-	-	-	-
31	-	-	-	-	31	-	-	-	-
32	ND	ND	ND	ND	32	ND	ND	ND	ND
33	-	-	-	-	33	-	-	-	-
34	-	-	-	-	34	-	-	-	-
35	1.00E-05	5.69E-06	4.30E-05	3.44E-05	35	3.00E-02	1.71E-02	1.29E-01	1.03E-01

PO4-P					TKN				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	2.10E-01	7.75E-02	5.85E-01	7.22E-01	2	1.70E+00	6.27E-01	4.73E+00	5.84E+00
3	3.00E-02	1.08E-02	8.15E-02	1.03E-01	3	3.00E-01	1.08E-01	8.15E-01	1.03E+00
4	6.00E-02	2.62E-02	1.98E-01	2.06E-01	4	6.00E-01	2.62E-01	1.98E+00	2.06E+00
5	-	-	-	-	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	4.45E+00	1.52E+00	1.15E+01	1.53E+01	7	6.00E+00	2.05E+00	1.55E+01	2.06E+01
8	-	-	-	-	8	-	-	-	-
9	-	-	-	-	9	-	-	-	-
10	-	-	-	-	10	-	-	-	-
11	-	-	-	-	11	-	-	-	-
12	-	-	-	-	12	-	-	-	-
13	-	-	-	-	13	-	-	-	-
14	7.00E-02	1.34E-02	1.01E-01	2.41E-01	14	5.00E+00	9.57E-01	7.22E+00	1.72E+01
15	9.00E-02	7.79E-03	5.88E-02	3.09E-01	15	2.00E+00	1.73E-01	1.31E+00	6.88E+00
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	1.10E-01	3.01E-02	2.27E-01	3.78E-01	18	2.00E+00	5.47E-01	4.13E+00	6.88E+00
19	-	-	-	-	19	-	-	-	-
21	1.00E-01	1.78E-02	1.34E-01	3.44E-01	21	2.00E+00	3.55E-01	2.64E+00	6.88E+00
22	8.00E-02	1.82E-02	1.38E-01	2.75E-01	22	2.00E+00	4.56E-01	3.44E+00	6.88E+00
23	-	-	-	-	23	-	-	-	-
24	1.40E-01	2.04E-02	1.54E-01	4.81E-01	24	2.00E+00	2.92E-01	2.20E+00	6.88E+00
25	1.50E-01	2.12E-02	1.60E-01	5.16E-01	25	2.00E+00	2.82E-01	2.13E+00	6.88E+00
26	-	-	-	-	26	-	-	-	-
27	-	-	-	-	27	-	-	-	-
28	-	-	-	-	28	-	-	-	-
29	1.90E-01	4.50E-02	3.40E-01	6.53E-01	29	2.00E+00	4.74E-01	3.58E+00	6.88E+00
30	2.00E-01	4.83E-02	3.64E-01	6.88E-01	30	2.00E+00	4.83E-01	3.64E+00	6.88E+00
31	7.00E-02	2.20E-02	1.66E-01	2.41E-01	31	1.00E+00	3.14E-01	2.37E+00	3.44E+00
32	2.50E-01	3.76E-02	2.84E-01	8.60E-01	32	1.68E+00	2.53E-01	1.91E+00	5.78E+00
33	1.30E-01	1.36E-02	1.03E-01	4.47E-01	33	2.90E+00	3.04E-01	2.29E+00	9.97E+00
34	3.00E-02	4.51E-03	3.40E-02	1.03E-01	34	5.60E-01	8.42E-02	6.35E-01	1.93E+00
35	8.00E-02	4.56E-02	3.44E-01	2.75E-01	35	ND	ND	ND	ND

NO2 + NO3					C1				
EVENT	Mg/l	lb	lb/mi	lb/mi/in	EVENT	Mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	7.00E+00	9.57E-01	7.22E+00	2.41E+01
2	8.10E-01	2.99E-01	2.26E+00	2.78E+00	2	6.00E+00	2.21E+00	1.67E+01	2.06E+01
3	1.50E-01	5.40E-02	4.07E-01	5.16E-01	3	1.50E+01	5.40E+00	4.07E+01	5.16E+01
4	1.10E-01	4.81E-02	3.63E-01	3.78E-01	4	1.00E+01	4.37E+00	3.30E+01	3.44E+01
5	-	-	-	-	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	1.60E-01	5.47E-02	4.13E-01	5.50E-01	7	1.00E+01	3.42E+00	2.58E+01	3.44E+01
8	-	-	-	-	8	1.00E+01	3.64E-01	2.75E+00	3.44E+01
9	-	-	-	-	9	-	-	-	-
10	-	-	-	-	10	6.00E+00	3.28E-01	2.48E+00	2.06E+01
11	-	-	-	-	11	5.00E+00	4.56E-01	3.44E+00	1.72E+01
12	-	-	-	-	12	5.00E+00	7.06E-01	5.33E+00	1.72E+01
13	-	-	-	-	13	9.00E+00	8.20E-01	6.19E+00	3.09E+01
14	1.20E-01	2.30E-02	1.73E-01	4.13E-01	14	8.00E+00	1.53E+00	1.16E+01	2.75E+01
15	1.70E+00	1.47E-01	1.11E+00	5.84E+00	15	4.00E+00	3.46E-01	2.61E+00	1.38E+01
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	1.00E-01	2.73E-02	2.06E-01	3.44E-01	18	1.10E+02	3.01E+01	2.27E+02	3.78E+02
19	-	-	-	-	19	-	-	-	-
21	6.00E-02	1.07E-02	8.05E-02	2.06E-01	21	3.00E+00	5.33E-01	4.02E+00	1.03E+01
22	4.00E-02	9.11E-03	6.88E-02	1.38E-01	22	6.00E+00	1.37E+00	1.03E+01	2.06E+01
23	-	-	-	-	23	-	-	-	-
24	2.60E-01	3.79E-02	2.86E-01	8.94E-01	24	4.00E+00	5.83E-01	4.40E+00	1.38E+01
25	2.20E-01	3.11E-02	2.34E-01	7.56E-01	25	4.00E+00	5.65E-01	4.26E+00	1.38E+01
26	-	-	-	-	26	-	-	-	-
27	-	-	-	-	27	-	-	-	-
28	-	-	-	-	28	-	-	-	-
29	2.00E-01	4.74E-02	3.58E-01	6.88E-01	29	4.00E+00	9.48E-01	7.15E+00	1.38E+01
30	3.30E-01	7.97E-02	6.01E-01	1.13E+00	30	9.00E+00	2.17E+00	1.64E+01	3.09E+01
31	3.40E-01	1.07E-01	8.07E-01	1.17E+00	31	8.00E+00	2.51E+00	1.90E+01	2.75E+01
32	3.50E-01	5.26E-02	3.97E-01	1.20E+00	32	4.00E+00	6.01E-01	4.54E+00	1.38E+01
33	3.60E-01	3.77E-02	2.85E-01	1.24E+00	33	5.00E+00	5.24E-01	3.95E+00	1.72E+01
34	4.20E-01	6.31E-02	4.77E-01	1.44E+00	34	3.00E+00	4.51E-01	3.40E+00	1.03E+01
35	6.20E-01	3.53E-01	2.66E+00	2.13E+00	35	5.00E+00	2.85E+00	2.15E+01	1.72E+01

Na					Ca				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	6.00E+01	2.21E+01	1.67E+02	2.06E+02	2	1.90E+01	7.01E+00	5.29E+01	6.53E+01
3	-	-	-	-	3	-	-	-	-
4	-	-	-	-	4	-	-	-	-
5	-	-	-	-	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	-	-	-	-	7	-	-	-	-
8	-	-	-	-	8	-	-	-	-
9	-	-	-	-	9	-	-	-	-
10	-	-	-	-	10	-	-	-	-
11	-	-	-	-	11	-	-	-	-
12	-	-	-	-	12	-	-	-	-
13	-	-	-	-	13	-	-	-	-
14	-	-	-	-	14	-	-	-	-
15	-	-	-	-	15	-	-	-	-
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	-	-	-	-	18	-	-	-	-
19	-	-	-	-	19	-	-	-	-
21	-	-	-	-	21	-	-	-	-
22	-	-	-	-	22	-	-	-	-
23	-	-	-	-	23	-	-	-	-
24	-	-	-	-	24	-	-	-	-
25	-	-	-	-	25	-	-	-	-
26	-	-	-	-	26	-	-	-	-
27	-	-	-	-	27	-	-	-	-
28	-	-	-	-	28	-	-	-	-
29	-	-	-	-	29	-	-	-	-
30	-	-	-	-	30	-	-	-	-
31	-	-	-	-	31	-	-	-	-
32	4.00E+00	6.01E-01	4.54E+00	1.38E+01	32	-	-	-	-
33	2.60E+00	2.72E-01	2.06E+00	8.94E+00	33	-	-	-	-
34	2.80E+00	4.21E-01	3.18E+00	9.63E+00	34	-	-	-	-
35	2.80E+00	1.59E+00	1.20E+01	9.63E+00	35	-	-	-	-

SO4					O & G				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	ND	ND	ND	ND	2	1.10E+01	4.06E+00	3.06E+01	3.78E+01
3	ND	ND	ND	ND	3	-	-	-	-
4	ND	ND	ND	ND	4	2.10E+01	9.18E+00	6.93E+01	7.22E+01
5	-	-	-	-	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	2.00E+00	6.83E-01	5.16E+00	6.88E+00	7	-	-	-	-
8	1.20E+01	4.37E-01	3.30E+00	4.13E+01	8	1.30E+01	4.74E-01	3.58E+00	4.47E+01
9	-	-	-	-	9	-	-	-	-
10	9.00E+00	4.92E-01	3.71E+00	3.09E+01	10	6.00E+00	3.28E-01	2.48E+00	2.06E+01
11	8.00E+00	7.29E-01	5.50E+00	2.75E+01	11	-	-	-	-
12	8.00E+00	1.13E+00	8.53E+00	2.75E+01	12	1.10E+01	1.55E+00	1.17E+01	3.78E+01
13	8.00E+00	7.29E-01	5.50E+00	2.75E+01	13	-	-	-	-
14	5.00E+00	9.57E-01	7.22E+00	1.72E+01	14	-	-	-	-
15	5.00E+00	4.33E-01	3.27E+00	1.72E+01	15	-	-	-	-
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	ND	ND	ND	ND	18	-	-	-	-
19	-	-	-	-	19	-	-	-	-
21	5.00E+00	8.88E-01	6.70E+00	1.72E+01	21	-	-	-	-
22	4.00E+00	9.11E-01	6.88E+00	1.38E+01	22	-	-	-	-
23	-	-	-	-	23	1.00E+01	2.73E-01	2.06E+00	3.44E+01
24	3.00E+00	4.37E-01	3.30E+00	1.03E+01	24	-	-	-	-
25	ND	ND	ND	ND	25	-	-	-	-
26	-	-	-	-	26	-	-	-	-
27	-	-	-	-	27	-	-	-	-
28	-	-	-	-	28	-	-	-	-
29	ND	ND	ND	ND	29	-	-	-	-
30	3.00E+00	7.24E-01	5.47E+00	1.03E+01	30	3.00E+00	7.24E-01	5.47E+00	1.03E+01
31	2.00E+00	6.29E-01	4.74E+00	6.83E+00	31	8.00E+00	2.51E+00	1.90E+01	2.75E+01
32	1.30E+01	1.95E+00	1.47E+01	4.47E+01	32	5.00E+00	7.52E-01	5.67E+00	1.72E+01
33	1.40E+01	1.47E+00	1.11E+01	4.81E+01	33	-	-	-	-
34	9.00E+00	1.35E+00	1.02E+01	3.09E+01	34	-	-	-	-
35	8.00E+00	4.56E+00	3.44E+01	2.75E+01	35	-	-	-	-

APPENDIX B
PAVED RUNOFF

TABLE B-3 Paved runoff flow and quality data - Harrisburg I-81

EVENT	DATE	RAINFALL,		RUNOFF,		Q/R	pH	EVENT	TS			
		inches	inches	inches	inches				Mg/l	lb	lb/mi	lb/mi/in
1	06/28/80	6.00E-01	1.38E-02	2.30E-02	6.20E+00	1	1.12E+03	4.77E+00	3.74E+01	2.71E+03		
2	06/29/80	3.00E-01	5.60E-03	1.87E-02	6.40E+00	2	5.88E+02	1.01E+00	7.96E+00	1.42E+03		
3	07/21/80	2.02E+00	9.26E-02	4.59E-02	5.50E+00	3	5.40E+02	1.54E+01	1.21E+02	1.31E+03		
4	07/22/80	4.00E-01	1.64E-02	4.11E-02	6.50E+00	4	3.23E+02	1.64E+00	1.28E+01	7.81E+02		
5	07/23/80	1.90E-01	1.91E-03	1.00E-02	6.45E+00	5	2.85E+02	1.68E-01	1.31E+00	6.89E+02		
6	08/11/80	4.20E-01	2.92E-02	6.95E-02	6.40E+00	6	7.32E+02	6.58E+00	5.16E+01	1.77E+03		
7	10/18/80	3.20E-01	1.36E-03	4.25E-03	6.05E+00	7	4.38E+02	1.83E-01	1.44E+00	1.06E+03		
8	10/25/80	1.18E+00	6.16E-02	5.22E-02	6.45E+00	8	2.38E+02	4.52E+00	3.54E+01	5.75E+02		
9	10/25/80	3.90E-01	5.21E-02	1.34E-01	6.50E+00	9	3.20E+02	5.14E+00	4.03E+01	7.74E+02		
10	10/25/80	2.10E-01	1.96E-02	9.34E-02	6.45E+00	10	2.39E+02	1.44E+00	1.13E+01	5.78E+02		
11	11/24/80	1.97E+00	5.98E-01	3.03E-01	6.70E+00	11	3.65E+02	6.72E+01	5.27E+02	8.82E+02		
12	02/02/81	1.37E+00	3.30E-01	2.41E-01	7.50E+00	12	1.03E+03	1.05E+02	8.23E+02	2.49E+03		
13	02/10/81	1.58E+00	1.02E+00	6.45E-01	-	13	1.04E+03	3.27E+02	2.56E+03	2.51E+03		
14	02/20/81	1.02E+00	1.10E-01	1.08E-01	7.40E+00	14	9.79E+02	3.33E+01	2.61E+02	2.37E+03		
15	02/20/81	3.50E-01	9.34E-03	2.67E-02	7.50E+00	15	4.36E+02	1.26E+00	9.85E+00	1.05E+03		
16	04/11/81	2.30E-01	1.85E-03	8.06E-03	7.20E+00	16	4.41E+02	2.52E-01	1.98E+00	1.07E+03		
17	04/12/81	1.80E-01	1.85E-03	1.03E-02	7.40E+00	17	3.95E+02	2.26E-01	1.77E+00	9.55E+02		
18	04/14/81	8.00E-01	7.80E-02	9.75E-02	7.80E+00	18	2.57E+02	6.18E+00	4.84E+01	6.21E+02		
19	04/23/81	3.10E-01	2.47E-03	7.97E-03	7.40E+00	19	2.71E+02	2.06E-01	1.62E+00	6.55E+02		
20	04/24/81	1.00E-01	1.39E-03	1.39E-02	7.50E+00	20	2.52E+02	1.08E-01	8.47E-01	6.09E+02		
21	04/28/81	4.70E-01	2.63E-02	5.60E-02	6.90E+00	21	2.59E+03	2.10E+01	1.65E+02	6.26E+03		

VTS					SS				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	1.25E+02	5.32E-01	4.18E+00	3.02E+02	1	6.82E+02	2.91E+00	2.28E+01	1.65E+03
2	1.50E+02	2.59E-01	2.03E+00	3.63E+02	2	3.24E+02	5.59E-01	4.38E+00	7.83E+02
3	1.88E+02	5.37E+00	4.21E+01	4.54E+02	3	3.58E+02	1.02E+01	8.02E+01	8.65E+02
4	1.11E+02	5.63E-01	4.41E+00	2.68E+02	4	9.60E+01	4.87E-01	3.82E+00	2.32E+02
5	5.50E+01	3.23E-02	2.54E-01	1.33E+02	5	8.80E+01	5.17E-02	4.06E-01	2.13E+02
6	9.50E+01	8.55E-01	6.70E+00	2.30E+02	6	4.82E+02	4.34E+00	3.40E+01	1.17E+03
7	3.78E+02	1.58E-01	1.24E+00	9.14E+02	7	2.64E+02	1.11E-01	8.67E-01	6.38E+02
8	8.40E+01	1.60E+00	1.25E+01	2.03E+02	8	1.05E+02	1.99E+00	1.56E+01	2.54E+02
9	1.24E+02	1.99E+00	1.56E+01	3.00E+02	9	1.23E+02	1.98E+00	1.55E+01	2.97E+02
10	9.20E+01	5.56E-01	4.36E+00	2.22E+02	10	5.40E+01	3.26E-01	2.56E+00	1.31E+02
11	9.00E+01	1.66E+01	1.30E+02	2.18E+02	11	1.12E+02	2.06E+01	1.62E+02	2.71E+02
12	-	-	-	-	12	1.66E+02	1.69E+01	1.33E+02	4.01E+02
13	-	-	-	-	13	5.03E+02	1.58E+02	1.24E+03	1.22E+03
14	1.43E+02	4.87E+00	3.82E+01	3.46E+02	14	3.66E+02	1.25E+01	9.77E+01	8.85E+02
15	-	-	-	-	15	1.04E+02	2.99E-01	2.35E+00	2.51E+02
16	-	-	-	-	16	2.14E+02	1.22E-01	9.59E-01	5.17E+02
17	-	-	-	-	17	4.80E+01	2.74E-02	2.15E-01	1.16E+02
18	3.90E+01	9.37E-01	7.35E+00	9.43E+01	18	1.01E+02	2.43E+00	1.90E+01	2.44E+02
19	-	-	-	-	19	1.00E+02	7.61E-02	5.97E-01	2.42E+02
20	-	-	-	-	20	7.50E+01	3.21E-02	2.52E-01	1.81E+02
21	-	-	-	-	21	2.16E+03	1.75E+01	1.37E+02	5.22E+03

VSS					TOC				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	6.20E+01	2.64E-01	2.07E+00	1.50E+02	1	-	-	-	-
2	4.00E+01	6.90E-02	5.41E-01	9.67E+01	2	-	-	-	-
3	3.70E+01	1.06E+00	8.29E+00	8.94E+01	3	2.30E+01	6.57E-01	5.15E+00	5.56E+01
4	1.20E+01	6.08E-02	4.77E-01	2.90E+01	4	-	-	-	-
5	9.00E+00	5.29E-03	4.15E-02	2.18E+01	5	-	-	-	-
6	3.20E+01	2.88E-01	2.26E+00	7.74E+01	6	-	-	-	-
7	3.20E+01	1.34E-02	1.05E-01	7.74E+01	7	-	-	-	-
8	7.00E+00	1.33E-01	1.04E+00	1.69E+01	8	1.70E+01	3.23E-01	2.53E+00	4.11E+01
9	8.00E+00	1.29E-01	1.01E+00	1.93E+01	9	-	-	-	-
10	6.00E+00	3.63E-02	2.84E-01	1.45E+01	10	-	-	-	-
11	1.20E+01	2.21E+00	1.73E+01	2.90E+01	11	1.30E+01	2.39E+00	1.88E+01	3.14E+01
12	-	-	-	-	12	-	-	-	-
13	-	-	-	-	13	-	-	-	-
14	3.40E+01	1.16E+00	9.07E+00	8.22E+01	14	-	-	-	-
15	-	-	-	-	15	-	-	-	-
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	1.10E+01	2.64E-01	2.07E+00	2.66E+01	18	1.30E+01	3.12E-01	2.45E+00	3.14E+01
19	-	-	-	-	19	-	-	-	-
20	-	-	-	-	20	-	-	-	-
21	-	-	-	-	21	-	-	-	-

COD					Pb				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	--	--	--	--	1	1.00E-01	4.26E-04	3.34E-03	2.42E-01
2	--	--	--	--	2	ND	ND	ND	ND
3	5.40E+01	1.54E+00	1.21E+01	1.31E+02	3	3.00E-01	8.57E-03	6.72E-02	7.25E-01
4	--	--	--	--	4	ND	ND	ND	ND
5	--	--	--	--	5	3.00E-01	1.76E-04	1.38E-03	7.25E-01
6	--	--	--	--	6	ND	ND	ND	ND
7	--	--	--	--	7	ND	ND	ND	ND
8	3.30E+01	6.27E-01	4.92E+00	7.98E+01	8	ND	ND	ND	ND
9	--	--	--	--	9	2.00E-01	3.21E-03	2.52E-02	4.83E-01
10	--	--	--	--	10	ND	ND	ND	ND
11	2.10E+01	3.87E+00	3.03E+01	5.08E+01	11	1.00E-01	1.84E-02	1.44E-01	2.42E-01
12	--	--	--	--	12	2.00E-01	2.04E-02	1.60E-01	4.83E-01
13	--	--	--	--	13	4.00E-02	1.26E-02	9.85E-02	9.67E-02
14	--	--	--	--	14	4.00E-02	1.36E-03	1.07E-02	9.67E-02
15	--	--	--	--	15	ND	ND	ND	ND
16	--	--	--	--	16	8.00E-02	4.57E-05	3.58E-04	1.93E-01
17	--	--	--	--	17	1.00E-02	5.71E-06	4.48E-05	2.42E-02
18	3.50E+01	8.41E-01	6.60E+00	8.46E+01	18	2.00E-02	4.81E-04	3.77E-03	4.83E-02
19	--	--	--	--	19	ND	ND	ND	ND
20	--	--	--	--	20	ND	ND	ND	ND
21	--	--	--	--	21	2.00E-01	1.62E-03	1.27E-02	4.83E-01

Zn					Fe				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	2.10E-01	8.95E-04	7.02E-03	5.00E-01	1	3.00E+01	1.28E-01	1.00E+00	7.25E+01
2	1.20E-01	2.07E-04	1.62E-03	2.90E-01	2	9.60E+00	1.66E-02	1.30E-01	2.32E+01
3	2.20E-01	6.28E-03	4.93E-02	5.32E-01	3	1.50E+01	4.28E-01	3.36E+00	3.63E+01
4	1.20E-01	6.08E-04	4.77E-03	2.90E-01	4	5.00E+00	2.53E-02	1.99E-01	1.21E+01
5	1.80E-01	1.06E-04	8.30E-04	4.35E-01	5	4.50E+00	2.65E-03	2.07E-02	1.09E+01
6	9.00E-02	8.10E-04	6.35E-03	2.18E-01	6	1.40E+01	1.26E-01	9.88E-01	3.38E+01
7	3.30E-01	1.38E-04	1.08E-03	7.98E-01	7	1.04E+01	4.36E-03	3.42E-02	2.51E+01
8	1.60E-01	3.04E-03	2.38E-02	3.87E-01	8	4.60E+00	8.74E-02	6.85E-01	1.11E+01
9	2.00E-01	3.21E-03	2.52E-02	4.83E-01	9	6.50E+00	1.04E-01	8.19E-01	1.57E+01
10	1.80E-01	1.09E-03	8.53E-03	4.35E-01	10	2.80E+00	1.69E-02	1.33E-01	6.77E+00
11	1.70E-01	3.13E-02	2.46E-01	4.11E-01	11	5.20E+00	9.58E-01	7.51E+00	1.26E+01
12	2.20E-01	2.24E-02	1.76E-01	5.32E-01	12	8.10E+00	8.25E-01	6.47E+00	1.96E+01
13	1.40E-01	4.40E-02	3.45E-01	3.38E-01	13	1.54E+01	4.84E+00	3.79E+01	3.72E+01
14	1.90E-01	6.47E-03	5.07E-02	4.59E-01	14	1.20E+01	4.08E-01	3.20E+00	2.90E+01
15	2.00E-01	5.76E-04	4.52E-03	4.83E-01	15	4.40E+00	1.27E-02	9.94E-02	1.06E+01
16	3.30E-01	1.88E-04	1.48E-03	7.98E-01	16	2.30E+01	1.31E-02	1.03E-01	5.56E+01
17	1.20E-01	6.85E-05	5.38E-04	2.90E-01	17	3.30E+00	1.88E-03	1.48E-02	7.98E+00
18	6.50E-02	1.56E-03	1.23E-02	1.57E-01	18	5.10E+00	1.23E-01	9.61E-01	1.23E+01
19	9.00E-02	6.85E-05	5.38E-04	2.18E-01	19	4.70E+00	3.58E-03	2.81E-02	1.14E+01
20	1.10E-01	4.71E-05	3.70E-04	2.66E-01	20	3.50E+00	1.50E-03	1.18E-02	8.46E+00
21	4.50E-01	3.65E-03	2.86E-02	1.09E+00	21	1.15E+02	9.33E-01	7.32E+00	2.78E+02

Cr

EVENT	Mg/l	lb	lb/mi	lb/mi/in
1	5.00E-02	2.13E-04	1.67E-03	1.28E-01
2	5.00E-02	8.63E-05	6.77E-04	1.28E-01
3	6.00E-02	1.71E-03	1.34E-02	1.54E-01
4	6.00E-02	3.04E-04	2.39E-03	1.54E-01
5	8.00E-02	4.70E-05	3.69E-04	2.05E-01
6	ND	ND	ND	ND
7	3.00E-02	1.26E-05	9.85E-05	7.68E-02
8	ND	ND	ND	ND
9	ND	ND	ND	ND
10	ND	ND	ND	ND
11	ND	ND	ND	ND
12	-	-	-	-
13	-	-	-	-
14	8.00E-03	2.72E-04	2.14E-03	2.05E-02
15	-	-	-	-
16	-	-	-	-
17	-	-	-	-
18	6.00E-03	1.44E-04	1.13E-03	1.54E-02
19	-	-	-	-
20	-	-	-	-
21	1.90E-01	1.54E-03	1.21E-02	4.86E-01

Cu

EVENT	Mg/l	lb	lb/mi	lb/mi/in
1	1.10E-01	4.69E-04	3.67E-03	2.82E-01
2	9.00E-02	1.55E-04	1.22E-03	2.30E-01
3	8.00E-02	2.28E-03	1.79E-02	2.05E-01
4	4.00E-02	2.03E-04	1.59E-03	1.02E-01
5	1.40E-01	8.23E-05	6.45E-04	3.58E-01
6	1.10E-01	9.89E-04	7.76E-03	2.82E-01
7	1.70E-01	7.12E-05	5.58E-04	4.35E-01
8	5.00E-02	9.49E-04	7.45E-03	1.28E-01
9	5.00E-02	8.03E-04	6.30E-03	1.28E-01
10	1.00E-01	6.04E-04	4.74E-03	2.56E-01
11	4.00E-02	7.37E-03	5.78E-02	1.02E-01
12	-	-	-	-
13	-	-	-	-
14	4.60E-02	1.57E-03	1.23E-02	1.18E-01
15	-	-	-	-
16	-	-	-	-
17	-	-	-	-
18	3.80E-02	9.13E-04	7.16E-03	9.73E-02
19	-	-	-	-
20	-	-	-	-
21	1.00E-01	8.11E-04	6.36E-03	2.56E-01

Cd					Ni				
EVENT	Mg/l	lb	lb/mi	lb/mi/in	EVENT	Mg/l	lb	lb/mi	lb/mi/in
1	ND	ND	ND	ND	1	1.00E-01	4.26E-04	3.34E-03	2.42E-01
2	ND	ND	ND	ND	2	ND	ND	ND	ND
3	ND	ND	ND	ND	3	ND	ND	ND	ND
4	2.00E-02	1.01E-04	7.95E-04	4.83E-02	4	1.00E-01	5.07E-04	3.98E-03	2.42E-01
5	3.00E-02	1.76E-05	1.38E-04	7.25E-02	5	ND	ND	ND	ND
6	ND	ND	ND	ND	6	ND	ND	ND	ND
7	1.00E-02	4.19E-06	3.28E-05	2.42E-02	7	ND	ND	ND	ND
8	ND	ND	ND	ND	8	ND	ND	ND	ND
9	ND	ND	ND	ND	9	ND	ND	ND	ND
10	ND	ND	ND	ND	10	ND	ND	ND	ND
11	ND	ND	ND	ND	11	ND	ND	ND	ND
12	-	-	-	-	12	-	-	-	-
13	-	-	-	-	13	-	-	-	-
14	6.00E-03	2.04E-04	1.60E-03	1.45E-02	14	2.00E-02	6.81E-04	5.34E-03	4.83E-02
15	-	-	-	-	15	-	-	-	-
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	ND	ND	ND	ND	18	1.00E-02	2.40E-04	1.89E-03	2.42E-02
19	-	-	-	-	19	-	-	-	-
20	-	-	-	-	20	-	-	-	-
21	ND	ND	ND	ND	21	1.00E-01	8.11E-04	6.36E-03	2.42E-01

Hg					As				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	1.30E-03	2.24E-06	1.76E-05	3.14E-03	2	-	-	-	-
3	6.00E-04	1.71E-05	1.34E-04	1.45E-03	3	ND	ND	ND	ND
4	-	-	-	-	4	-	-	-	-
5	-	-	-	-	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	-	-	-	-	7	-	-	-	-
8	8.00E-04	1.52E-05	1.19E-04	1.93E-03	8	ND	ND	ND	ND
9	-	-	-	-	9	-	-	-	-
10	-	-	-	-	10	-	-	-	-
11	ND	ND	ND	ND	11	ND	ND	ND	ND
12	-	-	-	-	12	-	-	-	-
13	-	-	-	-	13	-	-	-	-
14	-	-	-	-	14	-	-	-	-
15	-	-	-	-	15	-	-	-	-
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	-	-	-	-	18	-	-	-	-
19	-	-	-	-	19	-	-	-	-
20	-	-	-	-	20	-	-	-	-
21	-	-	-	-	21	-	-	-	-

PO4-P

EVENT	Mg/1	lb	lb/mi	lb/mi/in
1	3.60E+00	1.53E-02	1.20E-01	8.70E+00
2	1.64E+00	2.83E-03	2.22E-02	3.96E+00
3	1.82E+00	5.20E-02	4.08E-01	4.40E+00
4	1.53E+00	7.76E-03	6.08E-02	3.70E+00
5	1.21E+00	7.11E-04	5.58E-03	2.93E+00
6	-	-	-	-
7	-	-	-	-
8	9.30E-01	1.77E-02	1.39E-01	2.25E+00
9	9.00E-01	1.45E-02	1.13E-01	2.18E+00
10	8.00E-01	4.84E-03	3.79E-02	1.93E+00
11	5.70E-01	1.05E-01	8.23E-01	1.38E+00
12	-	-	-	-
13	-	-	-	-
14	7.70E-01	2.62E-02	2.06E-01	1.86E+00
15	-	-	-	-
16	-	-	-	-
17	-	-	-	-
18	3.80E-01	9.13E-03	7.16E-02	9.19E-01
19	-	-	-	-
20	-	-	-	-
21	-	-	-	-

TKN

EVENT	Mg/1	lb	lb/mi	lb/mi/in
1	5.00E+00	2.13E-02	1.67E-01	1.21E+01
2	4.30E+00	7.42E-03	5.82E-02	1.04E+01
3	3.30E+00	9.42E-02	7.39E-01	7.98E+00
4	3.10E+00	1.57E-02	1.23E-01	7.49E+00
5	2.60E+00	1.53E-03	1.20E-02	6.29E+00
6	-	-	-	-
7	-	-	-	-
8	1.70E+00	3.23E-02	2.53E-01	4.11E+00
9	1.40E+00	2.25E-02	1.76E-01	3.38E+00
10	1.60E+00	9.67E-03	7.59E-02	3.87E+00
11	1.04E+00	1.92E-01	1.50E+00	2.51E+00
12	-	-	-	-
13	-	-	-	-
14	1.90E+00	6.47E-02	5.07E-01	4.59E+00
15	-	-	-	-
16	-	-	-	-
17	-	-	-	-
18	1.10E+00	2.64E-02	2.07E-01	2.66E+00
19	-	-	-	-
20	-	-	-	-
21	-	-	-	-

NO2 + NO3					Cl				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	3.60E+00	1.53E-02	1.20E-01	8.70E+00	1	4.10E+01	1.75E-01	1.37E+00	9.91E+01
2	4.00E+00	6.90E-03	5.41E-02	9.67E+00	2	3.80E+01	6.56E-02	5.14E-01	9.19E+01
3	9.00E+00	2.57E-01	2.02E+00	2.18E+01	3	2.50E+01	7.14E-01	5.60E+00	6.04E+01
4	3.10E+00	1.57E-02	1.23E-01	7.49E+00	4	2.70E+01	1.37E-01	1.07E+00	6.53E+01
5	1.79E+00	1.05E-03	8.25E-03	4.33E+00	5	2.10E+01	1.23E-02	9.68E-02	5.08E+01
6	-	-	-	-	6	-	-	-	-
7	-	-	-	-	7	2.00E+01	8.38E-03	6.57E-02	4.83E+01
8	1.27E+00	2.41E-02	1.89E-01	3.07E+00	8	8.00E+00	1.52E-01	1.19E+00	1.93E+01
9	2.18E+00	3.50E-02	2.75E-01	5.27E+00	9	1.90E+01	3.05E-01	2.39E+00	4.59E+01
10	1.54E+00	9.31E-03	7.30E-02	3.72E+00	10	1.30E+01	7.86E-02	6.16E-01	3.14E+01
11	6.00E+00	1.11E+00	8.67E+00	1.45E+01	11	3.50E+01	6.45E+00	5.06E+01	8.46E+01
12	-	-	-	-	12	-	-	-	-
13	-	-	-	-	13	-	-	-	-
14	7.30E+00	2.48E-01	1.95E+00	1.76E+01	14	1.97E+02	6.70E+00	5.26E+01	4.76E+02
15	-	-	-	-	15	1.23E+02	3.54E-01	2.78E+00	2.97E+02
16	-	-	-	-	16	3.90E+01	2.23E-02	1.75E-01	9.43E+01
17	-	-	-	-	17	6.80E+01	3.88E-02	3.05E-01	1.64E+02
18	3.98E+00	9.57E-02	7.50E-01	9.62E+00	18	2.70E+01	6.49E-01	5.09E+00	6.53E+01
19	-	-	-	-	19	-	-	-	-
20	-	-	-	-	20	-	-	-	-
21	-	-	-	-	21	2.20E+01	1.79E-01	1.40E+00	5.32E+01

Na					Ca				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	1.00E+01	1.73E-02	1.35E-01	2.42E+01	2	-	-	-	-
3	1.40E+01	4.00E-01	3.14E+00	3.38E+01	3	-	-	-	-
4	-	-	-	-	4	-	-	-	-
5	-	-	-	-	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	5.20E+00	2.18E-03	1.71E-02	1.26E+01	7	-	-	-	-
8	5.50E+00	1.04E-01	8.19E-01	1.33E+01	8	-	-	-	-
9	1.30E+01	2.09E-01	1.64E+00	3.14E+01	9	-	-	-	-
10	1.10E+01	6.65E-02	5.21E-01	2.66E+01	10	-	-	-	-
11	2.80E+01	5.16E+00	4.04E+01	6.77E+01	11	2.00E+01	3.68E+00	2.89E+01	4.83E+01
12	-	-	-	-	12	-	-	-	-
13	-	-	-	-	13	-	-	-	-
14	1.25E+02	4.25E+00	3.34E+01	3.02E+02	14	-	-	-	-
15	1.00E+02	2.88E-01	2.26E+00	2.42E+02	15	-	-	-	-
16	3.34E+01	1.91E-02	1.50E-01	8.07E+01	16	-	-	-	-
17	8.40E+01	4.80E-02	3.76E-01	2.03E+02	17	-	-	-	-
18	2.67E+01	6.42E-01	5.03E+00	6.45E+01	18	1.50E+01	3.61E-01	2.83E+00	3.63E+01
19	-	-	-	-	19	-	-	-	-
20	-	-	-	-	20	-	-	-	-
21	2.17E+01	1.76E-01	1.38E+00	5.25E+01	21	-	-	-	-

804

EVENT	mg/l	lb	lb/mi	lb/mi/in
1	2.50E+01	1.06E-01	8.35E-01	6.04E+01
2	2.00E+01	3.45E-02	2.71E-01	4.83E+01
3	3.50E+01	9.99E-01	7.84E+00	8.46E+01
4	1.00E+01	5.07E-02	3.98E-01	2.42E+01
5	8.00E+00	4.70E-03	3.69E-02	1.93E+01
6	-	-	-	-
7	-	-	-	-
8	8.00E+00	1.52E-01	1.19E+00	1.93E+01
9	1.30E+01	2.09E-01	1.64E+00	3.14E+01
10	1.50E+01	9.07E-02	7.11E-01	3.63E+01
11	1.90E+01	3.50E+00	2.74E+01	4.59E+01
12	-	-	-	-
13	-	-	-	-
14	2.10E+01	7.15E-01	5.60E+00	5.08E+01
15	-	-	-	-
16	-	-	-	-
17	-	-	-	-
18	1.80E+01	4.33E-01	3.39E+00	4.35E+01
19	-	-	-	-
20	-	-	-	-
21	-	-	-	-

APPENDIX B
PAVED RUNOFF

TABLE B-4 Paved runoff flow and quality data - Efland I-85

EVENT	DATE	RAINFALL,		RUNOFF,		Q/R	pH	EVENT	TS			
		inches	inches	inches	inches				mg/l	lb	lb/mi	lb/mi/in
1	08/11/81	1.79E+00	1.22E+00	6.82E-01	6.40E+00	1	1.20E+02	8.26E+01	4.26E+02	3.49E+02		
2	08/19/81	1.23E+00	7.70E-01	6.26E-01	6.25E+00	2	7.40E+01	3.22E+01	1.66E+02	2.15E+02		
3	09/07/81	3.70E+00	3.53E+00	9.54E-01	5.95E+00	3	9.50E+01	1.89E+02	9.75E+02	2.76E+02		
4	09/08/81	5.80E-01	4.60E-01	7.93E-01	4.90E+00	4	7.80E+01	2.02E+01	1.04E+02	2.27E+02		
5	10/25/81	7.80E-01	2.90E-01	3.72E-01	6.45E+00	5	1.40E+02	2.29E+01	1.18E+02	4.07E+02		
6	10/26/81	3.50E-01	2.80E-01	8.00E-01	6.25E+00	6	7.00E+01	1.11E+01	5.70E+01	2.03E+02		
7	10/26/81	3.20E-01	1.60E-01	5.00E-01	6.45E+00	7	9.50E+01	8.58E+00	4.42E+01	2.76E+02		
8	10/27/81	1.50E-01	9.00E-02	6.00E-01	6.15E+00	8	9.50E+01	4.82E+00	2.49E+01	2.76E+02		
9	10/27/81	5.80E-01	5.10E-01	8.79E-01	6.55E+00	9	7.50E+01	2.16E+01	1.11E+02	2.18E+02		
10	12/15/81	1.77E+00	1.20E+00	6.78E-01	6.25E+00	10	1.09E+02	7.38E+01	3.80E+02	3.17E+02		
11	12/24/81	1.05E+00	9.60E-01	9.14E-01	6.60E+00	11	2.82E+02	1.53E+02	7.87E+02	8.20E+02		
12	01/16/82	-	1.20E-01	-	6.45E+00	12	3.86E+03	2.61E+02	1.35E+03	1.12E+04		
13	01/19/82	3.10E-01	2.30E-01	7.42E-01	6.50E+00	13	1.58E+03	2.05E+02	1.06E+03	4.59E+03		
14	01/20/82	-	1.30E-01	-	6.50E+00	14	8.52E+02	6.25E+01	3.22E+02	2.48E+03		
15	01/23/82	5.10E-01	3.90E-01	7.65E-01	6.60E+00	15	1.14E+03	2.51E+02	1.29E+03	3.31E+03		
16	02/03/82	1.09E+00	1.04E+00	9.54E-01	6.30E+00	16	2.52E+02	1.48E+02	7.62E+02	7.33E+02		
17	02/09/82	4.60E-01	1.00E-01	2.17E-01	6.10E+00	17	3.65E+02	2.06E+01	1.06E+02	1.06E+03		
18	02/12/82	4.90E-01	1.80E-01	3.67E-01	6.30E+00	18	3.45E+02	3.50E+01	1.81E+02	1.00E+03		
19	02/27/82	1.40E+00	9.10E-01	6.50E-01	6.80E+00	19	5.05E+02	2.59E+02	1.34E+03	1.47E+03		
20	03/06/82	3.30E-01	5.00E-02	1.52E-01	6.65E+00	20	3.68E+02	1.04E+01	5.35E+01	1.07E+03		
21	03/07/82	6.50E-01	5.80E-01	8.92E-01	6.75E+00	21	2.24E+02	7.33E+01	3.78E+02	6.51E+02		
22	03/20/82	9.00E-01	6.40E-01	7.11E-01	6.85E+00	22	2.00E+02	7.22E+01	3.72E+02	5.81E+02		
23	04/08/82	6.40E-01	1.10E-01	1.72E-01	6.05E+00	23	2.35E+02	1.46E+01	7.51E+01	6.83E+02		
24	04/20/82	3.90E-01	1.00E-02	2.56E-02	6.00E+00	24	3.48E+02	1.96E+00	1.01E+01	1.01E+03		
25	04/26/82	3.10E-01	9.00E-02	2.90E-01	6.35E+00	25	3.55E+02	1.80E+01	9.29E+01	1.03E+03		
26	04/27/82	1.80E-01	2.00E-02	1.11E-01	6.45E+00	26	4.42E+02	4.99E+00	2.57E+01	1.28E+03		
27	04/27/82	3.60E-01	1.10E-01	3.06E-01	6.70E+00	27	4.57E+02	2.84E+01	1.46E+02	1.33E+03		
28	05/24/82	4.50E-01	3.00E-02	6.67E-02	6.25E+00	28	3.15E+02	5.33E+00	2.75E+01	9.16E+02		
29	05/24/82	1.60E+00	1.52E+00	9.50E-01	6.50E+00	29	1.55E+02	1.33E+02	6.85E+02	4.51E+02		
30	05/27/82	4.40E-01	2.50E-01	5.68E-01	6.20E+00	30	2.30E+02	3.24E+01	1.67E+02	6.69E+02		
31	05/29/82	4.50E-01	1.60E-01	3.56E-01	6.20E+00	31	7.10E+02	6.41E+01	3.30E+02	2.06E+03		
32	05/31/82	2.50E-01	6.00E-02	2.40E-01	6.30E+00	32	2.50E+02	8.46E+00	4.36E+01	7.27E+02		
33	06/03/82	2.08E+00	1.42E+00	6.83E-01	6.25E+00	33	1.20E+02	9.62E+01	4.95E+02	3.49E+02		
34	06/04/82	6.70E-01	5.10E-01	7.61E-01	6.30E+00	34	1.55E+02	4.46E+01	2.30E+02	4.51E+02		
35	06/10/82	2.03E+00	2.01E+00	9.90E-01	6.65E+00	35	8.00E+01	9.07E+01	4.67E+02	2.33E+02		
36	06/10/82	6.00E-01	6.20E-01	1.03E+00	6.70E+00	36	1.35E+02	4.72E+01	2.43E+02	3.92E+02		
37	06/17/82	1.10E+00	7.60E-01	6.91E-01	6.72E+00	37	1.90E+02	8.15E+01	4.20E+02	5.52E+02		
38	06/29/82	1.12E+00	7.90E-01	7.05E-01	6.70E+00	38	1.17E+02	5.22E+01	2.69E+02	3.40E+02		

VTS					SS				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	7.50E+01	5.16E+01	2.66E+02	2.18E+02	1	1.30E+01	8.95E+00	4.61E+01	3.78E+01
2	-	-	-	-	2	9.00E+00	3.91E+00	2.01E+01	2.62E+01
3	3.00E+01	5.98E+01	3.08E+02	8.72E+01	3	1.80E+01	3.59E+01	1.85E+02	5.23E+01
4	-	-	-	-	4	7.00E+00	1.82E+00	9.36E+00	2.03E+01
5	-	-	-	-	5	1.10E+01	1.80E+00	9.27E+00	3.20E+01
6	-	-	-	-	6	8.00E+00	1.26E+00	6.51E+00	2.33E+01
7	-	-	-	-	7	1.40E+01	1.26E+00	6.51E+00	4.07E+01
8	-	-	-	-	8	1.90E+01	9.65E-01	4.97E+00	5.52E+01
9	-	-	-	-	9	7.00E+00	2.01E+00	1.04E+01	2.03E+01
10	5.10E+01	3.45E+01	1.78E+02	1.48E+02	10	1.60E+01	1.08E+01	5.58E+01	4.07E+01
11	-	-	-	-	11	1.40E+01	7.58E+00	3.91E+01	4.07E+01
12	4.72E+02	3.20E+01	1.65E+02	1.37E+03	12	2.40E+01	1.63E+00	8.37E+00	6.98E+01
13	-	-	-	-	13	6.00E+00	7.79E-01	4.01E+00	1.74E+01
14	-	-	-	-	14	7.00E+00	5.14E-01	2.65E+00	2.03E+01
15	-	-	-	-	15	1.50E+01	3.30E+00	1.70E+01	4.36E+01
16	4.00E+01	2.35E+01	1.21E+02	1.16E+02	16	3.50E+01	2.05E+01	1.06E+02	1.02E+02
17	-	-	-	-	17	2.70E+01	1.52E+00	7.85E+00	7.85E+01
18	-	-	-	-	18	1.70E+01	1.73E+00	8.90E+00	4.94E+01
19	-	-	-	-	19	1.20E+01	6.16E+00	3.17E+01	3.49E+01
20	-	-	-	-	20	-	-	-	-
21	7.20E+01	2.36E+01	1.21E+02	2.09E+02	21	2.00E+01	6.55E+00	3.37E+01	5.81E+01
22	7.00E+01	2.53E+01	1.30E+02	2.03E+02	22	3.40E+01	1.23E+01	6.33E+01	9.88E+01
23	-	-	-	-	23	1.70E+01	1.06E+00	5.44E+00	4.94E+01
24	-	-	-	-	24	-	-	-	-
25	-	-	-	-	25	2.80E+01	1.42E+00	7.33E+00	8.14E+01
26	-	-	-	-	26	4.20E+01	4.74E-01	2.44E+00	1.22E+02
27	-	-	-	-	27	3.90E+01	2.42E+00	1.25E+01	1.13E+02
28	-	-	-	-	28	3.40E+01	5.76E-01	2.97E+00	9.88E+01
29	-	-	-	-	29	5.70E+01	4.89E+01	2.52E+02	1.66E+02
30	-	-	-	-	30	3.10E+01	4.37E+00	2.25E+01	9.01E+01
31	-	-	-	-	31	5.50E+01	4.97E+00	2.56E+01	1.60E+02
32	-	-	-	-	32	3.60E+01	1.22E+00	6.28E+00	1.05E+02
33	-	-	-	-	33	2.40E+01	1.92E+01	9.91E+01	6.98E+01
34	-	-	-	-	34	2.40E+01	6.91E+00	3.56E+01	6.98E+01
35	-	-	-	-	35	2.20E+01	2.50E+01	1.29E+02	6.40E+01
36	-	-	-	-	36	2.70E+01	9.45E+00	4.87E+01	7.85E+01
37	-	-	-	-	37	4.40E+01	1.89E+01	9.72E+01	1.28E+02
38	-	-	-	-	38	7.00E+00	3.12E+00	1.61E+01	2.03E+01

VSS				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	4.00E+00	2.75E+00	1.42E+01	1.16E+01
2	-	-	-	-
3	5.00E+00	9.96E+00	5.13E+01	1.45E+01
4	-	-	-	-
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	6.00E+00	4.06E+00	2.09E+01	1.74E+01
11	-	-	-	-
12	5.00E+00	3.39E-01	1.74E+00	1.45E+01
13	-	-	-	-
14	-	-	-	-
15	-	-	-	-
16	7.00E+00	4.11E+00	2.12E+01	2.03E+01
17	-	-	-	-
18	-	-	-	-
19	-	-	-	-
20	-	-	-	-
21	6.00E+00	1.96E+00	1.01E+01	1.74E+01
22	7.00E+00	2.53E+00	1.30E+01	2.03E+01
23	-	-	-	-
24	-	-	-	-
25	-	-	-	-
26	-	-	-	-
27	-	-	-	-
28	-	-	-	-
29	-	-	-	-
30	-	-	-	-
31	-	-	-	-
32	-	-	-	-
33	-	-	-	-
34	-	-	-	-
35	-	-	-	-
36	-	-	-	-
37	-	-	-	-
38	-	-	-	-

TOC				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
11	-	-	-	-
12	1.60E+01	1.08E+00	5.58E+00	4.65E+01
13	-	-	-	-
14	-	-	-	-
15	-	-	-	-
16	-	-	-	-
17	-	-	-	-
18	-	-	-	-
19	-	-	-	-
20	-	-	-	-
21	2.60E+01	8.51E+00	4.38E+01	7.56E+01
22	2.20E+01	7.95E+00	4.09E+01	6.40E+01
23	-	-	-	-
24	-	-	-	-
25	-	-	-	-
26	-	-	-	-
27	-	-	-	-
28	-	-	-	-
29	-	-	-	-
30	-	-	-	-
31	-	-	-	-
32	-	-	-	-
33	-	-	-	-
34	-	-	-	-
35	-	-	-	-
36	-	-	-	-
37	-	-	-	-
38	-	-	-	-

COD

EVENT	Mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
11	-	-	-	-
12	2.60E+01	1.76E+00	9.07E+00	7.56E+01
13	-	-	-	-
14	-	-	-	-
15	-	-	-	-
16	-	-	-	-
17	-	-	-	-
18	-	-	-	-
19	-	-	-	-
20	-	-	-	-
21	5.00E+01	1.64E+01	8.43E+01	1.45E+02
22	8.90E+01	3.21E+01	1.66E+02	2.59E+02
23	-	-	-	-
24	-	-	-	-
25	-	-	-	-
26	-	-	-	-
27	-	-	-	-
28	-	-	-	-
29	-	-	-	-
30	-	-	-	-
31	-	-	-	-
32	-	-	-	-
33	-	-	-	-
34	-	-	-	-
35	-	-	-	-
36	-	-	-	-
37	-	-	-	-
38	-	-	-	-

Pb

EVENT	Mg/l	lb	lb/mi	lb/mi/in
1	ND	ND	ND	ND
2	ND	ND	ND	ND
3	2.00E-02	3.98E-02	2.05E-01	5.81E-02
4	3.00E-02	7.79E-03	4.01E-02	8.72E-02
5	ND	ND	ND	ND
6	-	-	-	-
7	2.00E-02	1.81E-03	9.30E-03	5.81E-02
8	-	-	-	-
9	ND	ND	ND	ND
10	ND	ND	ND	ND
11	-	-	-	-
12	5.00E-02	3.39E-03	1.74E-02	1.45E-01
13	3.00E-02	3.89E-03	2.01E-02	8.72E-02
14	ND	ND	ND	ND
15	-	-	-	-
16	2.00E-02	1.17E-02	6.05E-02	5.81E-02
17	-	-	-	-
18	-	-	-	-
19	ND	ND	ND	ND
20	-	-	-	-
21	2.00E-02	6.55E-03	3.37E-02	5.81E-02
22	2.00E-02	7.22E-03	3.72E-02	5.81E-02
23	2.00E-02	1.24E-03	6.40E-03	5.81E-02
24	-	-	-	-
25	-	-	-	-
26	-	-	-	-
27	-	-	-	-
28	1.00E-02	1.69E-04	8.72E-04	2.91E-02
29	2.00E-02	1.72E-02	8.84E-02	5.81E-02
30	-	-	-	-
31	-	-	-	-
32	-	-	-	-
33	-	-	-	-
34	-	-	-	-
35	-	-	-	-
36	-	-	-	-
37	-	-	-	-
38	-	-	-	-

Zn				
EVENT	Mg/l	lb	lb/mi	lb/mi/in
1	5.10E-02	3.51E-02	1.81E-01	1.48E-01
2	4.00E-02	1.74E-02	8.95E-02	1.16E-01
3	3.80E-02	7.57E-02	3.90E-01	1.10E-01
4	4.80E-02	1.25E-02	6.42E-02	1.40E-01
5	6.20E-02	1.01E-02	5.23E-02	1.80E-01
6	-	-	-	-
7	4.90E-02	4.42E-03	2.28E-02	1.42E-01
8	-	-	-	-
9	3.80E-02	1.09E-02	5.63E-02	1.10E-01
10	3.60E-02	2.44E-02	1.26E-01	1.05E-01
11	-	-	-	-
12	1.53E-01	1.04E-02	5.34E-02	4.45E-01
13	1.47E-01	1.91E-02	9.83E-02	4.27E-01
14	9.20E-02	6.75E-03	3.48E-02	2.67E-01
15	-	-	-	-
16	5.10E-02	2.99E-02	1.54E-01	1.48E-01
17	-	-	-	-
18	-	-	-	-
19	7.90E-02	4.06E-02	2.09E-01	2.30E-01
20	-	-	-	-
21	4.40E-02	1.44E-02	7.42E-02	1.28E-01
22	3.90E-02	1.41E-02	7.26E-02	1.13E-01
23	5.10E-02	3.17E-03	1.63E-02	1.48E-01
24	-	-	-	-
25	-	-	-	-
26	-	-	-	-
27	-	-	-	-
28	7.30E-02	1.24E-03	6.37E-03	2.12E-01
29	7.80E-02	6.69E-02	3.45E-01	2.27E-01
30	-	-	-	-
31	-	-	-	-
32	-	-	-	-
33	-	-	-	-
34	-	-	-	-
35	-	-	-	-
36	-	-	-	-
37	-	-	-	-
38	-	-	-	-

Fe				
EVENT	Mg/l	lb	lb/mi	lb/mi/in
1	1.35E+00	9.29E-01	4.79E+00	3.92E+00
2	1.12E+00	4.87E-01	2.51E+00	3.26E+00
3	1.96E+00	3.90E+00	2.01E+01	5.70E+00
4	1.15E+00	2.99E-01	1.54E+00	3.34E+00
5	1.40E+00	2.29E-01	1.18E+00	4.07E+00
6	-	-	-	-
7	2.00E+00	1.81E-01	9.30E-01	5.81E+00
8	-	-	-	-
9	2.10E+00	6.04E-01	3.11E+00	6.10E+00
10	1.60E+00	1.08E+00	5.58E+00	4.65E+00
11	-	-	-	-
12	5.40E-01	3.66E-02	1.88E-01	1.57E+00
13	3.00E-01	3.89E-02	2.01E-01	8.72E-01
14	5.00E-01	3.67E-02	1.89E-01	1.45E+00
15	-	-	-	-
16	5.90E+00	3.46E+00	1.78E+01	1.72E+01
17	-	-	-	-
18	-	-	-	-
19	1.30E+00	6.68E-01	3.44E+00	3.78E+00
20	-	-	-	-
21	5.60E+00	1.83E+00	9.44E+00	1.63E+01
22	4.80E+00	1.73E+00	8.93E+00	1.40E+01
23	4.30E+00	2.67E-01	1.37E+00	1.25E+01
24	-	-	-	-
25	-	-	-	-
26	-	-	-	-
27	-	-	-	-
28	5.10E+00	8.63E-02	4.45E-01	1.48E+01
29	3.90E+00	3.35E+00	1.72E+01	1.13E+01
30	-	-	-	-
31	-	-	-	-
32	-	-	-	-
33	-	-	-	-
34	-	-	-	-
35	-	-	-	-
36	-	-	-	-
37	-	-	-	-
38	-	-	-	-

Cr					Cu				
EVENT	Mg/l	lb	lb/mi	lb/mi/in	EVENT	Mg/l	lb	lb/mi	lb/mi/in
1	3.80E-02	2.62E-02	1.35E-01	1.10E-01	1	5.60E-02	3.86E-02	1.99E-01	1.63E-01
2	2.00E-03	8.69E-04	4.48E-03	5.81E-03	2	4.50E-02	1.96E-02	1.01E-01	1.31E-01
3	1.00E-03	1.99E-03	1.03E-02	2.91E-03	3	4.20E-02	8.37E-02	4.31E-01	1.22E-01
4	ND	ND	ND	ND	4	3.60E-02	9.35E-03	4.81E-02	1.05E-01
5	2.00E-03	3.27E-04	1.69E-03	5.81E-03	5	4.50E-02	7.36E-03	3.79E-02	1.31E-01
6	-	-	-	-	6	-	-	-	-
7	4.00E-03	3.61E-04	1.86E-03	1.16E-02	7	3.50E-02	3.16E-03	1.63E-02	1.02E-01
8	-	-	-	-	8	-	-	-	-
9	2.00E-03	5.76E-04	2.97E-03	5.81E-03	9	2.80E-02	8.06E-03	4.15E-02	8.14E-02
10	ND	ND	ND	ND	10	2.30E-02	1.56E-02	8.02E-02	6.69E-02
11	-	-	-	-	11	-	-	-	-
12	3.00E-03	2.03E-04	1.05E-03	8.72E-03	12	2.30E-02	1.56E-03	8.02E-03	6.69E-02
13	-	-	-	-	13	-	-	-	-
14	-	-	-	-	14	-	-	-	-
15	-	-	-	-	15	-	-	-	-
16	5.00E-03	2.93E-03	1.51E-02	1.45E-02	16	2.50E-02	1.47E-02	7.56E-02	7.27E-02
17	-	-	-	-	17	-	-	-	-
18	-	-	-	-	18	-	-	-	-
19	3.00E-03	1.54E-03	7.94E-03	8.72E-03	19	2.30E-02	1.18E-02	6.08E-02	6.69E-02
20	-	-	-	-	20	-	-	-	-
21	3.00E-03	9.82E-04	5.06E-03	8.72E-03	21	2.90E-02	9.49E-03	4.89E-02	8.43E-02
22	ND	ND	ND	ND	22	3.10E-02	1.12E-02	5.77E-02	9.01E-02
23	ND	ND	ND	ND	23	3.80E-02	2.36E-03	1.22E-02	1.10E-01
24	-	-	-	-	24	-	-	-	-
25	-	-	-	-	25	-	-	-	-
26	-	-	-	-	26	-	-	-	-
27	-	-	-	-	27	-	-	-	-
28	6.00E-03	1.02E-04	5.23E-04	1.74E-02	28	6.80E-02	1.15E-03	5.93E-03	1.98E-01
29	4.00E-03	3.43E-03	1.77E-02	1.16E-02	29	8.10E-02	6.95E-02	3.58E-01	2.35E-01
30	-	-	-	-	30	-	-	-	-
31	-	-	-	-	31	-	-	-	-
32	-	-	-	-	32	-	-	-	-
33	-	-	-	-	33	-	-	-	-
34	-	-	-	-	34	-	-	-	-
35	-	-	-	-	35	-	-	-	-
36	-	-	-	-	36	-	-	-	-
37	-	-	-	-	37	-	-	-	-
38	-	-	-	-	38	-	-	-	-

Cd					Ni				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	2.00E-03	1.38E-03	7.09E-03	5.81E-03	1	ND	ND	ND	ND
2	ND	ND	ND	ND	2	ND	ND	ND	ND
3	ND	ND	ND	ND	3	6.00E-03	1.20E-02	6.16E-02	1.74E-02
4	ND	ND	ND	ND	4	9.00E-03	2.34E-03	1.20E-02	2.62E-02
5	ND	ND	ND	ND	5	ND	ND	ND	ND
6	-	-	-	-	6	-	-	-	-
7	ND	ND	ND	ND	7	1.50E-02	1.35E-03	6.98E-03	4.36E-02
8	-	-	-	-	8	-	-	-	-
9	3.00E-03	8.63E-04	4.45E-03	8.72E-03	9	1.50E-02	4.32E-03	2.22E-02	4.36E-02
10	ND	ND	ND	ND	10	1.00E-02	6.77E-03	3.49E-02	2.91E-02
11	-	-	-	-	11	-	-	-	-
12	7.00E-03	4.74E-04	2.44E-03	2.03E-02	12	3.00E-02	2.03E-03	1.05E-02	8.72E-02
13	-	-	-	-	13	-	-	-	-
14	-	-	-	-	14	-	-	-	-
15	-	-	-	-	15	-	-	-	-
16	ND	ND	ND	ND	16	ND	ND	ND	ND
17	-	-	-	-	17	-	-	-	-
18	-	-	-	-	18	-	-	-	-
19	ND	ND	ND	ND	19	ND	ND	ND	ND
20	-	-	-	-	20	-	-	-	-
21	ND	ND	ND	ND	21	ND	ND	ND	ND
22	ND	ND	ND	ND	22	ND	ND	ND	ND
23	4.00E-03	2.48E-04	1.28E-03	1.16E-02	23	2.00E-02	1.24E-03	6.40E-03	5.81E-02
24	-	-	-	-	24	-	-	-	-
25	-	-	-	-	25	-	-	-	-
26	-	-	-	-	26	-	-	-	-
27	-	-	-	-	27	-	-	-	-
28	3.00E-03	5.08E-05	2.62E-04	8.72E-03	28	2.00E-02	3.39E-04	1.74E-03	5.81E-02
29	3.00E-03	2.57E-03	1.33E-02	8.72E-03	29	1.00E-02	8.58E-03	4.42E-02	2.91E-02
30	-	-	-	-	30	-	-	-	-
31	-	-	-	-	31	-	-	-	-
32	-	-	-	-	32	-	-	-	-
33	-	-	-	-	33	-	-	-	-
34	-	-	-	-	34	-	-	-	-
35	-	-	-	-	35	-	-	-	-
36	-	-	-	-	36	-	-	-	-
37	-	-	-	-	37	-	-	-	-
38	-	-	-	-	38	-	-	-	-

EVENT	Hg			
	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
11	-	-	-	-
12	-	-	-	-
13	-	-	-	-
14	-	-	-	-
15	-	-	-	-
16	-	-	-	-
17	-	-	-	-
18	-	-	-	-
19	-	-	-	-
20	-	-	-	-
21	-	-	-	-
22	ND	ND	ND	ND
23	-	-	-	-
24	-	-	-	-
25	-	-	-	-
26	-	-	-	-
27	-	-	-	-
28	-	-	-	-
29	-	-	-	-
30	-	-	-	-
31	-	-	-	-
32	-	-	-	-
33	-	-	-	-
34	-	-	-	-
35	-	-	-	-
36	-	-	-	-
37	-	-	-	-
38	-	-	-	-

EVENT	As			
	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
11	-	-	-	-
12	ND	ND	ND	ND
13	-	-	-	-
14	-	-	-	-
15	-	-	-	-
16	-	-	-	-
17	-	-	-	-
18	-	-	-	-
19	-	-	-	-
20	-	-	-	-
21	-	-	-	-
22	ND	ND	ND	ND
23	-	-	-	-
24	-	-	-	-
25	-	-	-	-
26	-	-	-	-
27	-	-	-	-
28	-	-	-	-
29	-	-	-	-
30	-	-	-	-
31	-	-	-	-
32	-	-	-	-
33	-	-	-	-
34	-	-	-	-
35	-	-	-	-
36	-	-	-	-
37	-	-	-	-
38	-	-	-	-

Cn					PD4-P				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	-	-	-	-	2	-	-	-	-
3	-	-	-	-	3	1.60E-01	3.19E-01	1.64E+00	4.65E-01
4	-	-	-	-	4	-	-	-	-
5	-	-	-	-	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	-	-	-	-	7	-	-	-	-
8	-	-	-	-	8	-	-	-	-
9	-	-	-	-	9	-	-	-	-
10	-	-	-	-	10	-	-	-	-
11	-	-	-	-	11	-	-	-	-
12	ND	ND	ND	ND	12	1.40E-01	9.48E-03	4.88E-02	4.07E-01
13	-	-	-	-	13	-	-	-	-
14	-	-	-	-	14	-	-	-	-
15	-	-	-	-	15	-	-	-	-
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	-	-	-	-	18	-	-	-	-
19	-	-	-	-	19	-	-	-	-
20	-	-	-	-	20	-	-	-	-
21	-	-	-	-	21	1.00E-01	3.27E-02	1.69E-01	2.91E-01
22	ND	ND	ND	ND	22	1.20E-01	4.33E-02	2.23E-01	3.49E-01
23	-	-	-	-	23	-	-	-	-
24	-	-	-	-	24	-	-	-	-
25	-	-	-	-	25	-	-	-	-
26	-	-	-	-	26	-	-	-	-
27	-	-	-	-	27	-	-	-	-
28	-	-	-	-	28	-	-	-	-
29	-	-	-	-	29	-	-	-	-
30	-	-	-	-	30	-	-	-	-
31	-	-	-	-	31	-	-	-	-
32	-	-	-	-	32	-	-	-	-
33	-	-	-	-	33	-	-	-	-
34	-	-	-	-	34	-	-	-	-
35	-	-	-	-	35	-	-	-	-
36	-	-	-	-	36	-	-	-	-
37	-	-	-	-	37	-	-	-	-
38	-	-	-	-	38	-	-	-	-

TKN					NO2 + NO3				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	-	-	-	-	2	-	-	-	-
3	1.18E+00	2.35E+00	1.21E+01	3.43E+00	3	8.00E-02	1.59E-01	8.21E-01	2.33E-01
4	-	-	-	-	4	-	-	-	-
5	-	-	-	-	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	-	-	-	-	7	-	-	-	-
8	-	-	-	-	8	-	-	-	-
9	-	-	-	-	9	-	-	-	-
10	-	-	-	-	10	-	-	-	-
11	-	-	-	-	11	-	-	-	-
12	8.00E+00	5.42E-01	2.79E+00	2.33E+01	12	2.40E-01	1.63E-02	8.37E-02	6.98E-01
13	-	-	-	-	13	-	-	-	-
14	-	-	-	-	14	-	-	-	-
15	-	-	-	-	15	-	-	-	-
16	-	-	-	-	16	-	-	-	-
17	-	-	-	-	17	-	-	-	-
18	-	-	-	-	18	-	-	-	-
19	-	-	-	-	19	-	-	-	-
20	-	-	-	-	20	-	-	-	-
21	2.00E+00	6.55E-01	3.37E+00	5.81E+00	21	ND	ND	ND	ND
22	2.00E+00	7.22E-01	3.72E+00	5.81E+00	22	4.50E-01	1.63E-01	8.37E-01	1.31E+00
23	-	-	-	-	23	-	-	-	-
24	-	-	-	-	24	-	-	-	-
25	-	-	-	-	25	-	-	-	-
26	-	-	-	-	26	-	-	-	-
27	-	-	-	-	27	-	-	-	-
28	-	-	-	-	28	-	-	-	-
29	-	-	-	-	29	-	-	-	-
30	-	-	-	-	30	-	-	-	-
31	-	-	-	-	31	-	-	-	-
32	-	-	-	-	32	-	-	-	-
33	-	-	-	-	33	-	-	-	-
34	-	-	-	-	34	-	-	-	-
35	-	-	-	-	35	-	-	-	-
36	-	-	-	-	36	-	-	-	-
37	-	-	-	-	37	-	-	-	-
38	-	-	-	-	38	-	-	-	-

Ca

EVENT	Mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
11	-	-	-	-
12	1.35E+02	9.14E+00	4.71E+01	3.92E+02
13	-	-	-	-
14	-	-	-	-
15	6.00E+00	1.32E+00	6.80E+00	1.74E+01
16	4.00E+00	2.35E+00	1.21E+01	1.16E+01
17	-	-	-	-
18	7.00E+00	7.11E-01	3.66E+00	2.03E+01
19	-	-	-	-
20	-	-	-	-
21	-	-	-	-
22	-	-	-	-
23	-	-	-	-
24	-	-	-	-
25	-	-	-	-
26	-	-	-	-
27	-	-	-	-
28	-	-	-	-
29	-	-	-	-
30	-	-	-	-
31	-	-	-	-
32	-	-	-	-
33	-	-	-	-
34	-	-	-	-
35	-	-	-	-
36	-	-	-	-
37	-	-	-	-
38	-	-	-	-

Na

EVENT	Mg/l	lb	lb/mi	lb/mi/in
1	4.50E+00	3.10E+00	1.60E+01	1.31E+01
2	-	-	-	-
3	2.11E+00	4.20E+00	2.17E+01	6.13E+00
4	-	-	-	-
5	9.00E+00	1.47E+00	7.59E+00	2.62E+01
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	4.00E+00	2.71E+00	1.40E+01	1.16E+01
11	3.10E+01	1.68E+01	8.65E+01	9.01E+01
12	1.03E+03	6.94E+01	3.58E+02	2.98E+03
13	4.20E+02	5.45E+01	2.81E+02	1.22E+03
14	2.60E+02	1.91E+01	9.83E+01	7.56E+02
15	2.50E+02	5.50E+01	2.83E+02	7.27E+02
16	4.20E+01	2.46E+01	1.27E+02	1.22E+02
17	4.80E+01	2.71E+00	1.40E+01	1.40E+02
18	4.10E+01	4.16E+00	2.15E+01	1.19E+02
19	-	-	-	-
20	-	-	-	-
21	-	-	-	-
22	1.50E+01	5.42E+00	2.79E+01	4.36E+01
23	-	-	-	-
24	-	-	-	-
25	-	-	-	-
26	-	-	-	-
27	-	-	-	-
28	-	-	-	-
29	-	-	-	-
30	-	-	-	-
31	-	-	-	-
32	-	-	-	-
33	-	-	-	-
34	-	-	-	-
35	-	-	-	-
36	-	-	-	-
37	-	-	-	-
38	-	-	-	-

C1					S04				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	8.00E+00	5.51E+00	2.84E+01	2.33E+01	1	1.20E+01	8.26E+00	4.26E+01	3.49E+01
2	-	-	-	-	2	-	-	-	-
3	5.00E+00	9.96E+00	5.13E+01	1.45E+01	3	5.00E+00	9.96E+00	5.13E+01	1.45E+01
4	-	-	-	-	4	-	-	-	-
5	2.00E+01	3.27E+00	1.69E+01	5.81E+01	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	-	-	-	-	7	-	-	-	-
8	-	-	-	-	8	-	-	-	-
9	-	-	-	-	9	-	-	-	-
10	2.00E+00	1.35E+00	6.98E+00	5.81E+00	10	-	-	-	-
11	1.02E+02	5.53E+01	2.85E+02	2.97E+02	11	-	-	-	-
12	2.25E+03	1.52E+02	7.85E+02	6.54E+03	12	2.40E+01	1.63E+00	8.37E+00	6.98E+01
13	8.70E+02	1.13E+02	5.82E+02	2.53E+03	13	-	-	-	-
14	5.94E+02	4.36E+01	2.24E+02	1.73E+03	14	-	-	-	-
15	6.38E+02	1.40E+02	7.23E+02	1.85E+03	15	-	-	-	-
16	7.80E+01	4.58E+01	2.36E+02	2.27E+02	16	-	-	-	-
17	8.60E+01	4.85E+00	2.50E+01	2.50E+02	17	-	-	-	-
18	6.50E+01	6.60E+00	3.40E+01	1.89E+02	18	-	-	-	-
19	-	-	-	-	19	-	-	-	-
20	-	-	-	-	20	-	-	-	-
21	-	-	-	-	21	-	-	-	-
22	1.60E+01	5.78E+00	2.98E+01	4.65E+01	22	8.00E+00	2.89E+00	1.49E+01	2.33E+01
23	-	-	-	-	23	-	-	-	-
24	-	-	-	-	24	-	-	-	-
25	-	-	-	-	25	-	-	-	-
26	-	-	-	-	26	-	-	-	-
27	-	-	-	-	27	-	-	-	-
28	-	-	-	-	28	-	-	-	-
29	-	-	-	-	29	-	-	-	-
30	-	-	-	-	30	-	-	-	-
31	-	-	-	-	31	-	-	-	-
32	-	-	-	-	32	-	-	-	-
33	-	-	-	-	33	-	-	-	-
34	-	-	-	-	34	-	-	-	-
35	-	-	-	-	35	-	-	-	-
36	-	-	-	-	36	-	-	-	-
37	-	-	-	-	37	-	-	-	-
38	-	-	-	-	38	-	-	-	-

O&G				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
11	-	-	-	-
12	-	-	-	-
13	-	-	-	-
14	-	-	-	-
15	-	-	-	-
16	-	-	-	-
17	-	-	-	-
18	-	-	-	-
19	-	-	-	-
20	-	-	-	-
21	-	-	-	-
22	-	-	-	-
23	-	-	-	-
24	-	-	-	-
25	-	-	-	-
26	-	-	-	-
27	-	-	-	-
28	3.00E+00	5.08E-02	2.62E-01	8.72E+00
29	1.00E+01	8.58E+00	4.42E+01	2.91E+01
30	1.00E+00	1.41E-01	7.27E-01	2.91E+00
31	1.10E+01	9.93E-01	5.12E+00	3.20E+01
32	-	-	-	-
33	-	-	-	-
34	-	-	-	-
35	-	-	-	-
36	-	-	-	-
37	-	-	-	-
38	3.00E+00	1.34E+00	6.89E+00	8.72E+00

APPENDIX C

UNPAVED RUNOFF

Quantity and quality of runoff from the paved (Appendix B), as well as the unpaved (Appendix C) area at each site (except the Efland site), was monitored at separate points in order to establish the overall fate of pollutants leaving the highway drainage system. Monitoring of the paved and unpaved areas was segregated to determine pollutant loadings leaving the highway drainage system and to develop insights into the hydraulics of pollutant movement and strengths at various points in the drainage scheme. The objective of monitoring unpaved runoff quality was to determine the contribution of the unpaved area to the total pollutant load leaving the paved highway surface and right-of-way areas.

Composite data was collected at each site to provide information on the total pollutant load leaving the highway system during a runoff event. As discussed in Appendix B (Paved Runoff) flow composite sample data was characterized using concentration (mg/l), loadings [lb/mi/event (kg/km/event)] and loadings normalized for runoff volume [lb/mi/in of runoff (kg/km/cm of runoff)]. Hydraulic data and composite quality data for quality monitored events at Milwaukee, Sacramento and Harrisburg are presented in Tables C-1 to C-3. Unpaved runoff was not segregated at the Efland site.

APPENDIX C
UNPAVED RUNOFF

TABLE C-1 Unpaved runoff flow and quality data - Milwaukee I-94

EVENT	DATE	RAINFALL,		RUNOFF,	Q/R	pH	TS			
		inches	inches				mg/l	lb	lb/mi	lb/mi/in
1	03/13/79	-	2.38E-02	-	-	7.10E+00	5.11E+02	7.44E+00	2.81E+01	1.18E+03
2	03/16/79	-	3.96E-03	-	-	-	-	-	-	-
3	03/30/79	3.90E-01	7.21E-04	1.85E-03	-	-	-	-	-	-
4	03/30/79	8.00E-01	5.83E-02	7.29E-02	7.30E+00	7.30E+00	5.74E+02	2.05E+01	7.73E+01	1.33E+03
5	04/11/79	1.22E+00	3.33E-02	2.73E-02	7.40E+00	7.40E+00	3.40E+02	6.93E+00	2.61E+01	7.85E+02
6	04/25/79	1.20E+00	2.02E-02	1.68E-02	6.90E+00	6.90E+00	4.71E+02	5.82E+00	2.20E+01	1.09E+03
7	01/11/80	-	8.16E-04	-	7.30E+00	7.30E+00	2.32E+02	1.16E-01	4.37E-01	5.36E+02
8	01/16/80	2.10E-01	1.06E-02	5.05E-02	6.90E+00	6.90E+00	2.75E+02	1.78E+00	6.73E+00	6.35E+02
9	02/22/80	1.40E-01	1.51E-02	1.08E-01	6.90E+00	6.90E+00	5.39E+02	4.98E+00	1.88E+01	1.24E+03
10	03/10/80	-	1.03E-02	-	7.30E+00	7.30E+00	1.12E+03	7.06E+00	2.66E+01	2.59E+03
11	03/14/80	-	4.87E-03	-	6.90E+00	6.90E+00	1.04E+03	3.10E+00	1.17E+01	2.40E+03
12	03/15/80	-	6.14E-03	-	7.00E+00	7.00E+00	5.54E+02	2.08E+00	7.85E+00	1.28E+03
13	03/16/80	-	1.35E-02	-	7.00E+00	7.00E+00	3.26E+02	2.69E+00	1.02E+01	7.53E+02

VTS

EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	1.74E+02	6.21E+00	2.34E+01	4.02E+02
5	6.20E+01	1.26E+00	4.77E+00	1.43E+02
6	2.00E+02	2.47E+00	9.33E+00	4.62E+02
7	-	-	-	-
8	1.23E+02	7.98E-01	3.01E+00	2.84E+02
9	1.15E+02	1.06E+00	4.01E+00	2.66E+02
10	1.35E+02	8.51E-01	3.21E+00	3.12E+02
11	1.25E+02	3.73E-01	1.41E+00	2.89E+02
12	8.30E+01	3.12E-01	1.18E+00	1.92E+02
13	7.70E+01	6.36E-01	2.40E+00	1.78E+02

SS

EVENT	mg/l	lb	lb/mi	lb/mi/in
1	1.70E+01	2.48E-01	9.34E-01	3.93E+01
2	-	-	-	-
3	-	-	-	-
4	5.40E+01	1.93E+00	7.27E+00	1.25E+02
5	3.00E+01	6.11E-01	2.31E+00	6.93E+01
6	1.90E+01	2.35E-01	8.86E-01	4.39E+01
7	1.00E+01	4.99E-03	1.88E-02	2.31E+01
8	2.00E+01	1.30E-01	4.90E-01	4.62E+01
9	1.30E+01	1.20E-01	4.53E-01	3.00E+01
10	2.60E+01	1.64E-01	6.10E-01	6.00E+01
11	2.80E+01	8.34E-02	3.15E-01	6.47E+01
12	2.80E+01	1.05E-01	3.97E-01	6.47E+01
13	1.40E+01	1.16E-01	4.36E-01	3.23E+01

VSS				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	2.60E+01	9.28E-01	3.50E+00	6.00E+01
5	8.00E+00	1.63E-01	6.15E-01	1.85E+01
6	4.00E+00	4.94E-02	1.87E-01	9.24E+00
7	-	-	-	-
8	7.00E+00	4.54E-02	1.71E-01	1.62E+01
9	7.00E+00	6.47E-02	2.44E-01	1.62E+01
10	1.40E+01	8.82E-02	3.33E-01	3.23E+01
11	1.70E+01	5.07E-02	1.91E-01	3.93E+01
12	1.80E+01	6.76E-02	2.55E-01	4.16E+01
13	1.00E+01	8.26E-02	3.12E-01	2.31E+01

TOC				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	1.60E+01	5.71E-01	2.15E+00	3.69E+01
5	1.40E+01	2.85E-01	1.08E+00	3.23E+01
6	-	-	-	-
7	-	-	-	-
8	2.20E+01	1.43E-01	5.30E-01	5.08E+01
9	6.00E+01	5.54E-01	2.09E+00	1.39E+02
10	4.00E+01	2.52E-01	9.51E-01	9.24E+01
11	-	-	-	-
12	-	-	-	-
13	-	-	-	-

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COD				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	5.10E+01	1.82E+00	6.87E+00	1.18E+02
5	3.90E+01	7.95E-01	3.00E+00	9.01E+01
6	-	-	-	-
7	-	-	-	-
8	6.40E+01	4.15E-01	1.57E+00	1.48E+02
9	4.20E+01	3.88E-01	1.46E+00	9.70E+01
10	1.20E+02	7.56E-01	2.85E+00	2.77E+02
11	-	-	-	-
12	-	-	-	-
13	-	-	-	-

Pb				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	ND	ND	ND	ND
2	-	-	-	-
3	-	-	-	-
4	2.00E-01	7.13E-03	2.69E-02	4.62E-01
5	1.00E-01	2.04E-03	7.69E-03	2.31E-01
6	ND	ND	ND	ND
7	2.00E-01	9.99E-05	3.77E-04	4.62E-01
8	ND	ND	ND	ND
9	2.00E-01	1.85E-03	6.97E-03	4.62E-01
10	2.00E-01	1.26E-03	4.76E-03	4.62E-01
11	1.00E-01	2.98E-04	1.12E-03	2.31E-01
12	4.00E-01	1.50E-03	5.67E-03	9.24E-01
13	1.00E-01	8.26E-04	3.12E-03	2.31E-01

Zn					Fe				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	5.00E-02	7.28E-04	2.75E-03	1.15E-01	1	1.00E-01	1.46E-03	5.50E-03	2.31E-01
2	-	-	-	-	2	-	-	-	-
3	-	-	-	-	3	-	-	-	-
4	1.40E-01	4.99E-03	1.88E-02	3.23E-01	4	2.90E+00	1.03E-01	3.90E-01	6.70E+00
5	2.20E-01	4.48E-03	1.69E-02	5.08E-01	5	5.70E+00	1.16E-01	4.38E-01	1.32E+01
6	9.00E-02	1.11E-03	4.20E-03	2.08E-01	6	1.10E+00	1.36E-02	5.13E-02	2.54E+00
7	1.40E-01	6.99E-05	2.64E-04	3.23E-01	7	9.00E-01	4.49E-04	1.70E-03	2.08E+00
8	4.00E-02	2.59E-04	9.79E-04	9.24E-02	8	3.60E-01	2.34E-03	8.81E-03	8.31E-01
9	1.50E-01	1.39E-03	5.23E-03	3.46E-01	9	6.00E-01	5.54E-03	2.09E-02	1.39E+00
10	1.00E-01	6.30E-04	2.38E-03	2.31E-01	10	9.00E-01	5.67E-03	2.14E-02	2.08E+00
11	2.10E-01	6.26E-04	2.36E-03	4.85E-01	11	9.00E-01	2.68E-03	1.01E-02	2.08E+00
12	1.90E-01	7.14E-04	2.69E-03	4.39E-01	12	1.50E+00	4.88E-03	1.84E-02	3.00E+00
13	1.80E-01	1.49E-03	5.61E-03	4.16E-01	13	9.00E-01	7.43E-03	2.81E-02	2.08E+00

Cr					Cu				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	2.00E-02	2.91E-04	1.10E-03	4.62E-02	1	2.00E-02	2.91E-04	1.10E-03	4.62E-02
2	-	-	-	-	2	-	-	-	-
3	-	-	-	-	3	-	-	-	-
4	5.00E-02	1.07E-03	4.04E-03	6.93E-02	4	5.00E-02	1.78E-03	6.73E-03	1.15E-01
5	3.00E-02	6.11E-04	2.31E-03	6.93E-02	5	1.40E-01	2.85E-03	1.08E-02	3.23E-01
6	ND	ND	ND	ND	6	4.00E-02	4.94E-04	1.87E-03	9.24E-02
7	3.00E-02	1.50E-05	5.65E-05	6.93E-02	7	2.00E-01	9.99E-05	3.77E-04	4.62E-01
8	ND	ND	ND	ND	8	5.00E-02	3.24E-04	1.22E-03	1.15E-01
9	ND	ND	ND	ND	9	9.00E-02	8.32E-04	3.14E-03	2.08E-01
10	4.00E-02	2.52E-04	9.51E-04	9.24E-02	10	2.50E-01	1.58E-03	5.95E-03	5.77E-01
11	ND	ND	ND	ND	11	1.70E-01	5.07E-04	1.91E-03	3.93E-01
12	ND	ND	ND	ND	12	1.50E-01	5.64E-04	2.13E-03	3.46E-01
13	ND	ND	ND	ND	13	1.70E-01	1.40E-03	5.30E-03	3.93E-01

Cd

EVENT	mg/l	lb	lb/mi	lb/mi/in
1	ND	ND	ND	ND
2	-	-	-	-
3	-	-	-	-
4	ND	ND	ND	ND
5	ND	ND	ND	ND
6	2.00E-02	2.47E-04	9.33E-04	4.62E-02
7	3.00E-02	1.50E-05	5.65E-05	6.93E-02
8	ND	ND	ND	ND
9	2.00E-02	1.85E-04	6.97E-04	4.62E-02
10	ND	ND	ND	ND
11	ND	ND	ND	ND
12	ND	ND	ND	ND
13	ND	ND	ND	ND

Ni

EVENT	mg/l	lb	lb/mi	lb/mi/in
1	ND	ND	ND	ND
2	-	-	-	-
3	-	-	-	-
4	ND	ND	ND	ND
5	-	-	-	-
6	-	-	-	-
7	2.00E-01	9.99E-05	3.77E-04	4.62E-01
8	ND	ND	ND	ND
9	ND	ND	ND	ND
10	2.00E-01	1.26E-03	4.76E-03	4.62E-01
11	ND	ND	ND	ND
12	ND	ND	ND	ND
13	ND	ND	ND	ND

Hg

EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	ND	ND	ND	ND
5	7.50E-04	1.53E-05	5.77E-05	1.73E-03
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	ND	ND	ND	ND
10	-	-	-	-
11	-	-	-	-
12	-	-	-	-
13	-	-	-	-

PO4-P

EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	5.20E-01	1.86E-02	7.00E-02	1.20E+00
5	8.50E-01	1.73E-02	6.54E-02	1.96E+00
6	6.10E-01	7.54E-03	2.85E-02	1.41E+00
7	5.50E-01	2.75E-04	1.04E-03	1.27E+00
8	4.80E-01	3.11E-03	1.17E-02	1.11E+00
9	4.90E-01	4.53E-03	1.71E-02	1.13E+00
10	6.80E-01	4.29E-03	1.62E-02	1.57E+00
11	7.30E-01	2.18E-03	8.21E-03	1.69E+00
12	6.90E-01	2.59E-03	9.78E-03	1.59E+00
13	6.00E-01	4.96E-03	1.87E-02	1.39E+00

TKN				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	3.20E+00	1.14E-01	4.31E-01	7.39E+00
5	2.60E+00	5.30E-02	2.00E-01	6.00E+00
6	-	-	-	-
7	-	-	-	-
8	1.10E+00	7.13E-03	2.69E-02	2.54E+00
9	4.00E+00	3.70E-02	1.39E-01	9.24E+00
10	5.00E+00	3.15E-02	1.19E-01	1.15E+01
11	5.00E+00	1.49E-02	5.62E-02	1.15E+01
12	2.80E+00	1.05E-02	3.97E-02	6.47E+00
13	2.20E+00	1.82E-02	6.86E-02	5.08E+00

NO2 + NO3				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	5.30E-01	1.89E-02	7.13E-02	1.22E+00
5	4.00E-01	8.15E-03	3.08E-02	9.24E-01
6	1.00E-01	1.24E-03	4.66E-03	2.31E-01
7	1.60E-01	7.99E-05	3.01E-04	3.69E-01
8	1.70E-01	1.10E-03	4.16E-03	3.93E-01
9	1.20E+00	1.11E-02	4.18E-02	2.77E+00
10	1.20E+00	7.56E-03	2.85E-02	2.77E+00
11	1.79E+00	5.33E-03	2.01E-02	4.13E+00
12	6.10E-01	2.29E-03	8.65E-03	1.41E+00
13	9.00E-02	7.43E-04	2.81E-03	2.08E-01

Cl				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	1.48E+02	2.16E+00	8.13E+00	3.42E+02
2	2.50E+01	6.06E-02	2.29E-01	5.77E+01
3	1.05E+02	4.63E-02	1.75E-01	2.42E+02
4	1.70E+02	6.06E+00	2.29E+01	3.93E+02
5	1.07E+02	2.18E+00	8.23E+00	2.47E+02
6	1.20E+02	1.48E+00	5.60E+00	2.77E+02
7	8.60E+01	4.29E-02	1.62E-01	1.99E+02
8	1.12E+02	7.26E-01	2.74E+00	2.59E+02
9	1.80E+02	1.66E+00	6.28E+00	4.16E+02
10	6.00E+02	3.78E+00	1.43E+01	1.39E+03
11	4.56E+02	1.36E+00	5.13E+00	1.05E+03
12	2.66E+02	9.99E-01	3.77E+00	6.14E+02
13	1.10E+02	9.09E-01	3.43E+00	2.54E+02

Na				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	6.00E+01	2.14E+00	8.08E+00	1.39E+02
5	4.20E+01	8.56E-01	3.23E+00	9.70E+01
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	2.20E+02	2.03E+00	7.67E+00	5.08E+02
10	6.70E+02	4.22E+00	1.59E+01	1.55E+03
11	-	-	-	-
12	-	-	-	-
13	-	-	-	-

Ca					SO4				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	-	-	-	-	2	-	-	-	-
3	-	-	-	-	3	-	-	-	-
4	1.60E+01	5.71E-01	2.15E+00	3.69E+01	4	-	-	-	-
5	1.20E+01	2.45E-01	9.23E-01	2.77E+01	5	-	-	-	-
6	-	-	-	-	6	-	-	-	-
7	-	-	-	-	7	-	-	-	-
8	-	-	-	-	8	3.20E+01	2.08E-01	7.83E-01	7.39E+01
9	5.00E+00	4.62E-02	1.74E-01	1.15E+01	9	3.60E+01	3.33E-01	1.26E+00	8.31E+01
10	9.00E+01	5.67E-01	2.14E+00	2.08E+02	10	4.50E+01	2.84E-01	1.07E+00	1.04E+02
11	-	-	-	-	11	4.30E+01	1.28E-01	4.84E-01	9.93E+01
12	-	-	-	-	12	2.80E+01	1.05E-01	3.97E-01	6.47E+01
13	-	-	-	-	13	1.90E+01	1.57E-01	5.92E-01	4.39E+01

O & G				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	4.00E+00	1.43E-01	5.38E-01	9.24E+00
5	ND	ND	ND	ND
6	-	-	-	-
7	-	-	-	-
8	ND	ND	ND	ND
9	ND	ND	ND	ND
10	1.00E+00	6.30E-03	2.38E-02	2.31E+00
11	-	-	-	-
12	4.00E+00	1.50E-02	5.67E-02	9.24E+00
13	4.00E+00	3.30E-02	1.25E-01	9.24E+00

APPENDIX C
UNPAVED RUNOFF

TABLE C-2 Unpaved runoff flow and quality data - Sacramento Hwy 50

EVENT	DATE	RAINFALL, inches	RUNOFF, inches	Q/R	pH	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	02/19/80	1.62E+00	1.50E-01	9.26E-02	6.90E+00	1	1.98E+02	2.96E+00	2.24E+01	1.49E+02
VTS						SS				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in	
1	5.40E+01	8.08E-01	6.10E+00	4.06E+01	1	1.12E+02	1.68E+00	1.26E+01	8.43E+01	
VSS						TOC				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in	
1	1.90E+01	2.84E-01	2.14E+00	1.43E+01	1	2.00E+01	4.19E-01	3.16E+00	2.11E+01	
COD						Pb				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in	
1	4.60E+01	6.88E-01	5.19E+00	3.46E+01	1	2.00E-01	2.99E-03	2.26E-02	1.51E-01	
Zn						Fe				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in	
1	1.50E-01	2.24E-03	1.69E-02	1.13E-01	1	1.02E+01	1.53E-01	1.15E+00	7.68E+00	
Cr						Cu				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in	
1	ND	ND	ND	ND	1	ND	ND	ND	ND	
Cd						Ni				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in	
1	ND	ND	ND	ND	1	2.00E-01	2.99E-03	2.26E-02	1.51E-01	

Hg				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	ND	ND	ND	ND

PO4-P				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	9.80E-01	1.47E-02	1.11E-01	7.38E-01

TKN				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	2.00E+00	2.99E-02	2.26E-01	1.51E+00

NO2 + NO3				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	ND	ND	ND	ND

Cl				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	5.00E+00	7.48E-02	5.64E-01	3.76E+00

SO4				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	3.00E+00	4.49E-02	3.39E-01	2.26E+00

pH				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	6.90E+00	1.03E-01	7.79E-01	5.19E+00

APPENDIX C
UNPAVED RUNOFF

TABLE C-3 Unpaved runoff flow and quality data - Harrisburg I-81

EVENT	DATE	RAINFALL,		RUNOFF,		Q/R	pH	TS				
		inches	inches	inches	inches			EVENT	mg/l	lb	lb/mi	lb/mi/in
1	07/21/80	2.02E+00	1.60E-02	7.92E-03	7.10E+00			1	9.80E+03	2.22E+02	1.74E+03	1.09E+05
2	11/24/80	1.97E+00	8.38E-01	4.25E-01	6.40E+00			2	1.30E+02	2.39E+01	1.88E+02	2.24E+02
3	02/01/81	1.37E+00	8.80E-02	6.42E-02	7.30E+00			3	5.24E+02	1.60E+01	1.26E+02	1.43E+03
4	02/10/81	1.58E+00	5.72E-01	3.62E-01	7.40E+00			4	7.24E+02	9.26E+01	7.27E+02	1.27E+03
5	02/20/81	1.02E+00	4.00E-03	3.92E-03	7.30E+00			5	3.87E+02	1.60E+00	1.26E+01	3.14E+03

EVENT	VTS				EVENT	SS			
	mg/l	lb	lb/mi	lb/mi/in		mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	8.49E+03	1.93E+02	1.51E+03	9.44E+04
2	7.40E+01	1.36E+01	1.07E+02	1.28E+02	2	2.80E+01	5.16E+00	4.04E+01	4.83E+01
3	-	-	-	-	3	2.31E+02	7.06E+00	5.54E+01	6.29E+02
4	-	-	-	-	4	2.99E+02	3.83E+01	3.00E+02	5.25E+02
5	1.32E+02	5.47E-01	4.29E+00	1.07E+03	5	1.60E+02	6.63E-01	5.20E+00	1.30E+03

T6

VSS					TOC				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	-	-	-	-
2	7.00E+00	1.29E+00	1.01E+01	1.21E+01	2	1.20E+01	2.21E+00	1.73E+01	2.07E+01
3	-	-	-	-	3	-	-	-	-
4	-	-	-	-	4	-	-	-	-
5	3.40E+01	1.41E-01	1.10E+00	2.76E+02	5	-	-	-	-

COD					Pb				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-	1	1.00E-01	2.27E-03	1.78E-02	1.11E+00
2	1.60E+01	2.95E+00	2.31E+01	2.76E+01	2	ND	ND	ND	ND
3	-	-	-	-	3	1.00E-01	3.06E-03	2.40E-02	2.72E-01
4	-	-	-	-	4	6.00E-02	7.68E-03	6.02E-02	1.05E-01
5	-	-	-	-	5	ND	ND	ND	ND

Zn					Fe				
EVENT	mg/l	lb	lb/mi	lb/mi/in	EVENT	mg/l	lb	lb/mi	lb/mi/in
1	7.10E-01	1.61E-02	1.26E-01	7.89E+00	1	1.50E+02	3.40E+00	2.67E+01	1.67E+03
2	1.40E-01	2.58E-02	2.02E-01	2.41E-01	2	9.00E-01	1.66E-01	1.30E+00	1.55E+00
3	1.90E-01	5.81E-03	4.55E-02	5.18E-01	3	8.40E+00	2.57E-01	2.01E+00	2.29E+01
4	1.40E-01	1.79E-02	1.41E-01	2.46E-01	4	9.00E+00	1.15E+00	9.03E+00	1.58E+01
5	3.10E-01	1.28E-03	1.01E-02	2.52E+00	5	3.30E+00	1.37E-02	1.07E-01	2.68E+01

Cr				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	1.80E-01	4.08E-03	3.20E-02	2.00E+00
2	ND	ND	ND	ND
3	-	-	-	-
4	-	-	-	-
5	ND	ND	ND	ND

Cu				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	2.00E-01	4.54E-03	3.56E-02	2.22E+00
2	5.00E-02	9.21E-03	7.22E-02	8.62E-02
3	-	-	-	-
4	-	-	-	-
5	7.00E-02	2.90E-04	2.27E-03	5.68E-01

Cd				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	ND	ND	ND	ND
2	3.00E-02	5.52E-03	4.33E-02	5.17E-02
3	-	-	-	-
4	-	-	-	-
5	2.00E-02	8.28E-05	6.50E-04	1.62E-01

Ni				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	2.00E-01	4.54E-03	3.56E-02	2.22E+00
2	ND	ND	ND	ND
3	-	-	-	-
4	-	-	-	-
5	ND	ND	ND	ND

Hg				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	ND	ND	ND	ND
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-

As				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	ND	ND	ND	ND
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-

PO4-P				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	2.00E+00	4.54E-02	3.56E-01	2.22E+01
2	3.20E-01	5.89E-02	4.62E-01	5.52E-01
3	-	-	-	-
4	-	-	-	-
5	2.00E-01	8.28E-04	6.50E-03	1.62E+00

TKN				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	1.23E+01	2.79E-01	2.19E+00	1.37E+02
2	1.26E+00	2.32E-01	1.82E+00	2.17E+00
3	-	-	-	-
4	-	-	-	-
5	2.60E+00	1.08E-02	8.44E-02	2.11E+01

NO2 + NO3				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	4.60E+00	1.04E-01	8.18E-01	5.11E+01
2	3.43E+00	6.32E-01	4.95E+00	5.91E+00
3	-	-	-	-
4	-	-	-	-
5	6.55E+00	2.71E-02	2.13E-01	5.32E+01

Cl				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	1.20E+01	2.21E+00	1.73E+01	2.07E+01
3	-	-	-	-
4	-	-	-	-
5	5.10E+01	2.11E-01	1.66E+00	4.14E+02

Na				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	5.00E+00	9.21E-01	7.22E+00	8.62E+00
3	-	-	-	-
4	-	-	-	-
5	2.00E+01	8.28E-02	6.50E-01	1.62E+02

Ca				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	4.00E+00	7.37E-01	5.78E+00	6.89E+00
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-

SO4				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	8.00E+00	1.47E+00	1.16E+01	1.38E+01
3	-	-	-	-
4	-	-	-	-
5	1.40E+01	5.80E-02	4.55E-01	1.14E+02

O & G				
EVENT	mg/l	lb	lb/mi	lb/mi/in
1	-	-	-	-
2	1.00E+00	1.84E-01	1.44E+00	1.72E+00
3	-	-	-	-
4	ND	ND	ND	ND
5	-	-	-	-

APPENDIX D

RESULTS OF SWEEPING/FLUSHING STUDIES

In order to understand the processes of highway pollutant deposition and removal, it was necessary to characterize highway surface pollutants. Sweeping/flushing studies were performed to define highway surface pollutant load and composition. Dry solids obtained by sweeping the highway surface were passed through a U.S.A. No. 6 sieve (3.35mm). Particles larger than 3.35mm were defined as litter and particles less than 3.35mm were defined as total solids. Constituent analyses were performed on the total solids fraction and flush liquid sample. Gross material was the very large items on the highway surface which could be picked up by hand. Surface constituent loadings at all four sites are presented in Tables D-1 to D-4. Loading values are presented as pounds per highway mile (both directions).

Table D-1. Surface constituent loadings at the Milwaukee I-94 site -
lb/highway mile^a.

Date	Gross ^b material	Litter ^c	TS ^d	TSS	BOD ₅	TOC	COD	Pb	Zn	Fe	Cr	Cu	Cd
<u>1978</u>													
September 26	890	1560	4160	161	9.81	51.2	130	25.5	1.86	303	0.340	2.24	0.022
October 31	258	1640	3580	146	NA	38.4	106	26.4	2.95	249	0.128	1.01	0.017
<u>1979</u>													
April 17	1900	13400	64200	4530	NA	1140	3660	166	45.9	3060	3.33	14.5	0.320
May 23	858	1840	9940	347	NA	93.6	258	28.0	7.30	630	0.418	1.94	0.040
July 24	956	3460	7590	565	NA	NA	NA	36.6	7.86	726	0.726	2.22	0.038
August 16 ^e	112	5820	12300	6550	NA	124	386	41.6	10.0	980	5.46	5.89	0.116
September 24	231	3170	10200	1010	NA	NA	NA	31.3	7.98	880	0.742	0.332	0.072
October 16	232	746	2440	183	NA	NA	NA	3.64	1.75	12.5	0.026	0.138	0.008
<u>1980</u>													
April 17	1520	11100	66400	2920	NA	124	2390	293	96.1	4290	4.78	36.1	0.426
May 21	149	1490	8160	396	NA	NA	NA	58.7	14.0	966	1.47	3.59	0.202
June 17	457	1490	7090	308	8.49	25.1	218	24.8	6.96	629	0.526	1.82	0.038
<u>1981</u>													
May 19-20	1070	4860	36100	1420	NA	NA	NA	109	33.1	3290	4.42	15.9	0.209
August 19-20	182	2410	10600	412	NA	NA	NA	32.8	10.0	1040	0.788	4.72	0.052
November 3-4	548	4010	10500	553	NA	NA	NA	31.7	9.44	662	0.334	4.15	0.046

^aBoth directions.

(continued)

^bGross material is defined as very large litter which can be picked up by hand (hub caps, tire fragments, etc.).

^cLitter is defined as particles larger than 3.35 mm not including gross material.

^dTotal solids are defined as particles less than 3.35 mm.

^eFuel oil spill on August 10, 1979, 500 lb of oil dry applied to spill in test area.

NA = No analysis performed.

Metric units: To convert lb/mi to kg/km multiply by 0.2819.

Table D-1. Surface constituent loadings at the Milwaukee I-94 site -
lb/highway mile^a
(continued).

Date	Ni	As	Hg	NO ₂ +NO ₃	TKN	PO ₄	Ca	Na	Cl	Sulphate	Oil & grease	Rubber	PCB
<u>1978</u>													
September 26	0.318	0.013	0.0002	0.320	2.13	1.43	NA	NA	12.8	NA	18.0	NA	NA
October 31	0.250	0.004	0.001	0.061	1.64	1.24	NA	NA	20.5	NA	20.2	62.0	NA
<u>1979</u>													
April 17	3.97	0.044	0.0001	0.196	36.8	13.9	4130	51.2	52.2	NA	730	648	NA
May 23	0.592	0.004	0.0001	0.120	3.13	1.02	666	6.35	10.1	NA	58.4	NA	NA
July 24	0.424	NA	NA	0.282	4.10	2.28	NA	NA	NA	NA	NA	144	NA
August 16 ^e	0.576	0.004	0.000	0.156	14.4	2.84	NA	NA	25.1	9.93	176	NA	NA
September 24	0.924	NA	NA	0.318	4.86	1.64	NA	NA	NA	14.9	61.2	NA	NA
October 16	0.032	NA	NA	0.214	1.45	1.19	NA	NA	27.7	5.92	28.4	116	NA
<u>1980</u>													
April 17	4.83	NA	0.0002	0.110	27.6	23.7	NA	110	91.4	16.8	622	NA	NA
May 21	0.902	NA	NA	0.088	4.14	4.33	NA	NA	4.84	NA	41.0	NA	NA
June 17	0.388	0.034	0.0004	0.188	2.07	2.05	NA	24.1	23.9	6.36	27.6	60.7	NA
<u>1981</u>													
May 19-20	6.05	NA	NA	0.128	9.30	13.2	2200	24.3	7.28	10.8	NA	NA	NA
August 19-20	0.696	NA	NA	0.050	2.94	3.21	729	7.52	4.75	3.82	56.9	NA	0.002
November 3-4	0.396	NA	NA	0.162	4.99	4.51	NA	NA	NA	NA	NA	NA	NA

^aBoth directions.

NA = No analysis performed.

Metric units: To convert lb/mi to kg/km multiply by 0.2819.

Table D-2. Surface constituent loadings at the Sacramento Hwy. 50 site -
lb/highway mile^a.

Date	Gross material ^b	Litter ^c	TS ^d	VTS	BOD ₅	TOC	COD	Pb	Zn	Fe	Cr	Cu
<u>1979</u>												
December 12	26.0	379	374	36.4	1.43	12.1	56.8	2.23	0.342	13.7	0.075	0.040
<u>1980</u>												
March 27	ND	197	433	22.0	NA	7.04	26.7	0.914	0.158	13.8	0.026	0.032
July 23	214	309	349	25.5	NA	5.98	16.5	1.25	0.202	9.7	0.028	0.034
October 22	ND	93.2	282	22.4	NA	9.76	35.0	1.33	0.198	12.2	0.042	0.040

(continued)

^aBoth directions.

^bGross material is defined as very large litter which can be picked up by hand (hub caps, tire fragments, etc.).

^cLitter is defined as particles larger than 3.35 mm not including gross material.

^dTotal solids are defined as particles less than 3.35 mm.

NA = No analysis performed.

ND = Not detectable.

Metric units: To convert lb/mi to kg/km multiply by 0.2819.

Table D-2. Surface constituent loadings at the Sacramento Hwy. 50 site -
 lb/highway mile^a
 (continued).

Date	Cd	Ni	As	Hg	NO ₂ +NO ₃	TKN	TP	Ca	Na	Cl	Sulphate	Oil & grease	Rubber
<u>1979</u>													
December 12	0.002	0.024	0.004	0.00002	0.176	0.730	0.176	5.74	0.934	1.82	6.04	4.09	43.0
<u>1980</u>													
March 27	0.0005	0.008	NA	0.00002	0.018	0.366	0.220	NA	0.264	0.408	0.542	0.866	NA
July 23	0.001	0.022	0.0002	0.00001	0.166	0.528	0.228	0.694	0.364	0.944	1.38	0.720	NA
October 22	0.001	0.026	NA	NA	0.108	0.460	0.196	4.85	0.522	0.516	1.02	1.23	NA

^aBoth directions.

NA = No analysis performed.

Metric units: To convert lb/mi to kg/km multiply by 0.2819.

Table D-3. Surface constituent loadings at the Harrisburg I-81 site -
 lb/highway mi^a.
 (continued)

Date	Cd	Ni	As	Hg	NO ₂ +NO ₃	TKN	TP	Ca	Na	Cl	Sulphate	Oil & grease	Rubber
<u>1980</u>													
May 28	0.0009	0.012	ND	ND	0.138	0.348	0.022	3.32	0.720	1.44	2.45	0.614	1.38
September 17	0.0006	0.006	NA	NA	0.316	0.296	0.024	NA	0.899	1.76	2.80	1.72	NA

^aBoth directions.

NA = No analysis performed.

ND = Not detectable.

Metric units: To convert lb/mi to kg/km multiply by 0.2819.

Table D-3. Surface constituent loadings at the Harrisburg I-81 site -
lb/highway mi^a.

Date	Gross material ^b	Litter ^c	TS ^d	VTS	BOD5	TOC	COD	Pb	Zn	Fe	Cr	Cu
<u>1980</u>												
May 28	31.6	2.46	40.0	12.6	NA	3.77	8.11	0.056	0.042	0.532	0.004	0.010
September 17	75.8	4.98	32.9	12.3	NA	NA	NA	0.032	0.054	0.324	0.002	0.006

(continued)

^aBoth directions.

^bGross material is defined as very large litter which can be picked up by hand (hub caps, tire fragment, etc.).

^cLitter is defined as particles larger than 3.35 mm not including gross material.

^dTotal solids are defined as particles less than 3.35 mm.

NA = No analysis performed.

ND = Not detectable

Metric units: To convert lb/mi to kg/km multiply by 0.2819.

Table D-4. Surface constituent loadings at the Efland I-85 site - lb/highway mile.^a

Date	Gross ^b matl	Litter ^c	TS ^d	VTS	BOD ₅	TOC	COD	Pb	Zn	Fe	Cr	Cu
<u>1981</u>												
June 30	3.86	5550	40.5	11.5	1.34	4.28	14.3	0.100	0.058	0.722	0.005	0.007
September 24	31.7	7090	1940	122	NA	NA	NA	1.90	0.646	41.6	0.036	0.112
December 3	747	1910	240	23.8	NA	NA	NA	0.314	0.102	5.86	0.007	0.020
<u>1982</u>												
April 22	113	1600	44.7	7.24	NA	NA	NA	0.058	0.024	0.760	0.002	0.004

(continued)

^a Both directions

^b Gross material is defined as very large litter which can be picked up by hand (hub caps, tire fragments, etc.)

^c Litter is defined as particles less than 3.35 mm.

^d Total solids are defined as particles less than 3.35 mm

NA = No analysis performed.

ND = Not detectable.

Metric units: To convert lb/mi to kg/km multiply by 0.2819.

Table D-4. Surface constituent loadings at the Efland I-85 site -
lb/highway mile^a (continued).

Date	Cd	Ni	As	Hg	NO ₂ +NO ₃	TKN	PO ₄	Ca	Na	Cl	Sul- fate	Oil & grease	Rub- ber
<u>1981</u>													
June 30	0.003	0.006	ND	ND	0.064	0.226	0.042	0.414	0.570	0.794	0.854	0.478	1.27
September 24	0.004	0.030	NA	NA	0.046	1.36	1.18	NA	0.394	0.862	0.688	NA	NA
December 3	0.002	0.002	NA	NA	0.044	1.31	0.196	NA	0.400	0.646	NA	NA	NA
<u>1982</u>													
April 22	0.0002	0.002	NA	NA	0.042	0.194	0.052	NA	0.624	1.00	NA	0.690	NA

^a Both directions.

^b Gross material is defined as very large litter which can be picked up by hand (hub caps, tire fragments, etc.).

^c Litter is defined as particles larger than 3.35 mm not including gross material.

^d Total solids are defined as particles less than 3.35 mm.

NA = No analysis performed.

ND = Not detectable

Metric units: To convert lb/mi to kg/km multiply by 0.2819.

APPENDIX E

COMMERCIAL SWEEPING DATA

At the Milwaukee I-94 site (urban, curb and gutter drainage design) the highway surface is normally swept six to eight times per year (once per month during nonwinter conditions), while at the Sacramento Hwy. 50 site (urban, flush shoulder drainage design) the highway surface is swept only if the paved surface is extremely dirty (at most once per year). Commercially sweeping the highway pavement was not a maintenance practice performed at the Harrisburg I-80 and Efland I-85 sites (rural, flush shoulder drainage design). Data obtained from the Milwaukee and Sacramento sites are presented in Table E-1.

APPENDIX E
COMMERCIAL SWEEPING DATA

Table E-1. Surface load removal by commercial sweeping at the
Milwaukee I-94 and Sacramento Hwy. 50 sites -
lb/highway mile^a.

Site	Date	Gross material ^b	Litter ^c	TS ^d	VTS	TOC	COD	Pb	Zn	Fe	Cr	Cu	Cd	
Milwaukee I-94	<u>1978</u>													
	November 17	491	882	5010	290	22.8	66.0	31.1	3.46	450	0.580	1.01	0.034	
	<u>1979</u>													
	April 5 ^e	454	1680	5370	188	59.6	141	21.0	2.56	2.86	0.232	1.14	0.026	
	April 17 ^f	851	3140	10100	739	64.4	223	24.2	7.17	514	0.392	1.57	0.448	
	May 23	776	1380	9220	260	34.9	125	21.9	6.28	478	0.374	1.43	0.024	
	October 9	969	1720	12500	713	82.2	331	81.8	13.9	371	0.094	3.95	0.052	
Milwaukee I-94	<u>1980</u>													
	April 17	383	5810	19500	816	13.2	466	39.3	12.7	858	1.12	4.16	0.072	
	May 21	149	1350	6050	263	NA	NA	28.3	7.09	676	0.662	2.65	0.048	
Sacramento Hwy. 50	<u>1980</u>													
	March 21	ND	263	429	10.8	1.00	7.29	1.00	0.117	12.4	0.021	0.021	0.000	

(continued)

^aBoth directions.

^bGross material is defined as very large litter which can be picked up by hand (hub caps, tire fragments, etc.).

^cLitter is defined as particles larger than 3.35 mm not including gross material.

^dTotal solids are defined as particles less than 3.35 mm.

^eDistress lane only.

^fMedian lane only.

NA = No analysis performed

ND = Not detectable

Metric units: To convert lb/mi to kg/km multiply by 0.2819.

Table E-1. Surface load removal by commercial sweeping at the Milwaukee I-94 and Sacramento Hwy. 50 sites - lb/highway mile^a (continued).

Site	Date	Ni	As	Hg	NO ₂ +NO ₃	TKN	TP	Ca	Na	Cl	Sulphate	Oil & grease	Rubber
Milwaukee I-94	<u>1978</u>												
	November 17	0.358	0.003	NA	ND	2.50	41.9	NA	NA	15.2	NA	NA	NA
	<u>1979</u>												
	April 5 ^e	NA	NA	NA	0.008	4.80	1.49	NA	0.248	0.918	NA	NA	NA
	April 17 ^f	0.560	0.000	0.000	0.056	2.35	1.74	745	4.42	5.38	NA	46.6	55.3
	May 23	0.518	0.003	0.000	0.018	1.50	0.434	698	2.36	3.46	NA	49.9	NA
	October 9	0.728	NA	NA	0.010	7.59	6.44	NA	NA	47.3	11.7	80.7	NA
	<u>1980</u>												
April 17	0.688	NA	0.000	0.008	4.49	5.83	NA	31.4	32.5	6.63	118	NA	
May 21	0.826	NA	NA	0.014	2.67	2.17	NA	NA	1.37	NA	26.4	NA	
Sacramento Hwy. 50	<u>1980</u>												
	March 21	0.020	NA	0.000	0.001	0.092	0.231	NA	0.050	0.082	0.067	1.72	NA

^aBoth directions.

^eDistress lane only.

^fMedian lane only.

NA = No analysis performed.

ND = Not detectable.

Metric units: To convert lb/mi to kg/km multiply by 0.2819.

APPENDIX F

DAILY VALUES FOR TS₂₅₀ MASS BALANCE COMPONENTS

Pollutants which accumulate on highway surfaces originate from highway use, maintenance and ambient atmospheric deposition. Pollutants accumulate on the highway surface between major removal events, such as runoff and highway sweeping when deposition exceeds removal rates. One of the objectives of this study is to quantify the deposition, accumulation and removal processes, providing the necessary information to evaluate abatement and/or control measures for objectionable constituents.

To meet this objective and to facilitate interpretation of the data collected as part of the field monitoring effort and literature search, a mass balance for selected pollutants associated with the paved highway surface load was performed for two of the sites monitored; Milwaukee I-94 and Efland I-85. The results of the computerized mass balance for TS₂₅₀ (total solids less than 250 microns) at Milwaukee and Efland are presented in Tables F-1, F-2 and F-3. The mass balance is organized into the three major components; deposition, highway surface load and removal.

Table F-1.

TS250 MASS BALANCE DATA FOR THE MILWAUKEE I-94 SITE - APRIL 17 THROUGH OCTOBER 31, 1979

Date	Daily Surface Load, lb/mi		Monitored Surface Load, lb/mi	Removal Processes			Deposition Processes	
	Begin	End		Runoff, lb/mi	Sweeper, lb/mi	Atmospheric, lb/mi	Atmospheric, lb/mi	Vehicular, lb/mi
4/17	3662	3657	-	*	*	-35	30	132
4/18	3789	3783	-	*	*	-35	30	132
4/19	3915	3910	-	*	*	-35	30	132
4/20	4042	3676	-	-361	*	-35	30	132
4/21	3808	3803	-	*	*	-35	30	132
4/22	3935	3929	-	*	*	-35	30	132
4/23	4061	4056	-	*	*	-35	30	132
4/24	4188	3310	-	-873	*	-35	30	132
4/25	3442	1575	-	-1861	*	-35	30	132
4/26	1707	1702	-	*	*	-35	30	132
4/27	1834	1533	-	-296	*	-35	30	132
4/28	1665	1659	-	*	*	-35	30	132
4/29	1791	1352	-	-434	*	-35	30	132
4/30	1484	1479	-	*	*	-35	30	132
5/ 1	1611	1606	-	*	*	-35	30	132
5/ 2	1738	1732	-	*	*	-35	30	132
5/ 3	1864	1568	-	-291	*	-35	30	132
5/ 4	1700	1695	-	*	*	-35	30	132
5/ 5	1827	1821	-	*	*	-35	30	132
5/ 6	1953	1948	-	*	*	-35	30	132
5/ 7	2080	2075	-	*	*	-35	30	132
5/ 8	2207	2201	-	*	*	-35	30	132
5/ 9	2333	2328	-	*	*	-35	30	132
5/10	2460	2455	-	*	*	-35	30	132
5/11	2587	2267	-	-315	*	-35	30	132
5/12	2399	2393	-	*	*	-35	30	132
5/13	2525	2206	-	-314	*	-35	30	132
5/14	2338	2333	-	*	*	-35	30	132
5/15	2480	2459	-	*	*	-45	25	147
5/16	2606	2585	-	*	*	-45	25	147
5/17	2732	2712	-	*	*	-45	25	147
5/18	2859	2129	-	-709	*	-45	25	147
5/19	2276	2255	-	*	*	-45	25	147
5/20	2402	2382	-	*	*	-45	25	147
5/21	2529	2508	-	*	*	-45	25	147
5/22	2655	2634	-	*	*	-45	25	147
5/23	2781	497	2959	*	-2284	-45	25	147
5/24	644	623	-	*	*	-45	25	147
5/25	770	750	-	*	*	-45	25	147
5/26	897	876	-	*	*	-45	25	147
5/27	1023	1002	-	*	*	-45	25	147
5/28	1149	1129	-	*	*	-45	25	147
5/29	1276	1255	-	*	*	-45	25	147
5/30	1402	14	-	-1367	*	-45	25	147
5/31	161	141	-	*	*	-45	25	147
6/ 1	288	267	-	*	*	-45	25	147
6/ 2	414	394	-	*	*	-45	25	147
6/ 3	541	520	-	*	*	-45	25	147

* No Event Occurred

TS250 MASS BALANCE DATA FOR THE MILWAUKEE J-94 SITE - APRIL 17 THROUGH OCTOBER 31, 1979

Date	Daily Surface Load, lb/mi		Monitored Surface Load, lb/mi	Removal Processes			Deposition Processes	
	Begin	End		Runoff, lb/mi	Sweeper, lb/mi	Atmospheric, lb/mi	Atmospheric, lb/mi	Vehicular, lb/mi
6/ 4	667	574	-	-72	*	-45	25	147
6/ 5	721	555	-	-146	*	-45	25	147
6/ 6	702	601	-	*	*	-45	25	147
6/ 7	828	361	-	-446	*	-45	25	147
6/ 8	508	167	-	-321	*	-45	25	147
6/ 9	314	245	-	-48	*	-45	25	147
6/10	392	206	-	-85	*	-45	25	147
6/11	433	413	-	*	*	-45	25	147
6/12	555	540	-	*	*	-33	18	142
6/13	682	666	-	*	*	-33	18	142
6/14	808	793	-	*	*	-33	18	142
6/15	935	920	-	*	*	-33	18	142
6/16	1062	1047	-	*	*	-33	18	142
6/17	1189	1136	-	-38	*	-33	18	142
6/18	1278	1263	-	*	*	-33	18	142
6/19	1405	1389	-	*	*	-33	18	142
6/20	1531	904	-	-612	*	-33	18	142
6/21	1046	1031	-	*	*	-33	18	142
6/22	1173	1158	-	*	*	-33	18	142
6/23	1300	1285	-	*	*	-33	18	142
6/24	1427	1412	-	*	*	-33	18	142
6/25	1554	1539	-	*	*	-33	18	142
6/26	1681	1665	-	*	*	-33	18	142
6/27	1807	1197	-	-595	*	-33	18	142
6/28	1339	862	-	-462	*	-33	18	142
6/29	1004	989	-	*	*	-33	18	142
6/30	1131	1046	-	-70	*	-33	18	142
7/ 1	1157	1142	-	*	*	-33	18	111
7/ 2	1253	1238	-	*	*	-33	18	111
7/ 3	1349	871	-	-462	*	-33	18	111
7/ 4	982	918	-	-49	*	-33	18	111
7/ 5	1029	1014	-	*	*	-33	18	111
7/ 6	1125	1110	-	*	*	-33	18	111
7/ 7	1221	1206	-	*	*	-33	18	111
7/ 8	1317	1302	-	*	*	-33	18	111
7/ 9	1413	1397	-	*	*	-33	18	111
7/10	1505	1366	-	-128	*	-35	23	108
7/11	1474	1013	-	-449	*	-35	23	108
7/12	1121	1110	-	*	*	-35	23	108
7/13	1218	1206	-	*	*	-35	23	108
7/14	1314	1302	-	*	*	-35	23	108
7/15	1410	1399	-	*	*	-35	23	108
7/16	1507	1495	-	*	*	-35	23	108
7/17	1603	1591	-	*	*	-35	23	108
7/18	1699	1688	-	*	*	-35	23	108
7/19	1796	1784	-	*	*	-35	23	108
7/20	1892	1881	-	*	*	-35	23	108
7/21	1989	1977	-	*	*	-35	23	108

* No Event Occurred

TS250 MASS BALANCE DATA FOR THE MILWAUKEE I-94 SITE - APRIL 17 THROUGH OCTOBER 31, 1979

Date	Daily Surface Load, lb/mi		Monitored Surface Load, lb/mi	Removal Processes			Deposition Processes	
	Begin	End		Runoff, lb/mi	Sweeper, lb/mi	Atmospheric, lb/mi	Atmospheric, lb/mi	Vehicular, lb/mi
7/22	2085	2073	-	*	*	-35	23	108
7/23	2181	2170	-	*	*	-35	23	108
7/24	2278	1879	2260	-387	*	-35	23	108
7/25	1987	1976	-	*	*	-35	23	108
7/26	2084	2072	-	*	*	-35	23	108
7/27	2180	2168	-	*	*	-35	23	108
7/28	2276	2265	-	*	*	-35	23	108
7/29	2373	2361	-	*	*	-35	23	108
7/30	2469	2170	-	-287	*	-35	23	108
7/31	2278	2267	-	*	*	-35	23	108
8/ 1	2375	2363	-	*	*	-35	23	108
8/ 2	2471	2460	-	*	*	-35	23	108
8/ 3	2568	2393	-	-163	*	-35	23	108
8/ 4	2501	2489	-	*	*	-35	23	108
8/ 5	2597	2445	-	-141	*	-35	23	108
8/ 6	2553	2541	-	*	*	-35	23	108
8/ 7	2661	2636	-	*	*	-36	12	120
8/ 8	2756	2602	-	-130	*	-36	12	120
8/ 9	2722	1011	-	-1686	*	-36	12	120
8/10	1131	1106	-	*	*	-36	12	120
8/11	1226	1201	-	*	*	-36	12	120
8/12	1321	1228	-	-68	*	-36	12	120
8/13	1348	1229	-	-95	*	-36	12	120
8/14	1349	1324	-	*	*	-36	12	120
8/15	1444	1419	-	*	*	-36	12	120
8/16	1539	1514	3662	*	*	-36	12	120
8/17	1634	950	-	-659	*	-36	12	120
8/18	1070	1046	-	*	*	-36	12	120
8/19	1166	1105	-	-36	*	-36	12	120
8/20	1225	742	-	-458	*	-36	12	120
8/21	862	837	-	*	*	-36	12	120
8/22	957	577	-	-355	*	-36	12	120
8/23	697	601	-	-72	*	-36	12	120
8/24	721	696	-	*	*	-36	12	120
8/25	816	791	-	*	*	-36	12	120
8/26	911	846	-	-40	*	-36	12	120
8/27	966	606	-	-336	*	-36	12	120
8/28	726	701	-	*	*	-36	12	120
8/29	821	676	-	-120	*	-36	12	120
8/30	796	771	-	*	*	-36	12	120
8/31	891	866	-	*	*	-36	12	120
9/ 1	986	962	-	*	*	-36	12	120
9/ 2	1082	1057	-	*	*	-36	12	120
9/ 3	1177	1152	-	*	*	-36	12	120
9/ 4	1272	1247	-	*	*	-36	12	120
9/ 5	1367	1342	-	*	*	-36	12	120
9/ 6	1462	1438	-	*	*	-36	12	120
9/ 7	1558	1533	-	*	*	-36	12	120

* No Event Occurred

TS250 MASS BALANCE DATA FOR THE MILWAUKEE 1-94 SITE - APRIL 17 THROUGH OCTOBER 31, 1979

Date	Daily Surface Load, lb/mi		Monitored Surface Load, lb/mi	Removal Processes			Deposition Processes	
	Begin	End		Runoff, lb/mi	Sweeper, lb/mi	Atmospheric, lb/mi	Atmospheric, lb/mi	Vehicular, lb/mi
9/ 8	1653	1628	-	*	*	-36	12	120
9/ 9	1748	1723	-	*	*	-36	12	120
9/10	1843	1818	-	*	*	-36	12	120
9/11	1940	1914	-	*	*	-36	10	122
9/12	2036	2010	-	*	*	-36	10	122
9/13	2132	1828	-	-278	*	-36	10	122
9/14	1950	1924	-	*	*	-36	10	122
9/15	2046	2019	-	*	*	-36	10	122
9/16	2141	2115	-	*	*	-36	10	122
9/17	2237	2211	-	*	*	-36	10	122
9/18	2333	2307	-	*	*	-36	10	122
9/19	2429	2402	-	*	*	-36	10	122
9/20	2524	2498	-	*	*	-36	10	122
9/21	2620	2594	-	*	*	-36	10	122
9/22	2716	2690	-	*	*	-36	10	122
9/23	2812	2785	-	*	*	-36	10	122
9/24	2907	2881	3037	*	*	-36	10	122
9/25	3003	2977	-	*	*	-36	10	122
9/26	3099	3073	-	*	*	-36	10	122
9/27	3195	3169	-	*	*	-36	10	122
9/28	3291	3264	-	*	*	-36	10	122
9/29	3386	3360	-	*	*	-36	10	122
9/30	3482	3456	-	*	*	-36	10	122
10/ 1	3578	3060	-	-492	*	-36	10	122
10/ 2	3182	3155	-	*	*	-36	10	122
10/ 3	3277	3251	-	*	*	-36	10	122
10/ 4	3373	3347	-	*	*	-36	10	122
10/ 5	3469	3443	-	*	*	-36	10	122
10/ 6	3565	3538	-	*	*	-36	10	122
10/ 7	3660	3634	-	*	*	-36	10	122
10/ 8	3756	3730	-	*	*	-36	10	122
10/ 9	3852	658	-	*	-3194	-36	10	122
10/10	780	716	-	-38	*	-36	10	122
10/11	838	812	-	*	*	-36	10	122
10/12	934	907	-	*	*	-36	10	122
10/13	1029	1003	-	*	*	-36	10	122
10/14	1125	1099	-	*	*	-36	10	122
10/15	1221	1195	-	*	*	-36	10	122
10/16	1351	1291	752	*	*	-75	15	156
10/17	1447	1387	-	*	*	-75	15	156
10/18	1543	1483	-	*	*	-75	15	156
10/19	1639	1193	-	-387	*	-75	15	156
10/20	1349	1058	-	-231	*	-75	15	156
10/21	1214	1154	-	*	*	-75	15	156
10/22	1310	63	-	-1187	*	-75	15	156
10/23	219	140	-	-20	*	-75	15	156
10/24	296	236	-	*	*	-75	15	156
10/25	392	332	-	*	*	-75	15	156

* No Event Occurred

TS250 MASS BALANCE DATA FOR THE MILWAUKEE I-94 SITE - APRIL 17 THROUGH OCTOBER 31, 1979

Date	Daily Surface Load , lb/mi		Monitored Surface Load , lb/mi	Removal Processes			Deposition Processes	
	Begin	End		Runoff, lb/mi	Sweeper, lb/mi	Atmospheric, lb/mi	Atmospheric, lb/mi	Veicular, lb/mi
10/26	488	428	-	*	*	-75	15	156
10/27	584	525	-	*	*	-75	15	156
10/28	681	621	-	*	*	-75	15	156
10/29	777	717	-	*	*	-75	15	156
10/30	873	813	-	*	*	-75	15	156
10/31	969	597	-	-313	*	-75	15	156
TOTAL				-18783	-5478	-7886	3668	25499

CURRENT ACCUMULATION = 597

* No Event Occurred

Table F-2.

TS250 MASS BALANCE DATA FOR THE MILWAUKEE I-94 SITE - NOVEMBER 1, 1979 THROUGH MAY 21, 1980

Date	Daily Surface Load, lb/mi		Monitored Surface Load, lb/mi	Removal Processes				Deposition Processes		
	Begin	End		Runoff, lb/mi	Baseflow, lb/mi	Sweeper, lb/mi	Atmospheric, lb/mi	Atmospheric, lb/mi	Vehicular, lb/mi	De-icing Agent Application, lb/mi
11/ 1	737	682	-	*	*	*	-66	12	140	*
11/ 2	822	768	-	*	*	*	-66	12	140	*
11/ 3	908	853	-	*	*	*	-66	12	140	*
11/ 4	993	938	-	*	*	*	-66	12	140	*
11/ 5	1078	1024	-	*	*	*	-66	12	140	*
11/ 6	1164	840	-	-269	*	*	-66	12	140	*
11/ 7	980	925	-	*	*	*	-66	12	140	*
11/ 8	1065	1010	-	*	-1	*	-66	12	140	*
11/ 9	1474	3167	-	-184	*	*	-66	12	464	1932
11/10	3631	5421	-	-0	-87	*	-66	12	464	1932
11/11	5885	5763	-	*	-68	*	-66	12	464	*
11/12	6227	7941	-	-264	-12	*	-66	12	464	2045
11/13	8406	8335	-	*	-16	*	-66	12	464	*
11/14	8799	8725	-	*	-19	*	-66	12	464	*
11/15	9189	9113	-	*	-21	*	-66	12	464	*
11/16	9578	9502	-	*	-21	*	-66	12	464	*
11/17	9966	9890	-	*	-21	*	-66	12	464	*
11/18	10354	10278	-	*	-21	*	-66	12	464	*
11/19	10742	10666	-	*	-21	*	-66	12	464	*
11/20	11130	11055	-	*	-21	*	-66	12	464	*
11/21	11519	10558	-	-904	-1	*	-66	12	464	*
11/22	11822	10792	-	-176	*	*	-66	12	464	*
11/23	11256	11200	-	*	-2	*	-66	12	464	*
11/24	11664	11607	-	*	-2	*	-66	12	464	*
11/25	12071	11739	-	-277	-1	*	-66	12	464	*
11/26	12203	12142	-	*	-6	*	-66	12	464	*
11/27	12606	12540	-	*	-3	*	-66	12	464	*
11/28	13012	17288	-	*	-2	*	-66	12	464	4332
11/29	17752	17692	-	*	-6	*	-66	12	464	*
11/30	18156	18006	-	*	-15	*	-66	12	464	*
12/ 1	18550	18489	-	*	-6	*	-66	12	464	*
12/ 2	18953	18893	-	*	-6	*	-66	12	464	*
12/ 3	19357	19297	-	*	-6	*	-66	12	464	*
12/ 4	19761	19700	-	*	-6	*	-66	12	464	*
12/ 5	20164	20105	-	*	-5	*	-66	12	464	*
12/ 6	20569	20511	-	*	-3	*	-66	12	464	*
12/ 7	20975	20718	-	-184	-18	*	-66	12	464	*
12/ 8	21163	21124	-	*	-3	*	-66	12	464	*
12/ 9	21589	21531	-	*	-3	*	-66	12	464	*
12/10	21995	21938	-	*	-2	*	-66	12	464	*
12/11	22402	22163	-	-184	*	*	-66	12	464	*
12/12	22627	22572	-	*	*	*	-66	12	464	*
12/13	23037	22981	-	*	-1	*	-66	12	464	*
12/14	23445	23389	-	*	-1	*	-66	12	464	*
12/15	23854	23794	-	*	-5	*	-66	12	464	*
12/16	24258	30462	-	*	-2	*	-66	12	464	6260
12/17	30926	30802	-	*	-69	*	-66	12	464	*
12/18	31267	31046	-	*	-166	*	-66	12	464	*

* No Event Occurred

TS250 MASS BALANCE DATA FOR THE MILWAUKEE I-94 SITE - NOVEMBER 1, 1979 THROUGH MAY 21, 1980

Date	Daily Surface Load, lb/mi		Monitored Surface Load, lb/mi	Removal Processes				Deposition Processes		
	Begin	End		Runoff, lb/mi	Baseflow, lb/mi	Sweeper, lb/mi	Atmospheric, lb/mi	Atmospheric, lb/mi	Vehicular, lb/mi	De-icing Agent Application, lb/mi
12/19	31510	31276	-	*	-180	*	-66	12	464	*
12/20	31740	31483	-	*	-203	*	-66	12	464	*
12/21	31947	31786	-	*	-106	*	-66	12	464	*
12/22	32250	31145	-	-738	-313	*	-66	12	464	*
12/23	31609	31477	-	*	-77	*	-66	12	464	*
12/24	31941	29864	-	-2022	*	*	-66	12	464	*
12/25	30328	30166	-	*	-108	*	-66	12	464	*
12/26	30630	30494	-	*	-81	*	-66	12	464	*
12/27	30958	30854	-	*	-50	*	-66	12	464	*
12/28	31318	31229	-	*	-34	*	-66	12	464	*
12/29	31693	31604	-	*	-35	*	-66	12	464	*
12/30	32068	31970	-	*	-35	*	-66	12	464	*
12/31	32442	32357	-	*	-30	*	-66	12	464	*
1/ 1	32821	32742	-	*	-25	*	-66	12	464	*
1/ 2	33206	30063	-	-4518	-62	*	-66	12	464	1491
1/ 3	30528	30444	-	*	-29	*	-66	12	464	*
1/ 4	30908	34206	-	*	-533	*	-66	12	464	3886
1/ 5	34671	35436	-	*	-725	*	-66	12	464	1545
1/ 6	35900	25184	-	-16825	-79	*	-66	12	464	6243
1/ 7	25648	26764	-	*	-415	*	-66	12	464	1595
1/ 8	27228	26973	-	*	-200	*	-66	12	464	*
1/ 9	27437	30868	-	*	*	*	-66	12	464	3485
1/10	31332	27837	-	-3441	*	*	-66	12	464	*
1/11	28301	28203	-	*	-43	*	-66	12	464	*
1/12	28667	28574	-	*	-38	*	-66	12	464	*
1/13	29039	29514	-	-1125	-21	*	-66	12	464	1676
1/14	29978	29923	-	*	*	*	-66	12	464	*
1/15	30388	29611	-	-722	*	*	-66	12	464	*
1/16	30075	28984	-	-996	-40	*	-66	12	464	*
1/17	29448	24162	-	*	-5231	*	-66	12	464	*
1/18	24627	24433	-	*	-139	*	-66	12	464	*
1/19	24897	24801	-	*	-41	*	-66	12	464	*
1/20	25265	25186	-	*	-25	*	-66	12	464	*
1/21	25650	25578	-	*	-17	*	-66	12	464	*
1/22	26042	25974	-	*	-13	*	-66	12	464	*
1/23	26439	26384	-	*	*	*	-66	12	464	*
1/24	26848	34678	-	*	*	*	-66	12	464	7885
1/25	35142	32206	-	-2648	-153	*	-66	12	464	*
1/26	32750	32695	-	*	*	*	-66	12	464	*
1/27	33160	34602	-	*	*	*	-66	12	464	1497
1/28	35066	35011	-	*	*	*	-66	12	464	*
1/29	35476	35421	-	*	*	*	-66	12	464	*
1/30	35885	36527	-	-888	*	*	-66	12	464	1585
1/31	36991	36936	-	*	*	*	-66	12	464	*
2/ 1	37401	37346	-	*	*	*	-66	12	464	*
2/ 2	37810	37755	-	*	*	*	-66	12	464	*
2/ 3	38219	42100	-	-2495	*	*	-66	12	464	6340
2/ 4	42564	41829	-	*	-680	*	-66	12	464	*

* No Event Occurred

TS250 MASS BALANCE DATA FOR THE MILWAUKEE I-94 SITE - NOVEMBER 1, 1979 THROUGH MAY 21, 1980

Date	Daily Surface Load, lb/mi		Monitored Surface Load, lb/mi	Renoval Processes				Deposition Processes		
	Begin	End		Runoff, lb/mi	Baseflow, lb/mi	Sweeper, lb/mi	Atmospheric, lb/mi	Atmospheric, lb/mi	Vehicular, lb/mi	De-icing Agent Application, lb/mi
2/ 5	42293	54987	-	*	-2417	*	-66	12	464	15085
2/ 6	55371	57974	-	*	-4203	*	-66	12	464	6861
2/ 7	58438	55270	-	-4237	-462	*	-66	12	464	1585
2/ 8	55734	53449	-	*	-3815	*	-66	12	464	1505
2/ 9	53913	56426	-	-2188	*	*	-66	12	464	4755
2/10	56890	56555	-	*	-281	*	-66	12	464	*
2/11	57019	56295	-	*	-669	*	-66	12	464	*
2/12	56759	56476	-	*	-229	*	-66	12	464	*
2/13	56940	56895	-	*	*	*	-66	12	464	*
2/14	57349	57295	-	*	*	*	-66	12	464	*
2/15	57759	52307	-	-12404	*	*	-66	12	464	7007
2/16	52771	52716	-	*	*	*	-66	12	464	*
2/17	53180	53126	-	*	*	*	-66	12	464	*
2/18	53590	53524	-	*	-11	*	-66	12	464	*
2/19	53988	53524	-	*	-418	*	-66	12	464	*
2/20	53988	53142	-	-277	-514	*	-66	12	464	*
2/21	53607	49691	-	-3328	-533	*	-66	12	464	*
2/22	50155	49188	-	-678	-234	*	-66	12	464	*
2/23	49652	49409	-	*	-189	*	-66	12	464	*
2/24	49873	49425	-	*	-393	*	-66	12	464	*
2/25	49889	54134	-	-1492	-601	*	-66	12	464	6393
2/26	54599	51294	-	-2179	-1071	*	-66	12	464	*
2/27	51758	51079	-	*	-624	*	-66	12	464	*
2/28	51543	50021	-	*	-4637	*	-66	12	464	3170
2/29	50485	49543	-	-2514	*	*	-66	12	464	1627
3/ 1	58807	54788	-	*	*	*	-66	12	464	4755
3/ 2	55172	51748	-	*	-3378	*	-66	12	464	*
3/ 3	52212	49577	-	*	-2581	*	-66	12	464	*
3/ 4	50041	41957	-	-18796	-363	*	-66	12	464	3138
3/ 5	42421	46633	-	*	-224	*	-66	12	464	4491
3/ 6	47097	44961	-	-3269	-1650	*	-66	12	464	2838
3/ 7	45426	41954	-	*	-3417	*	-66	12	464	*
3/ 8	42419	40113	-	*	-2251	*	-66	12	464	*
3/ 9	40577	39879	-	*	-643	*	-66	12	464	*
3/10	40343	39243	-	*	-1846	*	-66	12	464	*
3/11	39707	38762	-	*	-898	*	-66	12	464	*
3/12	39226	38282	-	*	-898	*	-66	12	464	*
3/13	38746	41529	-	*	*	*	-66	12	464	2838
3/14	41993	34298	-	-6751	-898	*	-66	12	464	*
3/15	34762	33911	-	*	-796	*	-66	12	464	*
3/16	34375	32791	-	*	-1538	*	-66	12	464	*
3/17	33255	31358	-	-1125	-717	*	-66	12	464	*
3/18	31822	31362	-	*	-406	*	-66	12	464	*
3/19	31826	31296	-	*	-475	*	-66	12	464	*
3/20	31760	31897	-	*	-608	*	-66	12	464	*
3/21	31562	30989	-	*	-518	*	-66	12	464	*
3/22	31453	30898	-	*	-508	*	-66	12	464	*
3/23	31354	30867	-	-988	-245	*	-66	12	464	*

* No Event Occurred

TS250 MASS BALANCE DATA FOR THE MILWAUKEE I-94 SITE - NOVEMBER 1, 1979 THROUGH MAY 21, 1980

Date	Daily Surface Load, lb/mi		Monitored Surface Load, lb/mi	Removal Processes				Deposition Processes		
	Begin	End		Runoff, lb/mi	Baseflow, lb/mi	Sweeper, lb/mi	Atmospheric, lb/mi	Atmospheric, lb/mi	Vehicular, lb/mi	De-icing Agent Application, lb/mi
3/24	30531	30207	-	*	-269	*	-66	12	464	*
3/25	30671	30368	-	*	-249	*	-66	12	464	*
3/26	30832	30540	-	*	-237	*	-66	12	464	*
3/27	31004	30714	-	*	-236	*	-66	12	464	*
3/28	31178	30853	-	*	-216	*	-66	12	464	*
3/29	31317	31135	-	*	-128	*	-66	12	464	*
3/30	31599	31417	-	*	-127	*	-66	12	464	*
3/31	31881	31752	-	*	-74	*	-66	12	464	*
4/ 1	32216	32034	-	*	-127	*	-66	12	464	*
4/ 2	32398	29295	-	-3198	*	*	-35	30	464	*
4/ 3	29759	29754	-	*	*	*	-35	30	464	*
4/ 4	30218	30018	-	*	-195	*	-35	30	464	*
4/ 5	30482	32982	-	*	-333	*	-35	30	464	*
4/ 6	33446	33130	-	-55	-256	*	-35	30	464	2838
4/ 7	33594	33513	-	*	-76	*	-35	30	464	*
4/ 8	33977	31892	-	-1722	-369	*	-35	30	464	*
4/ 9	32346	32066	-	*	-274	*	-35	30	464	*
4/10	32530	32015	-	*	-510	*	-35	30	464	*
4/11	32479	31815	-	-309	-349	*	-35	30	464	*
4/12	32280	31948	-	*	-326	*	-35	30	464	*
4/13	32413	32011	-	*	-396	*	-35	30	464	*
4/14	32476	25446	-	-11673	-107	*	-35	30	464	4755
4/15	25910	26945	-	*	-544	*	-35	30	464	1585
4/16	27409	26876	-	*	-528	*	-35	30	464	*
4/17	27340	6275	27078	*	-467	-21865	-35	30	464	*
4/18	6407	5972	-	*	-430	*	-35	30	132	*
4/19	6184	5763	-	*	-335	*	-35	30	132	*
4/20	5895	5624	-	*	-266	*	-35	30	132	*
4/21	5756	5496	-	*	-255	*	-35	30	132	*
4/22	5628	5379	-	*	-243	*	-35	30	132	*
4/23	5511	5300	-	*	-206	*	-35	30	132	*
4/24	5432	5111	-	-203	-112	*	-35	30	132	*
4/25	5243	5013	-	*	-225	*	-35	30	132	*
4/26	5145	4938	-	*	-202	*	-35	30	132	*
4/27	5070	4058	-	-122	-85	*	-35	30	132	*
4/28	4990	4822	-	-146	-17	*	-35	30	132	*
4/29	4954	4512	-	-415	-22	*	-35	30	132	*
4/30	4644	4533	-	*	-106	*	-35	30	132	*
5/ 1	4665	4519	-	*	-140	*	-35	30	132	*
5/ 2	4651	4504	-	*	-142	*	-35	30	132	*
5/ 3	4636	4496	-	*	-134	*	-35	30	132	*
5/ 4	4628	4500	-	*	-122	*	-35	30	132	*
5/ 5	4632	4484	-	*	-143	*	-35	30	132	*
5/ 6	4616	4497	-	*	-113	*	-35	30	132	*
5/ 7	4629	4569	-	*	-55	*	-35	30	132	*
5/ 8	4701	4646	-	*	-49	*	-35	30	132	*
5/ 9	4778	4709	-	*	-64	*	-35	30	132	*
5/10	4841	4597	-	-203	-36	*	-35	30	132	*

* No Event Occurred

TS250 MASS BALANCE DATA FOR THE MILWAUKEE I-94 SITE - NOVEMBER 1, 1979 THROUGH MAY 21, 1980

Date	Daily Surface Load, lb/mi		Monitored Surface Load, lb/mi	Removal Processes				Deposition Processes		
	Begin	End		Runoff, lb/mi	Baseflow, lb/mi	Sweeper, lb/mi	Atmospheric, lb/mi	Atmospheric, lb/mi	Vehicular, lb/mi	De-icing Agent Application, lb/mi
5/11	4729	4665	-	*	-58	*	-35	30	132	*
5/12	4797	4759	-	*	-33	*	-35	30	132	*
5/13	4891	3913	-	-969	-3	*	-35	30	132	*
5/14	4045	4040	-	*	*	*	-35	30	132	*
5/15	4172	3921	-	-230	*	*	-45	25	132	*
5/16	4053	4032	-	*	*	*	-45	25	132	*
5/17	4164	3012	-	-1131	*	*	-45	25	132	*
5/18	3144	2977	-	-146	*	*	-45	25	132	*
5/19	3109	3089	-	*	*	*	-45	25	132	*
5/20	3221	3200	-	*	*	*	-45	25	132	*
5/21	3332	311	2429	*	*	-3021	-45	25	132	*
TOTAL				-111574	-65734	-24086	-11957	3217	80337	129018

CURRENT ACCUMULATION = 311

* No Event Occurred

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TS250 MASS BALANCE DATA FOR THE EFLAND I-85 SITE - JUNE 30, 1981 THROUGH APRIL 22, 1982

Date	Daily Surface Load, lb/mi		Monitored Surface Load, lb/mi	Removal Processes				Deposition Processes		
	Begin	End		Runoff, lb/mi	Baseflow, lb/mi	Sweeper, lb/mi	Atmospheric, lb/mi	Atmospheric, lb/mi	Vehicular, lb/mi	De-icing Agent Application, lb/mi
6/30	71	75	41	*	*	*	-3	0	30	*
7/ 1	105	110	-	*	*	*	-3	0	30	*
7/ 2	140	100	-	-44	*	*	-3	0	30	*
7/ 3	130	6	-	-129	*	*	-3	0	30	*
7/ 4	36	41	-	*	*	*	-3	0	30	*
7/ 5	71	75	-	*	*	*	-3	0	30	*
7/ 6	105	110	-	*	*	*	-3	0	30	*
7/ 7	140	144	-	*	*	*	-3	0	30	*
7/ 8	174	179	-	*	*	*	-3	0	30	*
7/ 9	209	214	-	*	*	*	-3	0	30	*
7/10	244	248	-	*	*	*	-3	0	30	*
7/11	278	283	-	*	*	*	-3	0	30	*
7/12	313	317	-	*	*	*	-3	0	30	*
7/13	347	352	-	*	*	*	-3	0	30	*
7/14	382	387	-	*	*	*	-3	0	30	*
7/15	417	421	-	*	*	*	-3	0	30	*
7/16	451	456	-	*	*	*	-3	0	30	*
7/17	486	490	-	*	*	*	-3	0	30	*
7/18	520	525	-	*	*	*	-3	0	30	*
7/19	555	560	-	*	*	*	-3	0	30	*
7/20	590	594	-	*	*	*	-3	0	30	*
7/21	624	629	-	*	*	*	-3	0	30	*
7/22	659	663	-	*	*	*	-3	0	30	*
7/23	693	698	-	*	*	*	-3	0	30	*
7/24	728	733	-	*	*	*	-3	0	30	*
7/25	763	767	-	*	*	*	-3	0	30	*
7/26	797	802	-	*	*	*	-3	0	30	*
7/27	832	836	-	*	*	*	-3	0	30	*
7/28	866	871	-	*	*	*	-3	0	30	*
7/29	901	906	-	*	*	*	-3	0	30	*
7/30	936	940	-	*	*	*	-3	0	30	*
7/31	970	975	-	*	*	*	-3	0	30	*
8/ 1	1009	1009	-	*	*	*	-3	3	35	*
8/ 2	1044	1044	-	*	*	*	-3	3	35	*
8/ 3	1079	1079	-	*	*	*	-3	3	35	*
8/ 4	1113	1113	-	*	*	*	-3	3	35	*
8/ 5	1148	1148	-	*	*	*	-3	3	35	*
8/ 6	1182	1182	-	*	*	*	-3	3	35	*
8/ 7	1217	1217	-	*	*	*	-3	3	35	*
8/ 8	1252	1252	-	*	*	*	-3	3	35	*
8/ 9	1286	1286	-	*	*	*	-3	3	35	*
8/10	1321	1321	-	*	*	*	-3	3	35	*
8/11	1355	930	-	-426	*	*	-3	3	35	*
8/12	964	920	-	-44	*	*	-3	3	35	*
8/13	955	955	-	*	*	*	-3	3	35	*
8/14	990	990	-	*	*	*	-3	3	35	*
8/15	1024	1024	-	*	*	*	-3	3	35	*
8/16	1059	1059	-	*	*	*	-3	3	35	*

* No Event Occurred

TS250 MASS BALANCE DATA FOR THE EFLAND I-85 SITE - JUNE 30, 1981 THROUGH APRIL 22, 1982

Date	Daily Surface Load, lb/mi		Monitored Surface Load, lb/mi	Removal Processes				Deposition Processes		
	Begin	End		Runoff, lb/mi	Baseflow, lb/mi	Sweeper, lb/mi	Atmospheric, lb/mi	Atmospheric, lb/mi	Vehicular, lb/mi	De-icing Agent Application, lb/mi
8/17	1093	1093	-	*	*	*	-3	3	35	*
8/18	1128	1128	-	*	*	*	-3	3	35	*
8/19	1163	997	-	-166	*	*	-3	3	35	*
8/20	1032	1031	-	*	*	*	-3	3	35	*
8/21	1066	1066	-	*	*	*	-3	3	35	*
8/22	1101	1101	-	*	*	*	-3	3	35	*
8/23	1135	1135	-	*	*	*	-3	3	35	*
8/24	1170	1170	-	*	*	*	-3	3	35	*
8/25	1205	1204	-	*	*	*	-3	3	35	*
8/26	1239	1239	-	*	*	*	-3	3	35	*
8/27	1274	1274	-	*	*	*	-3	3	35	*
8/28	1308	1308	-	*	*	*	-3	3	35	*
8/29	1343	1343	-	*	*	*	-3	3	35	*
8/30	1378	1377	-	*	*	*	-3	3	35	*
8/31	1412	1412	-	*	*	*	-3	3	35	*
9/ 1	1448	1447	-	*	*	*	-7	6	35	*
9/ 2	1482	1388	-	-93	*	*	-7	6	35	*
9/ 3	1424	1423	-	*	*	*	-7	6	35	*
9/ 4	1458	1457	-	*	*	*	-7	6	35	*
9/ 5	1493	1072	-	-420	*	*	-7	6	35	*
9/ 6	1108	1107	-	*	*	*	-7	6	35	*
9/ 7	1142	166	-	-975	*	*	-7	6	35	*
9/ 8	176	71	-	-104	*	*	-7	6	10	*
9/ 9	81	81	-	*	*	*	-7	6	10	*
9/10	91	90	-	*	*	*	-7	6	10	*
9/11	100	99	-	*	*	*	-7	6	10	*
9/12	109	108	-	*	*	*	-7	6	10	*
9/13	118	117	-	*	*	*	-7	6	10	*
9/14	127	127	-	*	*	*	-7	6	10	*
9/15	137	136	-	*	*	*	-7	6	10	*
9/16	146	145	-	*	*	*	-7	6	10	*
9/17	155	154	-	*	*	*	-7	6	10	*
9/18	164	163	-	*	*	*	-7	6	10	*
9/19	173	173	-	*	*	*	-7	6	10	*
9/20	183	182	-	*	*	*	-7	6	10	*
9/21	192	191	-	*	*	*	-7	6	10	*
9/22	201	200	-	*	*	*	-7	6	10	*
9/23	210	209	-	*	*	*	-7	6	10	*
9/24	219	219	249	*	*	*	-7	6	10	*
9/25	229	228	-	*	*	*	-7	6	10	*
9/26	238	237	-	*	*	*	-7	6	10	*
9/27	247	246	-	*	*	*	-7	6	10	*
9/28	256	255	-	*	*	*	-7	6	10	*
9/29	265	265	-	*	*	*	-7	6	10	*
9/30	275	274	-	*	*	*	-7	6	10	*
10/ 1	284	283	-	*	*	*	-5	4	10	*
10/ 2	293	292	-	*	*	*	-5	4	10	*
10/ 3	303	301	-	*	*	*	-5	4	10	*

* No Event Occurred

TS250 MASS BALANCE DATA FOR THE EFLAND I-85 SITE - JUNE 30,1981 THROUGH APRIL 22,1982

Date	Daily Surface Load, lb/mi		Monitored Surface Load, lb/mi	Removal Processes				Deposition Processes		
	Begin	End		Runoff, lb/mi	Baseflow, lb/mi	Sweeper, lb/mi	Atmospheric, lb/mi	Atmospheric, lb/mi	Vehicular, lb/mi	De-icing Agent Application, lb/mi
10/ 4	312	311	-	*	*	*	-5	4	10	*
10/ 5	321	320	-	*	*	*	-5	4	10	*
10/ 6	330	329	-	*	*	*	-5	4	10	*
10/ 7	339	338	-	*	*	*	-5	4	10	*
10/ 8	349	347	-	*	*	*	-5	4	10	*
10/ 9	358	357	-	*	*	*	-5	4	10	*
10/10	367	366	-	*	*	*	-5	4	10	*
10/11	376	375	-	*	*	*	-5	4	10	*
10/12	385	384	-	*	*	*	-5	4	10	*
10/13	395	393	-	*	*	*	-5	4	10	*
10/14	404	403	-	*	*	*	-5	4	10	*
10/15	413	412	-	*	*	*	-5	4	10	*
10/16	422	421	-	*	*	*	-5	4	10	*
10/17	431	430	-	*	*	*	-5	4	10	*
10/18	441	439	-	*	*	*	-5	4	10	*
10/19	450	449	-	*	*	*	-5	4	10	*
10/20	459	458	-	*	*	*	-5	4	10	*
10/21	468	467	-	*	*	*	-5	4	10	*
10/22	477	476	-	*	*	*	-5	4	10	*
10/23	487	485	-	*	*	*	-5	4	10	*
10/24	496	495	-	*	*	*	-5	4	10	*
10/25	505	386	-	-118	*	*	-5	4	10	*
10/26	396	294	-	-181	*	*	-5	4	10	*
10/27	304	167	-	-136	*	*	-5	4	10	*
10/28	176	175	-	*	*	*	-5	4	9	*
10/29	184	183	-	*	*	*	-5	4	9	*
10/30	192	191	-	*	*	*	-5	4	9	*
10/31	200	199	-	*	*	*	-5	4	9	*
11/ 1	207	206	-	*	*	*	-5	4	9	*
11/ 2	215	214	-	*	*	*	-5	4	9	*
11/ 3	222	221	-	*	*	*	-5	4	9	*
11/ 4	230	229	-	*	*	*	-5	4	9	*
11/ 5	237	236	-	*	*	*	-5	4	9	*
11/ 6	245	244	-	*	*	*	-5	4	9	*
11/ 7	252	251	-	*	*	*	-5	4	9	*
11/ 8	260	259	-	*	*	*	-5	4	9	*
11/ 9	267	266	-	*	*	*	-5	4	9	*
11/10	275	274	-	*	*	*	-5	4	9	*
11/11	282	281	-	*	*	*	-5	4	9	*
11/12	290	289	-	*	*	*	-5	4	9	*
11/13	297	296	-	*	*	*	-5	4	9	*
11/14	305	304	-	*	*	*	-5	4	9	*
11/15	312	311	-	*	*	*	-5	4	9	*
11/16	320	319	-	*	*	*	-5	4	9	*
11/17	327	326	-	*	*	*	-5	4	9	*
11/18	335	334	-	*	*	*	-5	4	9	*
11/19	342	341	-	*	*	*	-5	4	9	*
11/20	350	349	-	*	*	*	-5	4	9	*

* No Event Occurred

TS250 MASS BALANCE DATA FOR THE EFLAND I-85 SITE - JUNE 30, 1981 THROUGH APRIL 22, 1982

Date	Daily Surface Load, lb/mi		Monitored Surface Load, lb/mi	Renoval Processes				Deposition Processes		
	Begin	End		Runoff, lb/mi	Baseflow, lb/mi	Sweeper, lb/mi	Atmospheric, lb/mi	Atmospheric, lb/mi	Vehicular, lb/mi	De-icing Agent Application, lb/mi
11/21	357	356	-	*	*	*	-5	4	9	*
11/22	365	364	-	*	*	*	-5	4	9	*
11/23	373	371	-	*	*	*	-5	4	9	*
11/24	380	379	-	*	*	*	-5	4	9	*
11/25	388	386	-	*	*	*	-5	4	9	*
11/26	395	394	-	*	*	*	-5	4	9	*
11/27	403	401	-	*	*	*	-5	4	9	*
11/28	410	409	-	*	*	*	-5	4	9	*
11/29	418	416	-	*	*	*	-5	4	9	*
11/30	425	424	-	*	*	*	-5	4	9	*
12/ 1	433	432	-	*	*	*	-5	4	9	*
12/ 2	441	440	-	*	*	*	-5	4	9	*
12/ 3	449	447	62	*	*	*	-5	4	9	*
12/ 4	456	455	-	*	*	*	-5	4	9	*
12/ 5	464	463	-	*	*	*	-5	4	9	*
12/ 6	472	471	-	*	*	*	-5	4	9	*
12/ 7	480	479	-	*	*	*	-5	4	9	*
12/ 8	488	487	-	*	*	*	-5	4	9	*
12/ 9	496	494	-	*	*	*	-5	4	9	*
12/10	504	502	-	*	*	*	-5	4	9	*
12/11	511	510	-	*	*	*	-5	4	9	*
12/12	519	518	-	*	*	*	-5	4	9	*
12/13	527	526	-	*	*	*	-5	4	9	*
12/14	535	534	-	*	*	*	-5	4	9	*
12/15	543	161	-	-380	*	*	-5	4	9	*
12/16	170	169	-	*	*	*	-5	4	9	*
12/17	178	177	-	*	*	*	-5	4	9	*
12/18	186	185	-	*	*	*	-5	4	9	*
12/19	194	193	-	*	*	*	-5	4	9	*
12/20	202	201	-	*	*	*	-5	4	9	*
12/21	210	1304	-	*	*	*	-5	4	9	1096
12/22	1314	1312	-	*	*	*	-5	4	9	*
12/23	1321	1276	-	-44	*	*	-5	4	9	*
12/24	1285	497	-	-787	*	*	-5	4	9	*
12/25	506	505	-	*	*	*	-5	4	9	*
12/26	514	513	-	*	*	*	-5	4	9	*
12/27	522	521	-	*	*	*	-5	4	9	*
12/28	530	528	-	*	*	*	-5	4	9	*
12/29	538	536	-	*	*	*	-5	4	9	*
12/30	545	544	-	*	*	*	-5	4	9	*
12/31	553	132	-	-420	*	*	-5	4	9	*
1/ 1	144	142	-	*	*	*	-5	4	12	*
1/ 2	154	153	-	*	*	*	-5	4	12	*
1/ 3	165	-22	-	-186	*	*	-5	4	12	*
1/ 4	-11	-179	-	-167	*	*	-5	4	12	*
1/ 5	-167	-168	-	*	*	*	-5	4	12	*
1/ 6	-157	-158	-	*	*	*	-5	4	12	*
1/ 7	-146	-147	-	*	*	*	-5	4	12	*

* No Event Occurred

TS250 MASS BALANCE DATA FOR THE EFLAND I-85 SITE - JUNE 30,1981 THROUGH APRIL 22,1982

Date	Daily Surface Load, lb/mi		Monitored Surface Load, lb/mi	Removal Processes				Deposition Processes		
	Begin	End		Runoff, lb/mi	Baseflow, lb/mi	Sweeper, lb/mi	Atmospheric, lb/mi	Atmospheric, lb/mi	Vehicular, lb/mi	De-icing Agent Application, lb/mi
1/ 8	-136	-137	-	*	*	*	-5	4	12	*
1/ 9	-125	-126	-	*	*	*	-5	4	12	*
1/10	-115	-116	-	*	*	*	-5	4	12	*
1/11	-104	-105	-	*	*	*	-5	4	12	*
1/12	-94	-95	-	*	*	*	-5	4	12	*
1/13	-83	2108	-	*	*	*	-5	4	12	2192
1/14	2120	4310	-	*	*	*	-5	4	12	2192
1/15	4322	5417	-	*	*	*	-5	4	12	1096
1/16	5429	4081	-	-1347	*	*	-5	4	12	*
1/17	4093	4091	-	*	*	*	-5	4	12	*
1/18	4103	4102	-	*	*	*	-5	4	12	*
1/19	4114	3056	-	-1056	*	*	-5	4	12	*
1/20	3068	2744	-	-322	*	*	-5	4	12	*
1/21	2756	1399	-	-1356	*	*	-5	4	12	*
1/22	1411	2510	-	*	*	*	-5	4	12	1100
1/23	2521	2328	-	-1292	*	*	-5	4	12	1100
1/24	2339	3438	-	*	*	*	-5	4	12	1100
1/25	3450	3449	-	*	*	*	-5	4	12	*
1/26	3460	3459	-	*	*	*	-5	4	12	*
1/27	3471	3470	-	*	*	*	-5	4	12	*
1/28	3481	3480	-	*	*	*	-5	4	12	*
1/29	3492	3491	-	*	*	*	-5	4	12	*
1/30	3503	3501	-	*	*	*	-5	4	12	*
1/31	3513	3458	-	-54	*	*	-5	4	12	*
2/ 1	3463	3462	-	*	*	*	-5	4	5	*
2/ 2	3467	3337	-	-132	*	*	-5	4	5	*
2/ 3	3342	2579	-	-762	*	*	-5	4	5	*
2/ 4	2584	2583	-	*	*	*	-5	4	5	*
2/ 5	2588	2587	-	*	*	*	-5	4	5	*
2/ 6	2592	2590	-	*	*	*	-5	4	5	*
2/ 7	2595	2594	-	*	*	*	-5	4	5	*
2/ 8	2599	2598	-	*	*	*	-5	4	5	*
2/ 9	2603	2496	-	-106	*	*	-5	4	5	*
2/10	2501	2499	-	*	*	*	-5	4	5	*
2/11	2504	2503	-	*	*	*	-5	4	5	*
2/12	2508	2326	-	-181	*	*	-5	4	5	*
2/13	2331	2330	-	*	*	*	-5	4	5	*
2/14	2335	2334	-	*	*	*	-5	4	5	*
2/15	2339	2338	-	*	*	*	-5	4	5	*
2/16	2343	2209	-	-132	*	*	-5	4	5	*
2/17	2214	1647	-	-566	*	*	-5	4	5	*
2/18	1652	1651	-	*	*	*	-5	4	5	*
2/19	1656	1655	-	*	*	*	-5	4	5	*
2/20	1660	1658	-	*	*	*	-5	4	5	*
2/21	1664	1662	-	*	*	*	-5	4	5	*
2/22	1667	1666	-	*	*	*	-5	4	5	*
2/23	1671	1670	-	*	*	*	-5	4	5	*
2/24	1675	1674	-	*	*	*	-5	4	5	*

* No Event Occurred

TS250 MASS BALANCE DATA FOR THE EFLAND I-85 SITE - JUNE 30, 1981 THROUGH APRIL 22, 1982

Date	Daily Surface Load, lb/mi		Monitored Surface Load, lb/mi	Removal Processes				Deposition Processes		
	Begin	End		Runoff, lb/mi	Baseflow, lb/mi	Sweeper, lb/mi	Atmospheric, lb/mi	Atmospheric, lb/mi	Vehicular, lb/mi	De-icing Agent Application, lb/mi
2/25	1679	1677	-	*	*	*	-5	4	5	*
2/26	1682	1685	-	*	*	*	-5	4	5	4
2/27	1690	1449	-	-1336	*	*	-5	4	5	1096
2/28	1454	1131	-	-322	*	*	-5	4	5	*
3/ 1	1134	1132	-	*	*	*	-5	4	3	*
3/ 2	1135	1134	-	*	*	*	-5	4	3	*
3/ 3	1137	1136	-	*	*	*	-5	4	3	*
3/ 4	1139	1138	-	*	*	*	-5	4	3	*
3/ 5	1141	1139	-	*	*	*	-5	4	3	*
3/ 6	1142	1087	-	-53	*	*	-5	4	3	*
3/ 7	1090	712	-	-378	*	*	-5	4	3	*
3/ 8	715	713	-	*	*	*	-5	4	3	*
3/ 9	716	715	-	*	*	*	-5	4	3	*
3/10	718	717	-	*	*	*	-5	4	3	*
3/11	720	718	-	*	*	*	-5	4	3	*
3/12	721	720	-	*	*	*	-5	4	3	*
3/13	723	722	-	*	*	*	-5	4	3	*
3/14	725	724	-	*	*	*	-5	4	3	*
3/15	727	725	-	*	*	*	-5	4	3	*
3/16	728	727	-	*	*	*	-5	4	3	*
3/17	730	729	-	*	*	*	-5	4	3	*
3/18	732	730	-	*	*	*	-5	4	3	*
3/19	733	732	-	*	*	*	-5	4	3	*
3/20	735	362	-	-372	*	*	-5	4	3	*
3/21	365	364	-	*	*	*	-5	4	3	*
3/22	367	365	-	*	*	*	-5	4	3	*
3/23	368	367	-	*	*	*	-5	4	3	*
3/24	370	369	-	*	*	*	-5	4	3	*
3/25	372	370	-	*	*	*	-5	4	3	*
3/26	373	372	-	*	*	*	-5	4	3	*
3/27	375	374	-	*	*	*	-5	4	3	*
3/28	377	376	-	*	*	*	-5	4	3	*
3/29	379	377	-	*	*	*	-5	4	3	*
3/30	380	379	-	*	*	*	-5	4	3	*
3/31	382	381	-	*	*	*	-5	4	3	*
4/ 1	384	383	-	*	*	*	-5	4	4	*
4/ 2	387	385	-	*	*	*	-5	4	4	*
4/ 3	389	388	-	*	*	*	-5	4	4	*
4/ 4	392	390	-	*	*	*	-5	4	4	*
4/ 5	394	393	-	*	*	*	-5	4	4	*
4/ 6	396	395	-	*	*	*	-5	4	4	*
4/ 7	399	397	-	*	*	*	-5	4	4	*
4/ 8	401	325	-	-75	*	*	-5	4	4	*
4/ 9	328	327	-	*	*	*	-5	4	4	*
4/10	331	329	-	*	*	*	-5	4	4	*
4/11	333	332	-	*	*	*	-5	4	4	*
4/12	335	334	-	*	*	*	-5	4	4	*
4/13	338	337	-	*	*	*	-5	4	4	*

* No Event Occurred

TS250 MASS BALANCE DATA FOR THE EFLAND I-85 SITE - JUNE 30, 1981 THROUGH APRIL 22, 1982

Date	Daily Surface Load, lb/mi		Monitored Surface Load, lb/mi	Removal Processes				Deposition Processes		
	Begin	End		Runoff, lb/mi	Baseflow, lb/mi	Sweeper, lb/mi	Atmospheric, lb/mi	Atmospheric, lb/mi	Vehicular, lb/mi	De-icing Agent Application, lb/mi
4/14	340	339	-	*	*	*	-5	4	4	*
4/15	343	341	-	*	*	*	-5	4	4	*
4/16	345	344	-	*	*	*	-5	4	4	*
4/17	347	346	-	*	*	*	-5	4	4	*
4/18	350	348	-	*	*	*	-5	4	4	*
4/19	352	351	-	*	*	*	-5	4	4	*
4/20	354	343	-	-10	*	*	-5	4	4	*
4/21	347	345	-	*	*	*	-5	4	4	*
4/22	349	348	45	*	*	*	-5	4	4	*
OTM.				-14592	0	0	-1417	1276	4061	10980
CURRENT ACCUMULATION = 348										

* No Event Occurred

