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ENVIRONMENT CANADA
ENVIRONMENTAL PROTECTION SERVICE
PACIFIC AND YUKON REGION
WHITEHORSE, YUKON

A REPORT ON THE SUSPENDED
SEDIMENT AND HEAVY METALS LOADING IN VANGORDA CREEK
DOWNSTREAM OF THE VANGORDA MINE SITE NEAR FARO, YUKON
DURING SPRING FRESHET IN 1991, 1992 AND 1993

REGIONAL PROGRAM REPORT NO. 95-09

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PREPARED BY D. DAVIDGE
March, 1996

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ABSTRACT

On the 22-May-1991 Environmental Protection staff conducted a routine inspection of mine water drainages, Vangorda Creek, Grum Creek and Shrimp Creek in the vicinity of the Vangorda open pit mine near Faro, Yukon. As a result of this inspection, physical and chemical analysis of water samples collected revealed unusually high concentrations of suspended sediments and certain heavy metals at a location 200 meters downstream of the Vangorda open pit. In order to determine if this event was an isolated case or if it was a seasonal occurrence, a more detailed survey was carried out the following two years during approximately the same period. Using automatic sampling devices, Environmental Protection staff returned in the spring of 1992 and 1993 to collect several weeks of daily composite samples from four locations for suspended sediment and total metals analysis.

The results of 1991, 1992 and 1993 sampling program showed that a high heavy metals loading associated with a high suspended sediment loading was occurring in Vangorda Creek as stream flows increased during the early stages of the spring freshet period. These high loadings coincided with the first significant increase in maximum daily temperatures in the 10 to 20°C range, a significant increase in stream flow and persisted up to three weeks in length. The data collected also showed that the source of the metals laden sediment was associated with the Vangorda open pit mine development and the Anvil Mine Haul Road crossing at Vangorda Creek and was detectable several kilometers downstream of the mine.

RESUME

Le 22 mai 1991, le personnel du Service de Protection de l'Environnement a conduit une inspection de routine des drainages miniers, des ruisseaux Vangorda, Grum et Shrimp dans les parages de la mine à ciel ouvert Vangorda près de Faro, Yukon. À la suite de cette inspection, l'analyse chimique et physique des échantillons d'eau a révélée des concentrations anormalement hautes pour les solides en suspension et de certains métaux lourds, 200 mètres en aval de la mine à ciel ouvert Vangorda. De façon à déterminer si cet événement fût un cas isolé ou un phénomène saisonnier, une étude plus approfondie fût entamée approximativement à la même période de l'année, pour les deux prochaines années. Le personnel du Service de Protection de l'Environnement a récolté durant plusieurs semaines des échantillons composés à quatre stations pour les sédiments en suspension et les métaux lourds, en utilisant un échantillonneur automatique pendant le printemps de 1992 et 1993.

Les résultats du programme d'échantillonnage de 1991, 1992, et 1993 ont montrés qu'une haute charge de métaux lourds associé avec les sédiments en suspension coïncidait avec la montée du débit du ruisseau Vangorda durant les premiers stages de la fonte des neiges. Ces hautes charges correspondait avec la première augmentation significative des températures maximales hebdomadaires entre 10 et 20 degrés centigrade, ainsi qu'une augmentation significative du débit du ruisseau. Le phénomène persiste alors durant près de trois semaines. Les données recueillies ont montrés que la source de sédiments à haute teneur de métaux lourds était associée avec le développement de la mine à ciel ouvert Vangorda et la route de camionnage traversant le ruisseau Vangorda. Les sédiments ainsi contaminés pouvaient être détectés plusieurs kilomètres en aval de la mine.

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1.0 INTRODUCTION

During a routine inspection of the Vangorda Mine site near Faro, Yukon on May 22/23, 1991, Environmental Protection Service staff collected a series of water samples from Vangorda Creek and two of its tributaries, Grum Creek and Shrimp Creek. The samples were analysed for nutrients and total and dissolved metals and compared with the Fisheries Act "Metal Mining Liquid Effluent Regulations" (MMLER) and the Water Use Licence issued by the Yukon Territory water Board (YTWB). Levels of suspended sediments and total Cu and Pb found in water samples collected from Vangorda Creek approximately 150m downstream of the Haul Road exceeded the MMLER for a grab sample. Suspended sediments and metals contamination to a lesser degree was also found at other Vangorda Creek sample locations further downstream.

A file report on the results of the sampling conducted in 1991 was forwarded to the Department of Indian and Northern Affairs Canada - Water Resources in Whitehorse on the 14-May-1992. The results of the May, 1991 inspection lead to several follow-up inspections by Environmental Protection later in 1991 as well as two detailed inspection surveys in the spring of 1992 and 1993. The information provided in this report presents the data collected during each of these visits.

2.0 STUDY AREA

Vangorda Creek is located near the town of Faro, Yukon approximately 450km by highway north of Whitehorse (See Figure 1). The creek is a part of the Pelly River basin and is intercepted by four road crossings: 1) The original Blind Creek Road, 2) The Faro Mine Haul Road, 3) The main road to the town of Faro and 4) the Faro Pump House access road. The creek has also been diverted around the Vangorda Open Pit Mine located between the Blind Creek Road crossing and the Faro Mine Haul Road. The study area includes the Vangorda Creek drainage basin between Site V1 on Vangorda Creek (upstream of the Blind Creek Road) and Site V8, the confluence of Vangorda Creek with the Pelly River downstream of the Town of Faro (See Figure 2). The sites sampled include the Vangorda Creek water quality monitoring network as outlined in the Water Licence that was authorized during the period the sampling was taking place. They are as follows:

- V1 Vangorda Creek control; upstream of Blind Creek Road
- V2 Grum Creek immediately upstream of Vangorda Creek
- V4 Shrimp Creek immediately upstream of Vangorda Creek
- V5 West Fork Vangorda Creek immediately upstream of mine road
- V6A Tributary to West Fork Vangorda Creek upstream of Vangorda Mine Road
- V8 Vangorda Creek immediately upstream of Pelly River
- V25 Water Treatment Pond discharge (not shown in Figure 2)
- V27 Vangorda Creek immediately upstream of Shrimp Creek

An additional number of sites not part of the Water Licence monitoring network, were also sampled. They include:

- EP1 Vangorda Creek approximately 150m downstream of the Vangorda Pit Haul Road.
- EP2 surface drainage from the north side of the Vangorda Creek valley wall immediately upstream of the haul road; at a temporary settling

pond.

- EP3 surface drainage from the north side of the Vangorda Creek valley wall immediately upstream of the haul road; downstream a temporary settling pond.
- EP4 surface drainage from the north side of the Vangorda Creek valley wall immediately upstream of the haul road; at a temporary settling pond.
- EP5 Vangorda Creek upstream of the West Fork confluence.
- EP6 Seepage and mud flow area on downstream side of the Haul Road adjacent to Vangorda Creek, right bank.
- EP7 Pelly River downstream of highway bridge, left bank.

DIAND Station 29BC003 Vangorda Creek 100m upstream of the Faro Town road crossing.

Refer to Figure 2A and 2B for the location of the sites listed above.

Stream and river sediments were also collected at several locations throughout the study period on Vangorda Creek and the Pelly River. In September, 1991 only Site V8 was sampled for sediments. In 1993, V8, the Pelly River (shown as EP7 in Figure 2A) and a seepage area upstream of EP1 were sampled (shown as EP6 in Figure 2B).

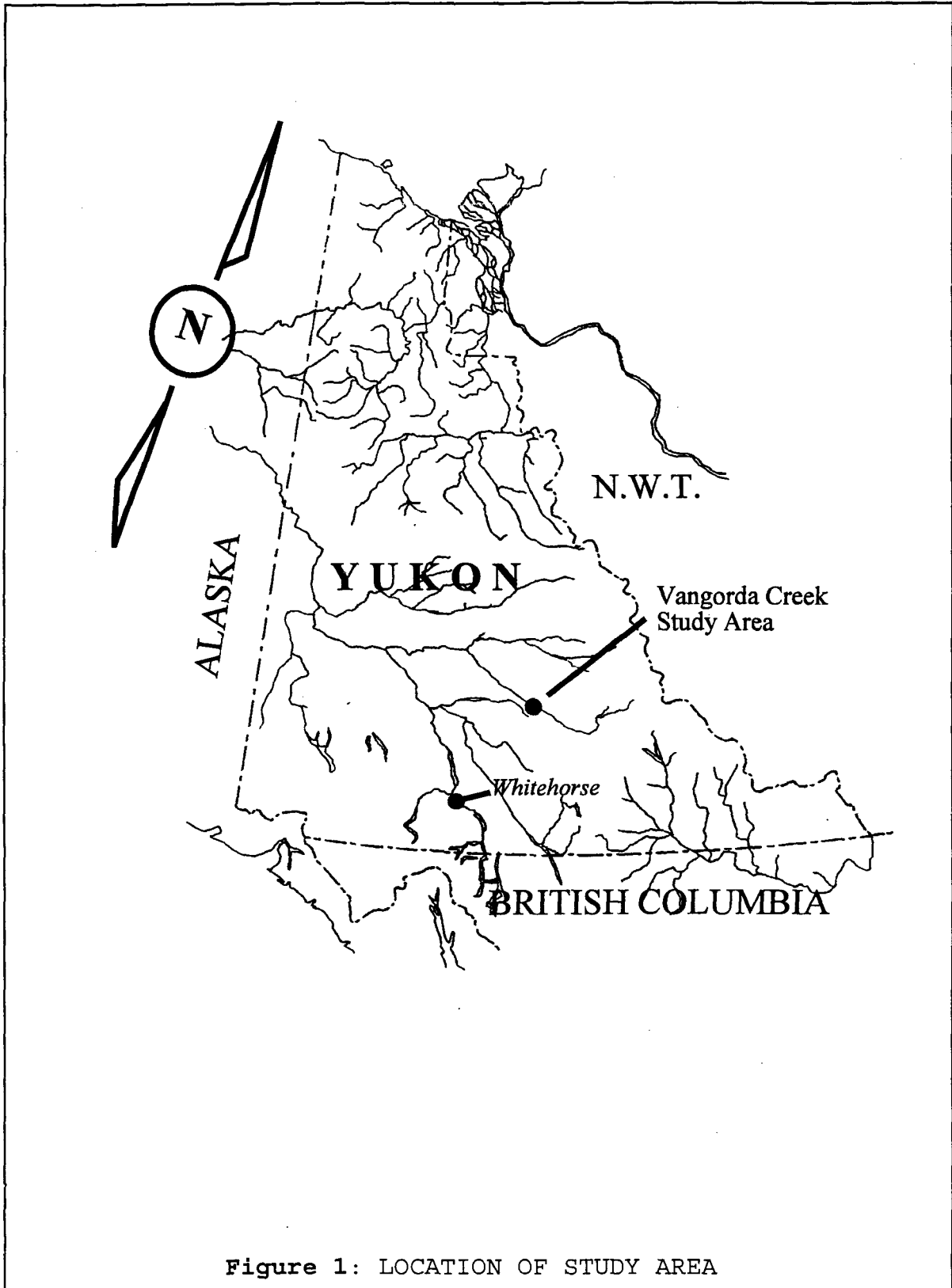
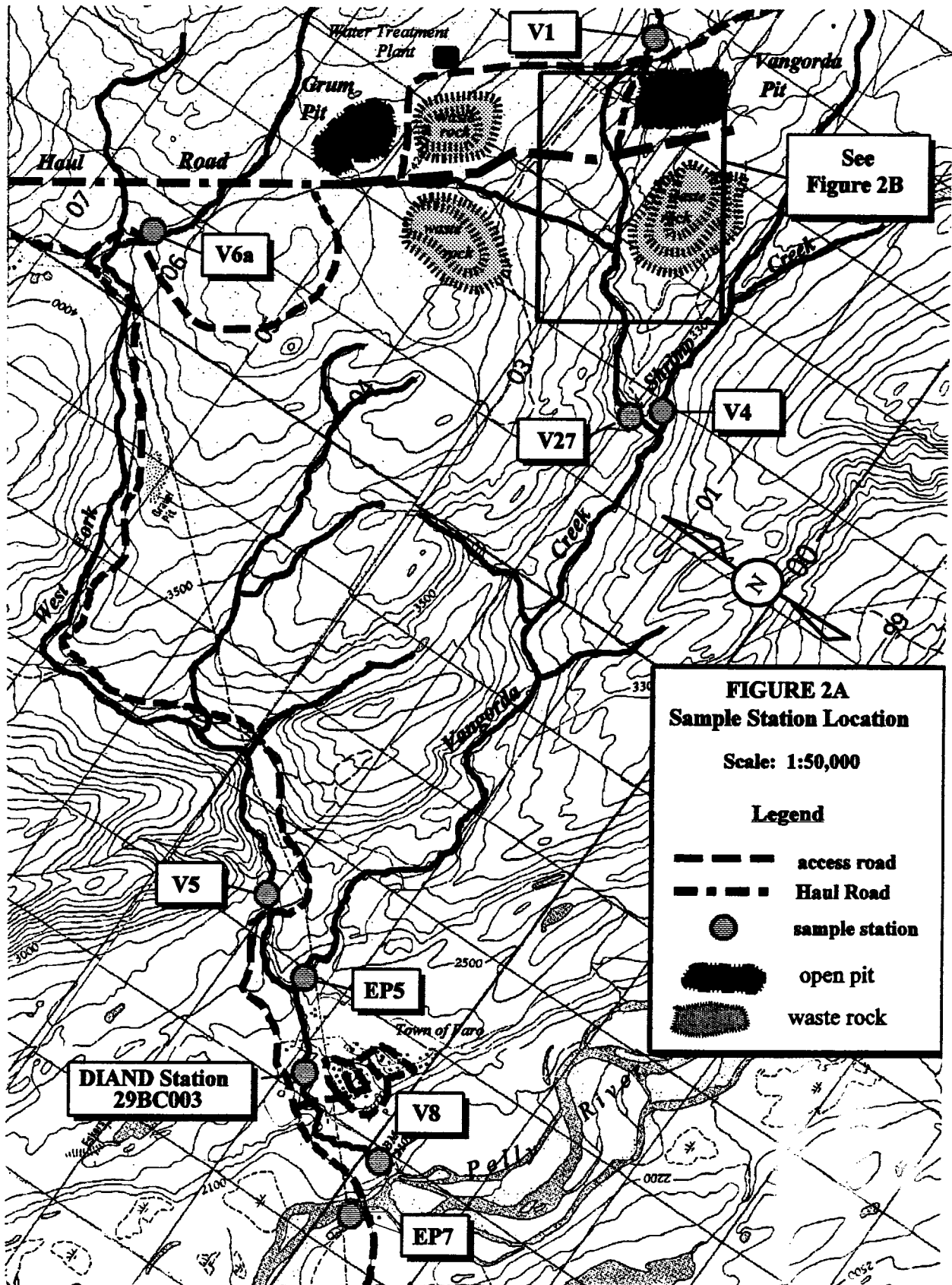
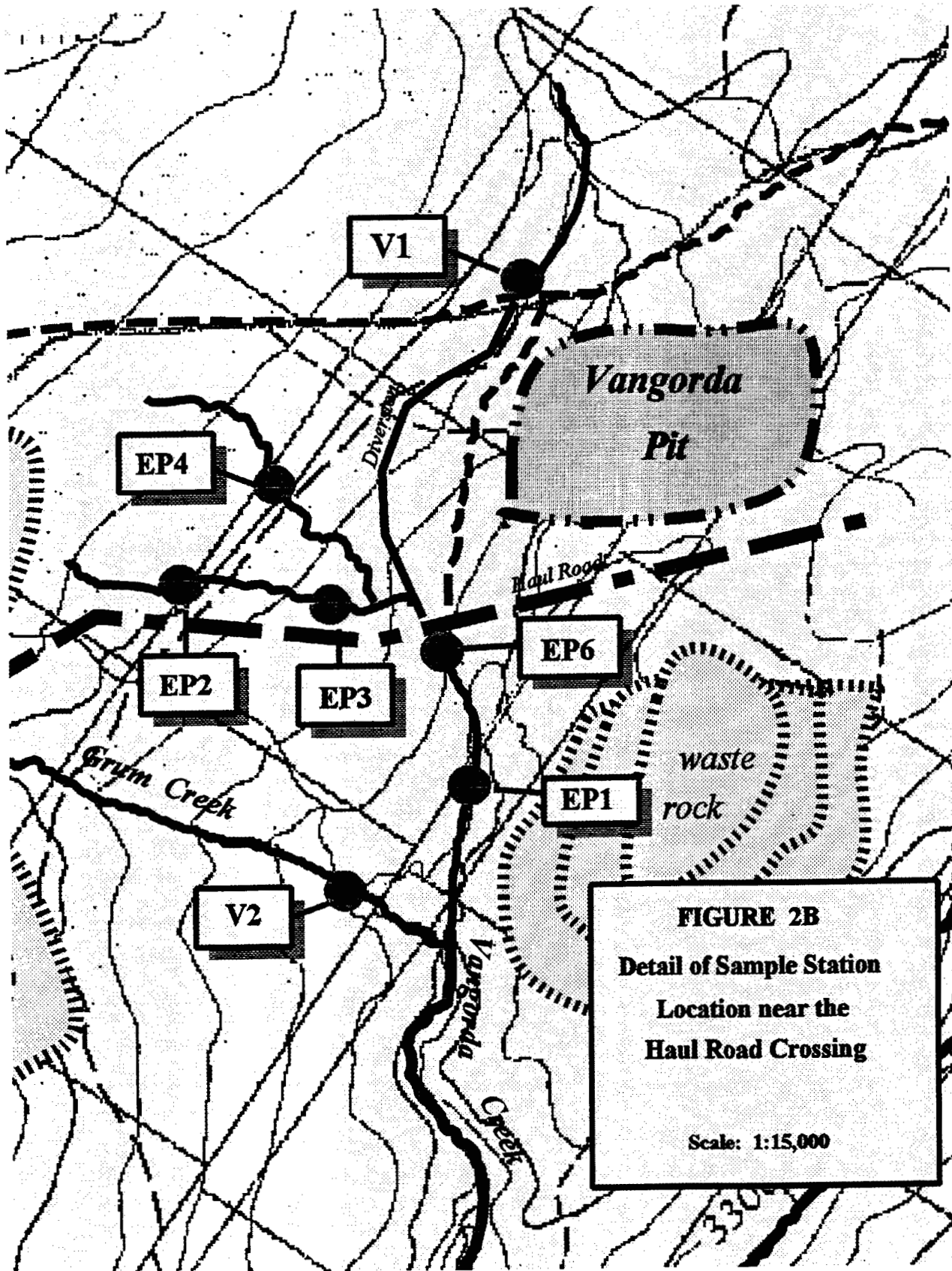


Figure 1: LOCATION OF STUDY AREA





3.0 METHODS

3.1 Water Quality

The methods used to collect grab samples for metals and nutrients analysis in water are consistent with the procedures outlined in the Environment Canada "Sampling for Water Quality" handbook (1983) . All grab samples were collected using polyethylene containers supplied by the Environmental Protection Chemistry lab in Vancouver. The immediate nutrient parameters analysed in each grab sample are as follows:

pH	total phosphorus
conductivity	nitrites
colour	nitrite + nitrate
turbidity	ammonia
non-filterable residue	sulphate
total alkalinity	chloride
filterable residue	

The following parameters were analysed in each of the dissolved and total/extractable metals samples:

aluminium(Al)	molybdenum(Mo)
antimony(Sb)	nickel(Ni)
arsenic(As)	phosphorus(P)
barium(Ba)	potassium(K)
beryllium(Be)	selenium(Se)
boron(B)	silicon(Si)
cadmium(Cd)	silver(Ag)
calcium(Ca)	sodium(Na)
chromium(Cr)	strontium(Sr)
cobalt(Co)	tin(Sn)
copper(Cu)	titanium(Ti)
iron(Fe)	vanadium(V)
lead(Pb)	zinc(Zn)
magnesium(Mg)	
manganese(Mn)	

Sample preparation and preservation of grab samples (where required) took place in the field immediately following the collection.

In order to more accurately characterize suspended sediments and heavy metals concentrations in Vangorda Creek during the spring freshet period, ISCO Automatic Wastewater Samplers (Model 2700 and 3700) were utilized in 1992 and 1993 to collect a series of 1L daily composite samples over the course of several weeks during the months of May and June. The automatic samplers were installed at the following sites (See Figure 2A and 2B for location):

Station V1 (Vangorda Creek)

Station V8 (Vangorda Creek)

EP1 (Vangorda Creek)

EP2 (drainage); 1993 only

Tygon pump tubing and 1L polyethylene sample containers for each of the automatic samplers were cleaned, acid washed and rinsed with distilled water at the EP Lab in Whitehorse prior to use. In 1992, 10ml of concentrated nitric acid was added to each sample container at the start of the sample period in order to ensure immediate preservation of the sample following collection. This procedure was not included in the 1993 sampling plan due to the adverse effects of concentrated nitric acid fumes on certain components of the automatic samplers.

TABLE 1 DURATION OF SAMPLE PERIODS FOR 1992 AND 1993

LOCATION	START DATE	END DATE	# OF DAYS
V1	22-MAY-1992	06-JUN-1992	16
V1	04-MAY-1993	08-JUN-1993	36
V8	22-MAY-1992	05-JUN-1992	15
V8	07-MAY-1993	25-MAY-1993	19
EP1	22-MAY-1992	10-JUN-1992	20
EP1	05-MAY-1993	02-JUN-1993	29
EP2	07-MAY-1993	08-JUN-1993	33

Each automatic sampler was programmed to collect 1L daily composite samples over a period ranging from 2 to 3 weeks. The daily composite sample schedule initiated at 08:00, 16:00 and at 24:00 hours each day. Sample volume was set at 300ml for each sub-sample resulting in an approximate total volume of 900ml (\pm 50ml). The samplers were programmed to purge the intake line prior to collection of each sub-sample. The sample periods for each of the two years is shown in Table 1.

The differences in the length of the sample periods during both years is due to sampler malfunction as a result of either intake hose freeze-up early in May, intake hose breakage or plugging of the intake hose by gravel and sand. The automatic samplers were visited on two or more occasion during the sample period to correct any problems and to replenish sample bottles. These visits took place one to two days after the start of the sample period and again in the first or second week of operation. Each automatic sampler was powered using a deep cycle 12 volt automotive battery.

Field QA/QC was accomplished in two different ways. Grab samples were collected at the beginning, once during the sample period and at the end of the sample period for a complete chemical analysis. A series of in situ blanks were included with all grab and composite sample sets submitted to the lab for analysis. In situ quality control for each of the automatic samplers was accomplished by manually filling one of the 1L sampler bottles with deionized water at the start of the sampling period and then filling a second bottle with deionized water at the end of the sample period. Each of the sample blanks were then treated and analysed in the same fashion as the actual samples. All in situ control samples were submitted to the Environmental Protection Lab in Vancouver as hidden blanks.

The daily composite samples were analysed for non-filterable residues and total and extractable metals.

In situ temperature, pH, conductivity and dissolved oxygen measurements were taken at each of the sample sites at the beginning and the end of the sample periods using an "Aquamate 1000" multi-probe datalogging instrument. The device was deployed at each site for a approximately 10 minutes, monitoring at 10 second intervals. Data collected on each visit was downloaded onto a microcomputer for processing and averaging. A mean value for the parameters measured was calculated from 12 intervals measurements at the end of the logging sequence for a given site.

3.2 Sediments

Streambed and suspended sediments were collected from the lower portion of Vangorda Creek in 1991 and in 1993. Grab samples were randomly collected using a Teflon scoop from the streambed in the vicinity of V8 in October, 1991 and in September, 1993. In October, 1993 suspended sediment from Vangorda Creek were also collected using an "Alfa Laval" continuous flow centrifuge. Water from Vangorda Creek at V8 and the Pelly River (EP7) was centrifuged over a 10 hour period from each of the sites. Due to the time of year when suspended sediment loading is generally low in surface waters, the volume of sediment material recovered was low, however, a sufficient amount was obtained for sequential extraction analysis.

Streambed samples for both years were analysed for the following metals:

aluminium(Al)	manganese(Mn)
antimony(Sb)	molybdenum(Mo)
arsenic(As)	nickel(Ni)
barium(Ba)	phosphorus(P)
beryllium(Be)	potassium(K)
boron(B)	selenium(Se)
cadmium(Cd)	silicon(Si)
calcium(Ca)	silver(Ag)
chromium(Cr)	sodium(Na)
cobalt(Co)	strontium(Sr)
copper(Cu)	tin(Sn)
iron(Fe)	titanium(Ti)
lead(Pb)	vanadium(V)
magnesium(Mg)	zinc(Zn)

A sequential extraction analysis was performed on the 1993 streambed and centrifuge suspended sediment samples for As, Cd, Cu, Fe, Pb and Zn. The sequential extract procedure results in five fractions for the evaluation of speciation of particulate metals. Following standard drying procedures, the sample is then sieved to $63\mu\text{m}$ mesh size and homogenized. The samples are then weighed into 40ml high speed centrifuge tubes and/or

Teflon PFA digestion vessels (depending on the fraction) and subjected to a sequential leaching procedure designed to partition trace metals into the following fractions:

- Fraction (1): **Exchangable Metals.** Sediment sample is extracted with 1M $MgCl_2$ initially at pH 7 at room temperature for one hour on a wrist action shaker.
- Fraction (2): **Metals bound to a carbonates or specifically absorebed.** The residue from (A) is leached with 1M sodium acetate adjusted to pH 5 with acetic acid at room temperature for five hours on a wrist action shaker.
- Fraction (3): **Metals bound to Fe-Mn Oxides.** The residue from (B) is extracted at 96° C for six hours with 0.04 $NH_2OH.HCl$ in 25% (v/v) acetic acid.
- Fraction (4): **Metals bound to organic matter and sulfides.** The residue from (C) is extracted at 85° C for five hours with 0.02 M HNO_3 + 30% H_2O_2 adjusted to pH 2 with HNO_3 , and then at room temperature with 3.2 M NH_4Ac in 20% (v/v) HNO_3 on a wrist action shaker.
- Fraction (5): **Residual Metals.** The original dried samples are weighed in Teflon PFA digestion vessels and digested with NHO_3 , and Hcl in a microwave oven, resulting in a total fraction (MT). The residual fraction (E) is calculated via:

$$(E) = MT - [(A)+(B)+(C)+(D)]$$

Sequential extraction analysis for Cu, Zn, As and Cd is performed via Inductively Coupled Argon Plasma (ICAP) Emission Spectrometry (simultaneous multi-element analysis). Analysis for Pb and Fe is performed via Atomic Absorption (AA) Spectrometry.

The ICAP metals analysis for stream sediment samples was performed by the Environmental Protection Laboratory in Vancouver, B.C. while the sequential extraction analysis was performed by the Saskatchewan Research Council in Saskatoon, Saskatchewan. The NIST 1646 Standard was included with the stream sediment sample set and was analysed for reference and QA/QC purposes.

4.0 RESULTS

4.1 Water Quality

Water quality data for grab samples and daily composite samples is provided in Appendix I, Tables 1 through 6. Refer to the information on each of the tables for the date and location the data was collected. In each case the raw data is presented, however, where there were replicate samples for a particular site (in some cases three samples were collected at a given site for QA/QC purposes), then a mean and standard deviation is given.

The data was compared with the Fisheries Act Metal Mining Liquid Effluent Regulations (MMLER) as well as with the Yukon Territory Water Board (YTWB) Water Licence requirements in effect at the time of the sample collection (Part C - Conditions applying to Operation, Licence IN89-002). Please note that sites EP1 through EP7 are not license monitoring sites as outlined in the YTWB Water License. Therefore, references to regulatory levels outlined in the YTWB Water License and the MMLER for non-filterable residue, cadmium, copper, lead and zinc are given for discussion purposes only. Readers should also note that water quality data provided for Stations EP2 characterize the effects of a temporary settling pond in place at the time the sampling took place in 1993.

The highest concentrations of suspended sediment and heavy metals found in Vangorda Creek were generally at EP1, however, other sites did reflect elevated levels on occasion during the sample periods. The majority of the heavy metals and suspended sediments documented in Vangorda Creek at EP1 are suspected to originate from a mud flow and groundwater seepage area at the toe and side slope along the downstream face of the Haul Road (EP6). Typically, the snow along this portion of the Haul Road melts well in

advance of the spring freshet period and the sediments laden with heavy metals are carried with the melt water into the stream channel. Since Vangorda Creek water levels are at or near the seasonal low during this early thaw period (i.e. low volume, low velocity), the sediments have an opportunity to settle out in the creek channel within a short distance of where they enter. The material eventually becomes re-suspended and is transported considerable distance downstream when water levels and velocity increase dramatically as a result of the spring freshet. Typically this event happens sometime over a three to four week period between early May and early June and is mostly dependant on a significant increase in daytime temperatures. Other factors such as precipitation and in-stream work by the mining company also has the potential to contribute significant sediment loadings into Vangorda Creek in the area of the Haul Road.

Other potential sources such as the drainage from the Grum waste rock piles, the water treatment plant along the north face of the valley (immediately upstream of the Haul Road), Grum Creek and the West Fork of Vangorda Creek do contribute suspended sediments to Vangorda Creek. However, these sources enter the creek channel downstream of EP1. There, the bulk of the sediment loading is suspected to originate from the immediate vicinity of the Haul Road crossing.

For the purposes of this report, the following parameters will be discussed in detail: suspended sediments (NFR), Cd, Cu, Pb and Zn. The balance of the parameters analysed in the water samples are not discussed in any detail. Refer to the appendices for data on other parameters not listed above.

4.1.1 Suspended Sediments

The MMLER specifies a maximum authorized concentration of 50 mg/L and 37.5 mg/L for grab and composite samples, respectively, for suspended sediment (NFR) in a discharge from a mining operation. The YTWB specifies a maximum limit of "not greater than 15 mg/L" in a waste discharge. NFR data collected during the study periods at EP1 ranged from 20 to 11,000 mg/L (see Figure 3 and 4). The maximum level (of 11,000 mg/L) reported for a grab sample collected 05-May-1993 was an unusual occurrence and is not consistent with the NFR concentration found in the composite sample collected at EP1 on the same day. However, heavy metals data for the grab sample does indicate an event did occur which resulted in an unusually high concentration of suspended material entering the creek around the time the sample was collected. This is also supported by observations recorded in the field about the unusually high concentration of suspended sediment in the creek at the time the samples were collected (at approximately 16:00 hours). A confirmation analysis was also performed on the sample to ensure it's accuracy (personal comm., Maria Arauja, EP Chemistry Lab).

NFR values at other sites sampled were elevated on certain dates. In 1993 at EP2 (a settling pond) NFR values were low for the first seven days of the sample period. However, on 14-May-1993 NFR values increased to 3600 mg/L and were sustained at levels ranging from 500 to 5400 mg/L for the next 9 days until 21-May-1993 (see Figure 5). Based on verbal communications with mine staff on site at that time, the settling pond impoundment (where the automatic sampler at EP2 was sampling) failed sometime on the 14th resulting in the redistribution of impounded sediments down slope towards Vangorda Creek (personal comm., Bill Dunn, Mine Manager).

Figure 3 : NFR at Station EP1
22-May-92 to 10-Jun-92

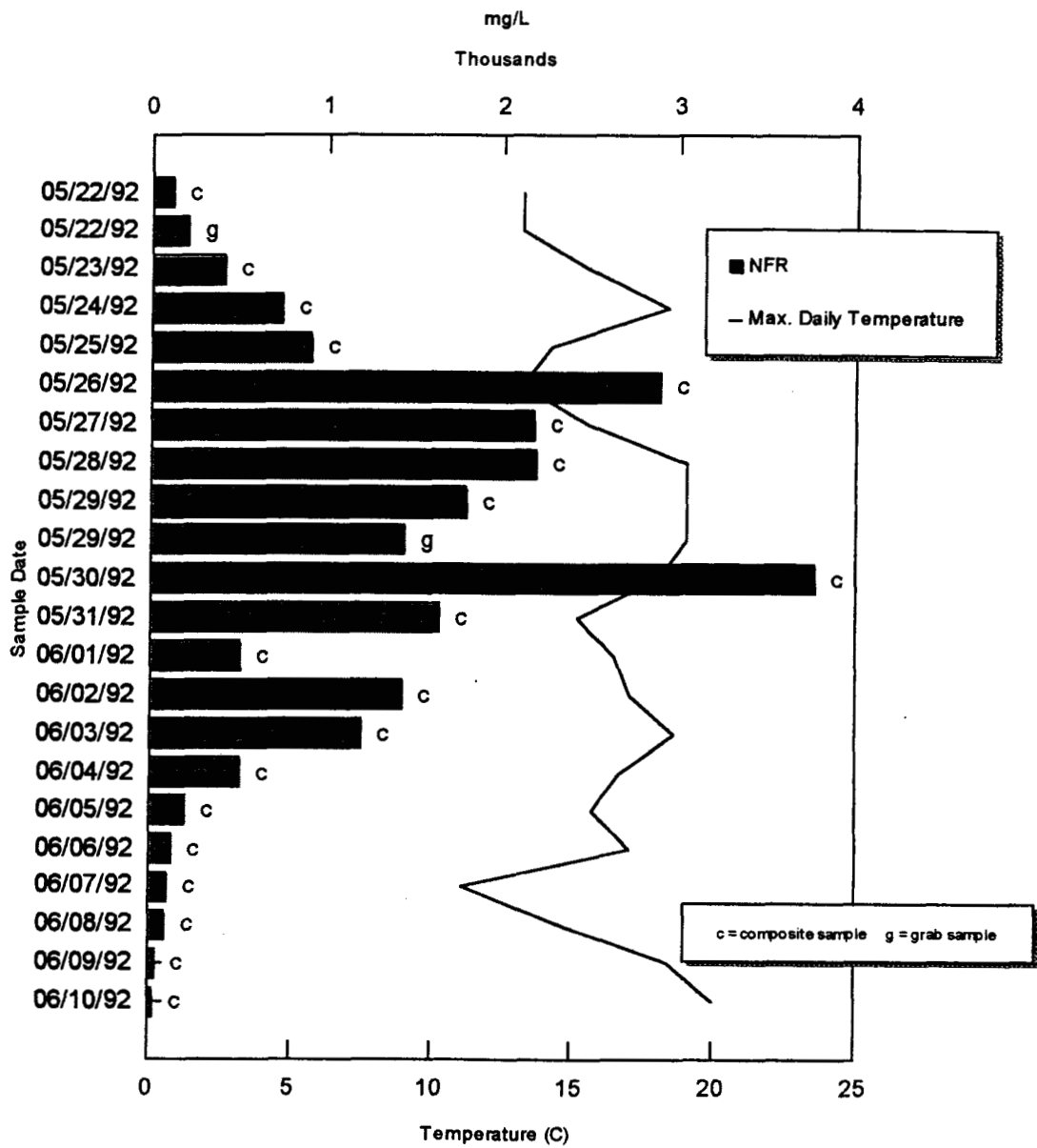
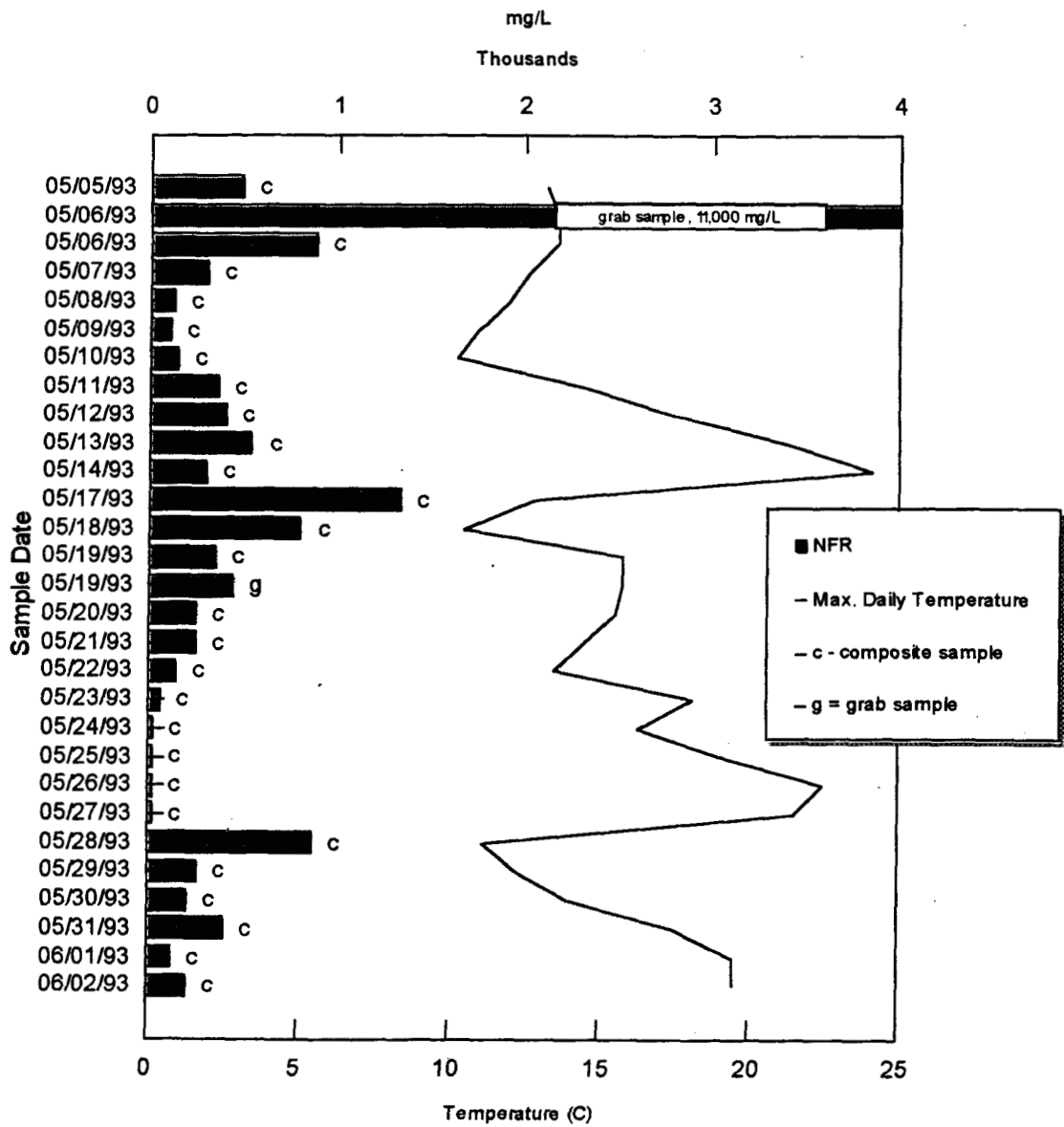
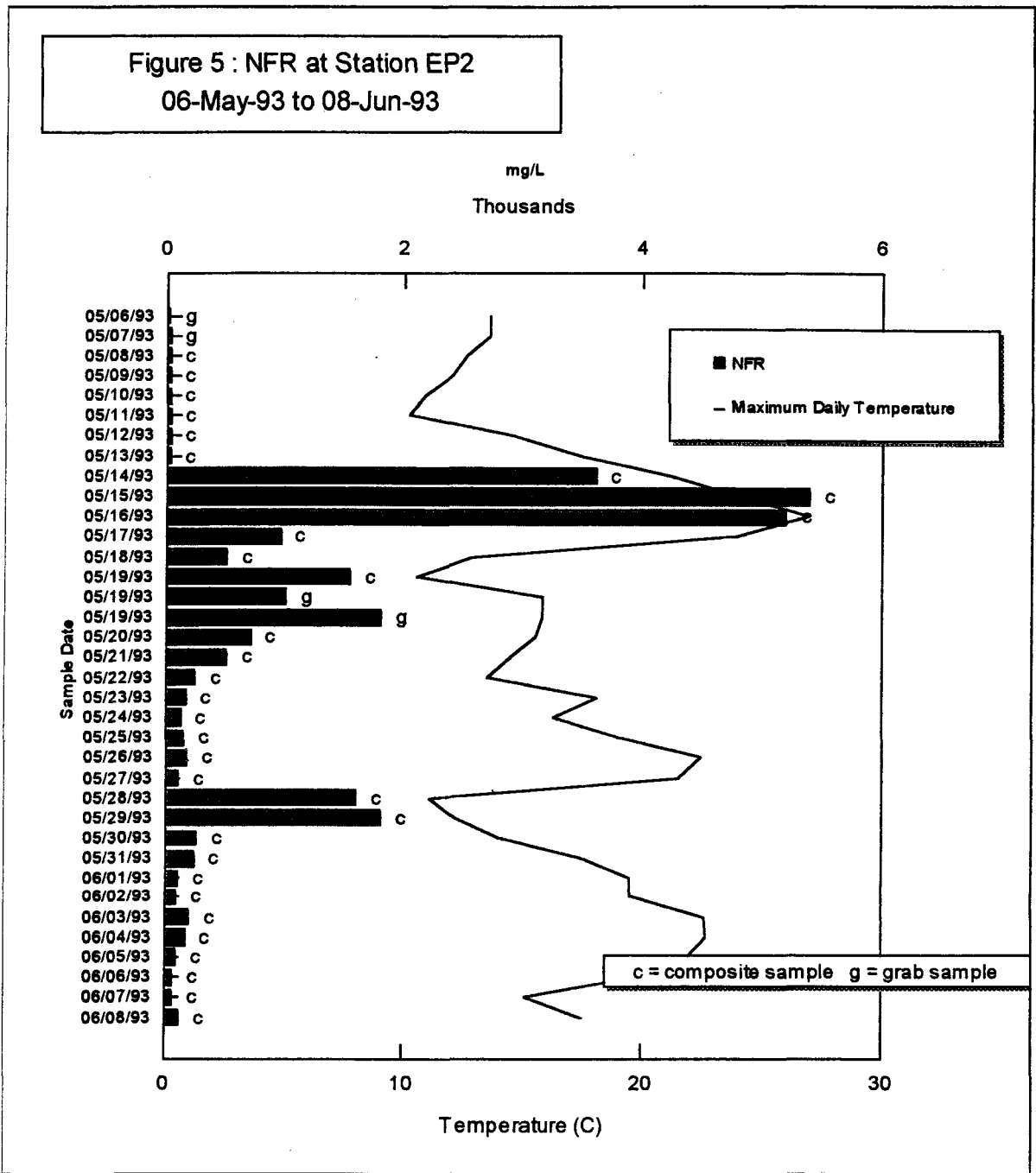


Figure 4 : NFR at Station EP1
05-May-93 to 02-Jun-93



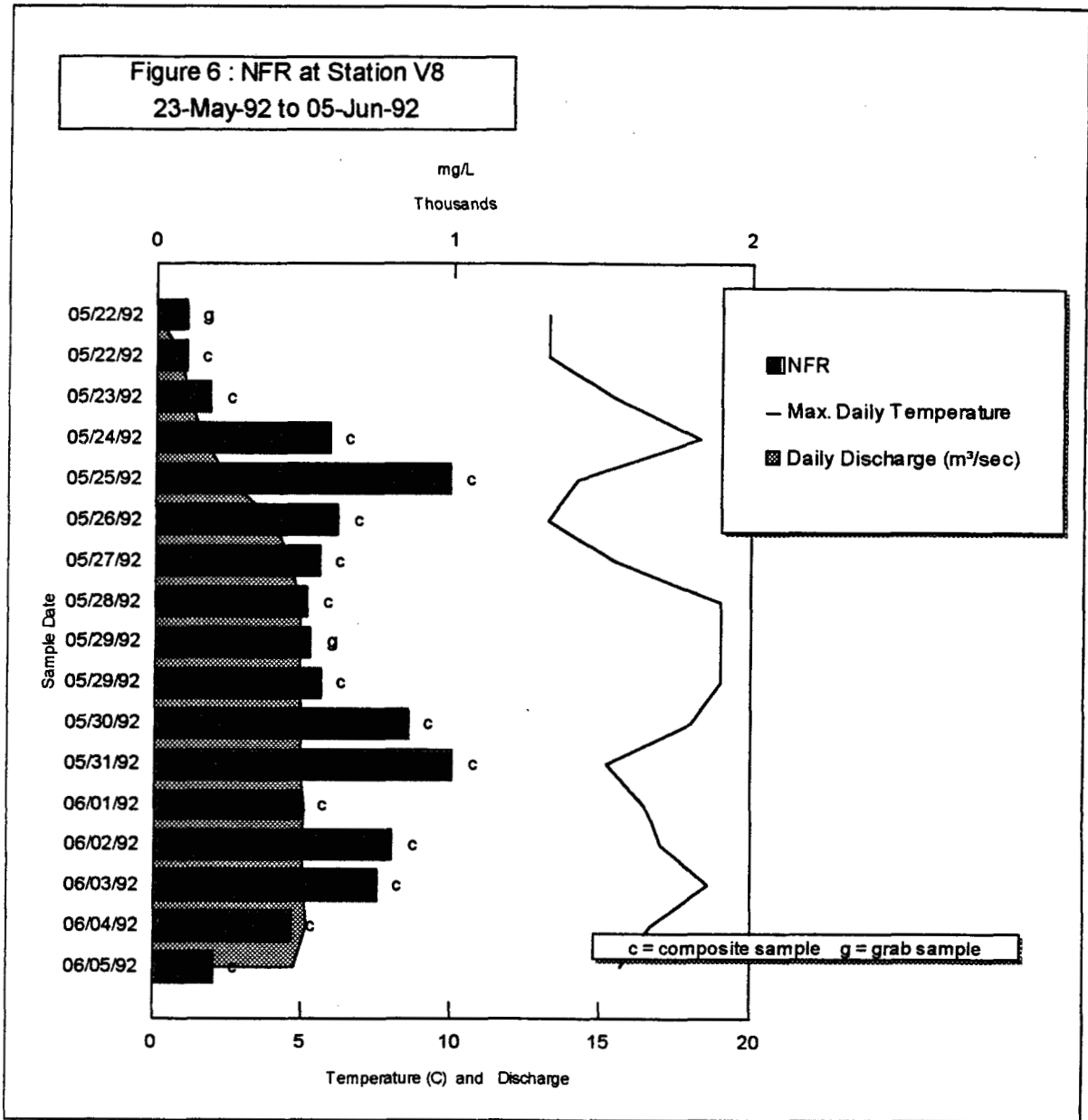


At V8, NFR ranged from 10 to 1800 mg/L for the 1992 and 1993 sample periods with the highest value occurring 17-May-1993 (see figures 6 and 7). In comparison with other daily composites for this date, EP1 and EP2 show similar values. This indicates the elevated levels could be, in part, due to the failure of settling ponds at EP2. It should be noted that there is no data for EP1 for the 15th and 16th of May, 1993 due to an absence of sample in the bottles during these two days. The cause of this is not known but is suspected to be blockage of the pump intake hose. Stream flow data provided by Indian and Northern Affairs Canada - Water Resources (unpublished data) for this site is presented in Figures 6 and 7 to show the relationship between stream flow, suspended sediment loading and maximum daily temperatures.

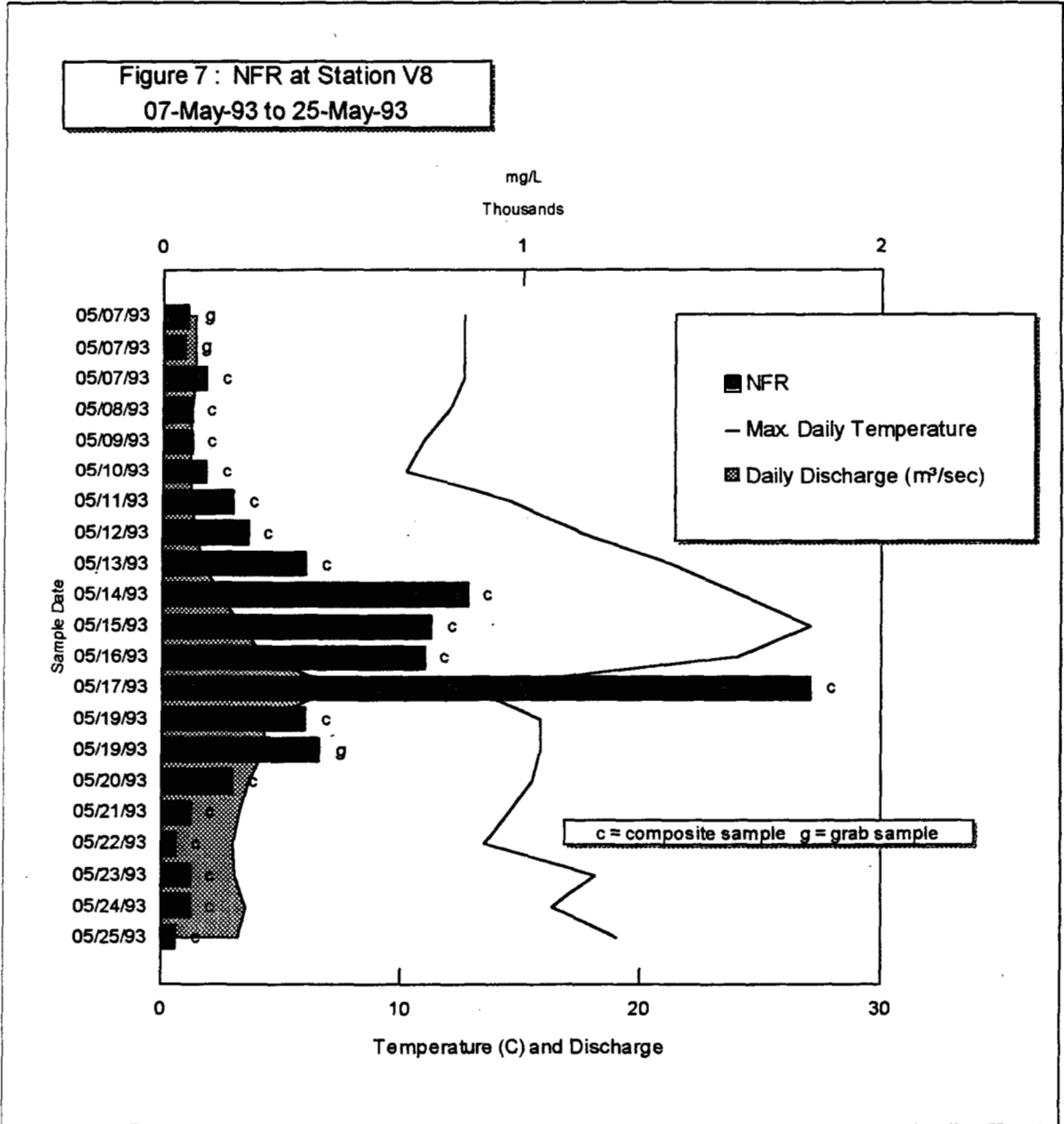
NFR values at V1, upstream of the mine site, show there were no elevated levels or significant events of suspended sediment in the creek. The maximum detectable level for V1 was 40 mg/L.

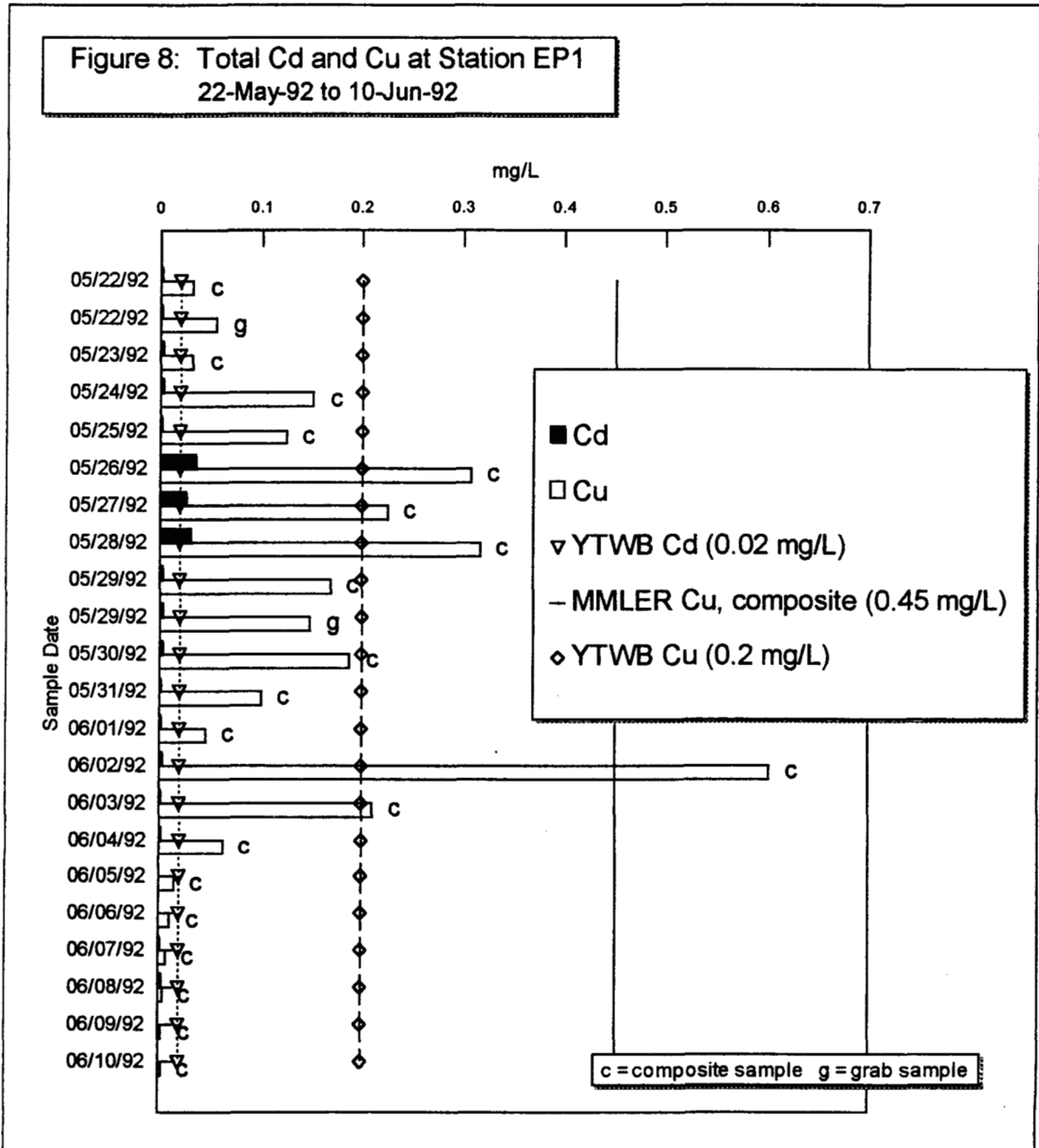
4.1.2 Cadmium

Total Cd levels were generally low throughout the sample periods in 1992 and 1993 with a few exceptions. Cd exceeded the YTWB Licence level of 0.02 mg/L on three consecutive days in 1992 (May 26 to May 28), and on one day in 1993 (May 6) at Station EP1 (see Figures 8 and 9). Non-compliance levels were also noted at Station EP2 in 1993 (see Figure 10). This came about following the failure of a settling pond (at EP2) the evening of May 13 as a result of a heavy rain storm, however, there does not appear to be any significant increase in Cd downstream at EP1 for the same period. MMLER does not specify a maximum concentration of Cd for mine waste water.

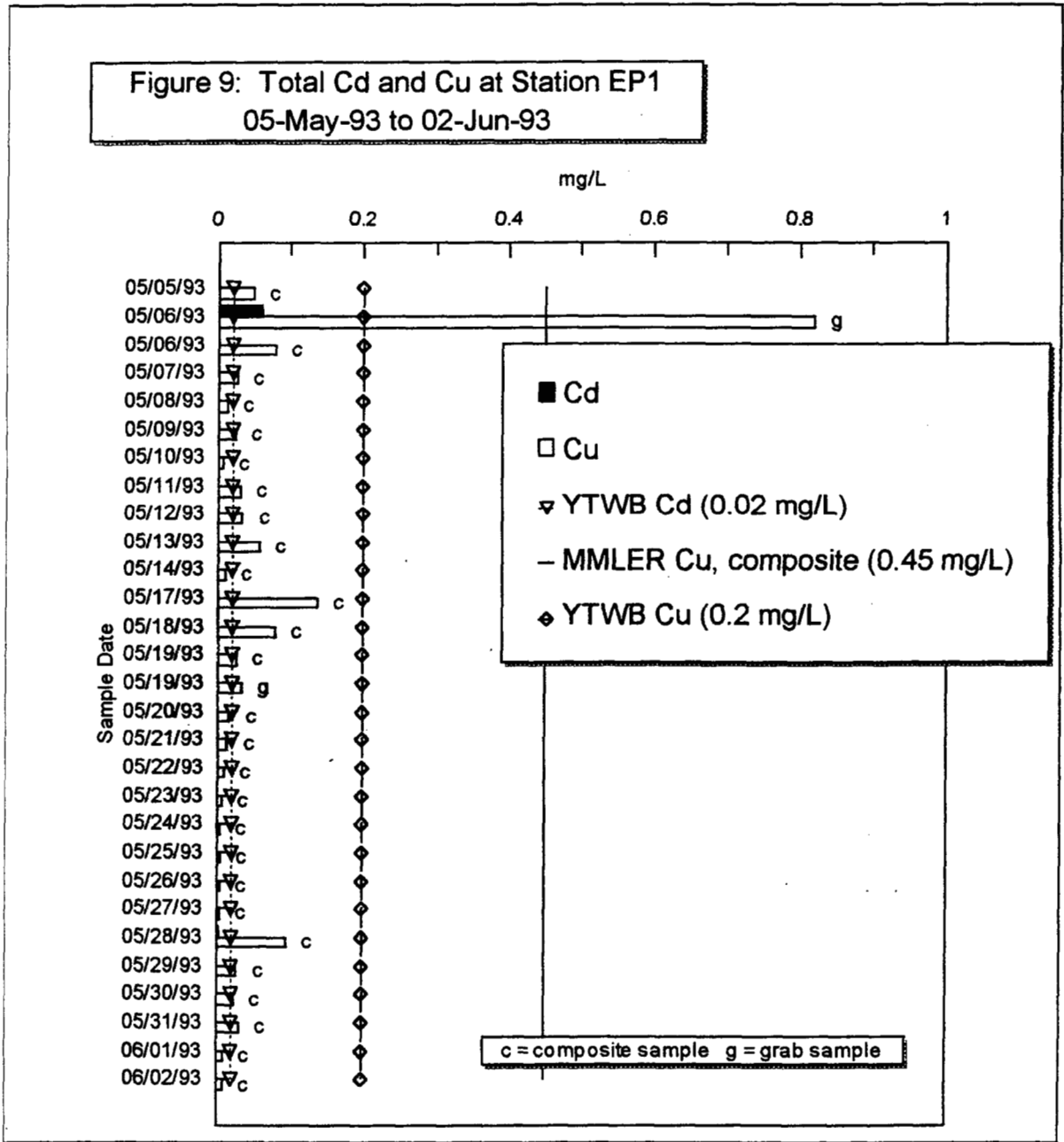


**Figure 7 : NFR at Station V8
07-May-93 to 25-May-93**



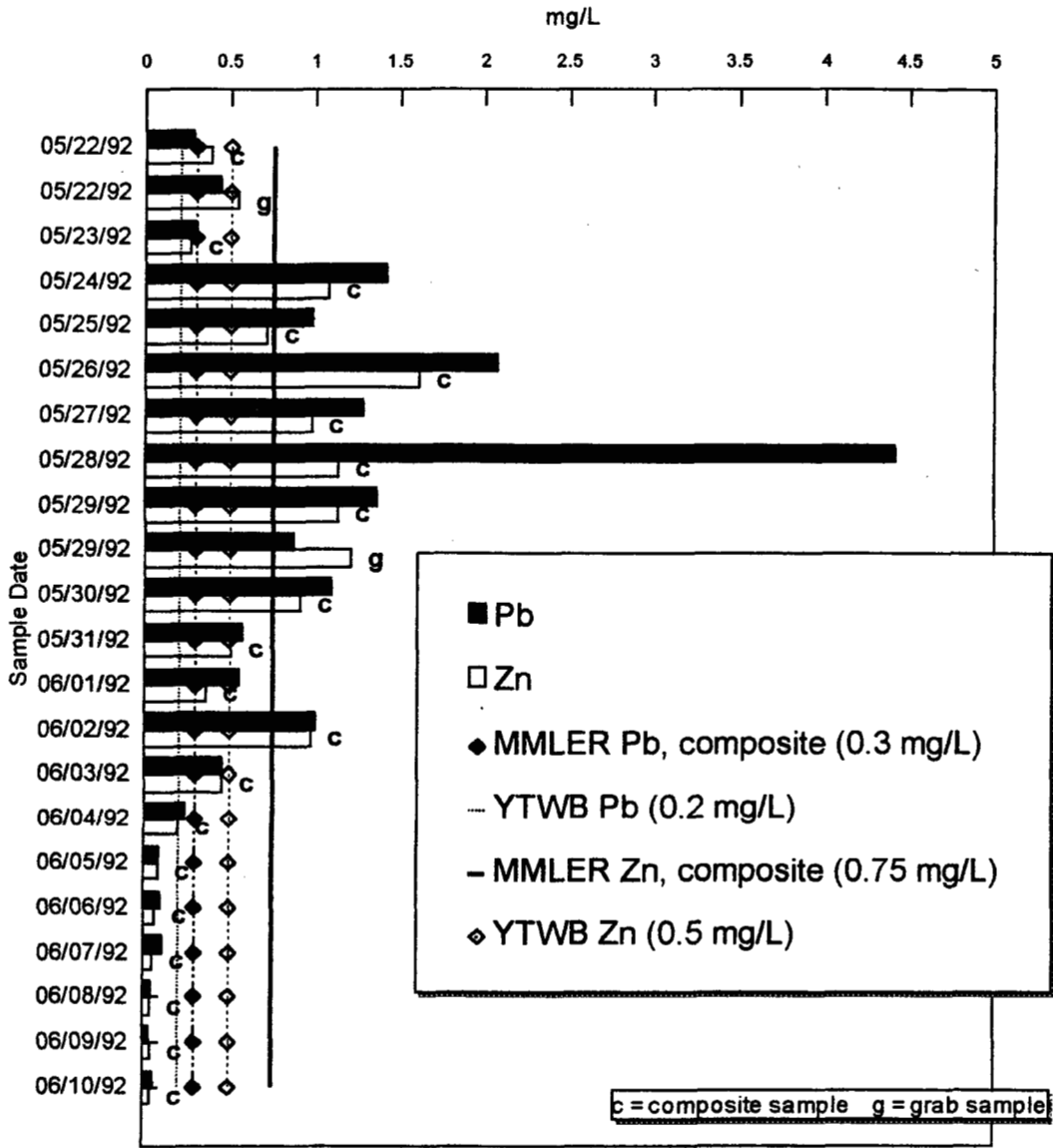


Regulatory levels are provided for reference purposes only.



Regulatory levels are provided for reference purposes only.

Figure 11 : Total Pb and Zn at Station EP1
22-May-92 to 10-Jun-92



Regulatory levels are provided for reference purposes only.

greater than 1.0 mg/L. Two grab samples collected during this period also exceeded the MMLER for a grab sample (0.4 mg/L). During this same period at EP1, the YTWB Licence level for Total Pb (0.2 mg/L) was exceeded on 14 of the days sampled.

Noncompliance with MMLER during the 1993 sample period occurred at EP1 on 5 of the days sampled, ranging from 0.3 mg/L to 0.79 mg/L total Pb (see Figure 12). One grab sample collected at EP1 06-May-1993 (6.76 mg/L) exceeded the MMLER for a grab sample for total Pb. The YTWB Licence level for total Pb was exceeded on 8 of the days sampled.

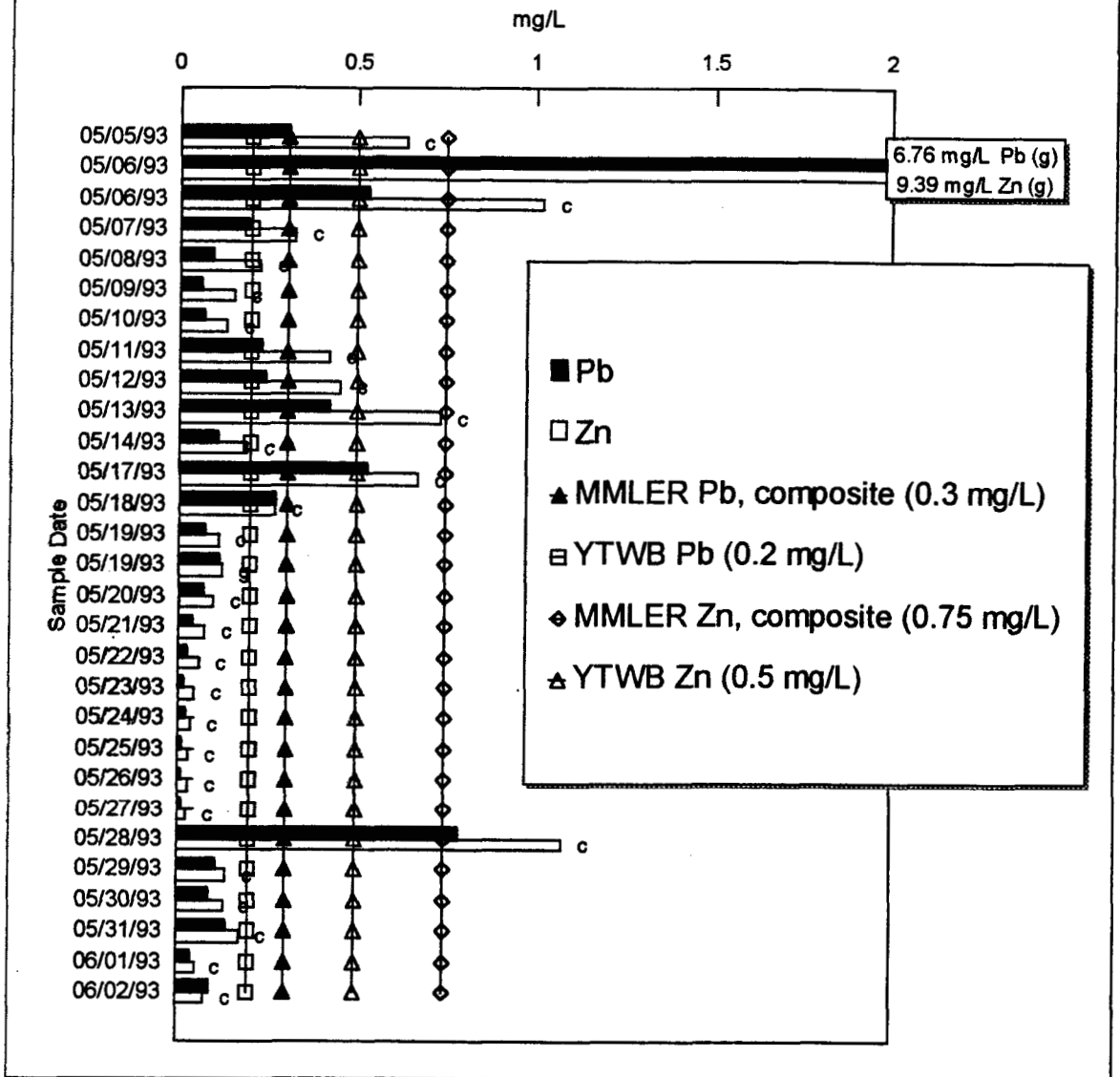
At EP2 during this same period, total Pb exceeded MMLER on 5 days, ranging from 0.33 mg/L to 1.3 mg/L (see Figure 13). The number of days total Pb exceeded the YTWB requirements at this site for the same period was 7.

Noncompliance with MMLER and/or YTWB requirements for Pb was documented at a number of other sites as well. Specifically, at V27 and EP5 on 22 and 23-May-1991 (1.22 and 1.29 mg/L respectively) and at V2 on 06-May-1993 (0.74 mg/L). At V8, Pb exceeded 0.2mg/L on 20 occasions during the 1992 sample period ranging from 0.23 to 1.17 mg/L (see Figure 14). The maximum concentration occurred on 25-May-1992. During the 1993 sample period the maximum concentration for a grab or composite sample was 0.88 mg/L (see Figure 15).

4.1.5 Zinc

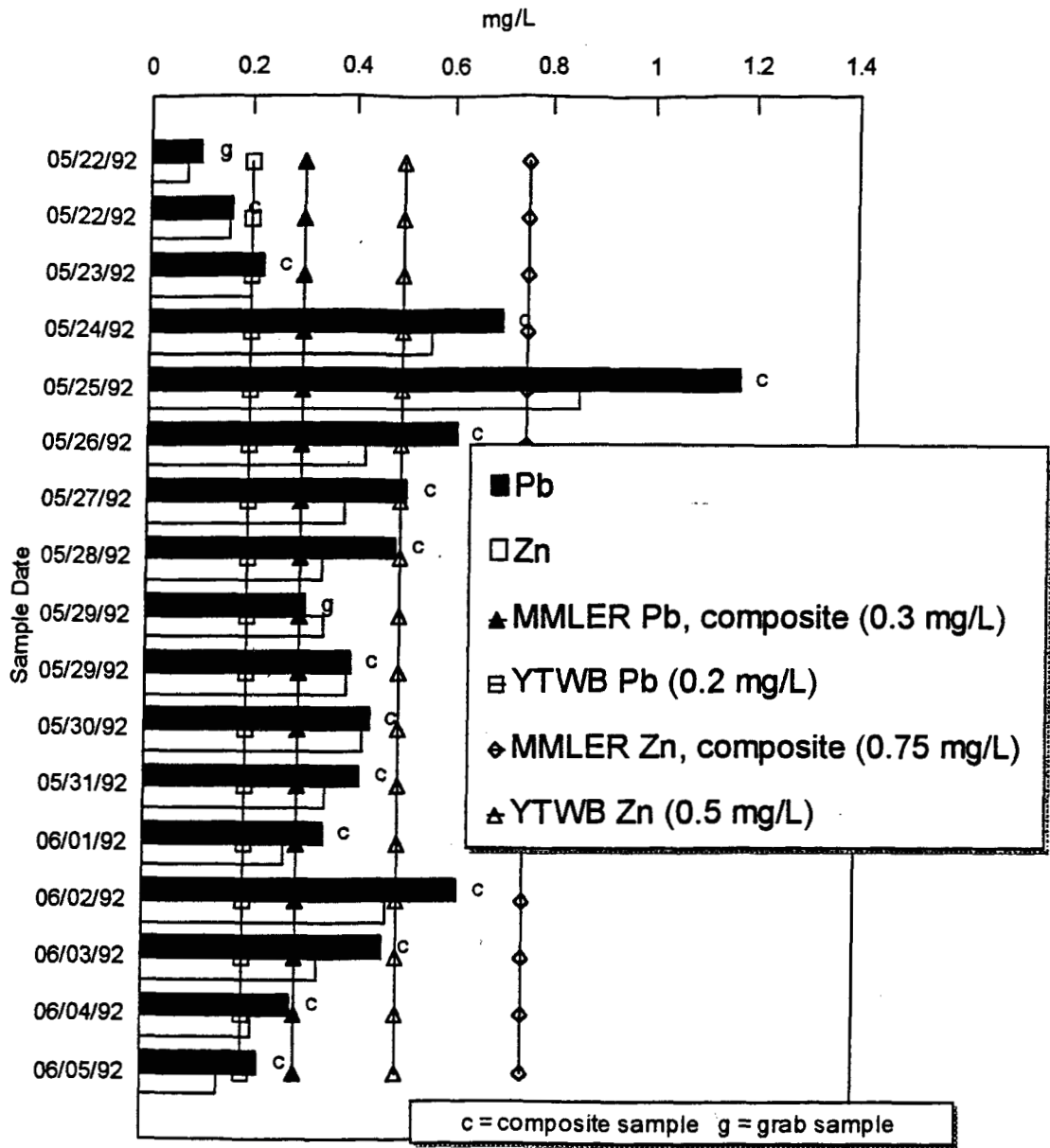
Total Zn exceeded MMLER at EP1 on 22-May-1991 (0.755 mg/L), on 7 occasions during the 1992 sample period, ranging from 0.913 mg/L to 1.62 mg/L for composite samples, and on 2 occasions during the 1993 sample

**Figure 12 : Total Pb and Zn at Station EP1
05-May-93 to 02-Jun-93**

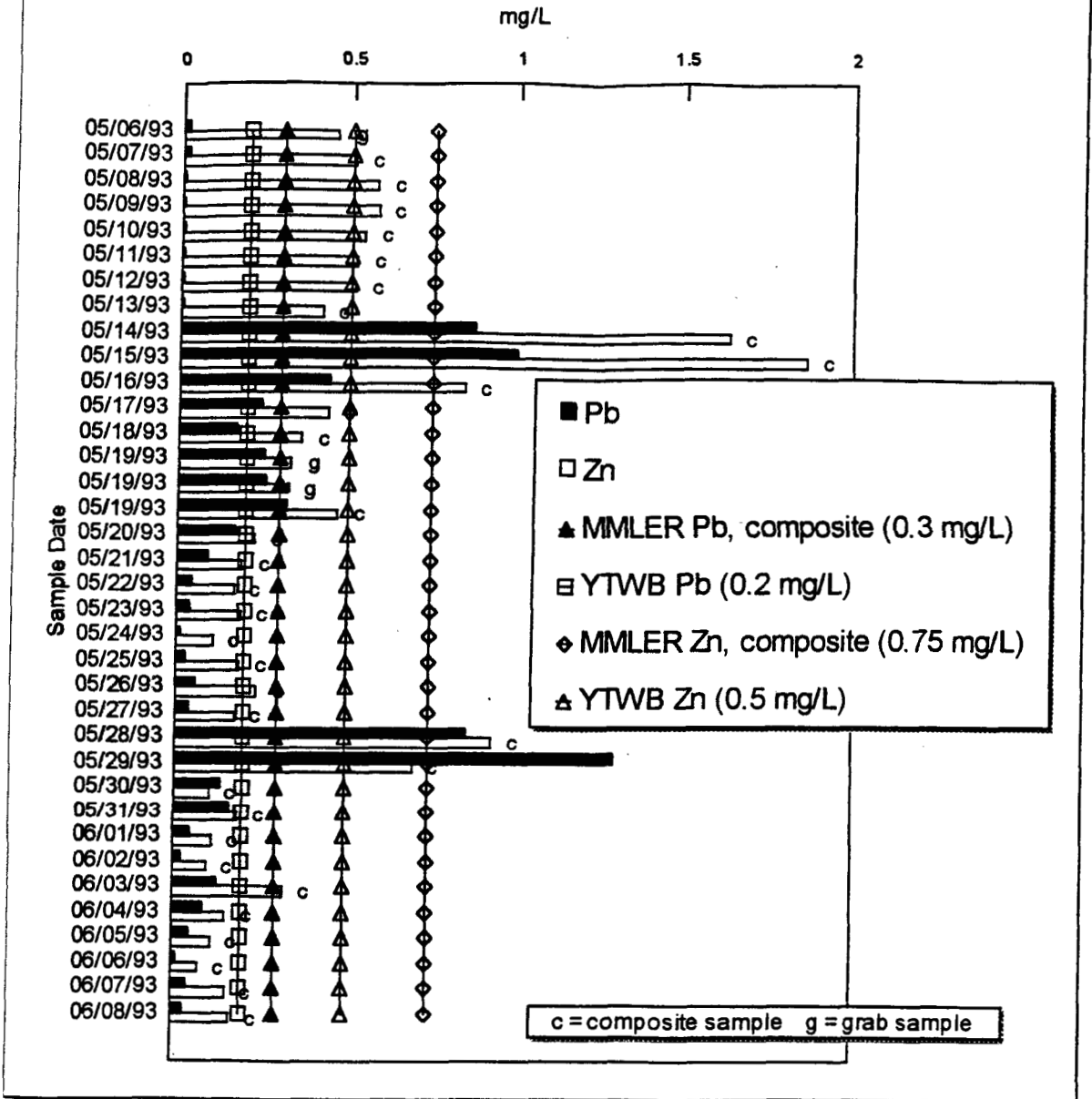


c = composite sample g = grab sample
Regulatory levels are provided for reference purpose only.

**Figure 14 : Total Pb and Zn at Station V8
22-May-92 to 05-Jun-92**

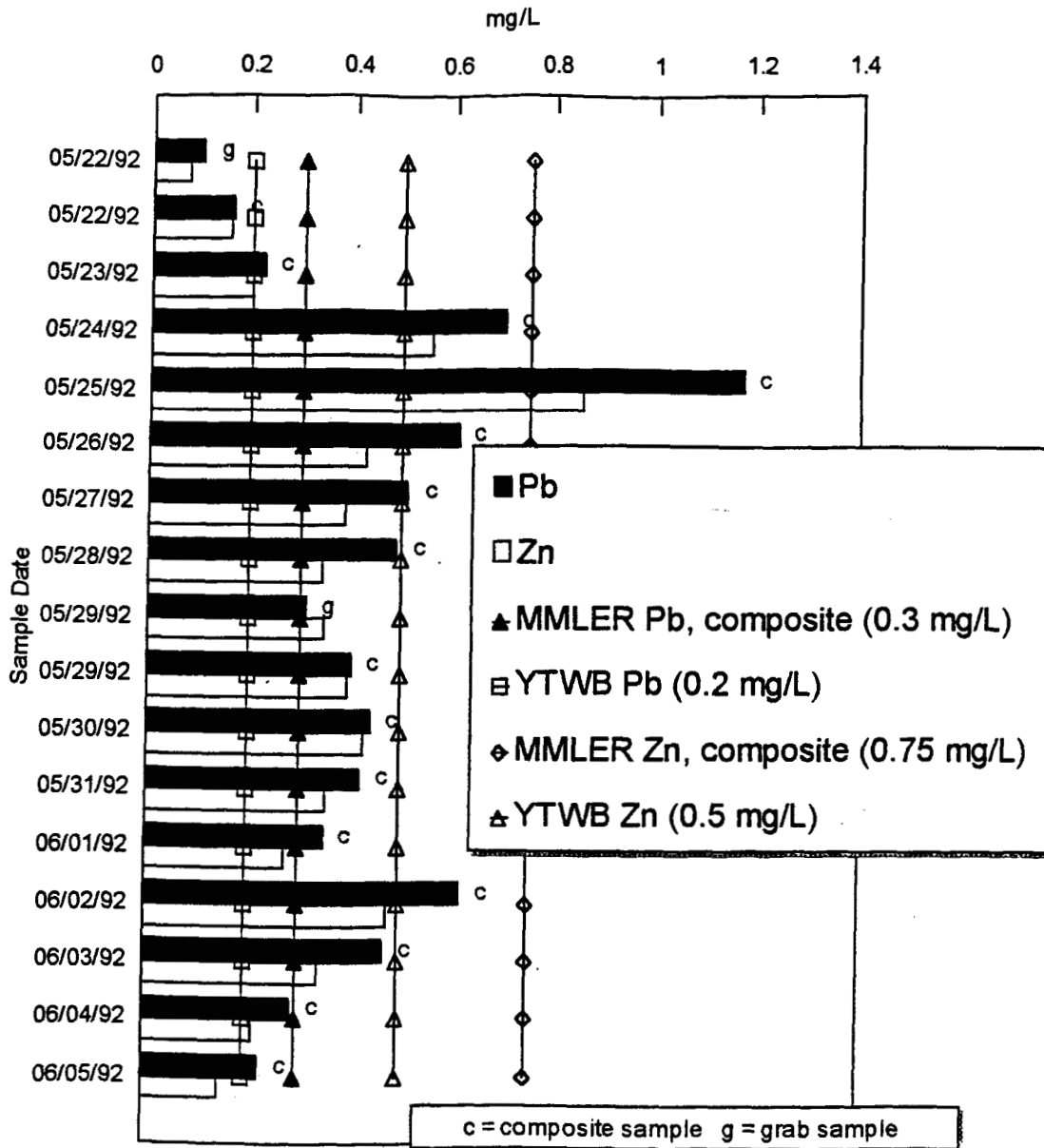


**Figure 13 : Total Pb and Zn at Station EP2
06-May-93 to 08-Jun-93**

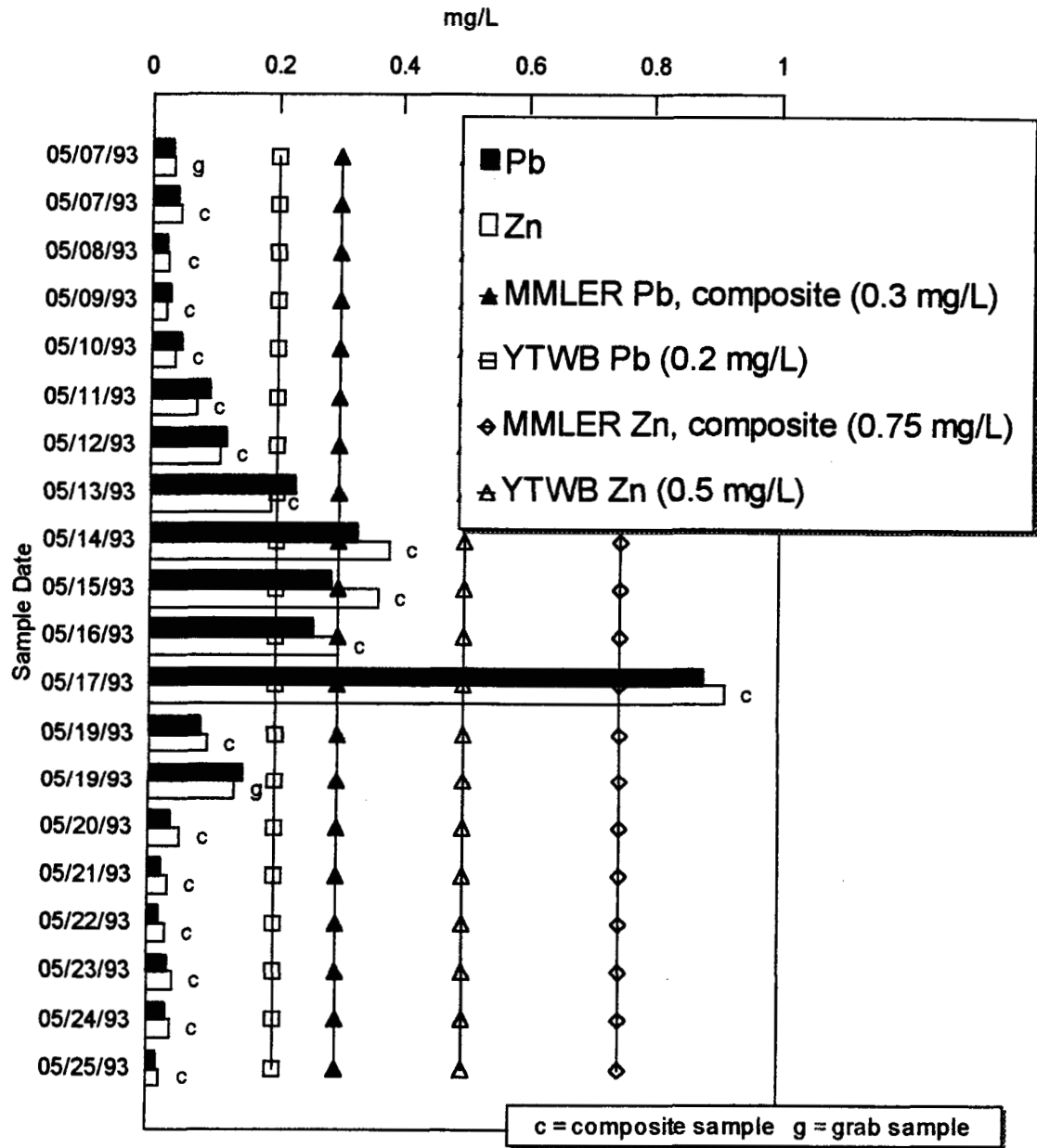


Regulatory levels are provided for reference purposes only.

Figure 14 : Total Pb and Zn at Station V8
22-May-92 to 05-Jun-92



**Figure 15 : Total Pb and Zn at Station V8
07-May-93 to 25-May-93**



period, ranging 1.02 and 1.08 mg/L for composite samples (see Figures 11 and 12). Total Zn also exceeded the maximum level for a grab sample (1.0 mg/L) at EP1 on 06-May-1993 (9.39 mg/L). At EP2, total Zinc exceeded MMLER on 4 days, ranging from 0.845 mg/L to 1.86 mg/L (see Figure 13). At V8 Zn levels exceeded MMLER on two occasions, once on the 25-May-1992 at 0.857 mg/L and once on the 17-May-1993 at 0.914 mg/L (see Figures 14 and 15).

The frequency of noncompliance with YTWB Water Licence levels for Zn (0.5 mg/L) at EP1 occurred on 9 of the days sampled during the 1992 sample period and on 5 of the days sampled during the 1993 sample period. At EP2 during the 1993 sample period, total Zn exceeded the YTWB level on 11 days. The frequency of noncompliance at V8 in 1992 occurred on two of the days sampled and in 1993 total Zn exceeded 0.5 mg/L on one day.

4.2 Sediments

4.2.1 Stream Sediments

The metals analysis of stream sediments collected in the study area show there was an elevated level of Pb in Vangorda Creek sediments near the confluence with the Pelly River in October, 1991. Values from 10 grab samples collected within 100m of the river ranged from 769 ug/g to 2860 ug/g, averaging 1800 ug/g (see Appendix II, Table 1). Zn concentrations in the same samples ranged from 289 ug/g to 345 ug/g, averaging 321 ug/g. In September, 1993 a series of three grab samples from the same location contained an average of 161 ug/g Pb and 441 ug/g Zn (see Appendix II Table 1).

A series of four grab samples of fine sediments from a site located immediately adjacent to Vangorda Creek (right bank) on the downstream side of the Haul Road (EP6) identified one possible source of Cd, Cu, Pb and Zn previously found in the Vangorda Creek water samples. The concentrations reported for these samples ranged from 0.8 to 2.9 ug/g Cd, 97 to 244 ug/g for Cu, 673 to 2090 ug/g for Pb and 936 to 2600 ug/g Zn (see Appendix II Table 1). The area from where these samples were collected is best characterized as a mud flow associated with a small seepage of unknown origin. The fine sediments may have either been deposited from the surface of the Haul Road as a result of normal road surface maintenance (i.e. road ploughing during winter and summer) or it originates from the fill material used in constructing the Haul Road.

The stream and suspended sediments collected in September, 1993 from the Pelly River (EP7) and Vangorda Creek (V8) were also characterized through sequential extraction analysis. The results are given in Appendix II, Table 2. Elevated Cu was reported for both the Pelly River and Vangorda Creek centrifuged samples of suspended sediment, however, this is suspected to be due to contamination from the copper alloy spindle of the centrifuge device and is not believed to be representative of the conditions at the time of sampling.

REFERENCES

Environment Canada, Sampling for Water Quality, Water Quality Branch,
Inland Waters Directorate, Ottawa, 1983.

Maria Arauja, personal comm. Environmental Protection Chemistry Lab

Bill Dunn, personal communication, Mine Manager, Curragh Resources.

Indian and Northern Affairs Canada - Water Resources (unpublished data)

Environment Canada, Yukon Weather Centre, Monthly Weather Summary for
Faro, Yukon

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APPENDIX I

APPENDIX I TABLE 1

WATER QUALITY DATA FOR 22-MAY-1991

STATION	DATE	MEAN DEPTH (m)	STREAM WIDTH (m)	MEAN VELOCITY (m/sec)	DISCHARGE (m ³ /sec)	TEMP (°C)	pH INSITU	pH LAB	IN SITU COND. (µmhos/cm)	LAB COND. (µmhos/cm)
V1	05/22/91					N/A	7.49	7.3	30	47
V2	05/22/91					N/A	8.06	8	155	274
V4	05/22/91					N/A	8.09	8.1	170	292
V5	05/22/91					N/A	8.16	8.1	152	294
V6A	05/22/91					N/A	7.7	7.7	25	94
V8	05/23/91					6.4	8.3	8.1	125	216
V25	05/22/91					N/A	9.4	8.6	175	329
V27	05/22/91					N/A	7.73	7.7	65	110
EP1	05/22/91					N/A	7.49	7.4	25	59
EP5	05/23/91					N/A	N/A	8	N/A	178

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 1

WATER QUALITY DATA FOR 22-MAY-1991

STATION	DATE	DISSOLVED OXYGEN (mg/L)	COLOR (REL. U.)	TURB. (FTU)	TOTAL ALK. (as CaCO ₃) (mg/L)	(Diss.)		(Extr.)	
						HARDNESS (as CaCO ₃) (mg/L)	TOTAL HARDNESS (mg/L)	HARDNESS (as CaCO ₃) (mg/L)	TOTAL HARDNESS (mg/L)
V1	05/22/91	N/A	30	0.5	16	19.1 ± 1.9	19.4 ± 1.9	17.6 ± 0.1	18.3 ± 0.1
V2	05/22/91	N/A	15	10	75	119.3 ± 0.5	120.3 ± 0.5	123.7 ± 1.2	127.7 ± 1.2
V4	05/22/91	N/A	45	10	131	146.0 ± 2.9	146.7 ± 2.5	151.3 ± 0.5	155.0 ± 0.8
V5	05/22/91	N/A	30	2.5	115	137.3 ± 1.2	137.7 ± 1.7	142.0 ± 0.0	143.3 ± 0.5
V6A	05/22/91	N/A	30	2	40	41.6 ± 0.7	42.0 ± 0.7	42.2 ± 0.5	43.6 ± 0.6
V8	05/23/91	12.3	25	8	81	92.3 ± 1.7	92.7 ± 1.6	102.0 ± 0.8	106.3 ± 0.5
V25	05/22/91	N/A	5	6	65	144.0 ± 2.2	144.3 ± 1.9	146.0 ± 0.8	148.0 ± 0.8
V27	05/22/91	N/A	100	150	37	46.5 ± 1.0	47.8 ± 1.2	76.1 ± 3.6	124.0 ± 5.4
EP1	05/22/91	N/A	45	65	20	23.0 ± 0.2	23.6 ± 0.2	27.6 ± 0.2	60.9 ± 1.1
EP5	05/23/91	N/A	25	15	67	83.2 ± 1.0	83.5 ± 1.0	86.6 ± 0.7	91.7 ± 0.7

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 1

WATER QUALITY DATA FOR 22-MAY-1991

STATION	DATE	SULFATE (mg/L)	CHLORIDE (mg/L)	TOTAL P (mg/L)	NITRITE (mg/L)	NITRATE+ NITRATE (mg/L)	AMMONIA (mg/L)	FR (mg/L)	NFR (mg/L)
V1	05/22/91	5.1	0.4	0.012	0.057	1.2	0.424	50	< 5
V2	05/22/91	54.9	0.7	0.029	< 0.002	< 0.002	0.01	210	35
V4	05/22/91	23.2	0.8	0.049	< 0.002	0.023	0.006	200	50
V5	05/22/91	31.1	1.5	0.011	< 0.002	0.034	< 0.002	200	13
V6A	05/22/91	5.7	0.5	0.013	< 0.002	0.035	0.002	80	11
V8	05/23/91	25	0.8	0.052	< 0.002	0.092	< 0.002	150	76
V25	05/22/91	87.5	0.5	0.01	< 0.002	0.018	0.005	250	8
V27	05/22/91	17.2	2	0.646	< 0.002	0.009	0.04	100	810
EP1	05/22/91	8.8	0.8	0.2	0.003	0.12	0.013	60	340
EP5	05/23/91	19.6	0.5	0.067	< 0.002	0.087	< 0.002	110	91

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 1

WATER QUALITY DATA FOR 22-MAY-1991

STATION	DATE	ICP Diss.		GF Diss.	ICP Diss.		ICP Diss.		ICP Diss.		ICP Diss.	
		Ag (mg/L)	Ag (mg/L)	Ag (mg/L)	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Ca (mg/L)		
V1	05/22/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.018 ± 0.001	< 0.001 ± 0.000	5.7 ± 0.0		
V2	05/22/91	< 0.01 ± 0.00	< 0.0015 ± 0.0001	< 0.07 ± 0.03	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.072 ± 0.001	< 0.001 ± 0.000	34.5 ± 0.2		
V4	05/22/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.040 ± 0.001	< 0.001 ± 0.000	37.9 ± 0.8		
V5	05/22/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.042 ± 0.000	< 0.001 ± 0.000	33.9 ± 0.5		
V6A	05/22/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.019 ± 0.000	< 0.001 ± 0.000	13.2 ± 0.2		
V8	05/23/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.038 ± 0.000	< 0.001 ± 0.000	23.5 ± 0.5		
V25	05/22/91	< 0.01 ± 0.00	< 0.0008 ± 0.0004	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.061 ± 0.001	< 0.001 ± 0.000	38.3 ± 0.3		
V27	05/22/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	0.19 ± 0.05	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.037 ± 0.002	< 0.001 ± 0.000	13.9 ± 0.3		
EP1	05/22/91	< 0.01 ± 0.00	< 0.0010 ± 0.0004	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.048 ± 0.004	< 0.001 ± 0.000	7.4 ± 0.1		
EP5	05/23/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.040 ± 0.001	< 0.001 ± 0.000	22.9 ± 0.4		

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 1

WATER QUALITY DATA FOR 22-MAY-1991

STATION	DATE	ICP Diss.		GF Diss.		ICP Diss.		ICP Diss.		GF Diss.		ICP Diss.		ICP Diss.	
		Cd (mg/L)	Cd (mg/L)	Cd (mg/L)	Co (mg/L)	Cr (mg/L)	Cu (mg/L)	Cu (mg/L)	Cu (mg/L)	Cu (mg/L)	Fe (mg/L)	K (mg/L)	Fe (mg/L)	K (mg/L)	
V1	05/22/91	< 0.005	< 0.005	< 0.004	< 0.005	< 0.005	< 0.005	< 0.005	0.0014	0.050	< 2	0.050	< 2		
		± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.007	± 0	± 0.007	± 0		
V2	05/22/91	< 0.005	< 0.005	< 0.001	< 0.005	< 0.005	< 0.005	< 0.005	0.0014	0.089	< 2	0.089	< 2		
		± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.071	± 0	± 0.071	± 0		
V4	05/22/91	< 0.005	< 0.005	< 0.003	< 0.005	< 0.005	< 0.005	< 0.005	0.0024	0.066	< 2	0.066	< 2		
		± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.001	± 0	± 0.001	± 0		
V5	05/22/91	< 0.005	< 0.005	< 0.003	< 0.005	< 0.005	< 0.005	< 0.005	0.0021	0.042	< 2	0.042	< 2		
		± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.002	± 0	± 0.002	± 0		
V6A	05/22/91	< 0.005	< 0.005	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	0.0015	0.059	< 2	0.059	< 2		
		± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.002	± 0	± 0.002	± 0		
V8	05/23/91	< 0.005	< 0.005	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	0.0050	0.058	< 2	0.058	< 2		
		± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.012	± 0	± 0.012	± 0		
V25	05/22/91	< 0.005	< 0.005	< 0.003	< 0.005	< 0.005	< 0.005	< 0.005	0.0018	0.005	< 2	0.005	< 2		
		± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0	± 0.000	± 0		
V27	05/22/91	< 0.005	< 0.005	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	0.0032	0.249	< 2	0.249	< 2		
		± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.066	± 0	± 0.066	± 0		
EP1	05/22/91	< 0.005	< 0.005	< 0.007	< 0.005	< 0.005	< 0.005	0.016	0.0169	0.080	< 2	0.080	< 2		
		± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.017	± 0	± 0.017	± 0		
EP5	05/23/91	< 0.005	< 0.005	< 0.002	< 0.005	< 0.005	< 0.005	0.006	0.0060	0.048	< 2	0.048	< 2		
		± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.008	± 0	± 0.008	± 0		

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 1

WATER QUALITY DATA FOR 22-MAY-1991

STATION	DATE	Mg (mg/L)	Mn (mg/L)	Mo (mg/L)	Na (mg/L)	Ni (mg/L)	P (mg/L)	Pb (mg/L)	Pb (mg/L)	GF Diss.
		ICP Diss.	ICP Diss.	ICP Diss.	ICP Diss.	ICP Diss.	ICP Diss.	ICP Diss.	ICP Diss.	GF Diss.
V1	05/22/91	0.9 ± 0.1	0.005 ± 0.002	< 0.01 ± 0.00	1.1 ± 0.1	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	< 0.05 ± 0.00	0.0095 ± 0.0019
V2	05/22/91	8.1 ± 0.0	0.004 ± 0.002	< 0.01 ± 0.00	3.0 ± 0.1	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	< 0.05 ± 0.00	0.0017 ± 0.0005
V4	05/22/91	12.5 ± 0.1	0.009 ± 0.000	< 0.01 ± 0.00	1.4 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	< 0.05 ± 0.00	0.0021 ± 0.0012
V5	05/22/91	12.8 ± 0.0	0.005 ± 0.000	< 0.01 ± 0.00	2.0 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	< 0.05 ± 0.00	0.0064 ± 0.0005
V6A	05/22/91	2.1 ± 0.0	0.006 ± 0.000	< 0.01 ± 0.00	1.2 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	< 0.05 ± 0.00	0.0072 ± 0.0007
V8	05/23/91	8.2 ± 0.1	0.006 ± 0.000	< 0.01 ± 0.00	1.8 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	< 0.05 ± 0.00	0.0151 ± 0.0006
V25	05/22/91	11.6 ± 0.1	0.089 ± 0.002	< 0.01 ± 0.00	3.5 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	< 0.05 ± 0.00	0.0099 ± 0.0037
V27	05/22/91	2.9 ± 0.1	0.017 ± 0.002	< 0.01 ± 0.00	1.7 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	< 0.05 ± 0.00	0.0149 ± 0.0024
EP1	05/22/91	1.1 ± 0.0	0.010 ± 0.000	< 0.01 ± 0.00	1.2 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.13 ± 0.01	< 0.13 ± 0.01	0.1510 ± 0.0159
EP5	05/23/91	6.3 ± 0.0	0.009 ± 0.000	< 0.01 ± 0.00	1.6 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	< 0.05 ± 0.00	0.0244 ± 0.0025

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 1

WATER QUALITY DATA FOR 22-MAY-1991

STATION	DATE	Sb (mg/L)	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)
V1	05/22/91	< 0.05 ± 0.00	< 0.05 ± 0.00	2.96 ± 0.01	< 0.05 ± 0.00	0.029 ± 0.002	< 0.002 ± 0.000	< 0.01 ± 0.00	0.004 ± 0.000
V2	05/22/91	< 0.05 ± 0.00	< 0.05 ± 0.00	4.52 ± 0.07	< 0.05 ± 0.00	0.143 ± 0.000	< 0.003 ± 0.001	< 0.01 ± 0.00	0.008 ± 0.002
V4	05/22/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.22 ± 0.05	< 0.05 ± 0.00	0.130 ± 0.001	< 0.002 ± 0.000	< 0.01 ± 0.00	0.008 ± 0.008
V5	05/22/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.68 ± 0.02	< 0.05 ± 0.00	0.138 ± 0.001	< 0.002 ± 0.000	< 0.01 ± 0.00	0.004 ± 0.001
V6A	05/22/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.79 ± 0.05	< 0.05 ± 0.00	0.057 ± 0.000	< 0.002 ± 0.000	< 0.01 ± 0.00	0.005 ± 0.000
V8	05/23/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.42 ± 0.03	< 0.05 ± 0.00	0.099 ± 0.001	< 0.002 ± 0.000	< 0.01 ± 0.00	0.009 ± 0.002
V25	05/22/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.87 ± 0.04	< 0.05 ± 0.00	0.162 ± 0.001	< 0.002 ± 0.000	< 0.01 ± 0.00	0.004 ± 0.001
V27	05/22/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.52 ± 0.10	< 0.05 ± 0.00	0.057 ± 0.000	0.005 ± 0.001	< 0.01 ± 0.00	0.019 ± 0.002
EP1	05/22/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.11 ± 0.01	< 0.05 ± 0.00	0.034 ± 0.000	< 0.002 ± 0.000	< 0.01 ± 0.00	0.072 ± 0.003
EP5	05/23/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.53 ± 0.04	< 0.05 ± 0.00	0.085 ± 0.001	< 0.002 ± 0.000	< 0.01 ± 0.00	0.012 ± 0.000

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 1

WATER QUALITY DATA FOR 22-MAY-1991

STATION	DATE	ICP Extr.		GF Extr.	ICP Extr.		ICP Extr.		ICP Extr.		ICP Extr.	
		Ag (mg/L)	Ag (mg/L)	Ag (mg/L)	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Ca (mg/L)		
V1	05/22/91	< 0.01	< 0.0005	0.09	< 0.05	< 0.01	0.021	< 0.001	5.6			
		± 0.00	± 0.0000	± 0.02	± 0.00	± 0.00	± 0.002	± 0.000	± 0.0			
V2	05/22/91	< 0.01	0.0016	0.53	< 0.05	< 0.01	0.084	< 0.001	35.6			
		± 0.00	± 0.0003	± 0.03	± 0.00	± 0.00	± 0.001	± 0.000	± 0.4			
V4	05/22/91	< 0.01	< 0.0008	0.50	< 0.05	< 0.01	0.056	< 0.001	39.0			
		± 0.00	± 0.0004	± 0.00	± 0.00	± 0.00	± 0.003	± 0.000	± 0.2			
V5	05/22/91	< 0.01	< 0.0005	0.15	< 0.05	< 0.01	0.047	< 0.001	34.7			
		± 0.00	± 0.0000	± 0.01	± 0.00	± 0.00	± 0.000	± 0.000	± 0.1			
V6A	05/22/91	< 0.01	< 0.0005	0.21	< 0.05	< 0.01	0.021	< 0.001	13.3			
		± 0.00	± 0.0000	± 0.00	± 0.00	± 0.00	± 0.000	± 0.000	± 0.1			
V8	05/23/91	< 0.01	0.0020	0.49	< 0.05	< 0.01	0.470	< 0.001	26.2			
		± 0.00	± 0.0005	± 0.00	± 0.00	± 0.00	± 0.002	± 0.000	± 0.2			
V25	05/22/91	< 0.01	< 0.0005	0.16	< 0.05	< 0.01	0.069	< 0.001	38.7			
		± 0.00	± 0.0000	± 0.00	± 0.00	± 0.00	± 0.000	± 0.000	± 0.2			
V27	05/22/91	< 0.01	< 0.0005	7.13	< 0.05	< 0.01	0.673	< 0.001	19.9			
		± 0.00	± 0.0000	± 0.47	± 0.00	± 0.00	± 0.077	± 0.000	± 1.0			
EP1	05/22/91	0.03	0.0223	1.27	0.07	< 0.01	2.983	< 0.001	8.4			
		± 0.00	± 0.0066	± 0.06	± 0.01	± 0.00	± 0.890	± 0.000	± 0.1			
EP5	05/23/91	< 0.01	< 0.0009	0.55	< 0.05	< 0.01	0.599	< 0.001	23.5			
		± 0.00	± 0.0004	± 0.01	± 0.00	± 0.00	± 0.013	± 0.000	± 0.2			

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 1

WATER QUALITY DATA FOR 22-MAY-1991

STATION	DATE	ICP Extr.		GF Extr.		ICP Extr.		ICP Extr.		GF Extr.		ICP Extr.		ICP Extr.	
		Cd (mg/L)	Cd (mg/L)	Cd (mg/L)	Co (mg/L)	Cr (mg/L)	Cu (mg/L)	Cu (mg/L)	Cu (mg/L)	Cu (mg/L)	Fe (mg/L)	K (mg/L)	Fe (mg/L)	K (mg/L)	
V1	05/22/91	< 0.005	< 0.0003	< 0.0003	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0006	< 0.138	< 2	< 0.013	< 0	
		± 0.000	± 0.0000	± 0.0000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.0000	± 0.013	± 0	± 0.013	± 0	
V2	05/22/91	< 0.005	< 0.0001	< 0.0001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0017	< 0.755	< 2	< 0.032	< 0	
		± 0.000	± 0.0000	± 0.0000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.0002	± 0.032	± 0	± 0.032	± 0	
V4	05/22/91	< 0.005	< 0.0002	< 0.0002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0035	< 0.838	< 2	< 0.039	< 0	
		± 0.000	± 0.0000	± 0.0000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.0002	± 0.039	± 0	± 0.039	± 0	
V5	05/22/91	< 0.005	< 0.0001	< 0.0001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0019	< 0.289	< 2	< 0.010	< 0	
		± 0.000	± 0.0000	± 0.0000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.0001	± 0.010	± 0	± 0.010	± 0	
V6A	05/22/91	< 0.005	< 0.0001	< 0.0001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0011	< 0.256	< 2	< 0.007	< 0	
		± 0.000	± 0.0000	± 0.0000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.0001	± 0.007	± 0	± 0.007	± 0	
V8	05/23/91	< 0.005	< 0.0001	< 0.0001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	(see ICP)	< 0.927	< 2	< 0.004	< 0	
		± 0.000	± 0.0000	± 0.0000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	(see ICP)	± 0.004	± 0	± 0.004	± 0	
V25	05/22/91	< 0.005	< 0.0004	< 0.0004	< 0.008	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0034	< 0.294	< 2	< 0.004	< 0	
		± 0.000	± 0.0000	± 0.0000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.0003	± 0.004	± 0	± 0.004	± 0	
V27	05/22/91	< 0.005	< 0.0005	< 0.0005	< 0.026	< 0.015	< 0.005	< 0.005	< 0.005	(see ICP)	< 10.807	< 2	< 0.628	< 0	
		± 0.000	± 0.0000	± 0.0000	± 0.002	± 0.001	± 0.001	± 0.001	± 0.001	(see ICP)	± 0.628	± 0	± 0.628	± 0	
EP1	05/22/91	< 0.005	< 0.0003	< 0.0003	< 0.008	< 0.005	< 0.005	< 0.005	< 0.005	(see ICP)	< 3.670	< 2	< 0.283	< 0	
		± 0.000	± 0.0000	± 0.0000	± 0.001	± 0.000	± 0.000	± 0.000	± 0.005	(see ICP)	± 0.283	± 0	± 0.283	± 0	
EP5	05/23/91	< 0.005	< 0.0002	< 0.0002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	(see ICP)	< 1.067	< 2	< 0.012	< 0	
		± 0.000	± 0.0000	± 0.0000	± 0.000	± 0.000	± 0.000	± 0.000	± 0.001	(see ICP)	± 0.012	± 0	± 0.012	± 0	

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 1

WATER QUALITY DATA FOR 22-MAY-1991

STATION	DATE	Mg (mg/L)	Mn (mg/L)	Mo (mg/L)	Na (mg/L)	Ni (mg/L)	P (mg/L)	Pb (mg/L)	Pb (mg/L)	GF Extr.
		ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	GF Extr.
V1	05/22/91	0.9 ± 0.0	0.005 ± 0.000	< 0.01 ± 0.00	1.1 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	< 0.05 ± 0.00	0.0058 ± 0.0039
V2	05/22/91	8.5 ± 0.1	0.022 ± 0.001	< 0.01 ± 0.00	2.8 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	< 0.05 ± 0.00	0.0036 ± 0.0001
V4	05/22/91	13.0 ± 0.0	0.044 ± 0.008	< 0.01 ± 0.00	1.4 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	< 0.05 ± 0.00	0.0025 ± 0.0003
V5	05/22/91	13.3 ± 0.0	0.016 ± 0.000	< 0.01 ± 0.00	2.0 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	< 0.05 ± 0.00	0.0026 ± 0.0001
V6A	05/22/91	2.2 ± 0.0	0.015 ± 0.001	< 0.01 ± 0.00	1.2 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	< 0.05 ± 0.00	0.0008 ± 0.0001
V8	05/23/91	8.8 ± 0.0	0.032 ± 0.000	< 0.01 ± 0.00	1.8 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	0.73 ± 0.00	0.73 ± 0.00	(see ICP) (see ICP)
V25	05/22/91	12.0 ± 0.0	0.203 ± 0.001	< 0.01 ± 0.00	3.6 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	< 0.05 ± 0.00	0.0105 ± 0.0008
V27	05/22/91	6.4 ± 0.3	0.357 ± 0.007	< 0.01 ± 0.00	1.5 ± 0.0	0.03 ± 0.00	0.6 ± 0.0	0.88 ± 0.04	0.88 ± 0.04	(see ICP) (see ICP)
EP1	05/22/91	1.6 ± 0.0	0.098 ± 0.002	< 0.01 ± 0.00	1.2 ± 0.0	< 0.02 ± 0.00	0.2 ± 0.0	38.83 ± 1.02	38.83 ± 1.02	(see ICP) (see ICP)
EP5	05/23/91	6.8 ± 0.0	0.039 ± 0.000	< 0.01 ± 0.00	1.6 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	1.04 ± 0.01	1.04 ± 0.01	(see ICP) (see ICP)

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 1

WATER QUALITY DATA FOR 22-MAY-1991

STATION	DATE	ICP Extr.									
		Sb (mg/L)	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)		
V1	05/22/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.00 ± 0.02	< 0.05 ± 0.00	0.028 ± 0.000	< 0.002 ± 0.000	< 0.01 ± 0.00	0.002 ± 0.000		
V2	05/22/91	< 0.05 ± 0.00	< 0.05 ± 0.00	5.26 ± 0.06	< 0.05 ± 0.00	0.145 ± 0.002	< 0.012 ± 0.000	< 0.01 ± 0.00	0.010 ± 0.001		
V4	05/22/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.99 ± 0.03	< 0.05 ± 0.00	0.132 ± 0.000	< 0.013 ± 0.002	< 0.01 ± 0.00	0.009 ± 0.002		
V5	05/22/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.90 ± 0.00	< 0.05 ± 0.00	0.141 ± 0.000	< 0.003 ± 0.000	< 0.01 ± 0.00	0.002 ± 0.000		
V6A	05/22/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.95 ± 0.03	< 0.05 ± 0.00	0.057 ± 0.000	< 0.003 ± 0.000	< 0.01 ± 0.00	0.002 ± 0.000		
V8	05/23/91	< 0.05 ± 0.00	< 0.05 ± 0.00	4.15 ± 0.00	< 0.05 ± 0.00	0.107 ± 0.000	< 0.011 ± 0.000	< 0.01 ± 0.00	0.029 ± 0.002		
V25	05/22/91	< 0.05 ± 0.00	< 0.05 ± 0.00	4.13 ± 0.02	< 0.05 ± 0.00	0.163 ± 0.000	< 0.003 ± 0.000	< 0.01 ± 0.00	0.085 ± 0.004		
V27	05/22/91	< 0.05 ± 0.00	< 0.05 ± 0.00	14.53 ± 1.10	< 0.05 ± 0.00	0.091 ± 0.006	0.135 ± 0.026	0.02 ± 0.00	0.245 ± 0.004		
EP1	05/22/91	< 0.05 ± 0.00	< 0.05 ± 0.00	4.71 ± 0.05	< 0.05 ± 0.00	0.063 ± 0.008	0.027 ± 0.003	< 0.01 ± 0.00	0.257 ± 0.004		
EP5	05/23/91	< 0.05 ± 0.00	< 0.05 ± 0.00	4.20 ± 0.02	< 0.05 ± 0.00	0.094 ± 0.000	0.014 ± 0.001	< 0.01 ± 0.00	0.040 ± 0.001		

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 1

WATER QUALITY DATA FOR 22-MAY-1991

STATION	DATE	Ag (mg/L)		Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Ca (mg/L)
		ICP Total	GF Total						
V1	05/22/91	< 0.01	0.0015	0.16	< 0.06	< 0.01	0.024	< 0.001	6.0
		± 0.00	± 0.0005	± 0.03	± 0.00	± 0.00	± 0.003	± 0.000	± 0.1
V2	05/22/91	< 0.01	0.0011	1.85	< 0.06	< 0.01	0.100	< 0.001	36.1
		± 0.00	± 0.0001	± 0.07	± 0.00	± 0.00	± 0.000	± 0.000	± 0.1
V4	05/22/91	< 0.01	0.0013	2.47	< 0.06	< 0.01	0.087	< 0.001	39.7
		± 0.00	± 0.0004	± 0.13	± 0.00	± 0.00	± 0.004	± 0.000	± 0.3
V5	05/22/91	< 0.01	0.0013	0.39	< 0.06	< 0.01	0.053	< 0.001	35.5
		± 0.00	± 0.0003	± 0.01	± 0.00	± 0.00	± 0.001	± 0.000	± 0.3
V6A	05/22/91	< 0.01	0.0007	0.50	< 0.06	< 0.01	0.025	< 0.001	13.8
		± 0.00	± 0.0001	± 0.02	± 0.00	± 0.00	± 0.000	± 0.000	± 0.1
V8	05/23/91	< 0.01	0.0022	1.94	< 0.06	< 0.01	0.526	< 0.001	27.0
		± 0.00	± 0.0006	± 0.09	± 0.00	± 0.00	± 0.003	± 0.000	± 0.0
V25	05/22/91	< 0.01	0.0013	0.31	< 0.06	< 0.02	0.076	< 0.001	39.8
		± 0.00	± 0.0007	± 0.03	± 0.00	± 0.01	± 0.000	± 0.000	± 0.1
V27	05/22/91	< 0.01	0.0008	27.43	0.11	< 0.01	1.069	< 0.001	20.8
		± 0.00	± 0.0003	± 3.09	± 0.03	± 0.00	± 0.117	± 0.000	± 1.2
EP1	05/22/91	0.07	(see ICP)	5.31	0.60	0.02	9.663	< 0.001	9.0
		± 0.01	(see ICP)	± 0.18	± 0.02	± 0.00	± 1.545	± 0.000	± 0.2
EP5	05/23/91	< 0.01	0.0039	2.31	< 0.06	< 0.01	0.673	< 0.001	23.3
		± 0.00	± 0.0003	± 0.09	± 0.00	± 0.00	± 0.021	± 0.000	± 0.0

Sample size = 3 where mean and standard deviation are given:

APPENDIX I TABLE 1

WATER QUALITY DATA FOR 22-MAY-1991

STATION	DATE	ICP Total Cd (mg/L)	GF Total Cd (mg/L)	ICP Total Co (mg/L)	ICP Total Cr (mg/L)	ICP Total Cu (mg/L)	GF Total Cu (mg/L)	ICP Total Fe (mg/L)	ICP Total K (mg/L)
V1	05/22/91	< 0.006 ± 0.000	< 0.0001 ± 0.0000	< 0.006 ± 0.000	< 0.006 ± 0.000	< 0.006 ± 0.000	0.0013 ± 0.0005	0.228 ± 0.040	< 2 ± 0
V2	05/22/91	< 0.006 ± 0.000	< 0.0001 ± 0.0000	< 0.007 ± 0.001	< 0.006 ± 0.000	< 0.006 ± 0.000	0.0029 ± 0.0001	1.817 ± 0.081	< 2 ± 0
V4	05/22/91	< 0.006 ± 0.000	< 0.0001 ± 0.0000	< 0.007 ± 0.000	0.008 ± 0.002	< 0.006 ± 0.000	0.0053 ± 0.0004	2.460 ± 0.163	< 2 ± 0
V5	05/22/91	< 0.006 ± 0.000	< 0.0001 ± 0.0000	< 0.006 ± 0.000	< 0.006 ± 0.000	< 0.006 ± 0.000	0.0024 ± 0.0005	0.518 ± 0.007	< 2 ± 0
V6A	05/22/91	< 0.006 ± 0.000	0.0002 ± 0.0000	< 0.006 ± 0.000	< 0.006 ± 0.000	< 0.006 ± 0.000	0.0011 ± 0.0001	0.533 ± 0.010	< 2 ± 0
V8	05/23/91	< 0.006 ± 0.000	0.0002 ± 0.0001	0.009 ± 0.000	0.007 ± 0.001	0.043 ± 0.001	(see ICP) (see ICP)	3.147 ± 0.097	< 2 ± 0
V25	05/22/91	< 0.006 ± 0.000	0.0004 ± 0.0000	0.008 ± 0.000	< 0.006 ± 0.000	< 0.006 ± 0.000	0.0040 ± 0.0007	0.402 ± 0.015	< 2 ± 0
V27	05/22/91	< 0.006 ± 0.000	0.0006 ± 0.0000	0.099 ± 0.009	0.057 ± 0.009	0.069 ± 0.007	(see ICP) (see ICP)	34.400 ± 4.640	6 ± 1
EP1	05/22/91	< 0.006 ± 0.000	0.0004 ± 0.0000	0.072 ± 0.005	0.009 ± 0.000	0.653 ± 0.018	(see ICP) (see ICP)	27.500 ± 1.838	2 ± 0
EP5	05/23/91	< 0.006 ± 0.000	0.0002 ± 0.0000	0.007 ± 0.001	0.008 ± 0.001	0.049 ± 0.001	(see ICP) (see ICP)	3.733 ± 0.129	< 2 ± 0

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 1

WATER QUALITY DATA FOR 22-MAY-1991

STATION	DATE	Mg (mg/L)	Mn (mg/L)	Mo (mg/L)	Na (mg/L)	Ni (mg/L)	P (mg/L)	Pb (mg/L)	GF Total
V1	05/22/91	0.9 ± 0.0	0.005 ± 0.000	< 0.01 ± 0.00	1.0 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.06 ± 0.00	0.0075 ± 0.0046
V2	05/22/91	8.9 ± 0.0	0.031 ± 0.002	< 0.01 ± 0.00	2.9 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.06 ± 0.00	0.0071 ± 0.0003
V4	05/22/91	13.9 ± 0.1	0.055 ± 0.009	< 0.01 ± 0.00	1.5 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.06 ± 0.00	0.0043 ± 0.0003
V5	05/22/91	13.5 ± 0.0	0.018 ± 0.000	< 0.01 ± 0.00	1.9 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.06 ± 0.00	0.0035 ± 0.0003
V6A	05/22/91	2.3 ± 0.0	0.017 ± 0.001	< 0.01 ± 0.00	1.1 ± 0.1	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.06 ± 0.00	0.0017 ± 0.0002
V8	05/23/91	9.4 ± 0.0	0.042 ± 0.001	< 0.01 ± 0.00	1.7 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	0.95 ± 0.02	(see ICP) (see ICP)
V25	05/22/91	12.3 ± 0.0	0.217 ± 0.001	< 0.01 ± 0.00	3.5 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.06 ± 0.00	0.0135 ± 0.0007
V27	05/22/91	11.6 ± 1.3	0.494 ± 0.031	< 0.01 ± 0.00	2.2 ± 0.1	0.06 ± 0.01	0.9 ± 0.0	1.22 ± 0.13	(see ICP) (see ICP)
EP1	05/22/91	2.5 ± 0.0	0.113 ± 0.002	< 0.01 ± 0.00	1.4 ± 0.0	< 0.02 ± 0.00	< 0.3 ± 0.0	44.50 ± 0.85	(see ICP) (see ICP)
EP5	05/23/91	7.3 ± 0.0	0.051 ± 0.001	< 0.01 ± 0.00	1.7 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	1.29 ± 0.02	(see ICP) (see ICP)

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 1

WATER QUALITY DATA FOR 22-MAY-1991

STATION	DATE	Sb (mg/L)	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)
		ICP Total	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total
V1	05/22/91	< 0.06 ± 0.00	< 0.06 ± 0.00	3.27 ± 0.04	< 0.06 ± 0.00	0.030 ± 0.000	0.004 ± 0.001	< 0.01 ± 0.00	< 0.010 ± 0.011
V2	05/22/91	< 0.06 ± 0.00	< 0.06 ± 0.00	7.72 ± 0.14	< 0.06 ± 0.00	0.158 ± 0.001	0.057 ± 0.008	< 0.01 ± 0.00	< 0.002 ± 0.000
V4	05/22/91	< 0.06 ± 0.00	< 0.06 ± 0.00	7.82 ± 0.29	< 0.06 ± 0.00	0.145 ± 0.000	0.079 ± 0.006	< 0.01 ± 0.00	0.010 ± 0.001
V5	05/22/91	< 0.06 ± 0.00	< 0.06 ± 0.00	4.45 ± 0.03	< 0.06 ± 0.00	0.149 ± 0.000	0.009 ± 0.000	< 0.01 ± 0.00	< 0.009 ± 0.010
V6A	05/22/91	< 0.06 ± 0.00	< 0.06 ± 0.00	4.53 ± 0.02	< 0.06 ± 0.00	0.061 ± 0.000	0.010 ± 0.000	< 0.01 ± 0.00	< 0.002 ± 0.000
V8	05/23/91	< 0.06 ± 0.00	< 0.06 ± 0.00	6.69 ± 0.16	< 0.06 ± 0.00	0.115 ± 0.000	0.057 ± 0.004	< 0.01 ± 0.00	0.042 ± 0.011
V25	05/22/91	< 0.06 ± 0.00	< 0.06 ± 0.00	4.51 ± 0.04	< 0.06 ± 0.00	0.177 ± 0.001	0.006 ± 0.000	< 0.01 ± 0.00	0.088 ± 0.002
V27	05/22/91	< 0.06 ± 0.00	< 0.06 ± 0.00	43.57 ± 3.64	< 0.06 ± 0.00	0.116 ± 0.005	0.740 ± 0.143	0.08 ± 0.01	0.370 ± 0.024
EP1	05/22/91	0.10 ± 0.01	< 0.06 ± 0.00	11.03 ± 0.31	< 0.06 ± 0.00	0.109 ± 0.007	0.165 ± 0.007	0.01 ± 0.00	0.755 ± 0.092
EP5	05/23/91	< 0.06 ± 0.00	< 0.06 ± 0.00	7.23 ± 0.16	< 0.06 ± 0.00	0.100 ± 0.000	0.073 ± 0.005	< 0.01 ± 0.00	0.049 ± 0.005

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 2

WATER QUALITY DATA FOR 08/09-OCT-1991

STATION	DATE	MEAN DEPTH (m)	STREAM WIDTH (m)	MEAN VELOCITY (m/sec)	DISCHARGE (m ³ /sec)	TEMP (°C)	pH INSITU	pH LAB	IN SITU COND. (µmhos/cm)	LAB COND. (µmhos/cm)
V1	10/08/91	N/A	N/A	N/A	N/A	1.5	7.62	7.5	40	46
V2	10/08/91	N/A	N/A	N/A	N/A	N/A	N/A	8.1	N/A	279
V4	10/08/91	0.25	0.8	0.38	0.09	N/A	N/A	8.3	N/A	516
V5	10/09/91	0.24	2.2	0.6	0.34	1.8	8.43	8.2	232	336
V6A	10/08/91	N/A	N/A	N/A	N/A	2.6	8.06	7.8	77	93
V8	10/09/91	0.21	6.5	0.53	0.96	2.1	8.41	8.1	211	205
V25	10/08/91	N/A	N/A	N/A	N/A	3.9	9.17	8.7	412	562
V27	10/08/91	0.21	4	0.4	0.44	N/A	N/A	7.8	N/A	99
EP1	10/08/91	N/A	N/A	N/A	N/A	N/A	N/A	7.5	N/A	59
EP5	10/09/91	N/A	N/A	N/A	N/A	2	8.41	8	178	158

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 2

WATER QUALITY DATA FOR 08/09-OCT-1991

STATION	DATE	DISOLVED OXYGEN (mg/L)	COLOR (REL. U.)	TURB. (FTU)	TOTAL ALK. (as CaCO ₃) (mg/L)	(Diss.)		(Diss.)		(Extr.)		(Extr.) TOTAL HARDNESS (mg/L)
						HARDNESS (as CaCO ₃) (mg/L)	HARDNESS (mg/L)	HARDNESS (as CaCO ₃) (mg/L)	HARDNESS (mg/L)	HARDNESS (as CaCO ₃) (mg/L)	HARDNESS (mg/L)	
V1	10/08/91	13.1	10	0.25	13	± 15.6	± 0.2	± 16	± 17	± 0	± 0	± 17
V2	10/08/91	N/A	10	0.6	81	± 124.0	± 2.9	± 125	± 126	± 3	± 2	± 127
V4	10/08/91	N/A	15	0.8	244	± 270.7	± 3.4	± 271	± 276	± 3	± 1	± 277
V5	10/09/91	13.5	15	1	125	± 167.3	± 1.9	± 167	± 166	± 2	± 0	± 167
V6A	10/08/91	13.4	20	0.3	39	± 38.5	± 0.8	± 39	± 41	± 1	± 0	± 41
V8	10/09/91	13.6	10	1	72	± 90.2	± 0.7	± 90	± 92	± 1	± 2	± 93
V25	10/08/91	N/A	5	1.5	105	± 279.0	± 1.4	± 280	± 275	± 1	± 3	± 278
V27	10/08/91	N/A	10	0.4	32	± 40.9	± 0.8	± 41	± 41	± 1	± 1	± 42
EP1	10/08/91	N/A	10	0.6	18	± 23.3	± 0.2	± 24	± 23	± 0	± 0	± 23
EP5	10/09/91	N/A	15	< 0.1	55	± 67.1	± 1.7	± 67	± 73	± 2	± 1	± 76

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 2

WATER QUALITY DATA FOR 08/09-OCT-1991

STATION	DATE	SULFATE (mg/L)	CHLORIDE (mg/L)	TOTAL P (mg/L)	NITRITE (mg/L)	NITRITE+ NITRATE (mg/L)	AMMONIA (mg/L)	FR (mg/L)	NFR (mg/L)
V1	10/08/91	6.4	0.2	0.007	0.002	0.011	0.017	40	5
V2	10/08/91	53.0	0.4	0.004	0.002	0.019	0.002	180	5
V4	10/08/91	39.0	0.6	0.009	0.002	0.021	0.003	330	7
V5	10/09/91	40.5	1.5	0.006	0.002	0.026	0.002	210	7
V6A	10/08/91	4.6	0.3	0.005	0.002	0.024	0.004	60	5
V8	10/09/91	22.9	0.6	0.007	0.002	0.008	0.002	120	6
V25	10/08/91	161.0	0.6	0.009	0.190	1.050	1.230	390	9
V27	10/08/91	12.2	0.2	0.004	0.002	0.007	0.002	60	5
EP1	10/08/91	7.8	0.2	0.005	0.002	0.009	0.002	40	5
EP5	10/09/91	19.2	0.3	0.015	0.002	0.005	0.002	100	10

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 2

WATER QUALITY DATA FOR 08/09-OCT-1991

STATION	DATE	ICP Diss.		GF Diss.		ICP Diss.		ICP Diss.		ICP Diss.		ICP Diss.	
		Ag (mg/L)	Ag (mg/L)	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Ca (mg/L)				
V1	10/08/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.016 ± 0.000	< 0.001 ± 0.000	5.1 ± 0.0				
V2	10/08/91	< 0.01 ± 0.00	0.0007 ± 0.0001	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.100 ± 0.000	< 0.001 ± 0.000	37.8 ± 1.0				
V4	10/08/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.068 ± 0.001	< 0.001 ± 0.000	68.7 ± 1.0				
V5	10/09/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.045 ± 0.000	< 0.001 ± 0.000	41.8 ± 0.5				
V6A	10/08/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.017 ± 0.000	< 0.001 ± 0.000	12.3 ± 0.3				
V8	10/09/91	< 0.01 ± 0.00	0.0010 ± 0.0001	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.036 ± 0.000	< 0.001 ± 0.000	23.3 ± 0.3				
V25	10/08/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.126 ± 0.000	< 0.001 ± 0.000	77.4 ± 0.3				
V27	10/08/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.031 ± 0.000	< 0.001 ± 0.000	12.4 ± 0.2				
EP1	10/08/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.021 ± 0.000	< 0.001 ± 0.000	7.6 ± 0.1				
EP5	10/09/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	< 0.06 ± 0.01	< 0.05 ± 0.00	< 0.01 ± 0.00	0.033 ± 0.000	< 0.001 ± 0.000	18.2 ± 0.5				

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 2

WATER QUALITY DATA FOR 08/09-OCT-1991

STATION	DATE	ICP Diss.		GF Diss.		ICP Diss.		ICP Diss.		GF Diss.		ICP Diss.		ICP Diss.	
		Cd (mg/L)	Cd (mg/L)	Cd (mg/L)	Cd (mg/L)	Co (mg/L)	Cr (mg/L)	Cu (mg/L)	Cu (mg/L)	Cu (mg/L)	Cu (mg/L)	Fe (mg/L)	Fe (mg/L)	K (mg/L)	K (mg/L)
V1	10/08/91	< 0.005 ± 0.000	0.0003 ± 0.0000	< 0.005 ± 0.000	0.005 ± 0.000	0.005 ± 0.000	0.005 ± 0.000	< 0.005 ± 0.000	0.005 ± 0.000	0.0027 ± 0.0002	0.011 ± 0.000	< 2 ± 0			
V2	10/08/91	0.007 ± 0.002	0.0002 ± 0.0000	< 0.005 ± 0.000	0.005 ± 0.000	0.007 ± 0.003	0.007 ± 0.002	< 0.006 ± 0.001	0.006 ± 0.001	0.0028 ± 0.0002	0.015 ± 0.002	< 2 ± 0			
V4	10/08/91	< 0.005 ± 0.000	0.0003 ± 0.0002	< 0.005 ± 0.000	0.005 ± 0.000	0.007 ± 0.002	0.007 ± 0.002	< 0.005 ± 0.000	0.005 ± 0.000	0.0022 ± 0.0003	0.028 ± 0.001	< 2 ± 0			
V5	10/09/91	< 0.005 ± 0.000	0.0007 ± 0.0004	< 0.005 ± 0.000	0.005 ± 0.000	0.005 ± 0.000	0.005 ± 0.000	< 0.005 ± 0.000	0.005 ± 0.000	0.0020 ± 0.0007	0.028 ± 0.006	< 2 ± 0			
V6A	10/08/91	< 0.005 ± 0.000	0.0001 ± 0.0000	< 0.005 ± 0.000	0.005 ± 0.000	0.005 ± 0.000	0.005 ± 0.000	< 0.005 ± 0.000	0.005 ± 0.000	0.0029 ± 0.0003	0.033 ± 0.001	< 2 ± 0			
V8	10/09/91	< 0.005 ± 0.000	0.0001 ± 0.0000	< 0.005 ± 0.000	0.005 ± 0.000	0.005 ± 0.000	0.005 ± 0.000	< 0.005 ± 0.000	0.005 ± 0.000	0.0020 ± 0.0004	0.014 ± 0.002	< 2 ± 0			
V25	10/08/91	< 0.005 ± 0.000	0.0008 ± 0.0001	0.022 ± 0.001	0.005 ± 0.000	0.005 ± 0.000	0.005 ± 0.000	< 0.005 ± 0.000	0.005 ± 0.000	0.0033 ± 0.0000	0.006 ± 0.001	3 ± 0			
V27	10/08/91	0.006 ± 0.001	0.0003 ± 0.0001	< 0.005 ± 0.000	0.005 ± 0.000	0.007 ± 0.002	0.007 ± 0.002	< 0.006 ± 0.001	0.006 ± 0.001	0.0027 ± 0.0001	0.017 ± 0.001	< 2 ± 0			
EP1	10/08/91	0.008 ± 0.002	0.0002 ± 0.0001	< 0.005 ± 0.000	0.005 ± 0.000	0.005 ± 0.000	0.005 ± 0.000	< 0.005 ± 0.000	0.005 ± 0.000	0.0034 ± 0.0002	0.018 ± 0.001	< 2 ± 0			
EP5	10/09/91	< 0.007 ± 0.002	0.0002 ± 0.0000	< 0.005 ± 0.000	0.005 ± 0.000	0.005 ± 0.000	0.005 ± 0.000	< 0.005 ± 0.000	0.005 ± 0.000	0.0022 ± 0.0002	0.013 ± 0.007	< 2 ± 0			

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 2

WATER QUALITY DATA FOR 08/09-OCT-1991

STATION	DATE	Mg (mg/L)	Mn (mg/L)	Mo (mg/L)	Na (mg/L)	Ni (mg/L)	P (mg/L)	ICP Diss. (mg/L)	ICP Diss. (mg/L)	ICP Diss. (mg/L)	Pb (mg/L)	GF Diss. (mg/L)
V1	10/08/91	0.7 ± 0.0	0.003 ± 0.003	< 0.01 ± 0.00	1.1 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	< 0.0006 ± 0.0001			
V2	10/08/91	7.3 ± 0.0	0.002 ± 0.000	< 0.01 ± 0.00	3.6 ± 0.1	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	0.0007 ± 0.0002			
V4	10/08/91	24.0 ± 0.2	0.010 ± 0.000	< 0.01 ± 0.00	2.7 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	0.0030 ± 0.0018			
V5	10/08/91	15.2 ± 0.1	0.003 ± 0.000	< 0.01 ± 0.00	2.4 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	0.0086 ± 0.0047			
V6A	10/08/91	1.9 ± 0.0	0.003 ± 0.000	< 0.01 ± 0.00	1.3 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	0.0006 ± 0.0000			
V8	10/08/91	7.8 ± 0.0	0.004 ± 0.000	< 0.01 ± 0.00	1.8 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	0.0028 ± 0.0002			
V25	10/08/91	20.4 ± 0.1	0.384 ± 0.002	< 0.01 ± 0.00	5.6 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	0.0017 ± 0.0002			
V27	10/08/91	2.4 ± 0.0	0.007 ± 0.001	< 0.01 ± 0.00	1.4 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	0.0025 ± 0.0004			
EP1	10/08/91	1.0 ± 0.0	0.008 ± 0.000	< 0.01 ± 0.00	1.2 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	0.0024 ± 0.0002			
EP5	10/08/91	5.2 ± 0.1	0.004 ± 0.002	< 0.01 ± 0.00	1.6 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	0.0027 ± 0.0001			

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 2

WATER QUALITY DATA FOR 08/09-OCT-1991

STATION	DATE	ICP Diss.									
		Sb (mg/L)	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)		
V1	10/08/91	< 0.05 ± 0.00	< 0.05 ± 0.00	2.74 ± 0.00	< 0.1 ± 0.0	0.0 ± 0.0	0.002 ± 0.000	< 0.01 ± 0.00	< 0.003 ± 0.001		
V2	10/08/91	< 0.05 ± 0.00	< 0.05 ± 0.00	5.07 ± 0.04	< 0.1 ± 0.0	0.2 ± 0.0	0.002 ± 0.000	< 0.01 ± 0.00	< 0.002 ± 0.000		
V4	10/08/91	< 0.05 ± 0.00	< 0.05 ± 0.00	4.29 ± 0.04	< 0.05 ± 0.00	0.254 ± 0.002	< 0.002 ± 0.000	< 0.01 ± 0.00	< 0.002 ± 0.000		
V5	10/09/91	< 0.05 ± 0.00	< 0.05 ± 0.00	4.32 ± 0.04	< 0.05 ± 0.00	0.148 ± 0.001	< 0.002 ± 0.000	< 0.01 ± 0.00	0.008 ± 0.003		
V6A	10/08/91	< 0.05 ± 0.00	< 0.05 ± 0.00	4.19 ± 0.11	< 0.05 ± 0.00	0.053 ± 0.000	< 0.002 ± 0.000	< 0.01 ± 0.00	< 0.003 ± 0.001		
V8	10/09/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.47 ± 0.02	< 0.05 ± 0.00	0.092 ± 0.000	< 0.002 ± 0.000	< 0.01 ± 0.00	0.014 ± 0.002		
V25	10/08/91	< 0.05 ± 0.00	< 0.05 ± 0.00	4.05 ± 0.01	< 0.05 ± 0.00	0.313 ± 0.000	< 0.002 ± 0.000	< 0.01 ± 0.00	0.014 ± 0.009		
V27	10/08/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.24 ± 0.04	< 0.05 ± 0.00	0.053 ± 0.000	< 0.002 ± 0.000	< 0.01 ± 0.00	0.018 ± 0.002		
EP1	10/08/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.06 ± 0.01	< 0.05 ± 0.00	0.034 ± 0.000	< 0.002 ± 0.000	< 0.01 ± 0.00	0.036 ± 0.001		
EP5	10/09/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.25 ± 0.07	< 0.05 ± 0.00	0.073 ± 0.000	< 0.002 ± 0.000	< 0.01 ± 0.00	0.020 ± 0.002		

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 2

WATER QUALITY DATA FOR 08/09-OCT-1991

STATION	DATE	ICP Extr.		GF Extr.	ICP Extr.		ICP Extr.		ICP Extr.		ICP Extr.		ICP Extr.	
		Ag (mg/L)	Ag (mg/L)	Ag (mg/L)	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Ca (mg/L)				
V1	10/08/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.019 ± 0.000	< 0.001 ± 0.000	5.5 ± 0.0				
V2	10/08/91	< 0.01 ± 0.00	0.0007 ± 0.0002	0.14 ± 0.01	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.112 ± 0.000	< 0.001 ± 0.000	37.8 ± 0.5				
V4	10/08/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	0.12 ± 0.00	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.077 ± 0.000	< 0.001 ± 0.000	68.9 ± 0.2				
V5	10/09/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	0.12 ± 0.01	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.051 ± 0.000	< 0.001 ± 0.000	40.6 ± 0.3				
V6A	10/08/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	0.10 ± 0.00	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.020 ± 0.000	< 0.001 ± 0.000	12.9 ± 0.1				
V8	10/09/91	< 0.01 ± 0.00	0.0011 ± 0.0001	0.12 ± 0.02	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.043 ± 0.000	< 0.001 ± 0.000	23.6 ± 0.5				
V25	10/08/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	0.15 ± 0.02	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.141 ± 0.000	< 0.001 ± 0.000	80.0 ± 0.6				
V27	10/08/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	0.09 ± 0.01	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.038 ± 0.001	< 0.001 ± 0.000	12.4 ± 0.2				
EP1	10/08/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	0.06 ± 0.00	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.025 ± 0.000	< 0.001 ± 0.000	7.3 ± 0.1				
EP5	10/09/91	< 0.01 ± 0.00	< 0.0005 ± 0.0000	0.28 ± 0.09	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.051 ± 0.002	< 0.001 ± 0.000	19.9 ± 0.3				

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 2

WATER QUALITY DATA FOR 08/09-OCT-1991

STATION	DATE	ICP Extr.		GF Extr.		ICP Extr.		ICP Extr.		GF Extr.		ICP Extr.		ICP Extr.	
		Cd (mg/L)	Cd (mg/L)	Cd (mg/L)	Cd (mg/L)	Cr (mg/L)	Cu (mg/L)	Cu (mg/L)	Cu (mg/L)	Cu (mg/L)	Cu (mg/L)	Fe (mg/L)	Fe (mg/L)	K (mg/L)	K (mg/L)
V1	10/08/91	< 0.005 ± 0.000	< 0.0001 ± 0.0000	< 0.006 ± 0.001	0.007 ± 0.002	< 0.005 ± 0.000	< 0.005 ± 0.000	0.0006 ± 0.0001	0.060 ± 0.003	< 2 ± 0					
V2	10/08/91	< 0.005 ± 0.000	< 0.0004 ± 0.0005	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	0.0012 ± 0.0001	0.181 ± 0.004	< 2 ± 0					
V4	10/08/91	< 0.005 ± 0.000	< 0.0001 ± 0.0000	< 0.005 ± 0.000	< 0.006 ± 0.001	< 0.005 ± 0.000	< 0.005 ± 0.000	0.0013 ± 0.0001	0.263 ± 0.006	< 2 ± 0					
V5	10/09/91	< 0.005 ± 0.000	< 0.0001 ± 0.0000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	0.0020 ± 0.0004	0.269 ± 0.031	< 2 ± 0					
V6A	10/08/91	< 0.005 ± 0.000	< 0.0001 ± 0.0000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	0.0018 ± 0.0007	0.139 ± 0.004	< 2 ± 0					
V8	10/09/91	< 0.005 ± 0.000	< 0.0001 ± 0.0000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	0.0020 ± 0.0001	0.188 ± 0.007	< 2 ± 0					
V25	10/08/91	0.007 ± 0.003	0.0017 ± 0.0000	0.040 ± 0.002	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	0.0045 ± 0.0021	0.227 ± 0.012	4 ± 0					
V27	10/08/91	< 0.005 ± 0.000	0.0002 ± 0.0000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	0.0028 ± 0.0014	0.124 ± 0.004	< 2 ± 0					
EP1	10/08/91	< 0.005 ± 0.000	0.0001 ± 0.0000	< 0.006 ± 0.001	0.008 ± 0.003	0.007 ± 0.002	0.007 ± 0.002	0.0017 ± 0.0002	0.097 ± 0.002	< 2 ± 0					
EP5	10/09/91	0.009 ± 0.002	0.0001 ± 0.0000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	0.0023 ± 0.0004	0.689 ± 0.372	< 2 ± 0					

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 2

WATER QUALITY DATA FOR 08/09-OCT-1991

STATION	DATE	ICP Extr.		ICP Extr.		ICP Extr.		ICP Extr.		ICP Extr.		ICP Extr.		GF Extr.	
		Mg (mg/L)	Mn (mg/L)	Mo (mg/L)	Na (mg/L)	Ni (mg/L)	P (mg/L)	Pb (mg/L)	Pb (mg/L)	Pb (mg/L)	Pb (mg/L)	Pb (mg/L)	Pb (mg/L)	Pb (mg/L)	Pb (mg/L)
V1	10/08/91	0.8 ± 0.0	0.002 ± 0.000	< 0.01 ± 0.00	1.1 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	< 0.0005 ± 0.0000						
V2	10/08/91	7.7 ± 0.0	0.007 ± 0.000	< 0.01 ± 0.00	3.6 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	0.0011 ± 0.0001						
V4	10/08/91	25.2 ± 0.1	0.017 ± 0.000	< 0.01 ± 0.00	2.7 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	0.0009 ± 0.0003						
V5	10/09/91	15.6 ± 0.1	0.011 ± 0.000	< 0.01 ± 0.00	2.3 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	0.0024 ± 0.0002						
V6A	10/08/91	2.0 ± 0.0	0.008 ± 0.000	< 0.01 ± 0.00	1.3 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	0.0005 ± 0.0000						
V8	10/09/91	8.0 ± 0.1	0.009 ± 0.000	< 0.01 ± 0.00	1.8 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	0.0206 ± 0.0016						
V25	10/08/91	21.0 ± 0.1	0.644 ± 0.007	< 0.01 ± 0.00	5.7 ± 0.0	0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	0.0143 ± 0.0008						
V27	10/08/91	2.5 ± 0.0	0.009 ± 0.000	< 0.01 ± 0.00	1.4 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.05 ± 0.00	0.0205 ± 0.0053						
EP1	10/08/91	1.1 ± 0.0	0.010 ± 0.000	< 0.01 ± 0.00	1.2 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.06 ± 0.01	0.0141 ± 0.0026						
EP5	10/09/91	5.8 ± 0.2	0.022 ± 0.009	< 0.01 ± 0.00	1.6 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	0.06 ± 0.01	0.0405 ± 0.0109						

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 2

WATER QUALITY DATA FOR 08/09-OCT-1991

STATION	DATE	Sb (mg/L)	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)
V1	10/08/91	< 0.05 ± 0.00	< 0.05 ± 0.00	2.99 ± 0.08	< 0.05 ± 0.00	0.029 ± 0.000	< 0.002 ± 0.000	0.0 ± 0.0	0.002 ± 0.000
V2	10/08/91	< 0.05 ± 0.00	< 0.05 ± 0.00	5.56 ± 0.12	< 0.05 ± 0.00	0.177 ± 0.001	0.003 ± 0.000	0.0 ± 0.0	0.011 ± 0.001
V4	10/08/91	< 0.05 ± 0.00	< 0.05 ± 0.00	4.52 ± 0.01	< 0.05 ± 0.00	0.280 ± 0.001	0.004 ± 0.000	0.0 ± 0.0	0.002 ± 0.000
V5	10/09/91	< 0.05 ± 0.00	< 0.05 ± 0.00	4.80 ± 0.22	< 0.05 ± 0.00	0.162 ± 0.001	0.002 ± 0.000	0.0 ± 0.0	0.008 ± 0.004
V6A	10/08/91	< 0.05 ± 0.00	< 0.05 ± 0.00	4.86 ± 0.21	< 0.05 ± 0.00	0.060 ± 0.000	< 0.002 ± 0.000	0.0 ± 0.0	0.004 ± 0.001
V8	10/09/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.61 ± 0.13	< 0.05 ± 0.00	0.101 ± 0.001	0.003 ± 0.001	0.0 ± 0.0	0.019 ± 0.001
V25	10/08/91	< 0.05 ± 0.00	< 0.05 ± 0.00	4.32 ± 0.02	< 0.05 ± 0.00	0.345 ± 0.000	0.004 ± 0.001	0.0 ± 0.0	0.263 ± 0.005
V27	10/08/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.31 ± 0.08	< 0.05 ± 0.00	0.059 ± 0.000	< 0.002 ± 0.000	0.0 ± 0.0	0.036 ± 0.001
EP1	10/08/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.35 ± 0.06	< 0.05 ± 0.00	0.038 ± 0.000	< 0.002 ± 0.000	0.0 ± 0.0	0.051 ± 0.001
EP5	10/09/91	< 0.05 ± 0.00	< 0.05 ± 0.00	3.58 ± 0.04	< 0.05 ± 0.00	0.086 ± 0.002	0.004 ± 0.001	0.0 ± 0.0	0.029 ± 0.002

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 2

WATER QUALITY DATA FOR 08/09-OCT-1991

STATION	DATE	Ag (mg/L)		GF Total		Al (mg/L)		ICP Total		As (mg/L)		B (mg/L)		Ba (mg/L)		Be (mg/L)		Ca (mg/L)				
		<	±	<	±	<	±	<	±	<	±	<	±	<	±	<	±	<	±	<	±	
V1	10/08/91	<	±	<	±	0.06	±	0.06	<	±	<	±	0.01	±	0.019	<	±	0.001	±	5.5	±	0.0
V2	10/08/91	<	±	0.013	±	0.19	±	0.02	<	±	0.06	±	0.02	±	0.111	<	±	0.001	±	37.8	±	1.0
V4	10/08/91	<	±	0.0006	±	0.14	±	0.02	<	±	0.06	±	0.01	±	0.076	<	±	0.001	±	69.2	±	0.4
V5	10/09/91	<	±	0.0008	±	0.22	±	0.03	<	±	0.06	±	0.01	±	0.054	<	±	0.001	±	41.2	±	1.1
V6A	10/08/91	<	±	0.0006	±	0.15	±	0.02	<	±	0.06	±	0.01	±	0.021	<	±	0.001	±	14.6	±	0.3
V8	10/09/91	<	±	0.0006	±	0.14	±	0.02	<	±	0.06	±	0.01	±	0.044	<	±	0.001	±	24.0	±	0.1
V25	10/08/91	<	±	0.0006	±	0.09	±	0.01	<	±	0.06	±	0.01	±	0.141	<	±	0.001	±	78.8	±	0.2
V27	10/08/91	<	±	0.0006	±	0.08	±	0.00	<	±	0.06	±	0.01	±	0.037	<	±	0.001	±	12.8	±	0.2
EP1	10/08/91	<	±	0.0006	±	0.08	±	0.01	<	±	0.06	±	0.02	±	0.026	<	±	0.001	±	7.4	±	0.2
EP3	10/09/91	<	±	0.0009	±	0.19	±	0.03	<	±	0.06	±	0.01	±	0.052	<	±	0.001	±	19.2	±	0.5

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 2

WATER QUALITY DATA FOR 08/09-OCT-1991

STATION	DATE	ICP Total Cd (mg/L)	GF Total Cd (mg/L)	ICP Total Co (mg/L)	ICP Total Cr (mg/L)	ICP Total Cu (mg/L)	GF Total Cu (mg/L)	ICP Total Fe (mg/L)	ICP Total K (mg/L)
V1	10/08/91	0.006 ± 0.000	0.0001 ± 0.0000	< 0.006 ± 0.000	< 0.006 ± 0.000	< 0.006 ± 0.000	0.0014 ± 0.0009	0.064 ± 0.009	< 2 ± 0
V2	10/08/91	< 0.006 ± 0.000	< 0.0001 ± 0.0000	0.007 ± 0.002	0.013 ± 0.006	0.010 ± 0.003	0.0027 ± 0.0015	0.193 ± 0.004	< 2 ± 0
V4	10/08/91	< 0.006 ± 0.000	< 0.0001 ± 0.0000	< 0.006 ± 0.000	< 0.006 ± 0.000	< 0.006 ± 0.000	0.0014 ± 0.0001	0.259 ± 0.008	< 2 ± 0
V5	10/09/91	< 0.006 ± 0.000	< 0.0001 ± 0.0000	< 0.006 ± 0.000	< 0.006 ± 0.000	< 0.006 ± 0.000	0.0029 ± 0.0008	0.309 ± 0.022	< 2 ± 0
V6A	10/08/91	0.015 ± 0.004	< 0.0001 ± 0.0000	< 0.006 ± 0.000	< 0.006 ± 0.000	< 0.006 ± 0.000	0.0018 ± 0.0006	0.164 ± 0.011	< 2 ± 0
V8	10/09/91	< 0.006 ± 0.000	< 0.0001 ± 0.0000	< 0.006 ± 0.000	< 0.006 ± 0.000	< 0.006 ± 0.000	0.0022 ± 0.0001	0.190 ± 0.032	< 2 ± 0
V25	10/08/91	< 0.006 ± 0.000	0.0017 ± 0.0000	0.039 ± 0.002	0.008 ± 0.002	0.007 ± 0.001	0.0048 ± 0.0025	0.268 ± 0.020	4 ± 0
V27	10/08/91	< 0.006 ± 0.000	< 0.0001 ± 0.0000	< 0.006 ± 0.000	< 0.006 ± 0.000	< 0.006 ± 0.000	0.0023 ± 0.0003	0.128 ± 0.009	< 2 ± 0
EP1	10/08/91	< 0.006 ± 0.000	< 0.0001 ± 0.0000	0.008 ± 0.001	0.013 ± 0.001	0.009 ± 0.001	0.0021 ± 0.0002	0.114 ± 0.005	< 2 ± 0
EP5	10/09/91	< 0.006 ± 0.000	< 0.0001 ± 0.0000	< 0.006 ± 0.000	< 0.006 ± 0.000	< 0.006 ± 0.000	0.0027 ± 0.0003	0.816 ± 0.513	< 2 ± 0

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 2

WATER QUALITY DATA FOR 08/09-OCT-1991

STATION	DATE	Mg (mg/L)	Mn (mg/L)	Mo (mg/L)	Na (mg/L)	Ni (mg/L)	P (mg/L)	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total	Pb (mg/L)	GF Total
V1	10/08/91	0.8 ± 0.0	0.003 ± 0.000	< 0.01 ± 0.00	1.1 ± 0.1	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.06 ± 0.00	< 0.0008 ± 0.0003					
V2	10/08/91	7.6 ± 0.1	0.007 ± 0.000	< 0.01 ± 0.00	3.8 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	0.09 ± 0.02	0.0016 ± 0.0004					
V4	10/08/91	24.5 ± 0.0	0.015 ± 0.000	< 0.01 ± 0.00	2.8 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.06 ± 0.00	0.0013 ± 0.0004					
V5	10/09/91	15.2 ± 0.0	0.012 ± 0.001	< 0.01 ± 0.00	2.4 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.06 ± 0.00	0.0024 ± 0.0002					
V6A	10/08/91	2.1 ± 0.0	0.010 ± 0.000	< 0.01 ± 0.00	1.4 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.06 ± 0.00	< 0.0014 ± 0.0012					
V8	10/09/91	7.9 ± 0.0	0.008 ± 0.000	< 0.01 ± 0.00	1.8 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.06 ± 0.00	0.0196 ± 0.0013					
V25	10/08/91	20.3 ± 0.1	0.654 ± 0.008	< 0.01 ± 0.00	5.9 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.06 ± 0.00	0.0150 ± 0.0018					
V27	10/08/91	2.4 ± 0.0	0.008 ± 0.000	< 0.01 ± 0.00	1.4 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.06 ± 0.00	0.0220 ± 0.0055					
EP1	10/08/91	1.1 ± 0.1	0.010 ± 0.000	< 0.01 ± 0.00	1.2 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	0.08 ± 0.02	0.0148 ± 0.0027					
EP5	10/09/91	5.5 ± 0.1	0.019 ± 0.008	< 0.01 ± 0.00	1.6 ± 0.0	< 0.02 ± 0.00	< 0.1 ± 0.0	< 0.06 ± 0.00	0.0400 ± 0.0134					

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 2

WATER QUALITY DATA FOR 08/09-OCT-1991

STATION	DATE	Sb (mg/L)	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)
V1	10/08/91	< 0.06 ± 0.00	< 0.06 ± 0.00	3.30 ± 0.04	< 0.06 ± 0.00	0.029 ± 0.000	< 0.002 ± 0.000	< 0.01 ± 0.00	0.005 ± 0.001
V2	10/08/91	< 0.06 ± 0.00	< 0.06 ± 0.00	5.97 ± 0.15	< 0.06 ± 0.00	0.180 ± 0.002	0.006 ± 0.002	0.02 ± 0.01	0.014 ± 0.004
V4	10/08/91	< 0.06 ± 0.00	< 0.06 ± 0.00	4.74 ± 0.03	< 0.06 ± 0.00	0.278 ± 0.001	0.004 ± 0.001	< 0.01 ± 0.00	< 0.002 ± 0.000
V5	10/09/91	< 0.06 ± 0.00	< 0.06 ± 0.00	4.93 ± 0.16	< 0.06 ± 0.00	0.165 ± 0.001	0.009 ± 0.001	< 0.01 ± 0.00	0.008 ± 0.000
V6A	10/09/91	< 0.06 ± 0.00	< 0.06 ± 0.00	5.25 ± 0.06	< 0.06 ± 0.00	0.061 ± 0.001	0.004 ± 0.001	< 0.01 ± 0.00	0.007 ± 0.001
V8	10/09/91	< 0.06 ± 0.00	< 0.06 ± 0.00	3.97 ± 0.05	< 0.06 ± 0.00	0.100 ± 0.000	0.004 ± 0.000	< 0.01 ± 0.00	0.023 ± 0.007
V25	10/08/91	< 0.06 ± 0.00	< 0.06 ± 0.00	4.62 ± 0.02	< 0.06 ± 0.00	0.349 ± 0.001	0.003 ± 0.000	< 0.01 ± 0.00	0.260 ± 0.001
V27	10/08/91	< 0.06 ± 0.00	< 0.09 ± 0.04	3.47 ± 0.04	< 0.06 ± 0.00	0.058 ± 0.001	0.002 ± 0.000	< 0.01 ± 0.00	0.031 ± 0.002
EP1	10/08/91	< 0.06 ± 0.00	< 0.06 ± 0.00	3.53 ± 0.06	< 0.06 ± 0.00	0.038 ± 0.000	0.004 ± 0.001	0.02 ± 0.00	0.051 ± 0.002
EP5	10/09/91	< 0.06 ± 0.00	< 0.06 ± 0.00	3.90 ± 0.04	< 0.06 ± 0.00	0.086 ± 0.003	0.005 ± 0.000	< 0.01 ± 0.00	0.031 ± 0.003

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 3

WATER QUALITY DATA FOR 22 MAY, 29 MAY, 14 AUGUST AND 8 SEPT. -1992

STATION	DATE	MEAN DEPTH (m)	STREAM WIDTH (m)	MEAN VELOCITY (m/s)	DAILY DISCHARGE (m ³ /sec)	TEMP (°C)	pH INSITU	pH LAB	FIELD COND. (µmhos/cm)	LAB COND. (µmhos/cm)
V1	05/22/92	N/A	N/A	N/A	N/A	1.4	7.47	7.9	82	133
EP1	05/22/92	0.1	1.2	0.44	0.08	1.4	7.49	7.9	128	190
V8	05/22/92	0.21	4.8	0.52	0.67	1.45	8.44	8.3	281	515
V1	05/29/92	N/A	N/A	N/A	N/A	N/A	7.15	7.3	30	53
V8	05/29/92	0.18	6.0	0.86	1.27	N/A	8.2	8.1	75	226
EP1	05/29/92	N/A	N/A	N/A	N/A	N/A	8.16	8.1	142	103
V8	08/14/92	N/A	N/A	N/A	N/A	N/A	8.7	8.42	240	389
V8	08/08/92	N/A	N/A	N/A	N/A	4	8.64	8.28	212	377

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 3

WATER QUALITY DATA FOR 22 MAY, 29 MAY, 14 AUGUST AND 8 SEPT. -1992

STATION	DATE	DISSOLVED OXYGEN (mg/L)	FR (mg/L)	NFR (mg/L)	NH3 (mg/L)	NO2 (mg/L)	NO2+3 (mg/L)	SO4 (mg/L)	COLOR (R.U.)
V1	05/22/92	N/A	90	< 10	0.007	< 0.002	0.034	9.9	5
EP1	05/22/92	N/A	140	200	0.021	0.005	0.138	26	25
V8	05/22/92	13.6	370	100	0.021	< 0.002	0.683	70.3	10
V1	05/29/92	N/A	50	10	0.046	0.003	0.034	6.2	40
V8	05/29/92	N/A	180	520	0.025	0.004	0.191	29	80
EP1	05/29/92	N/A	130	1440	0.032	0.004	0.118	15.8	400
V8	08/14/92	11.4	260	< 10	0.002	0.003	0.155	55.0	7
V8	09/08/92	12.5	250	< 10	0.014	0.005	0.387	54.9	7

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 3 WATER QUALITY DATA FOR 22 MAY, 29 MAY, 14 AUGUST AND 8 SEPT. -1992

STATION	DATE	TURB. (FTU)	TOTAL ALK. (asCaCO3)		(Diss.)		(Extr.)		TOTAL		TOTAL P (mg/L)	
			(mg/L)	(mg/L)	HARDNESS (asCaCO3) (mg/L)	TOTAL HARDNESS (mg/L)	HARDNESS (asCaCO3) (mg/L)	TOTAL HARDNESS (mg/L)	HARDNESS (mg/L)	CHLORIDE (mg/L)		
V1	05/22/92	0.18	55	± 52.7	± 1.2	± 52.9	± 1.1	± 54.2	± 0.4	± 54.5	± 0.2	0.007
EP1	05/22/92	80	69	± 79.4	± 0.6	± 80.0	± 0.7	± 91.6	± 4.4	± 115.3	± 0.6	0.127
V8	05/22/92	30	202	± 253.7	± 3.3	± 254.0	± 2.9	± 265.7	± 2.6	± 274.7	± 1.4	0.043
V1	05/29/92	1.2	18	± 21.8	± 0.3	± 22.4	± 0.2	± 22.4	± 0.8	± 23.5	± 0.5	0.03
V8	05/29/92	180	95	± 103.6	± 4.0	± 104.0	± 3.7	± 148.7	± 2.1	± 198.7	± 0.6	0.42
EP1	05/29/92	230	44	± 33.4	± 0.8	± 34.2	± 0.7	± 154.0	± 4.0	± 295.5	± 0.5	1.05
V8	08/14/92	0.45	149	± 199	± 0.00	± 199	± 0.00	± 197	± 2	± 198	± 1.2	0.004
V8	09/08/92	0.66	140	± 187	± 2	± 188	± 2	± 195	± 2	± 196	± 1.7	< 0.002

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 3

WATER QUALITY DATA FOR 22 MAY, 29 MAY, 14 AUGUST AND 8 SEPT. -1992

STATION	DATE	Ag		GF Total	Al		As		B		Ba		Be		Ca	
		(mg/L)	(mg/L)		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	
V1	05/22/92	< 0.01 ± 0.00	< 0.0006 ± 0.00	< 0.06 ± 0.00	< 0.06 ± 0.00	< 0.06 ± 0.00	< 0.01 ± 0.00	< 0.036 ± 0.000	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00
EP1	05/22/92	< 0.01 ± 0.00	0.0018 ± 0.0004	9.48 ± 1.01	0.07 ± 0.01	0.01 ± 0.00	0.01 ± 0.00	0.734 ± 0.209	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	29.6 ± 0.5
V8	05/22/92	< 0.01 ± 0.00	< 0.0006 ± 0.00	3.69 ± 0.09	< 0.06 ± 0.00	< 0.01 ± 0.00	< 0.01 ± 0.00	0.184 ± 0.006	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	64.1 ± 0.8
V1	05/29/92	< 0.01 ± 0.00	< 0.0006 ± 0.00	0.23 ± 0.03	< 0.06 ± 0.00	< 0.01 ± 0.00	< 0.01 ± 0.00	0.023 ± 0.000	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	7.0 ± 0.4
V8	05/29/92	< 0.01 ± 0.00	< 0.0006 ± 0.00	20.60 ± 0.59	0.11 ± 0.03	< 0.01 ± 0.00	< 0.01 ± 0.00	0.567 ± 0.014	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	37.4 ± 1.3
EP1	05/29/92	< 0.01 ± 0.00	< 0.0006 ± 0.00	61.45 ± 2.75	0.38 ± 0.00	0.61 ± 0.59	0.61 ± 0.59	1.565 ± 0.015	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	39.2 ± 0.1
V8	08/14/92	< 0.01 ± 0.00	< 0.0006 ± 0.00	0.24 ± 0.01	< 0.06 ± 0.00	< 0.01 ± 0.00	< 0.01 ± 0.00	0.076 ± 0.000	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	53.1 ± 0.3
V8	09/08/92	< 0.01 ± 0.00	< 0.0006 ± 0.00	0.12 ± 0.03	< 0.06 ± 0.00	< 0.01 ± 0.00	< 0.01 ± 0.00	0.068 ± 0.005	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	< 0.001 ± 0.00	48.6 ± 0.4

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 3 WATER QUALITY DATA FOR 22 MAY, 29 MAY, 14 AUGUST AND 8 SEPT. -1992

STATION	DATE	Cd (mg/L)	Cd (mg/L)	Cd (mg/L)	Cd (mg/L)	Cr (mg/L)	Cu (mg/L)	Cu (mg/L)	Cu (mg/L)	GF Total	GF Total	Fe (mg/L)	Fe (mg/L)	K (mg/L)
		ICP Total	GF Total	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total
V1	05/22/92	< 0.006 ± 0.00	< 0.0001 ± 0.00	< 0.006 ± 0.00	< 0.006 ± 0.00	< 0.006 ± 0.00	< 0.006 ± 0.00	< 0.006 ± 0.00	0.001 ± 0.000	0.001 ± 0.000	0.042 ± 0.009	< 0.009 ± 0.00	< 0.009 ± 0.00	2 0.00
EP1	05/22/92	< 0.006 ± 0.00	0.0010 ± 0.0003	< 0.014 ± 0.001	0.023 ± 0.001	0.055 ± 0.009	(see ICP) (see ICP)	12.3 ± 2.3	3 0.00					
V8	05/22/92	< 0.006 ± 0.00	0.0002 ± 0.0000	< 0.006 ± 0.00	0.008 ± 0.001	0.009 ± 0.004	0.012 ± 0.000	3.990 ± 0.110	< 0.009 ± 0.00	< 0.009 ± 0.00	< 0.009 ± 0.00	< 0.009 ± 0.00	< 0.009 ± 0.00	2 0.00
V1	05/29/92	< 0.006 ± 0.00	< 0.0001 ± 0.00	0.008 ± 0.003	0.009 ± 0.004	0.009 ± 0.004	0.0006 ± 0.00	0.317 ± 0.013	3 1					
V8	05/29/92	< 0.006 ± 0.00	0.0006 ± 0.00	< 0.006 ± 0.00	0.065 ± 0.001	0.045 ± 0.001	(see ICP) (see ICP)	28.0 ± 1.2	4 0					
EP1	05/29/92	< 0.006 ± 0.00	0.0020 ± 0.0000	< 0.006 ± 0.00	0.249 ± 0.013	0.148 ± 0.007	(see ICP) (see ICP)	93.5 ± 4.3	10 0.00					
V8	08/14/92	< 0.006 ± 0.00	< 0.0001 ± 0.00	< 0.006 ± 0.00	< 0.006 ± 0.00	< 0.006 ± 0.00	< 0.0007 ± 0.0001	0.305 ± 0.016	2 0.00					
V8	09/08/92	< 0.006 ± 0.00	< 0.0001 ± 0.00	< 0.006 ± 0.00	< 0.006 ± 0.00	< 0.006 ± 0.00	0.0012 ± 0.0003	0.180 ± 0.070	2 0.00					

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 3

WATER QUALITY DATA FOR 22 MAY, 29 MAY, 14 AUGUST AND 8 SEPT. -1992

STATION	DATE	Mg (mg/L)	Mn (mg/L)	Mo (mg/L)	Na (mg/L)	Ni (mg/L)	P (mg/L)	ICP Total	ICP Total	ICP Total	ICP Total	Pb (mg/L)	GF Total
V1	05/22/92	± 2.7	± 0.001	< 0.01	± 2.4	< 0.02	< 0.1	± 0.00	± 0.00	± 0.00	< 0.06	± 0.0033	
EP1	05/22/92	± 8.9	± 0.208	< 0.01	± 3.1	± 0.03	± 0.2	± 0.00	± 0.00	± 0.00	± 0.44	(see ICP)	
V8	05/22/92	± 27.3	± 0.069	< 0.01	± 3.9	< 0.02	< 0.1	± 0.00	± 0.00	± 0.00	± 0.06	(see ICP)	
V1	05/29/92	± 1.0	± 0.009	< 0.01	± 1.0	< 0.02	< 0.1	± 0.00	± 0.00	± 0.00	< 0.06	± 0.0031	
V8	05/29/92	± 18.2	± 0.391	< 0.01	± 2.6	± 0.05	± 0.5	± 0.00	± 0.00	± 0.00	± 0.31	(see ICP)	
EP1	05/29/92	± 32.4	± 1.175	± 0.02	± 3.1	± 0.20	± 1.8	± 0.00	± 0.01	± 0.1	± 0.87	(see ICP)	
V8	08/14/92	± 18.6	± 0.019	< 0.01	± 2.4	< 0.02	< 0.1	± 0.00	± 0.00	± 0.00	± 0.06	± 0.0069	
V8	09/08/92	± 17.9	± 0.016	< 0.01	± 2.7	< 0.02	< 0.1	± 0.00	± 0.00	± 0.00	< 0.06	± 0.0045	

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 3

WATER QUALITY DATA FOR 22 MAY, 29 MAY, 14 AUGUST AND 8 SEPT. -1992

STATION	DATE	Sb (mg/L)	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)
V1	05/22/92	< 0.06 ± 0.00	< 0.06 ± 0.00	4.96 ± 0.07	< 0.1 ± 0.00	0.096 ± 0.001	< 0.002 ± 0.00	0.01 ± 0.00	0.003 ± 0.001
EP1	05/22/92	< 0.06 ± 0.00	< 0.06 ± 0.00	19.90 ± 1.42	< 0.1 ± 0.00	0.143 ± 0.002	0.17833 ± 0.02101	0.03 ± 0.00	0.540 ± 0.141
V8	05/22/92	< 0.06 ± 0.00	< 0.06 ± 0.00	10.87 ± 0.17	< 0.1 ± 0.00	0.268 ± 0.007	0.07767 ± 0.00732	0.01 ± 0.00	0.073 ± 0.003
V1	05/29/92	< 0.06 ± 0.00	< 0.06 ± 0.00	3.89 ± 0.04	< 0.06 ± 0.00	0.033 ± 0.000	0.008 ± 0.002	< 0.01 ± 0.00	0.005 ± 0.001
V8	05/29/92	< 0.06 ± 0.00	< 0.06 ± 0.00	23.6 ± 0.1	< 0.06 ± 0.00	0.170 ± 0.004	0.484 ± 0.023	0.04 ± 0.00	0.346 ± 0.014
EP1	05/29/92	< 0.06 ± 0.00	< 0.06 ± 0.00	154.0 ± 7.0	< 0.06 ± 0.00	0.208 ± 0.001	1.620 ± 0.090	0.12 ± 0.01	1.215 ± 0.025
V8	08/14/92	< 0.06 ± 0.00	< 0.06 ± 0.00	5.40 ± 0.02	< 0.06 ± 0.00	0.205 ± 0.001	0.007 ± 0.001	< 0.01 ± 0.00	0.023 ± 0.001
V8	09/08/92	< 0.06 ± 0.00	< 0.06 ± 0.00	5.32 ± 0.13	< 0.06 ± 0.00	0.187 ± 0.009	0.004 ± 0.001	< 0.01 ± 0.00	0.025 ± 0.007

Sample size = 3 where mean and standard deviation are given.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	MEAN DAILY TEMPERATURE AT FARO, YT (°C)	DAILY DISCHARGE AT V8 (m ³ /sec)	NFR (mg/L)	(Extr.) HARDNESS (asCaCO3) (mg/L)	(Extr.) TOTAL HARDNESS (mg/L)	ICP Extr. Ag (mg/L)	GF Extr. Ag (mg/L)
V1	05/22/92	4.8	0.84	< 20	56.6	56.9	< 0.01	< 0.0005
V1	05/23/92	7.1	1.07	< 20	56.5	57.1	< 0.01	< 0.0005
V1	05/24/92	8.5	1.58	< 20	53.4	53.8	< 0.01	< 0.0005
V1	05/25/92	10.9	2.38	< 20	49.5	50.0	< 0.01	< 0.0005
V1	05/26/92	10.1	3.96	< 20	42.2	43.1	< 0.01	< 0.0005
V1	05/27/92	11.4	4.52	< 20	35.3	36.3	< 0.01	< 0.0005
V1	05/28/92	10.1	4.87	< 20	29.6	31.6	< 0.01	< 0.0005
V1	05/29/92	10.5	4.87	< 20	23.2	24.1	< 0.01	< 0.0005
V1	05/30/92	12.3	4.95	< 20	22.9	24.2	< 0.01	< 0.0005
V1	05/31/92	8.8	4.87	< 20	20.0	21.1	< 0.01	< 0.0005
V1	06/01/92	12.3	5.02	< 20	17.7	19.1	< 0.01	< 0.0005
V1	06/02/92	11.5	5.00	< 20	16.0	16.8	< 0.01	< 0.0005
V1	06/03/92	11.9	5.04	< 20	16.0	17.2	< 0.01	< 0.0005
V1	06/04/92	10.6	5.16	< 20	13.6	15.1	< 0.01	< 0.0005
V1	06/05/92	11.6	4.71	< 20	14.2	15.0	< 0.01	< 0.0005
V1	06/06/92	11.2	4.33	< 20	14.1	15.0	< 0.01	< 0.0005
V1	06/07/92	7.0	4.63	< 20	13.1	13.9	< 0.01	< 0.0005
V1	06/08/92	6.6	3.46	< 20	15.4	16.2	< 0.01	< 0.0005
V1	06/09/92	8.7	3.06	< 20	16.0	16.6	< 0.01	< 0.0005
V1	06/10/92	10.9	3.35	< 20	14.0	14.7	< 0.01	< 0.0005
Blank #1(V1)	05/21/92			<	0.4	0.4	< 0.01	< 0.0005
Blank #2 (V1)	06/11/92				0.4	0.5	< 0.01	< 0.0005

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	MEAN DAILY TEMPERATURE AT FARO, YT (°C)	DAILY DISCHARGE AT V8 (m³/sec)	NFR (mg/L)	(Extr.) HARDNESS (asCaCO3) (mg/L)	(Extr.) TOTAL HARDNESS (mg/L)	ICP Extr. Ag (mg/L)	GF Extr. Ag (mg/L)
EP1	05/22/92	4.8	0.84	110	100.0	116.0	< 0.01	< 0.0005
EP1	05/23/92	7.1	1.07	405	102.0	110.0	< 0.01	< 0.0005
EP1	05/24/92	8.5	1.58	740	169.0	242.0	< 0.01	0.0007
EP1	05/25/92	10.9	2.38	900	157.0	226.0	< 0.01	0.0006
EP1	05/26/92	10.1	3.96	2891	305.0	509.0	< 0.01	0.0009
EP1	05/27/92	11.4	4.52	2173	248.0	401.0	< 0.01	0.001
EP1	05/28/92	10.1	4.87	2190	217.0	365.0	< 0.01	0.0031
EP1	05/29/92	10.5	4.87	1793	165.0	278.0	< 0.01	0.001
EP1	05/30/92	12.3	4.95	3769	162.0	353.0	< 0.01	0.0008
EP1	05/31/92	8.8	4.87	1632	102.0	208.0	< 0.01	0.0006
EP1	06/01/92	12.3	5.02	505	62.7	98.4	< 0.01	< 0.0005
EP1	06/02/92	11.5	5.00	1430	96.0	217.0	< 0.01	0.0008
EP1	06/03/92	11.9	5.04	1200	90.7	177.0	< 0.01	< 0.0005
EP1	06/04/92	10.6	5.16	506	54.6	88.5	< 0.01	< 0.0005
EP1	06/05/92	11.6	4.71	200	35.4	48.6	< 0.01	< 0.0005
EP1	06/06/92	11.2	4.33	120	32.0	40.7	< 0.01	< 0.0005
EP1	06/07/92	7.0	4.63	100	28.3	36.0	< 0.01	< 0.0005
EP1	06/08/92	6.6	3.46	90	29.4	32.7	< 0.01	< 0.0005
EP1	06/09/92	8.7	3.06	30	25.6	27.4	< 0.01	< 0.0005
EP1	06/10/92	10.9	3.35	20	23.5	25.9	< 0.01	< 0.0005
Blank #1 (EP1)	05/11/92				0.9	1.0	< 0.01	< 0.0005
Blank #2 (EP1)	06/10/92				0.4	0.4	< 0.01	< 0.0005

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	MEAN DAILY TEMPERATURE AT FARO, YT (°C)	DAILY DISCHARGE AT V8 (m³/sec)	NFR (mg/L)	(Extr.) HARDNESS (asCaCO3) (mg/L)	(Extr.) TOTAL HARDNESS (mg/L)	ICP Extr.		GF Extr.	
							Ag (mg/L)	Ag (mg/L)	Ag (mg/L)	Ag (mg/L)
V8	05/22/92	4.8	0.84	100	281.0	304.0	<	0.01	<	0.0005
V8	05/23/92	7.1	1.07	180	277.0	308.0	<	0.01	<	0.0005
V8	05/24/92	8.5	1.58	580	279.0	355.0	<	0.01	<	0.0005
V8	05/25/92	10.9	2.38	990	292.0	408.0	<	0.01	<	0.0007
V8	05/26/92	10.1	3.96	610	192.0	261.0	<	0.01	<	0.0005
V8	05/27/92	11.4	4.52	550	176.0	246.0	<	0.01	<	0.0005
V8	05/28/92	10.1	4.87	510	160.0	218.0	<	0.01	<	0.0005
V8	05/29/92	10.5	4.87	555	158.0	229.0	<	0.01	<	0.0005
V8	05/30/92	12.3	4.95	850	171.0	296.0	<	0.01	<	0.0005
V8	05/31/92	8.8	4.87	1000	163.0	274.0	<	0.01	<	0.0005
V8	06/01/92	12.3	5.02	495	136.0	191.0	<	0.01	<	0.0005
V8	06/02/92	11.5	5.00	800	156.0	270.0	<	0.01	<	0.0006
V8	06/03/92	11.9	5.04	750	150.0	244.0	<	0.01	<	0.0005
V8	06/04/92	10.6	5.16	460	126.0	181.0	<	0.01	<	0.0005
V8	06/05/92	11.6	4.71	200	123.0	159.0	<	0.01	<	0.0005
Blank #1 (V8)	05/21/92				1.1	1.2	<	0.01	<	0.0005
Blank #2 (V8)	06/10/92				1.2	1.5	<	0.01	<	0.0005

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Ca (mg/L)	Cd (mg/L)
V1	05/22/92	<	0.05	0.01	0.041	<	18.3	<
V1	05/23/92	0.05	0.05	0.02	0.043	<	18.4	<
V1	05/24/92	<	0.05	0.02	0.039	<	17.4	<
V1	05/25/92	0.06	0.05	0.02	0.038	<	16.1	<
V1	05/26/92	0.12	0.05	0.01	0.037	<	13.7	<
V1	05/27/92	0.15	0.05	0.01	0.031	<	11.5	<
V1	05/28/92	0.28	0.05	0.01	0.029	<	9.6	<
V1	05/29/92	0.12	0.05	0.01	0.023	<	7.5	<
V1	05/30/92	0.17	0.05	0.01	0.022	<	7.4	<
V1	05/31/92	0.16	0.05	0.01	0.02	<	6.4	<
V1	06/01/92	0.21	0.05	0.01	0.02	<	5.7	<
V1	06/02/92	0.10	0.05	0.01	0.017	<	5.2	<
V1	06/03/92	0.17	0.05	0.01	0.018	<	5.2	<
V1	06/04/92	0.20	0.05	0.01	0.018	<	4.4	<
V1	06/05/92	0.11	0.05	0.01	0.017	<	4.6	<
V1	06/06/92	0.10	0.05	0.01	0.021	<	4.6	<
V1	06/07/92	0.10	0.05	0.01	0.016	<	4.3	<
V1	06/08/92	0.11	0.05	0.01	0.017	<	5.0	<
V1	06/09/92	0.07	0.05	0.01	0.018	<	5.2	<
V1	06/10/92	0.09	0.05	0.01	0.016	<	4.6	<
Blank #1 (V1)	05/21/92	<	0.05	0.01	0.001	<	0.1	<
Blank #2 (V1)	06/11/92	<	0.05	0.01	0.001	<	0.2	<

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	ICP Extr.	Al (mg/L)	ICP Extr.	As (mg/L)	ICP Extr.	B (mg/L)	ICP Extr.	Ba (mg/L)	ICP Extr.	Be (mg/L)	ICP Extr.	Ca (mg/L)	ICP Extr.	Cd (mg/L)
EP1	05/22/92	<	2.16	<	0.05	0.01	0.195	<	0.001	<	30.3	<	0.005		
EP1	05/23/92	<	0.94	<	0.05	0.01	0.216	<	0.001	<	32.4	<	0.005		
EP1	05/24/92		9.61	<	0.09	0.01	0.875	<	0.001	<	48.6	<	0.005		
EP1	05/25/92		9.54	<	0.07	0.01	0.611	<	0.001	<	45.1	<	0.005		
EP1	05/26/92		28.30	<	0.17	0.01	1.45		0.002		82.3		0.009		
EP1	05/27/92		21.10	<	0.07	0.01	1.08		0.001		67.0		0.005		
EP1	05/28/92		19.70	<	0.12	0.01	1.7		0.001		59.8		0.008		
EP1	05/29/92		15.60	<	0.09	0.01	0.953	<	0.001	<	45.7	<	0.005		
EP1	05/30/92		29.50	<	0.17	0.01	1.43		0.002		39.7		0.014		
EP1	05/31/92		16.20	<	0.1	0.01	0.833	<	0.001	<	25.5	<	0.005		
EP1	06/01/92		5.06	<	0.06	0.01	0.339	<	0.001	<	17.3	<	0.005		
EP1	06/02/92		20.70		0.16	0.01	0.758		0.001		24.1		0.005		
EP1	06/03/92		13.20		0.11	0.01	0.611	<	0.001	<	23.2	<	0.005		
EP1	06/04/92		4.92	<	0.05	0.01	0.283	<	0.001	<	15.1	<	0.005		
EP1	06/05/92		1.95	<	0.05	0.01	0.118	<	0.001	<	10.4	<	0.005		
EP1	06/06/92		1.22	<	0.05	0.01	0.095	<	0.001	<	9.7	<	0.005		
EP1	06/07/92		1.10	<	0.05	0.01	0.072	<	0.001	<	8.6	<	0.005		
EP1	06/08/92		0.43	<	0.05	0.01	0.051	<	0.001	<	9.4		0.01		
EP1	06/09/92		0.21	<	0.05	0.01	0.038	<	0.001	<	8.4		0.006		
EP1	06/10/92		0.32	<	0.05	0.01	0.038	<	0.001	<	7.6		0.007		
Blank #1 (EP1)	05/11/92	<	0.05	<	0.05	0.01	0.002	<	0.001	<	0.4	<	0.005		
Blank #2 (EP1)	06/10/92	<	0.05	<	0.05	0.01	0.001	<	0.001	<	0.2	<	0.005		

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Ca (mg/L)	Cd (mg/L)
V8	05/22/92	3.20	<	0.01	0.228	<	68.2	<
V8	05/23/92	4.31	<	0.01	0.273	<	67.5	<
V8	05/24/92	10.40	<	0.01	0.718	<	67.8	0.006
V8	05/25/92	15.10	0.11	0.01	1.05	<	71.8	0.008
V8	05/26/92	9.60	0.08	0.01	0.578	<	46.5	0.005
V8	05/27/92	10.40	0.06	0.01	0.505	<	41.9	0.005
V8	05/28/92	8.31	0.05	0.01	0.451	<	38.9	0.005
V8	05/29/92	10.50	0.05	0.01	0.417	<	37.9	0.005
V8	05/30/92	20.00	0.09	0.01	0.589	<	37.7	0.005
V8	05/31/92	17.30	0.09	0.01	0.535	<	36.8	0.005
V8	06/01/92	8.27	0.06	0.01	0.344	<	33.1	0.005
V8	06/02/92	18.20	0.08	0.01	0.571	<	35.0	0.005
V8	06/03/92	14.50	0.09	0.01	0.504	<	35.0	0.005
V8	06/04/92	8.34	0.05	0.01	0.304	<	30.5	0.005
V8	06/05/92	5.33	0.05	0.01	0.253	<	31.0	0.005
Blank #1 (V8)	05/21/92	<	0.05	0.01	0.001	<	0.4	0.005
Blank #2 (V8)	06/10/92	<	0.05	0.01	0.003	<	0.4	0.005

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	GF Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	GF Extr.	ICP Extr.	ICP Extr.	ICP Extr.
		Cd (mg/L)	Co (mg/L)	Cr (mg/L)	Cu (mg/L)	Cu (mg/L)	Cu (mg/L)	Fe (mg/L)	K (mg/L)	
V1	05/22/92	0.0010	<	0.005	<	0.013	0.0135	0.05	<	2
V1	05/23/92	0.0011	<	0.005	<	0.017	0.0143	0.10	<	2
V1	05/24/92	0.0014	<	0.005	<	0.022	(see ICP)	0.05	<	2
V1	05/25/92	0.0010	<	0.005	<	0.023	(see ICP)	0.09	<	2
V1	05/26/92	0.0004	<	0.005	<	0.011	0.0092	0.17	<	2
V1	05/27/92	0.0002	<	0.005	<	0.008	0.0055	0.18	<	2
V1	05/28/92	0.0003	<	0.005	<	0.007	0.0058	0.46	<	2
V1	05/29/92	0.0005	<	0.005	<	0.009	0.0092	0.23	<	2
V1	05/30/92	0.0004	<	0.005	<	0.009	0.0065	0.28	<	2
V1	05/31/92	0.0002	<	0.005	<	0.006	0.0047	0.26	<	2
V1	06/01/92	0.0001	<	0.005	<	0.005	0.0036	0.32	<	2
V1	06/02/92	0.0002	<	0.005	<	0.005	0.0042	0.16	<	2
V1	06/03/92	0.0003	<	0.005	<	0.008	0.0043	0.26	<	2
V1	06/04/92	0.0003	<	0.005	<	0.005	0.0041	0.35	<	2
V1	06/05/92	0.0005	<	0.005	<	0.005	0.0029	0.19	<	2
V1	06/06/92	0.0002	<	0.005	<	0.005	0.0028	0.18	<	2
V1	06/07/92	0.0002	<	0.005	<	0.005	0.0029	0.22	<	2
V1	06/08/92	0.0001	<	0.005	<	0.005	0.0023	0.16	<	2
V1	06/09/92	0.0003	<	0.005	<	0.005	0.0026	0.13	<	2
V1	06/10/92	0.0003	<	0.005	<	0.005	0.0033	0.15	<	2
Blank #1(V1)	05/21/92	<	<	0.005	<	0.005	0.0018	0.01	<	2
Blank #2 (V1)	06/11/92	<	<	0.005	<	0.005	0.002	0.01	<	2

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	GF Extr. (mg/L)	ICP Extr. (mg/L)	Co (mg/L)	Cr (mg/L)	ICP Extr. (mg/L)	Cu (mg/L)	GF Extr. (mg/L)	ICP Extr. (mg/L)	Fe (mg/L)	ICP Extr. (mg/L)	K (mg/L)
EP1	05/22/92	0.0007	<	0.005	0.019	ICP Extr.	0.024	(see ICP)	3.94	<	2	
EP1	05/23/92	0.0024	<	0.005	<	ICP Extr.	0.029	(see ICP)	1.47	<	2	
EP1	05/24/92	0.0020	<	0.005	0.037	ICP Extr.	0.104	(see ICP)	18.70	<	3	
EP1	05/25/92	0.0017	<	0.005	0.028	ICP Extr.	0.086	(see ICP)	17.20	<	2	
EP1	05/26/92	0.0035	<	0.005	0.098	ICP Extr.	0.208	(see ICP)	51.10	<	4	
EP1	05/27/92	0.0023	<	0.005	0.078	ICP Extr.	0.150	(see ICP)	38.30	<	3	
EP1	05/28/92	0.0026	<	0.005	0.068	ICP Extr.	0.215	(see ICP)	37.50	<	3	
EP1	05/29/92	0.0023	<	0.005	0.036	ICP Extr.	0.110	(see ICP)	28.30	<	2	
EP1	05/30/92	0.0022	<	0.005	0.061	ICP Extr.	0.116	(see ICP)	42.00	<	4	
EP1	05/31/92	0.0012	<	0.005	0.039	ICP Extr.	0.070	(see ICP)	23.70	<	3	
EP1	06/01/92	0.0007	<	0.005	0.018	ICP Extr.	0.034	(see ICP)	8.58	<	2	
EP1	06/02/92	0.0020	<	0.024	0.034	ICP Extr.	0.517	(see ICP)	21.80	<	3	
EP1	06/03/92	0.0014	<	0.005	0.032	ICP Extr.	0.163	(see ICP)	19.20	<	3	
EP1	06/04/92	0.0006	<	0.005	0.014	ICP Extr.	0.044	(see ICP)	8.05	<	2	
EP1	06/05/92	0.0002	<	0.005	0.008	ICP Extr.	0.017	0.015	3.06	<	2	
EP1	06/06/92	0.0001	<	0.005	<	ICP Extr.	<	0.0095	2.13	<	2	
EP1	06/07/92	0.0006	<	0.005	<	ICP Extr.	<	0.0068	1.85	<	2	
EP1	06/08/92	0.0023	<	0.005	<	ICP Extr.	0.008	0.0046	0.82	<	2	
EP1	06/09/92	<	<	0.005	<	ICP Extr.	0.005	0.0034	0.47	<	2	
EP1	06/10/92	0.0001	<	0.005	0.005	ICP Extr.	0.006	0.0032	0.54	<	2	
Blank #1 (EP1)	05/11/92	<	<	0.005	<	ICP Extr.	0.005	0.0011	0.02	<	2	
Blank #2 (EP1)	06/10/92	<	<	0.005	<	ICP Extr.	0.005	0.0011	0.01	<	2	

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	GF Extr. (mg/L)	ICP Extr. (mg/L)	ICP Extr. (mg/L)	ICP Extr. (mg/L)	GF Extr. (mg/L)	ICP Extr. (mg/L)	ICP Extr. (mg/L)	ICP Extr. (mg/L)	ICP Extr. (mg/L)
		Cd	Co	Cr	Cu	Cu	Fe	K		
V8	05/22/92	0.0005	<	0.013	0.021	(see ICP)	5.53	<	2	
V8	05/23/92	0.0009	<	0.009	0.022	(see ICP)	7.35	<	2	
V8	05/24/92	0.0013	<	0.026	0.061	(see ICP)	19.30	<	2	
V8	05/25/92	0.0023	<	0.037	0.096	(see ICP)	30.80	<	3	
V8	05/26/92	0.0011	<	0.027	0.053	(see ICP)	17.00	<	2	
V8	05/27/92	0.0010	<	0.038	0.062	(see ICP)	16.40	<	2	
V8	05/28/92	0.0010	<	0.026	0.042	(see ICP)	13.80	<	2	
V8	05/29/92	0.0010	<	0.077	0.075	(see ICP)	16.40	<	2	
V8	05/30/92	0.0012	<	0.047	0.061	(see ICP)	27.50	<	3	
V8	05/31/92	0.0008	<	0.042	0.049	(see ICP)	24.80	<	3	
V8	06/01/92	0.0008	<	0.022	0.032	(see ICP)	12.90	<	2	
V8	06/02/92	0.0010	<	0.038	0.151	(see ICP)	24.60	<	2	
V8	06/03/92	0.0007	<	0.032	0.093	(see ICP)	21.10	<	2	
V8	06/04/92	0.0005	<	0.023	0.049	(see ICP)	12.90	<	2	
V8	06/05/92	0.0008	<	0.019	0.027	(see ICP)	8.53	<	2	
Blank #1 (V8)	05/21/92	<	<	0.005	<	0.0009	0.01	<	2	
Blank #2 (V8)	06/10/92	0.0005	<	0.005	<	0.001	0.07	<	2	

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	Mg (mg/L)	Mn (mg/L)	Mo (mg/L)	Na (mg/L)	Ni (mg/L)	P (mg/L)	Pb (mg/L)
V1	05/22/92	2.6	0.004	<	1.9	0.02	0.1	<
V1	05/23/92	2.6	0.004	<	1.8	0.02	0.1	<
V1	05/24/92	2.4	0.003	<	1.8	0.02	0.1	<
V1	05/25/92	2.2	0.003	<	1.7	0.02	0.1	<
V1	05/26/92	1.9	0.005	<	1.4	0.02	0.1	<
V1	05/27/92	1.6	0.005	<	1.2	0.02	0.1	<
V1	05/28/92	1.4	0.018	<	1.1	0.02	0.1	<
V1	05/29/92	1.1	0.010	<	1.1	0.02	0.1	<
V1	05/30/92	1.1	0.013	<	1.1	0.02	0.1	<
V1	05/31/92	0.9	0.012	<	1.0	0.02	0.1	<
V1	06/01/92	0.9	0.016	<	0.9	0.02	0.1	<
V1	06/02/92	0.7	0.010	<	0.8	0.02	0.1	<
V1	06/03/92	0.7	0.012	<	0.8	0.02	0.1	<
V1	06/04/92	0.6	0.018	<	0.8	0.02	0.1	<
V1	06/05/92	0.6	0.009	<	0.8	0.02	0.1	<
V1	06/06/92	0.6	0.008	<	0.8	0.02	0.1	<
V1	06/07/92	0.6	0.011	<	0.8	0.02	0.1	<
V1	06/08/92	0.7	0.008	<	0.9	0.02	0.1	<
V1	06/09/92	0.7	0.006	<	0.9	0.02	0.1	<
V1	06/10/92	0.6	0.007	<	0.8	0.02	0.1	<
Blank #1(V1)	05/21/92	<	<	<	0.1	0.02	0.1	<
Blank #2 (V1)	06/11/92	<	<	<	0.1	0.02	0.1	<

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.
		Mg (mg/L)	Mn (mg/L)	Mo (mg/L)	Na (mg/L)	Ni (mg/L)	P (mg/L)	Pb (mg/L)				
EP1	05/22/92	5.9	0.185	<	2.3	<	0.1	0.18				
EP1	05/23/92	5.2	0.196	<	2.3	<	0.2	0.27				
EP1	05/24/92	11.6	0.631	<	2.9	0.05	0.8	1.14				
EP1	05/25/92	10.7	0.624	<	2.6	0.04	0.7	0.77				
EP1	05/26/92	24.2	1.780	<	2.6	0.16	2.3	1.55				
EP1	05/27/92	19.7	1.450	<	2.2	0.12	2	0.97				
EP1	05/28/92	16.5	1.600	<	1.7	0.12	2	3.44				
EP1	05/29/92	12.4	1.050	<	1.7	0.08	1.5	1.13				
EP1	05/30/92	15.4	1.700	<	1.9	0.11	2.5	0.81				
EP1	05/31/92	9.3	0.914	<	1.8	0.06	1.4	0.44				
EP1	06/01/92	4.8	0.309	<	1.4	0.03	0.4	0.42				
EP1	06/02/92	8.7	0.995	<	1.6	0.06	1	0.78				
EP1	06/03/92	8.0	0.800	<	1.5	0.05	0.9	0.36				
EP1	06/04/92	4.1	0.348	<	1.2	0.03	0.4	0.15				
EP1	06/05/92	2.3	0.120	<	1.2	0.02	0.2	0.07				
EP1	06/06/92	1.9	0.092	<	1.1	0.02	0.1	0.05				
EP1	06/07/92	1.6	0.073	<	1.1	0.02	0.1	0.07				
EP1	06/08/92	1.4	0.043	<	1.2	0.02	<	0.05				
EP1	06/09/92	1.1	0.026	<	1.1	0.02	<	0.05				
EP1	06/10/92	1.1	0.029	<	1.0	0.02	<	0.06				
Blank #1 (EP1)	05/11/92	<	0.001	<	0.1	0.02	<	0.05				
Blank #2 (EP1)	06/10/92	<	0.001	<	0.1	0.02	<	0.05				

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	ICP Extr.	Mg (mg/L)	ICP Extr.	Mn (mg/L)	ICP Extr.	Mo (mg/L)	ICP Extr.	Na (mg/L)	ICP Extr.	Ni (mg/L)	ICP Extr.	P (mg/L)	ICP Extr.	Pb (mg/L)
V8	05/22/92		26.9		0.138		0.01		3.2		0.02		0.2		0.15
V8	05/23/92		26.4		0.183		0.01		3.1		0.02		0.3		0.18
V8	05/24/92		26.7		0.565		0.01		3.1		0.04		0.9		0.65
V8	05/25/92		27.3		1.060		0.01		2.8		0.07		1.6		1.07
V8	05/26/92		18.5		0.572		0.01		2.0		0.04		0.6		0.54
V8	05/27/92		17.2		0.472		0.01		2.0		0.05		0.5		0.43
V8	05/28/92		15.4		0.402		0.01		1.9		0.03		0.4		0.41
V8	05/29/92		15.5		0.518		0.01		2.1		0.18		0.5		0.35
V8	05/30/92		18.6		0.663		0.01		2.3		0.06		0.7		0.35
V8	05/31/92		17.3		0.644		0.01		2.3		0.05		0.7		0.33
V8	06/01/92		13.0		0.365		0.01		1.9		0.03		0.4		0.28
V8	06/02/92		16.6		0.630		0.01		2.1		0.05		0.6		0.51
V8	06/03/92		15.2		0.524		0.01		2.1		0.04		0.7		0.38
V8	06/04/92		12.0		0.353		0.01		1.8		0.03		0.4		0.24
V8	06/05/92		11.2		0.243		0.01		1.8		0.02		0.3		0.2
Blank #1 (V8)	05/21/92		<		0.001		0.01		0.1		0.02		0.1		<
Blank #2 (V8)	06/10/92		<		0.005		0.01		0.1		0.02		0.1		<

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	GF Extr. Pb (mg/L)	ICP Extr. Sb (mg/L)	ICP Extr. Se (mg/L)	ICP Extr. Si (mg/L)	ICP Extr. Sn (mg/L)	ICP Extr. Sr (mg/L)	ICP Extr. Ti (mg/L)
V1	05/22/92	0.0035	<	<	5.94	<	0.079	<
V1	05/23/92	0.0045	<	<	6.26	<	0.078	0.003
V1	05/24/92	0.0023	<	<	6.35	<	0.074	0.003
V1	05/25/92	0.0031	<	<	6.38	<	0.069	0.003
V1	05/26/92	0.0037	<	<	5.70	<	0.060	0.004
V1	05/27/92	0.0024	<	<	5.43	<	0.049	0.004
V1	05/28/92	0.0037	<	<	5.38	<	0.040	0.010
V1	05/29/92	0.0012	<	<	4.79	<	0.033	0.004
V1	05/30/92	0.0016	<	<	4.67	<	0.032	0.006
V1	05/31/92	0.0019	<	<	4.24	<	0.030	0.006
V1	06/01/92	0.0027	<	<	4.21	<	0.028	0.007
V1	06/02/92	0.0011	<	<	3.94	<	0.025	0.002
V1	06/03/92	0.0020	<	<	3.97	<	0.025	0.006
V1	06/04/92	0.0040	<	<	3.78	<	0.022	0.007
V1	06/05/92	0.0034	<	<	3.79	<	0.023	0.003
V1	06/06/92	0.0205	<	<	3.81	<	0.023	0.003
V1	06/07/92	0.0032	<	<	3.59	<	0.021	0.004
V1	06/08/92	0.0031	<	<	4.01	<	0.025	0.003
V1	06/09/92	0.0025	<	<	4.21	<	0.027	0.003
V1	06/10/92	0.0018	<	<	3.85	<	0.023	0.004
Blank #1(V1)	05/21/92	0.0012	<	<	0.75	<	<	0.002
Blank #2 (V1)	06/11/92	0.0006	<	<	0.60	<	<	0.002

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	GF Extr.	Pb (mg/L)	Sb (mg/L)	ICP Extr.	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)
EP1	05/22/92	<	0.2450	<	<	0.05	9.40	<	0.123	0.054
EP1	05/23/92	<	(see ICP)	<	<	0.05	6.91	<	0.131	0.017
EP1	05/24/92	<	(see ICP)	<	<	0.05	16.90	<	0.192	0.166
EP1	05/25/92	<	(see ICP)	<	<	0.05	16.70	<	0.177	0.162
EP1	05/26/92	<	(see ICP)	<	<	0.05	21.40	<	0.309	0.300
EP1	05/27/92	<	(see ICP)	<	<	0.05	18.30	<	0.246	0.224
EP1	05/28/92	<	(see ICP)	<	<	0.05	18.10	<	0.222	0.232
EP1	05/29/92	<	(see ICP)	<	<	0.05	17.70	<	0.165	0.200
EP1	05/30/92	<	(see ICP)	<	<	0.05	19.10	<	0.177	0.296
EP1	05/31/92	<	(see ICP)	<	<	0.05	18.00	<	0.116	0.216
EP1	06/01/92	<	(see ICP)	<	<	0.05	10.70	<	0.074	0.095
EP1	06/02/92	<	(see ICP)	<	<	0.05	17.90	<	0.107	0.195
EP1	06/03/92	<	(see ICP)	<	<	0.05	17.30	<	0.101	0.168
EP1	06/04/92	<	0.2260	<	<	0.05	9.69	<	0.063	0.081
EP1	06/05/92	<	0.0679	<	<	0.05	6.26	<	0.043	0.041
EP1	06/06/92	<	0.0931	<	<	0.05	5.34	<	0.040	0.026
EP1	06/07/92	<	0.1120	<	<	0.05	5.06	<	0.036	0.029
EP1	06/08/92	<	0.0430	<	<	0.05	4.57	<	0.037	0.013
EP1	06/09/92	<	0.0250	<	<	0.05	4.37	<	0.034	0.005
EP1	06/10/92	<	0.0506	<	<	0.05	4.22	<	0.031	0.011
Blank #1 (EP1)	05/11/92	<	0.0091	<	<	0.05	0.58	<	0.001	0.004
Blank #2 (EP1)	06/10/92	<	0.0009	<	<	0.05	0.44	<	0.001	0.003

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	GF Extr.	Pb (mg/L)	Sb (mg/L)	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)
V8	05/22/92	<	0.2310	<	0.05	9.62	<	0.272	0.067
V8	05/23/92	<	0.2100	<	0.05	10.80	<	0.272	0.080
V8	05/24/92	<	(see ICP)	<	0.05	14.90	<	0.274	0.182
V8	05/25/92	<	(see ICP)	<	0.05	15.40	<	0.285	0.243
V8	05/26/92	<	(see ICP)	<	0.05	14.70	<	0.188	0.140
V8	05/27/92	<	(see ICP)	<	0.05	14.80	<	0.168	0.146
V8	05/28/92	<	(see ICP)	<	0.05	14.40	<	0.155	0.122
V8	05/29/92	<	(see ICP)	<	0.05	14.90	<	0.151	0.141
V8	05/30/92	<	(see ICP)	<	0.05	16.30	<	0.164	0.245
V8	05/31/92	<	(see ICP)	<	0.05	15.80	<	0.158	0.230
V8	06/01/92	<	(see ICP)	<	0.05	14.40	<	0.137	0.129
V8	06/02/92	<	(see ICP)	<	0.05	15.70	<	0.152	0.224
V8	06/03/92	<	(see ICP)	<	0.05	15.50	<	0.148	0.200
V8	06/04/92	<	(see ICP)	<	0.05	14.50	<	0.126	0.125
V8	06/05/92	<	(see ICP)	<	0.05	11.30	<	0.125	0.089
Blank #1 (V8)	05/21/92	<	0.0005	<	0.05	0.15	<	<	0.004
Blank #2 (V8)	06/10/92	<	0.0010	<	0.05	0.15	<	<	0.005

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	ICP Extr.	ICP Extr.	ICP Total	GF Total	ICP Total	ICP Total	As (mg/L)	ICP Total	ICP Total
		V (mg/L)	Zn (mg/L)	Ag (mg/L)	Ag (mg/L)	Al (mg/L)	Al (mg/L)		B (mg/L)	
V1	05/22/92	<	0.008	<	0.0006	<	0.06	<	0.06	<
V1	05/23/92	<	0.009	<	0.0006	<	0.06	<	0.06	<
V1	05/24/92	<	0.007	<	0.0006	<	0.06	<	0.06	<
V1	05/25/92	<	0.010	<	0.0006	<	0.06	<	0.06	<
V1	05/26/92	<	0.010	<	0.0006	<	0.10	<	0.06	<
V1	05/27/92	<	0.007	<	0.0006	<	0.15	<	0.06	<
V1	05/28/92	<	0.011	<	0.0006	<	0.39	<	0.06	<
V1	05/29/92	<	0.007	<	0.0006	<	0.08	<	0.06	<
V1	05/30/92	<	0.010	<	0.0006	<	0.19	<	0.06	<
V1	05/31/92	<	0.007	<	0.0006	<	0.18	<	0.06	<
V1	06/01/92	<	0.010	<	0.0006	<	0.30	<	0.06	<
V1	06/02/92	<	0.008	<	0.0006	<	0.10	<	0.06	<
V1	06/03/92	<	0.009	<	0.0006	<	0.20	<	0.06	<
V1	06/04/92	<	0.008	<	0.0006	<	0.31	<	0.06	<
V1	06/05/92	<	0.010	<	0.0006	<	0.12	<	0.06	<
V1	06/06/92	<	0.033	<	0.0006	<	0.09	<	0.06	<
V1	06/07/92	<	0.011	<	0.0006	<	0.10	<	0.06	<
V1	06/08/92	<	0.013	<	0.0006	<	0.01	<	0.06	<
V1	06/09/92	<	0.009	<	0.0006	<	0.06	<	0.06	<
V1	06/10/92	<	0.006	<	0.0006	<	0.09	<	0.06	<
Blank #1(V1)	05/21/92	<	0.005	<	0.0006	<	0.06	<	0.06	<
Blank #2 (V1)	06/11/92	<	0.008	<	0.0006	<	0.06	<	0.06	<

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	ICP Extr.		ICP Total		GF Total		ICP Total		ICP Total	
		V (mg/L)	Zn (mg/L)	Ag (mg/L)	Ag (mg/L)	Al (mg/L)	As (mg/L)	B (mg/L)			
EP1	05/22/92	0.01	0.351	0.02	<	0.0006	6.77	0.1	0.01	0.01	
EP1	05/23/92	<	0.253	0.04	<	0.0006	1.10	0.06	0.02	0.02	
EP1	05/24/92	<	0.802	<	<	0.0012	32.10	0.23	0.02	0.02	
EP1	05/25/92	<	0.604	0.01	<	0.0009	27.90	0.24	<	0.01	
EP1	05/26/92	0.04	1.150	0.01	<	0.002	96.40	0.61	0.03	0.03	
EP1	05/27/92	0.02	0.669	0.01	<	0.0014	74.40	0.44	0.02	0.02	
EP1	05/28/92	0.03	0.797	0.01	<	0.0052	66.70	0.56	0.02	0.02	
EP1	05/29/92	<	0.858	0.01	<	0.0016	52.90	0.37	0.03	0.03	
EP1	05/30/92	0.04	0.601	0.01	<	0.0015	88.10	0.57	0.03	0.03	
EP1	05/31/92	0.03	0.338	0.01	<	0.0009	50.00	0.31	<	0.01	
EP1	06/01/92	0.01	0.251	0.01	<	0.0008	19.60	0.08	<	0.01	
EP1	06/02/92	0.02	0.716	0.01	<	0.0008	59.40	0.36	0.01	0.01	
EP1	06/03/92	0.02	0.335	0.01	<	0.0007	42.60	0.26	<	0.01	
EP1	06/04/92	<	0.144	0.01	<	0.0006	18.00	0.08	<	0.01	
EP1	06/05/92	<	0.065	0.01	<	0.0006	7.17	0.06	<	0.01	
EP1	06/06/92	<	0.055	0.01	<	0.0006	4.71	0.06	<	0.01	
EP1	06/07/92	<	0.051	0.01	<	0.0006	3.97	0.06	<	0.01	
EP1	06/08/92	<	0.049	0.01	<	0.0006	0.98	0.06	<	0.01	
EP1	06/09/92	<	0.048	0.01	<	0.0006	0.70	0.06	<	0.01	
EP1	06/10/92	<	0.044	0.01	<	0.0006	0.92	0.06	<	0.01	
Blank #1 (EP1)	05/11/92	<	0.005	0.01	<	0.0006	0.06	0.06	<	0.01	
Blank #2 (EP1)	06/10/92	<	0.005	0.01	<	0.0006	0.06	0.06	<	0.01	

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	V (mg/L)	ICP Extr.	Zn (mg/L)	ICP Extr.	Ag (mg/L)	ICP Total	GF Total	ICP Total	Al (mg/L)	ICP Total	As (mg/L)	ICP Total	B (mg/L)	ICP Total
V8	05/22/92	<	0.01	0.111	<	0.01	<	0.0006	<	7.92	<	0.06	<	0.01	<
V8	05/23/92	<	0.01	0.139	<	0.01	<	0.0006	<	10.50	<	0.07	<	0.01	<
V8	05/24/92	<	0.01	0.371	<	0.01	<	0.0007	<	21.30	<	0.1	<	0.01	<
V8	05/25/92	<	0.02	0.583	<	0.01	<	0.0013	<	33.00	<	0.18	<	0.01	<
V8	05/26/92	<	0.01	0.316	<	0.01	<	0.0006	<	21.40	<	0.12	<	0.01	<
V8	05/27/92	<	0.01	0.278	<	0.01	<	0.0006	<	24.00	<	0.14	<	0.01	<
V8	05/28/92	<	0.01	0.246	<	0.01	<	0.0006	<	19.50	<	0.12	<	0.01	<
V8	05/29/92	<	0.02	0.268	<	0.01	<	0.0006	<	24.80	<	0.12	<	0.01	<
V8	05/30/92	<	0.02	0.294	<	0.01	<	0.0006	<	43.00	<	0.23	<	0.01	<
V8	05/31/92	<	0.02	0.240	<	0.01	<	0.0006	<	39.20	<	0.19	<	0.01	<
V8	06/01/92	<	0.01	0.205	<	0.01	<	0.0006	<	19.90	<	0.1	<	0.01	<
V8	06/02/92	<	0.02	0.385	<	0.01	<	0.0006	<	37.30	<	0.18	<	0.01	<
V8	06/03/92	<	0.01	0.261	<	0.01	<	0.0006	<	31.30	<	0.16	<	0.01	<
V8	06/04/92	<	0.01	0.166	<	0.01	<	0.001	<	18.70	<	0.1	<	0.01	<
V8	06/05/92	<	0.01	0.113	<	0.01	<	0.0006	<	12.20	<	0.09	<	0.01	<
Blank #1 (V8)	05/21/92	<	0.01	0.005	<	0.01	<	0.0006	<	0.06	<	0.06	<	0.01	<
Blank #2 (V8)	06/10/92	<	0.01	0.005	<	0.01	<	0.0006	<	0.06	<	0.06	<	0.01	<

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	Ba (mg/L)	Be (mg/L)	Ca (mg/L)	Cd (mg/L)	Cd (mg/L)	GF Total	Co (mg/L)	Cr (mg/L)	ICP Total
V1	05/22/92	0.042	< 0.001	18.4	< 0.006	0.0010	<	0.006	<	0.006
V1	05/23/92	0.044	< 0.001	18.1	< 0.006	0.0010	<	0.006	0.028	0.006
V1	05/24/92	0.042	< 0.001	18.1	< 0.006	0.0013	<	0.006	0.006	0.006
V1	05/25/92	0.039	< 0.001	16.3	< 0.006	0.0010	<	0.006	<	0.006
V1	05/26/92	0.039	< 0.001	14.9	< 0.006	0.0004	<	0.006	<	0.006
V1	05/27/92	0.033	< 0.001	12.2	< 0.006	0.0001	<	0.012	0.158	0.006
V1	05/28/92	0.032	< 0.001	9.5	< 0.006	0.0003	<	0.006	<	0.006
V1	05/29/92	0.023	< 0.001	7.3	< 0.006	0.0005	<	0.006	0.008	0.006
V1	05/30/92	0.023	< 0.001	7.2	< 0.006	0.0004	<	0.006	<	0.006
V1	05/31/92	0.021	< 0.001	6.4	< 0.006	0.0003	<	0.006	<	0.006
V1	06/01/92	0.022	< 0.001	6.0	< 0.006	0.0002	<	0.006	<	0.006
V1	06/02/92	0.018	< 0.001	5.4	< 0.006	0.0003	<	0.006	<	0.006
V1	06/03/92	0.019	< 0.001	5.3	< 0.006	0.0005	<	0.006	<	0.006
V1	06/04/92	0.020	< 0.001	4.7	< 0.006	0.0004	<	0.006	<	0.006
V1	06/05/92	0.018	< 0.001	5.5	< 0.006	0.0003	<	0.006	<	0.006
V1	06/06/92	0.022	< 0.001	4.8	< 0.006	0.0003	<	0.006	<	0.006
V1	06/07/92	0.017	< 0.001	4.7	< 0.006	0.0002	<	0.006	<	0.006
V1	06/08/92	0.018	< 0.001	5.4	< 0.006	0.0002	<	0.006	<	0.006
V1	06/09/92	0.018	< 0.001	5.7	< 0.006	0.0003	<	0.006	<	0.006
V1	06/10/92	0.017	< 0.001	5.2	< 0.006	0.0003	<	0.006	<	0.006
Blank #1(V1)	05/21/92	< 0.001	< 0.001	< 0.1	< 0.006	< 0.0001	<	< 0.006	<	< 0.006
Blank #2 (V1)	06/11/92	< 0.001	< 0.001	< 0.1	< 0.006	< 0.0001	<	< 0.006	<	< 0.006

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	Ba (mg/L)	Be (mg/L)	Ca (mg/L)	Cd (mg/L)	Cd (mg/L)	Co (mg/L)	Cr (mg/L)
		ICP Total	ICP Total	ICP Total	ICP Total	GF Total	ICP Total	ICP Total
EP1	05/22/92	0.267	< 0.001	29.8	< 0.006	0.0007	< 0.006	0.041
EP1	05/23/92	0.221	< 0.001	32.7	0.007	0.0025	0.008	0.006
EP1	05/24/92	1.180	< 0.001	47.9	0.010	0.0022	< 0.006	0.115
EP1	05/25/92	0.842	0.001	42.9	0.010	0.0016	< 0.006	0.110
EP1	05/26/92	2.130	0.003	79.5	0.035	(see ICP)	< 0.006	0.402
EP1	05/27/92	1.650	0.002	67.0	0.026	(see ICP)	< 0.006	0.362
EP1	05/28/92	2.280	0.002	59.4	0.030	(see ICP)	< 0.006	0.276
EP1	05/29/92	1.360	0.002	47.9	0.015	0.0025	< 0.006	0.184
EP1	05/30/92	1.950	0.003	42.1	0.020	0.0025	< 0.006	0.224
EP1	05/31/92	1.220	0.001	27.4	0.006	0.0012	< 0.006	0.121
EP1	06/01/92	0.534	< 0.001	18.4	< 0.006	0.0007	< 0.006	0.062
EP1	06/02/92	1.180	0.001	25.8	< 0.006	0.0022	< 0.006	0.129
EP1	06/03/92	0.944	< 0.001	24.3	< 0.006	0.0016	< 0.006	0.110
EP1	06/04/92	0.448	< 0.001	15.7	< 0.006	0.0007	< 0.006	0.059
EP1	06/05/92	0.185	< 0.001	10.0	< 0.006	0.0003	< 0.006	0.027
EP1	06/06/92	0.139	< 0.001	9.4	< 0.006	0.0002	< 0.006	0.020
EP1	06/07/92	0.110	< 0.001	8.4	< 0.006	0.0006	< 0.006	0.030
EP1	06/08/92	0.057	< 0.001	9.5	0.007	0.0026	< 0.006	0.006
EP1	06/09/92	0.044	< 0.001	8.6	0.008	0.0002	0.008	0.014
EP1	06/10/92	0.045	< 0.001	7.9	0.006	0.0001	< 0.006	0.007
Blank #1 (EP1)	05/11/92	0.003	< 0.001	0.2	0.006	0.0001	< 0.006	0.006
Blank #2 (EP1)	06/10/92	< 0.001	< 0.001	0.1	< 0.006	< 0.0001	< 0.006	< 0.006

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	ICP Total Ba (mg/L)	ICP Total Be (mg/L)	ICP Total Ca (mg/L)	ICP Total Cd (mg/L)	GF Total Cd (mg/L)	ICP Total Co (mg/L)	ICP Total Cr (mg/L)
V8	05/22/92	0.307	< 0.001	68.6	< 0.006	0.0004	< 0.006	0.020
V8	05/23/92	0.363	< 0.001	68.5	< 0.006	0.0009	< 0.006	0.022
V8	05/24/92	0.855	< 0.001	67.7	< 0.006	0.0014	< 0.006	0.044
V8	05/25/92	1.290	< 0.001	71.7	< 0.006	0.0025	< 0.006	0.066
V8	05/26/92	0.755	< 0.001	46.8	< 0.006	0.0012	< 0.006	0.054
V8	05/27/92	0.711	< 0.001	42.2	< 0.006	0.0010	< 0.006	0.069
V8	05/28/92	0.625	< 0.001	39.1	< 0.006	0.0010	< 0.006	0.055
V8	05/29/92	0.635	< 0.001	39.6	< 0.006	0.0010	< 0.006	0.228
V8	05/30/92	0.909	< 0.001	39.1	< 0.006	0.0012	< 0.006	0.098
V8	05/31/92	0.827	< 0.001	38.1	< 0.006	0.0008	< 0.006	0.094
V8	06/01/92	0.511	< 0.001	33.6	< 0.006	0.0007	< 0.006	0.048
V8	06/02/92	0.819	< 0.001	35.9	< 0.006	0.0010	< 0.006	0.085
V8	06/03/92	0.730	< 0.001	36.8	< 0.006	0.0007	< 0.006	0.068
V8	06/04/92	0.439	< 0.001	30.5	< 0.006	0.0005	< 0.006	0.046
V8	06/05/92	0.340	< 0.001	30.9	< 0.006	0.0006	< 0.006	0.032
Blank #1 (V8)	05/21/92	< 0.001	< 0.001	0.2	< 0.006	< 0.0001	< 0.006	0.008
Blank #2 (V8)	06/10/92	0.003	< 0.001	0.9	< 0.006	0.0005	< 0.006	< 0.006

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	ICP Total	GF Total	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total
		Cu (mg/L)	Cu (mg/L)	Fe (mg/L)	K (mg/L)	Mg (mg/L)	Mn (mg/L)	Mo (mg/L)		
V1	05/22/92	0.012	0.0147	0.061	<	2.6	0.004	<	<	0.01
V1	05/23/92	0.017	0.0166	0.128	<	2.6	0.004	<	<	0.01
V1	05/24/92	0.046	(see ICP)	0.126	<	2.5	0.015	<	<	0.01
V1	05/25/92	0.023	0.0255	0.100	<	2.2	0.003	<	<	0.01
V1	05/26/92	0.012	0.0097	0.219	<	1.9	0.005	<	<	0.01
V1	05/27/92	0.277	(see ICP)	0.620	<	1.7	0.267	<	<	0.01
V1	05/28/92	0.006	0.0073	0.527	<	1.4	0.017	<	<	0.01
V1	05/29/92	0.012	0.0110	1.610	<	1.0	0.012	<	<	0.01
V1	05/30/92	0.008	0.0092	0.346	<	1.0	0.013	<	<	0.01
V1	05/31/92	0.007	0.0058	0.294	<	0.9	0.012	<	<	0.01
V1	06/01/92	<	0.0043	0.414	<	0.9	0.017	<	<	0.01
V1	06/02/92	<	0.0050	0.181	<	0.7	0.010	<	<	0.01
V1	06/03/92	<	0.0048	0.307	<	0.7	0.012	<	<	0.01
V1	06/04/92	<	0.0042	0.418	<	0.7	0.019	<	<	0.01
V1	06/05/92	<	0.0031	0.229	<	0.7	0.009	<	<	0.01
V1	06/06/92	<	0.0026	0.214	<	0.6	0.008	<	<	0.01
V1	06/07/92	<	0.0025	0.238	<	0.6	0.012	<	<	0.01
V1	06/08/92	<	0.0183	0.229	<	0.7	0.018	<	<	0.01
V1	06/09/92	<	0.0034	0.144	<	0.7	0.006	<	<	0.01
V1	06/10/92	<	0.0040	0.168	<	0.6	0.007	<	<	0.01
Blank #1(V1)	05/21/92	<	0.0010	0.012	<	0.1	0.001	<	<	0.01
Blank #2(V1)	06/11/92	<	0.0009	0.010	<	0.1	0.001	<	<	0.01

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	ICP Total Cu (mg/L)	GF Total Cu (mg/L)	ICP Total Fe (mg/L)	ICP Total K (mg/L)	ICP Total Mg (mg/L)	ICP Total Mn (mg/L)	ICP Total Mo (mg/L)
EP1	05/22/92	0.032	(see ICP)	7.950	4	7.7	0.224	<
EP1	05/23/92	0.032	(see ICP)	1.600	2	5.4	0.223	<
EP1	05/24/92	0.151	(see ICP)	45.300	9	21.4	0.828	<
EP1	05/25/92	0.125	(see ICP)	37.100	9	18.4	0.777	<
EP1	05/26/92	0.308	(see ICP)	139.000	16	58.8	2.410	0.02
EP1	05/27/92	0.226	(see ICP)	106.000	14	48.3	1.960	0.01
EP1	05/28/92	0.317	(see ICP)	102.000	12	40.0	2.120	0.02
EP1	05/29/92	0.169	(see ICP)	78.200	10	29.4	1.400	<
EP1	05/30/92	0.188	(see ICP)	120.000	13	38.4	2.350	0.02
EP1	05/31/92	0.100	(see ICP)	65.800	8	21.8	1.280	<
EP1	06/01/92	0.045	(see ICP)	25.800	3	10.0	0.448	<
EP1	06/02/92	0.602	(see ICP)	70.400	8	23.5	1.390	<
EP1	06/03/92	0.211	(see ICP)	54.400	7	19.2	1.080	<
EP1	06/04/92	0.062	(see ICP)	22.400	4	9.4	0.466	<
EP1	06/05/92	0.022	0.0150	8.340	2	4.3	0.162	<
EP1	06/06/92	0.017	0.0110	5.570	2	3.4	0.117	<
EP1	06/07/92	0.023	0.0070	4.660	4	2.9	0.094	<
EP1	06/08/92	<	0.0042	1.270	2	1.5	0.044	<
EP1	06/09/92	0.013	0.0030	0.940	2	1.4	0.029	<
EP1	06/10/92	0.007	0.0028	1.100	2	1.3	0.031	<
Blank #1 (EP1)	05/11/92	<	0.0009	0.051	2	<	0.002	<
Blank #2 (EP1)	06/10/92	<	0.0007	0.010	2	<	0.001	<

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	ICP Total Cu (mg/L)	GF Total Cu (mg/L)	ICP Total Fe (mg/L)	ICP Total K (mg/L)	ICP Total Mg (mg/L)	ICP Total Mn (mg/L)	ICP Total Mo (mg/L)
V8	05/22/92	0.024	(see ICP)	8.730	3	27.9	0.151	< 0.01
V8	05/23/92	0.032	(see ICP)	11.600	3	27.6	0.200	< 0.01
V8	05/24/92	0.080	(see ICP)	29.900	5	30.3	0.601	< 0.01
V8	05/25/92	0.132	(see ICP)	50.100	6	33.9	1.120	< 0.01
V8	05/26/92	0.074	(see ICP)	28.100	5	22.4	0.613	< 0.01
V8	05/27/92	0.081	(see ICP)	29.600	6	21.8	0.530	< 0.01
V8	05/28/92	0.060	(see ICP)	24.300	5	19.1	0.447	< 0.01
V8	05/29/92	0.219	(see ICP)	30.900	5	20.6	0.880	< 0.01
V8	05/30/92	0.100	(see ICP)	51.100	9	25.5	0.793	< 0.01
V8	05/31/92	0.090	(see ICP)	47.500	8	24.2	0.765	< 0.01
V8	06/01/92	0.050	(see ICP)	24.200	5	16.7	0.417	< 0.01
V8	06/02/92	0.186	(see ICP)	44.000	7	22.3	0.717	< 0.01
V8	06/03/92	0.126	(see ICP)	38.800	6	20.7	0.617	< 0.01
V8	06/04/92	0.065	(see ICP)	23.000	4	15.3	0.401	< 0.01
V8	06/05/92	0.037	(see ICP)	14.800	3	13.0	0.267	< 0.01
Blank #1 (V8)	05/21/92	0.015	0.0142	0.041	<	0.1	0.009	< 0.01
Blank #2 (V8)	06/10/92	< 0.006	0.0033	0.086	2	0.1	0.005	< 0.01

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	Na (mg/L)	ICP Total	Ni (mg/L)	ICP Total	P (mg/L)	ICP Total	Pb (mg/L)	GF Total	Pb (mg/L)	ICP Total	Sb (mg/L)	ICP Total	Se (mg/L)
V1	05/22/92	2.0	<	0.02	<	0.1	<	0.06	0.0029	<	<	0.06	<	0.06
V1	05/23/92	2.0	<	0.02	<	0.1	<	0.06	0.0040	<	<	0.06	<	0.06
V1	05/24/92	2.0	<	0.04	<	0.1	<	0.06	0.0023	<	<	0.06	<	0.06
V1	05/25/92	1.8	<	0.02	<	0.1	<	0.06	0.0029	<	<	0.06	<	0.06
V1	05/26/92	1.5	<	0.02	<	0.1	<	0.06	0.0038	<	<	0.06	<	0.06
V1	05/27/92	1.9	<	0.57	<	0.1	<	0.06	0.0024	<	<	0.06	<	0.06
V1	05/28/92	1.2	<	0.02	<	0.1	<	0.06	0.0026	<	<	0.06	<	0.06
V1	05/29/92	1.0	<	0.02	<	0.1	<	0.06	0.0257	<	<	0.06	<	0.06
V1	05/30/92	1.0	<	0.02	<	0.1	<	0.06	0.0015	<	<	0.06	<	0.06
V1	05/31/92	1.0	<	0.02	<	0.1	<	0.06	0.0014	<	<	0.06	<	0.06
V1	06/01/92	0.9	<	0.02	<	0.1	<	0.06	0.0018	<	<	0.06	<	0.06
V1	06/02/92	0.8	<	0.02	<	0.1	<	0.06	0.0013	<	<	0.06	<	0.06
V1	06/03/92	0.8	<	0.02	<	0.1	<	0.06	0.0017	<	<	0.06	<	0.06
V1	06/04/92	0.8	<	0.02	<	0.1	<	0.06	0.0034	<	<	0.06	<	0.06
V1	06/05/92	0.8	<	0.02	<	0.1	<	0.06	0.0028	<	<	0.06	<	0.06
V1	06/06/92	0.8	<	0.02	<	0.1	<	0.06	0.0198	<	<	0.06	<	0.06
V1	06/07/92	0.8	<	0.02	<	0.1	<	0.06	0.0026	<	<	0.06	<	0.06
V1	06/08/92	0.9	<	0.03	<	0.1	<	0.06	0.0031	<	<	0.06	<	0.06
V1	06/09/92	0.9	<	0.02	<	0.1	<	0.06	0.0029	<	<	0.06	<	0.06
V1	06/10/92	0.9	<	0.02	<	0.1	<	0.06	0.0014	<	<	0.06	<	0.06
Blank #1(V1)	05/21/92	<	<	0.02	<	0.1	<	0.06	0.0010	<	<	0.06	<	0.06
Blank #2 (V1)	06/11/92	<	<	0.02	<	0.1	<	0.06	<	<	<	0.06	<	0.06

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	ICP Total		ICP Total		ICP Total		GF Total		ICP Total		ICP Total	
		Na (mg/L)	Ni (mg/L)	P (mg/L)	Pb (mg/L)	Pb (mg/L)	Pb (mg/L)	Sb (mg/L)	Se (mg/L)	Pb (mg/L)	Sb (mg/L)	Se (mg/L)	
EP1	05/22/92	2.7	0.03	0.2	0.28	(see ICP)	<	0.06	<	0.06	<	0.06	<
EP1	05/23/92	2.4	<	0.2	0.3	(see ICP)	<	0.06	<	0.06	<	0.06	<
EP1	05/24/92	3.8	0.10	0.9	1.42	(see ICP)	<	0.06	<	0.06	<	0.06	<
EP1	05/25/92	3.4	0.10	1	0.98	(see ICP)	<	0.06	<	0.06	<	0.06	<
EP1	05/26/92	3.5	0.34	3.1	2.08	(see ICP)	<	0.06	<	0.06	<	0.06	<
EP1	05/27/92	3.0	0.28	2.7	1.28	(see ICP)	<	0.06	<	0.06	<	0.06	<
EP1	05/28/92	2.6	0.24	2.9	4.41	(see ICP)	<	0.06	<	0.06	<	0.06	<
EP1	05/29/92	2.5	0.18	1.9	1.36	(see ICP)	<	0.06	<	0.06	<	0.06	<
EP1	05/30/92	3.0	0.23	3.7	1.1	(see ICP)	<	0.06	<	0.06	<	0.06	<
EP1	05/31/92	2.8	0.12	2	0.57	(see ICP)	<	0.06	<	0.06	<	0.06	<
EP1	06/01/92	2.1	0.06	0.6	0.55	(see ICP)	<	0.06	<	0.06	<	0.06	<
EP1	06/02/92	2.4	0.13	1.6	1	(see ICP)	<	0.06	<	0.06	<	0.06	<
EP1	06/03/92	2.5	0.11	1.3	0.46	(see ICP)	<	0.06	<	0.06	<	0.06	<
EP1	06/04/92	1.8	0.05	0.5	0.23	(see ICP)	<	0.06	<	0.06	<	0.06	<
EP1	06/05/92	1.4	<	0.2	0.1	0.0880	<	0.06	<	0.06	<	0.06	<
EP1	06/06/92	1.2	0.02	0.2	0.08	0.0942	<	0.06	<	0.06	<	0.06	<
EP1	06/07/92	1.0	0.02	0.2	0.2	0.1100	<	0.06	<	0.06	<	0.06	<
EP1	06/08/92	1.0	0.02	<	<	0.0440	<	0.06	<	0.06	<	0.06	<
EP1	06/09/92	1.0	0.02	<	0.09	0.0310	<	0.06	<	0.06	<	0.06	<
EP1	06/10/92	1.0	0.02	<	0.07	0.0540	<	0.06	<	0.06	<	0.06	<
Blank #1 (EP1)	05/11/92	<	0.02	<	0.06	0.0099	<	0.06	<	0.06	<	0.06	<
Blank #2 (EP1)	06/10/92	<	0.02	<	0.06	0.0013	<	0.06	<	0.06	<	0.06	<

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	Na (mg/L)	ICP Total	Ni (mg/L)	ICP Total	P (mg/L)	ICP Total	Pb (mg/L)	ICP Total	Gf Total	Pb (mg/L)	ICP Total	Sb (mg/L)	ICP Total	Se (mg/L)
V8	05/22/92	3.7	<	0.02	0.3	0.17	0.1600	<	0.06	<	0.06	<	0.06	<	0.06
V8	05/23/92	3.6	<	0.02	0.3	0.21	0.2200	<	0.06	<	0.06	<	0.06	<	0.06
V8	05/24/92	3.8	0.05	0.7	1	1.17	(see ICP)	<	0.06	<	0.06	<	0.06	<	0.06
V8	05/25/92	3.5	0.08	1.7	1.7	0.61	(see ICP)	<	0.06	<	0.06	<	0.06	<	0.06
V8	05/26/92	2.7	0.06	0.7	0.6	0.51	(see ICP)	<	0.06	<	0.06	<	0.06	<	0.06
V8	05/27/92	2.8	0.07	0.6	0.5	0.49	(see ICP)	<	0.06	<	0.06	<	0.06	<	0.06
V8	05/28/92	2.6	0.05	0.5	0.5	0.4	(see ICP)	<	0.06	<	0.06	<	0.06	<	0.06
V8	05/29/92	3.5	0.62	0.9	0.9	0.44	(see ICP)	<	0.06	<	0.06	<	0.06	<	0.06
V8	05/30/92	3.4	0.10	1	1	0.42	(see ICP)	<	0.06	<	0.06	<	0.06	<	0.06
V8	05/31/92	3.4	0.10	1	1	0.35	(see ICP)	<	0.06	<	0.06	<	0.06	<	0.06
V8	06/01/92	2.8	0.05	0.5	0.5	0.62	(see ICP)	<	0.06	<	0.06	<	0.06	<	0.06
V8	06/02/92	2.9	0.07	0.9	0.9	0.47	(see ICP)	<	0.06	<	0.06	<	0.06	<	0.06
V8	06/03/92	3.0	0.06	0.9	0.9	0.29	(see ICP)	<	0.06	<	0.06	<	0.06	<	0.06
V8	06/04/92	2.5	0.04	0.5	0.5	0.22	(see ICP)	<	0.06	<	0.06	<	0.06	<	0.06
V8	06/05/92	2.3	0.03	0.4	0.4	0.06	0.2300	<	0.06	<	0.06	<	0.06	<	0.06
Blank #1 (V8)	05/21/92	<	<	0.02	<	0.06	0.0008	<	0.06	<	0.06	<	0.06	<	0.06
Blank #2 (V8)	06/10/92	<	<	0.02	<	0.06	0.0015	<	0.06	<	0.06	<	0.06	<	0.06

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)
V1	05/22/92	5.97	<	0.079	<	0.01	0.007
V1	05/23/92	6.31	<	0.076	<	0.01	0.008
V1	05/24/92	6.53	<	0.076	<	0.01	0.013
V1	05/25/92	6.49	<	0.067	<	0.01	0.009
V1	05/26/92	5.96	<	0.059	<	0.01	0.017
V1	05/27/92	5.75	<	0.048	<	0.01	0.062
V1	05/28/92	5.85	<	0.038	<	0.01	0.010
V1	05/29/92	4.93	<	0.031	<	0.01	0.010
V1	05/30/92	4.93	<	0.029	<	0.01	0.014
V1	05/31/92	4.76	<	0.027	<	0.01	0.008
V1	06/01/92	4.88	<	0.026	<	0.01	0.007
V1	06/02/92	4.39	<	0.023	<	0.01	0.008
V1	06/03/92	4.68	<	0.023	<	0.01	0.008
V1	06/04/92	4.61	<	0.020	<	0.01	0.033
V1	06/05/92	4.46	<	0.022	<	0.01	0.014
V1	06/06/92	4.47	<	0.021	<	0.01	0.031
V1	06/07/92	4.29	<	0.020	<	0.01	0.011
V1	06/08/92	4.71	<	0.024	<	0.01	0.013
V1	06/09/92	4.69	<	0.025	<	0.01	0.007
V1	06/10/92	4.49	<	0.022	<	0.01	0.010
Blank #1(V1)	05/21/92	0.82	<	0.001	<	0.01	0.005
Blank #2 (V1)	06/11/92	0.61	<	0.001	<	0.01	0.005

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)
EP1	05/22/92	17.00	<	0.130	0.154	0.03	0.380
EP1	05/23/92	7.41	<	0.136	0.020	<	0.266
EP1	05/24/92	24.40	<	0.217	0.644	0.07	1.080
EP1	05/25/92	24.10	<	0.197	0.580	0.07	0.711
EP1	05/26/92	32.90	<	0.357	1.850	0.18	1.620
EP1	05/27/92	33.10	<	0.290	1.550	0.16	0.979
EP1	05/28/92	32.90	<	0.267	1.460	0.13	1.140
EP1	05/29/92	32.20	<	0.196	1.140	0.09	1.140
EP1	05/30/92	32.60	<	0.217	1.980	0.14	0.913
EP1	05/31/92	31.40	<	0.147	1.180	0.07	0.514
EP1	06/01/92	22.60	<	0.091	0.447	0.03	0.365
EP1	06/02/92	31.40	<	0.138	1.210	0.08	0.979
EP1	06/03/92	28.00	<	0.127	0.902	0.06	0.461
EP1	06/04/92	22.10	<	0.077	0.392	0.04	0.198
EP1	06/05/92	14.40	<	0.049	0.170	0.02	0.083
EP1	06/06/92	10.90	<	0.042	0.110	0.01	0.065
EP1	06/07/92	9.74	<	0.038	0.100	0.03	0.056
EP1	06/08/92	5.32	<	0.036	0.023	0.01	0.041
EP1	06/09/92	5.22	<	0.034	0.023	0.02	0.046
EP1	06/10/92	5.28	<	0.030	0.029	0.01	0.042
Blank #1 (EP1)	05/11/92	0.45	<	0.001	0.004	0.01	0.005
Blank #2 (EP1)	06/10/92	0.41	<	0.001	0.002	0.01	0.004

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 4 DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1992

LOCATION	DATE	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)
		ICP Total	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total
V8	05/22/92	14.70	<	0.06	0.279	<	0.155
V8	05/23/92	15.50	<	0.06	0.276	0.01	0.200
V8	05/24/92	16.70	<	0.06	0.286	0.03	0.556
V8	05/25/92	21.60	<	0.06	0.303	0.04	0.857
V8	05/26/92	16.80	<	0.06	0.199	0.03	0.428
V8	05/27/92	20.00	<	0.06	0.182	0.04	0.388
V8	05/28/92	16.70	<	0.06	0.168	0.03	0.344
V8	05/29/92	21.10	<	0.06	0.173	0.03	0.395
V8	05/30/92	22.50	<	0.06	0.189	0.06	0.425
V8	05/31/92	22.30	<	0.06	0.183	0.06	0.354
V8	06/01/92	16.80	<	0.06	0.154	0.03	0.276
V8	06/02/92	22.20	<	0.06	0.168	0.06	0.479
V8	06/03/92	21.90	<	0.06	0.169	0.04	0.343
V8	06/04/92	16.80	<	0.06	0.137	0.02	0.218
V8	06/05/92	16.00	<	0.06	0.129	0.01	0.151
Blank #1 (V8)	05/21/92	0.15	<	0.06	0.001	0.01	0.007
Blank #2 (V8)	06/10/92	0.14	<	0.06	0.005	0.01	0.018

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 5

WATER QUALITY DATA FOR 6/7 MAY, 19 MAY AND 7 JUNE, 1993

STATION	DATE	MEAN		DISCHARGE	TEMP	PH	PH	IN-SITU	LAB	IN-SITU	LAB	DISOLVED
		DEPTH	STREAM									
		(m)	WIDTH	(m ³ /sec)	(°C)			(µmhos/cm)		(µmhos/cm)	(µmhos/cm)	(mg/L)
V1	05/06/93			N/A	1.4	8.1	7.62	60		108		13.3
V2	05/06/93			N/A	4.4	8.6	7.57	201		327		12.3
V8	05/07/93			N/A	0.61	8.8	8.25	163		292		13.2
EP1	05/06/93			N/A	4.3	8.4	7.81	88		176		13.0
EP2	05/06/93			N/A	N/A	N/A	7.15	N/A		237		N/A
EP3	05/06/93			N/A	N/A	N/A	7.65	N/A		268		N/A
EP4	05/06/93			N/A	N/A	N/A	7.77	N/A		118		N/A
EP5	05/07/93			N/A	0.42	8.6	8.14	150		290		13.7
V1	05/19/93			N/A	1.28	7.07	6.97	18.7		34		N/A
V5	05/19/93			N/A			7.93			225		N/A
V8	05/19/93			4.32	5.41	8.48	7.96	113.32		183		N/A
EP1	05/19/93			N/A	2.7	8.2	8.17	31.36		68		N/A
EP2	05/19/93			N/A	9.05	7.8	7.19	64.23		109		N/A
EP3	05/19/93			N/A	9.92	9	8.26	102.74		163		N/A
EP4	05/19/93			N/A	6.4	8.2	7.61	44		82		N/A
V1	06/07/93			N/A	7.3	7.17	N/A	49		N/A		7.9
V2	06/07/93			N/A	14.3	8.22	7.72	480		616		8.9
V5	06/07/93			N/A	11.8	7.4	8.17	218		306		9.3
V8	06/07/93			N/A	11.8	7.05	8.01	135		203		9.2
EP1	06/07/93			N/A	10.4	7.34	7.85	85		59		10.0
EP2	06/07/93			N/A	9.8	7.21	7.65	120		183		8.8
EP3	06/07/93			N/A	11.8	7.91	8.08	135		198		8.6
EP4	06/07/93			N/A	11.3	8.23	8.11	200		297		8.5
EP5	06/07/93			N/A	11.2	7.72	7.89	110		158		8.6

Sample size = 3 where mean and standard deviation are given.

STATION	DATE	COLOR (REL. U.)	TURB. (FTU)	TOTAL ALK. (asCaCO3) (mg/L)	(Diss.)		(Extr.)		SULFATE (mg/L)
					HARDNESS (asCaCO3) (mg/L)	TOTAL HARDNESS (mg/L)	HARDNESS (asCaCO3) (mg/L)	TOTAL HARDNESS (mg/L)	
V1	05/06/93	20	0	43	45.7	46.1	44.6	45.0	8.4
V2	05/06/93	30	320	97	137.0	138.0	224.0	398.0	59.4
V8	05/07/93	55	23	112	143.0	143.0	142.0	148.0	43.3
EP1	05/06/93	50	1100	83	68.4	69.2	473.0	899.0	24.0
EP2	05/06/93	<	4	34	94.7	96.2	92.5	95.2	69.1
EP3	05/06/93	35	230	56	110.0	112.0	132.0	167.0	70.6
EP4	05/06/93	25	170	48	50.0	50.6	61.3	88.8	15.0
EP5	05/07/93	50	34	108	137.0	137.0	132.0	140.0	38.1
V1	05/19/93	35	1	10	11.0	11.3	13.1	14.0	7.9
V5	05/19/93	70	150	91	105.0	105.0	202.0	270.0	26.0
V8	05/19/93	60	130	72	84.4	85.2	138.0	185.0	20.0
EP1	05/19/93	50	200	27	25.2	26.4	72.0	121.0	8.2
EP2	05/19/93	60	310	22	41.5	42.7	111.0	305.0	25.0
EP3	05/19/93	100	2900	223	63.7	65.3	1040.0	1860.0	30.7
EP4	05/19/93	40	32	30	33.4	33.7	48.9	70.5	8.6
V1	06/07/93	N/A	N/A	N/A	± 0.0	± 0.0	± 0.1	± 0.2	N/A
V2	06/07/93	20	220	122	288.0	290.0	393.0	578.0	121.0
V5	06/07/93	20	3	124	163.0	164.0	164.0	166.0	31.0
V8	06/07/93	20	8	77	102.3	102.3	100.3	104.7	20.2
EP1	06/07/93	25	43	21	22.2	22.5	38.3	55.0	6.8
EP2	06/07/93	15	3	43	82.7	83.8	78.3	80.2	39.3
EP3	06/07/93	40	275	82	84.2	84.7	271.0	424.0	38.8
EP4	06/07/93	5	1	121	151.0	153.0	146.0	149.0	32.7
EP5	06/07/93	15	8	59	76.4	76.6	77.2	81.2	18.2

Sample size = 3 where mean and standard deviation are given.

STATION	DATE	CHLORIDE (mg/L)	TOTAL P (mg/L)	NITRITE (mg/L)	NITRITE+ NITRATE (mg/L)	NH3 (mg/L)	FR (mg/L)	NFR (mg/L)	ICP Diss.	
									Ag (mg/L)	±
V1	05/06/93	0.4	0.005	< 0.002	0.012	0.011	100	< 10	< 0.01	± 0.00
V2	05/06/93	1.2	0.610	0.030	3.130	0.009	260	3210	< 0.01	
V8	05/07/93	1.3	0.052	0.003	0.307	0.012	240	70	< 0.01	± 0.00
EP1	05/06/93	0.5	0.710	< 0.002	0.278	0.008	150	11000	< 0.01	
EP2	05/06/93	0.5	0.005	0.021	1.540	0.031	200	< 10	< 0.01	
EP3	05/06/93	0.5	0.370	0.006	1.510	0.022	260	540	< 0.01	
EP4	05/06/93	1.4	0.310	0.002	0.379	0.011	110	450	< 0.01	
EP5	05/07/93	0.8	0.066	0.005	0.409	0.019	230	100	< 0.01	
V1	05/19/93	0.4	0.016	< 0.002	0.012	0.011	40	< 10	< 0.01	
V5	05/19/93	1.7	0.503	< 0.002	0.053	0.015	170	860	< 0.01	
V8	05/19/93	1.1	0.415	0.003	0.130	0.018	160	440	< 0.01	
EP1	05/19/93	1.2	0.370	0.007	0.115	0.032	130	440	< 0.01	
EP2	05/19/93	1.4	0.470	0.019	N/A	0.031	100	1540	< 0.01	
EP3	05/19/93	2.1	2.800	0.006	N/A	0.021	120	8010	< 0.01	
EP4	05/19/93	0.6	0.130	< 0.002	0.070	0.015	80	120	< 0.01	
V1	06/07/93	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.01	± 0.00
V2	06/07/93	0.8	0.618	0.008	12.100	0.020	500	1410	< 0.01	
V5	06/07/93	1.5	0.016	< 0.002	0.040	0.003	220	10	± 0.01	
V8	06/07/93	0.7	0.004	< 0.002	0.342	0.007	150	10	0.01	± 0.00
EP1	06/07/93	0.7	0.056	0.005	0.037	0.038	50	80	< 0.01	
EP2	06/07/93	0.4	< 0.002	< 0.002	1.360	0.004	150	< 10	< 0.01	
EP3	06/07/93	0.6	0.220	0.003	1.290	0.010	150	1030	< 0.01	
EP4	06/07/93	0.5	< 0.002	0.006	0.218	0.019	200	< 10	< 0.01	
EP5	06/07/93	0.4	0.008	< 0.002	0.268	0.005	120	10	< 0.01	

Sample size = 3 where mean and standard deviation are given.

STATION	DATE	ICP Diss.										
		GF Diss.	Ag (mg/L)	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Ca (mg/L)	Cd (mg/L)	ICP Diss.	ICP Diss.
V1	05/06/93	< 0.0005	< 0.05	< 0.05	< 0.05	< 0.01	0.039	< 0.001	14.4	0.006		
		± 0.0000	± 0.00	± 0.00	± 0.00	± 0.00	± 0.000	± 0.000	± 0.0	± 0.001		
V2	05/06/93	< 0.0005	0.08	< 0.05	< 0.01	0.138	< 0.001	< 0.001	37.9	< 0.005		
V8	05/07/93	< 0.0005	< 0.05	< 0.05	< 0.01	0.054	< 0.001	< 0.001	33.3	0.007		
		± 0.0000	± 0.00	± 0.00	± 0.00	± 0.005	± 0.000	± 0.000	± 3.4	± 0.002		
EP1	05/06/93	< 0.0005	0.09	< 0.05	< 0.01	0.085	< 0.001	< 0.001	22.0	< 0.005		
EP2	05/06/93	< 0.0005	< 0.05	< 0.05	< 0.01	0.120	< 0.001	< 0.001	29.2	0.007		
EP3	05/06/93	< 0.0005	< 0.05	< 0.05	< 0.01	0.080	< 0.001	< 0.001	34.3	< 0.005		
EP4	05/06/93	< 0.0005	0.09	< 0.05	< 0.01	0.063	< 0.001	< 0.001	15.7	< 0.005		
EP5	05/07/93	< 0.0005	< 0.05	< 0.05	< 0.01	0.063	< 0.001	< 0.001	34.8	0.011		
V1	05/19/93	< 0.0005	< 0.05	< 0.05	< 0.01	0.012	< 0.001	< 0.001	3.5	< 0.005		
V5	05/19/93	< 0.0005	< 0.05	< 0.05	< 0.01	0.039	< 0.001	< 0.001	25.8	< 0.005		
V8	05/19/93	< 0.0005	0.07	< 0.05	< 0.01	0.038	< 0.001	< 0.001	21.9	0.007		
EP1	05/19/93	< 0.0005	0.18	< 0.05	< 0.01	0.025	< 0.001	< 0.001	8.1	< 0.005		
EP2	05/19/93	< 0.0005	0.17	< 0.05	< 0.01	0.045	< 0.001	< 0.001	12.3	< 0.005		
EP3	05/19/93	< 0.0005	0.22	< 0.05	< 0.01	0.037	< 0.001	< 0.001	16.9	< 0.005		
EP4	05/19/93	< 0.0005	< 0.05	< 0.05	< 0.01	0.03	< 0.001	< 0.001	10.9	< 0.005		
V1	06/07/93	< 0.0005	< 0.05	< 0.05	< 0.01	0.015	< 0.001	< 0.001	4.5	< 0.005		
		± 0.0000	± 0.00	± 0.00	± 0.00	± 0.000	± 0.000	± 0.000	± 0.0	± 0.000		
V2	06/07/93	< 0.0005	0.29	< 0.05	< 0.01	0.124	< 0.001	< 0.001	73.3	< 0.005		
V5	06/07/93	± 0.0005	< 0.05	< 0.05	< 0.01	0.052	< 0.001	< 0.001	40.0	< 0.005		
V8	06/07/93	< 0.0005	< 0.05	< 0.05	< 0.01	0.039	< 0.001	< 0.001	26.7	< 0.005		
		± 0.0000	± 0.00	± 0.00	± 0.00	± 0.000	± 0.000	± 0.000	± 0.1	± 0.000		
EP1	06/07/93	< 0.0005	< 0.05	< 0.05	< 0.01	0.016	< 0.001	< 0.001	7.2	< 0.005		
EP2	06/07/93	< 0.0005	0.11	< 0.05	< 0.01	0.094	< 0.001	< 0.001	24.5	< 0.005		
EP3	06/07/93	< 0.0005	< 0.05	< 0.05	< 0.01	0.049	< 0.001	< 0.001	25.5	< 0.005		
EP4	06/07/93	< 0.0005	< 0.05	< 0.05	< 0.01	0.174	< 0.001	< 0.001	48.8	< 0.005		
EP5	06/07/93	< 0.0005	< 0.05	< 0.05	< 0.01	0.035	< 0.001	< 0.001	20.7	< 0.005		

STATION	DATE	Cd (mg/L)	Co (mg/L)	Cr (mg/L)	Cu (mg/L)	Cu (mg/L)	GF Diss. (mg/L)	ICP Diss. (mg/L)	Fe (mg/L)	K (mg/L)	Mg (mg/L)
V1	05/06/93	< 0.0001 ± 0.0000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	0.0009 ± 0.0001	0.039 ± 0.002	< 2 ± 0	2.3 ± 0.0	
V2	05/06/93	< 0.0001	< 0.005	< 0.005	0.007	0.0087		0.079	< 2	10.3	
V8	05/07/93	< 0.0001 ± 0.0000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	0.0033 ± 0.0002		0.063 ± 0.007	< 2 ± 0	13.0 ± 1.2	
EP1	05/06/93	< 0.0001	< 0.005	< 0.005	0.007	0.0077		0.093	< 2	3.3	
EP2	05/06/93	0.0015	0.007	< 0.005	0.007	0.0058		0.064	< 2	5.3	
EP3	05/06/93	0.0013	0.006	< 0.005	0.007	0.0049		0.041	< 2	6.0	
EP4	05/06/93	< 0.0001	< 0.005	< 0.006	< 0.005	0.0020		0.081	< 2	2.6	
EP5	05/07/93	< 0.0001	< 0.005	< 0.005	< 0.005	0.0034		0.046	< 2	12.0	
V1	05/19/93	0.0001	< 0.005	< 0.005	< 0.005	0.0026		0.045	< 2	0.5	
V5	05/19/93	0.0001	< 0.005	< 0.005	< 0.005	0.0056		0.075	< 2	9.8	
V8	05/19/93	0.0003	< 0.005	< 0.005	0.005	0.0081		0.109	< 2	7.2	
EP1	05/19/93	0.0002	< 0.005	< 0.005	< 0.005	0.0086		0.218	< 2	1.2	
EP2	05/19/93	0.0003	< 0.005	< 0.005	0.007	0.0125		0.222	< 2	2.6	
EP3	05/19/93	0.0002	< 0.005	< 0.005	0.01	0.0142		0.324	< 2	5.2	
EP4	05/19/93	0.0001	< 0.005	< 0.005	< 0.005	0.0042		0.065	< 2	1.5	
V1	06/07/93	< 0.0001 ± 0.0000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	0.0005 ± 0.0000	0.019 ± 0.001	< 2 ± 0	0.6 ± 0.0	
V2	06/07/93	< 0.0001	< 0.005	0.007	< 0.005	0.0008		0.023	5	25.5	
V5	06/07/93	< 0.0001	< 0.005	0.008	0.008	0.0007		0.029	2	15.4	
V8	06/07/93	< 0.0002 ± 0.0001	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	0.0011 ± 0.0001		0.021 ± 0.004	< 2 ± 0	8.6 ± 0.0	
EP1	06/07/93	0.0001	< 0.005	< 0.005	< 0.005	0.0009		0.052	< 2	1.0	
EP2	06/07/93	0.0004	0.010	< 0.005	0.028			0.069	< 2	4.5	
EP3	06/07/93	0.0003	< 0.005	< 0.005	0.009	0.0096		0.024	< 2	5.0	
EP4	06/07/93	0.0002	< 0.005	< 0.005	< 0.005	< 0.0005		0.075	< 2	7.1	
EP5	06/07/93	0.0001	< 0.005	< 0.005	< 0.005	0.0011		0.03	< 2	6	

STATION	DATE	Mn (mg/L)		Mo (mg/L)		Na (mg/L)		Ni (mg/L)		P (mg/L)		Pb (mg/L)		Sb (mg/L)	
		ICP Diss.	ICP Diss.	ICP Diss.	ICP Diss.	ICP Diss.	ICP Diss.	ICP Diss.	ICP Diss.	ICP Diss.	ICP Diss.	ICP Diss.	ICP Diss.	ICP Diss.	ICP Diss.
V1	05/06/93	± 0.000	< 0.001	± 0.00	± 0.01	± 0.0	± 1.8	± 0.00	< 0.02	± 0.0	< 0.1	± 0.00	± 0.0007	± 0.0000	< 0.05
V2	05/06/93		0.010		0.01		4.0		0.02		0.1		0.0019		0.05
V8	05/07/93	± 0.001	0.012	± 0.00	0.01	± 0.3	2.3	± 0.00	0.02	± 0.0	0.1	± 0.0034	± 0.0002		0.05
EP1	05/06/93		0.016		0.01		2.1		0.02		0.1		0.0049		0.05
EP2	05/06/93		0.289		0.01		2.2		0.02		0.1		0.0011		0.05
EP3	05/06/93		0.403		0.01		2.5		0.02		0.1		0.0031		0.05
EP4	05/06/93		0.015		0.01		1.7		0.02		0.1		0.0022		0.05
EP5	05/07/93		0.014		0.01		2.1		0.02		0.1		0.0030		0.05
V1	05/19/93		0.005		0.01		0.7		0.02		0.1		0.001		0.05
V5	05/19/93		0.008		0.01		1.6		0.02		0.1		0.0021		0.05
V8	05/19/93		0.016		0.01		1.5		0.02		0.1		0.0093		0.05
EP1	05/19/93		0.03		0.01		1		0.02		0.1		0.003		0.05
EP2	05/19/93		0.028		0.01		2.1		0.02		0.1		0.0023		0.05
EP3	05/19/93		0.037		0.01		2.5		0.02		0.1		0.0033		0.05
EP4	05/19/93		0.017		0.01		1.2		0.02		0.1		0.0012		0.05
V1	06/07/93	< 0.001		± 0.000	0.01	± 0.0	0.9	± 0.00	0.02	± 0.0	0.1	± 0.0005	± 0.0000	± 0.00	0.05
V2	06/07/93		0.014		0.01		5.7		0.02		0.1		0.0016		0.05
V5	06/07/93		0.006		0.01		2.2		0.02		0.1		0.0005		0.05
V8	06/07/93	± 0.000	0.006	± 0.00	0.01	± 0.0	1.6	± 0.00	0.02	± 0.0	0.1	± 0.0009	± 0.0000	± 0.00	0.05
EP1	06/07/93		0.021		0.01		1.0		0.02		0.1		0.0013		0.05
EP2	06/07/93		0.049		0.01		2.9		0.02		0.1		0.0128		0.05
EP3	06/07/93		0.073		0.01		2.8		0.02		0.1		0.0018		0.05
EP4	06/07/93		0.929		0.01		2.7		0.02		0.1		0.0011		0.05
EP5	06/07/93		0.007		0.01		1.4		0.02		0.1		0.0017		0.05

STATION	DATE	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)	Ag (mg/L)
V1	05/06/93	< 0.05 ± 0.00	4.12 ± 0.00	< 0.05 ± 0.00	0.071 ± 0.000	< 0.002 ± 0.000	< 0.01 ± 0.00	0.002 ± 0.000	< 0.01 ± 0.00
V2	05/06/93	< 0.05	3.48	< 0.05	0.228	0.003	< 0.01	0.026	< 0.01
V8	05/07/93	< 0.05 ± 0.00	2.93 ± 0.29	< 0.05 ± 0.00	0.142 ± 0.010	< 0.002 ± 0.000	< 0.01 ± 0.00	0.009 ± 0.002	< 0.01 ± 0.00
EP1	05/06/93	< 0.05	4.31	< 0.05	0.103	0.003	< 0.01	0.032	< 0.01
EP2	05/06/93	< 0.05	5.23	< 0.05	0.133	< 0.002	< 0.01	0.353	< 0.01
EP3	05/06/93	< 0.05	5.10	< 0.05	0.151	< 0.002	< 0.01	0.180	< 0.01
EP4	05/06/93	< 0.05	4.67	< 0.05	0.076	< 0.002	< 0.01	< 0.002	< 0.01
EP5	05/07/93	< 0.05	3.27	< 0.05	0.146	< 0.002	< 0.01	0.009	< 0.01
V1	05/19/93	< 0.05	2.36	< 0.05	0.019	< 0.002	< 0.01	0.007	< 0.01
V5	05/19/93	< 0.05	3.41	< 0.05	0.099	< 0.002	< 0.01	0.01	< 0.01
V8	05/19/93	< 0.05	3.47	< 0.05	0.086	< 0.002	< 0.01	0.105	< 0.01
EP1	05/19/93	< 0.05	3.03	< 0.05	0.035	0.003	< 0.01	0.012	< 0.01
EP2	05/19/93	< 0.05	5.01	< 0.05	0.063	0.002	< 0.01	0.02	< 0.01
EP3	05/19/93	< 0.05	4.61	< 0.05	0.089	0.003	< 0.01	0.016	< 0.01
EP4	05/19/93	< 0.05	4.94	< 0.05	0.048	< 0.002	< 0.01	0.007	< 0.01
V1	06/07/93	< 0.05 ± 0.00	3.15 ± 0.02	< 0.05 ± 0.00	0.023 ± 0.000	< 0.002 ± 0.000	< 0.01 ± 0.00	< 0.002 ± 0.000	< 0.01 ± 0.00
V2	06/07/93	< 0.05	3.53	< 0.05	0.311	< 0.002	< 0.01	0.003	< 0.01
V5	06/07/93	< 0.05	4.36	< 0.05	0.164	< 0.002	0.01	< 0.002	< 0.01
V8	06/07/93	< 0.05 ± 0.00	3.73 ± 0.02	< 0.05 ± 0.00	0.104 ± 0.000	< 0.002 ± 0.000	< 0.01 ± 0.00	0.012 ± 0.002	< 0.01 ± 0.00
EP1	06/07/93	< 0.05	3.43	< 0.05	0.032	< 0.002	< 0.01	0.028	< 0.01
EP2	06/07/93	< 0.05	6.25	< 0.05	0.108	< 0.002	< 0.01	0.187	< 0.01
EP3	06/07/93	< 0.05	5.93	< 0.05	0.111	< 0.002	< 0.01	0.027	< 0.01
EP4	06/07/93	< 0.05	7.28	< 0.05	0.199	< 0.002	< 0.01	0.005	< 0.01
EP5	06/07/93	< 0.05	3.49	< 0.05	0.081	< 0.002	< 0.01	0.016	< 0.01

STATION	DATE	GF Extr.	Ag (mg/L)	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Ca (mg/L)	Cd (mg/L)
V1	05/06/93	< 0.0005 ± 0.0000	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.039 ± 0.000	< 0.001 ± 0.000	13.8 ± 0.1	< 0.005 ± 0.000	
V2	05/06/93	0.0006	27.90	0.15	0.01	1.180	0.002	49.8	< 0.005	
V8	05/07/93	< 0.0005 ± 0.0000	0.90 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.105 ± 0.001	< 0.001 ± 0.000	34.9 ± 1.5	< 0.005 ± 0.000	
EP1	05/06/93	0.0008	55.10	0.40	< 0.01	2.720	0.004	124.0	0.031	
EP2	05/06/93	< 0.0005	0.07	< 0.05	< 0.01	0.126	< 0.001	28.2	< 0.005	
EP3	05/06/93	< 0.0005	4.56	< 0.05	< 0.01	0.354	< 0.001	36.8	< 0.005	
EP4	05/06/93	< 0.0005	4.44	< 0.05	< 0.01	0.254	< 0.001	17.0	< 0.005	
EP5	05/07/93	< 0.0005	1.20	< 0.05	< 0.01	0.132	< 0.001	34.8	< 0.005	
V1	05/19/93	< 0.0005	0.15	< 0.05	< 0.01	0.015	< 0.001	4.2	< 0.005	
V5	05/19/93	< 0.0005	9.43	0.07	< 0.01	0.429	< 0.001	50.3	0.010	
V8	05/19/93	< 0.0005	6.50	< 0.05	< 0.01	0.343	< 0.001	34.3	0.009	
EP1	05/19/93	< 0.0005	7.40	< 0.05	< 0.01	0.22	< 0.001	17.2	< 0.005	
EP2	05/19/93	< 0.0005	30.80	0.14	< 0.01	0.634	0.001	20	0.016	
EP3	05/19/93	0.0006	119.00	0.5	0.02	3.09	0.005	207	0.060	
EP4	05/19/93	< 0.0005	3.37	< 0.05	< 0.01	0.104	< 0.001	14.1	< 0.005	
V1	06/07/93	< 0.0005 ± 0.0000	< 0.05 ± 0.00	< 0.05 ± 0.00	< 0.01 ± 0.00	0.016 ± 0.000	0.001 ± 0.000	4.7 ± 0.1	< 0.005 ± 0.000	
V2	06/07/93	< 0.0005	27.10	< 0.05	0.07	0.463	0.002	89.5	0.012	
V5	06/07/93	< 0.0005	0.28	< 0.05	< 0.01	0.066	0.002	40.0	< 0.005	
V8	06/07/93	< 0.0005 ± 0.0000	0.65 ± 0.05	< 0.05 ± 0.00	< 0.01 ± 0.00	0.063 ± 0.008	0.001 ± 0.000	25.2 ± 0.1	< 0.005 ± 0.000	
EP1	06/07/93	< 0.0005	2.61	< 0.05	< 0.01	0.078	0.001	9.8	< 0.005	
EP2	06/07/93	< 0.0005	0.25	< 0.05	< 0.01	0.096	0.001	24.3	< 0.005	
EP3	06/07/93	< 0.0005	23.10	< 0.05	0.06	0.648	0.002	62.3	0.010	
EP4	06/07/93	< 0.0005	0.09	< 0.05	< 0.01	0.179	0.002	46.7	< 0.005	
EP5	06/07/93	< 0.0005	0.62	< 0.05	< 0.01	0.049	0.001	20.1	< 0.005	

STATION	DATE	GF Extr.	ICP Extr.	Co (mg/L)	Cr (mg/L)	Cu (mg/L)	Cu (mg/L)	GF Extr.	ICP Extr.	Fe (mg/L)	K (mg/L)	Mg (mg/L)
V1	05/06/93	< 0.0001 ± 0.0000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	0.0008 ± 0.0001	0.055 ± 0.009	< 2 ± 0	2.4 ± 0.0		
V2	05/06/93	0.0008	< 0.005	0.043	0.096	(see ICP)	36.800		5	24.2		
V8	05/07/93	< 0.0001 ± 0.0000	< 0.005 ± 0.000	< 0.005 ± 0.000	0.005 ± 0.000	0.0058 ± 0.0001	1.400 ± 0.008	< 2 ± 0	14.2 ± 0.1			
EP1	05/06/93	(see ICP)	< 0.005	0.090	0.408	(see ICP)	111.000		14	39.5		
EP2	05/06/93	0.0020	0.006	< 0.005	0.012	0.0096	0.564	< 2	5.3			
EP3	05/06/93	0.0026	< 0.005	0.016	0.047	(see ICP)	8.400	< 2	9.8			
EP4	05/06/93	< 0.0001	< 0.005	0.009	0.017	0.0200	5.770	< 2	4.6			
EP5	05/07/93	< 0.0001	< 0.005	< 0.005	0.006	0.0073	1.810	< 2	12.4			
V1	05/19/93	0.0001	< 0.005	< 0.005	< 0.005	0.0013	0.147	< 2	0.6			
V5	05/19/93	0.0012	< 0.005	0.024	0.038	(see icp)	17.200	2	18.7			
V8	05/19/93	0.0006	< 0.005	0.023	0.024	(see icp)	11.600	< 2	12.8			
EP1	05/19/93	0.0005	< 0.005	0.039	0.025	(see icp)	11.600	< 2	7.1			
EP2	05/19/93	0.0010	< 0.005	0.043	0.133	(see icp)	42.100	3	14.3			
EP3	05/19/93	(see icp)	< 0.005	0.694	0.406	(see icp)	204.000	10	115.0			
EP4	05/19/93	0.0001	< 0.005	0.008	0.009	0.011	4.800	< 2	3.3			
V1	06/07/93	< 0.0001 ± 0.0000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	< 0.005 ± 0.000	0.037 ± 0.004	0.7 ± 0.0				
V2	06/07/93	0.0006	0.003	0.066	0.100	(see ICP)	45.100	6.11	41.2			
V5	06/07/93	< 0.0001	< 0.005	< 0.005	0.005	0.429	0.75		15.5			
V8	06/07/93	< 0.0001 ± 0.0000	< 0.005 ± 0.000	0.011 ± 0.004	0.005 ± 0.000	0.0021 ± 0.0001	0.891 ± 0.056	9.1 ± 0.0				
EP1	06/07/93	0.0001	< 0.005	0.018	0.008	0.0063	3.710	0.65	3.3			
EP2	06/07/93	0.0005	0.006	< 0.005	0.034	(see ICP)	0.210	0.98	4.6			
EP3	06/07/93	0.0010	0.006	0.181	0.085	(see ICP)	36.300	3.26	28.0			
EP4	06/07/93	0.0001	< 0.005	< 0.005	0.006	0.0006	0.244	1.03	7.2			
EP5	06/07/93	0.0002	< 0.005	< 0.005	< 0.005	0.0022	0.838	0.61	6.6			

STATION	DATE	Mn (mg/L)		Mo (mg/L)		Na (mg/L)		Ni (mg/L)		P (mg/L)		Pb (mg/L)		Sb (mg/L)	
		ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.
V1	05/06/93	± 0.002	< 0.01	± 0.00	± 0.00	± 1.8	< 0.02	± 0.00	± 0.1	< 0.05	± 0.0002	< 0.05	± 0.00	< 0.05	
V2	05/06/93	1.210	< 0.01	4.3	0.08	1.4	0.58	(see ICP)	< 0.05	(see ICP)	< 0.05	(see ICP)	< 0.05		
V8	05/07/93	± 0.063	< 0.01	± 0.00	± 0.01	± 2.0	< 0.02	< 0.1	< 0.05	± 0.0419	< 0.05	± 0.0025	< 0.05		
EP1	05/06/93	4.420	< 0.01	2.9	0.23	4.9	5.83	(see ICP)	< 0.05	(see ICP)	< 0.05	(see ICP)	< 0.05		
EP2	05/06/93	0.301	< 0.01	2.4	0.02	< 0.1	< 0.05	0.0097	< 0.05	0.0097	< 0.05	0.0097	< 0.05		
EP3	05/06/93	0.582	< 0.01	2.4	0.03	0.3	0.17	0.2640	< 0.05	0.2640	< 0.05	0.2640	< 0.05		
EP4	05/06/93	0.154	< 0.01	1.8	0.02	0.2	0.05	0.0880	< 0.05	0.0880	< 0.05	0.0880	< 0.05		
EP5	05/07/93	0.073	< 0.01	2.1	0.02	0.1	< 0.05	0.0660	< 0.05	0.0660	< 0.05	0.0660	< 0.05		
V1	05/19/93	0.009	< 0.01	0.7	0.02	< 0.1	< 0.05	< 0.0005	< 0.05	< 0.0005	< 0.05	< 0.0005	< 0.05		
V5	05/19/93	0.619	< 0.01	2.0	0.05	1.1	0.10	0.1460	< 0.05	0.1460	< 0.05	0.1460	< 0.05		
V8	05/19/93	0.363	< 0.01	1.7	0.03	0.7	0.14	0.1550	< 0.05	0.1550	< 0.05	0.1550	< 0.05		
EP1	05/19/93	0.285	< 0.01	1.2	0.04	0.4	0.10	0.0984	< 0.05	0.0984	< 0.05	0.0984	< 0.05		
EP2	05/19/93	1.090	< 0.01	2.7	0.07	1.2	0.27	(see icp)	< 0.05	(see icp)	< 0.05	(see icp)	< 0.05		
EP3	05/19/93	4.890	< 0.01	3.4	0.68	7.5	1.01	(see icp)	< 0.05	(see icp)	< 0.05	(see icp)	< 0.05		
EP4	05/19/93	0.151	< 0.01	1.4	0.02	0.2	< 0.05	0.0290	< 0.05	0.0290	< 0.05	0.0290	< 0.05		
V1	06/07/93	0.001	< 0.01	0.9	0.02	< 0.1	< 0.05	< 0.0005	< 0.05	< 0.0005	< 0.05	< 0.0005	< 0.05		
V2	06/07/93	± 0.000	< 0.01	± 0.00	± 0.00	± 0.0	± 0.00	± 0.0000	< 0.05	± 0.0000	< 0.05	± 0.0000	< 0.05		
V5	06/07/93	0.992	< 0.01	6.5	0.11	0.8	0.47	(see ICP)	< 0.05	(see ICP)	< 0.05	(see ICP)	< 0.05		
V8	06/07/93	0.023	< 0.01	1.7	0.02	< 0.1	< 0.05	0.0101	< 0.05	0.0101	< 0.05	0.0101	< 0.05		
EP1	06/07/93	± 0.001	< 0.01	± 0.00	± 0.00	± 0.0	± 0.00	± 0.0017	< 0.05	± 0.0017	< 0.05	± 0.0017	< 0.05		
EP2	06/07/93	0.077	< 0.01	1.2	0.02	< 0.1	< 0.05	0.0188	< 0.05	0.0188	< 0.05	0.0188	< 0.05		
EP3	06/07/93	0.048	< 0.01	3.0	0.02	< 0.1	< 0.05	0.0210	< 0.05	0.0210	< 0.05	0.0210	< 0.05		
EP4	06/07/93	0.772	< 0.01	4.0	0.15	1.0	0.12	0.1420	< 0.05	0.1420	< 0.05	0.1420	< 0.05		
EP5	06/07/93	0.896	< 0.01	2.8	0.02	< 0.1	< 0.05	0.0008	< 0.05	0.0008	< 0.05	0.0008	< 0.05		
EP5	06/07/93	0.022	< 0.01	1.5	0.02	< 0.1	< 0.05	0.0102	< 0.05	0.0102	< 0.05	0.0102	< 0.05		

STATION	DATE	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)	Ag (mg/L)
V1	05/06/93	< 0.05 ± 0.00	3.79 ± 0.02	< 0.05 ± 0.00	0.069 ± 0.000	< 0.002 ± 0.000	< 0.01 ± 0.00	< 0.002 ± 0.000	< 0.01 ± 0.00
V2	05/06/93	< 0.05	19.90	< 0.05	0.314	0.264	0.04	0.231	< 0.01
V8	05/07/93	< 0.05 ± 0.00	4.27 ± 0.04	< 0.05 ± 0.00	0.151 ± 0.001	0.023 ± 0.000	< 0.01 ± 0.00	0.030 ± 0.000	< 0.01 ± 0.00
EP1	05/06/93	< 0.05	26.20	< 0.05	0.587	0.521	0.06	5.800	< 0.01
EP2	05/06/93	< 0.05	5.59	< 0.05	0.133	0.002	< 0.01	0.392	< 0.01
EP3	05/06/93	< 0.05	10.60	< 0.05	0.172	0.074	< 0.01	0.449	< 0.01
EP4	05/06/93	< 0.05	9.76	< 0.05	0.089	0.079	< 0.01	0.069	< 0.01
EP5	05/07/93	< 0.05	4.66	< 0.05	0.148	0.030	< 0.01	0.042	< 0.01
V1	05/19/93	< 0.05	2.77	< 0.05	0.021	0.003	< 0.01	0.004	< 0.01
V5	05/19/93	< 0.05	16.90	< 0.05	0.185	0.119	0.02	0.131	< 0.01
V8	05/19/93	< 0.05	13.00	< 0.05	0.129	0.101	< 0.01	0.112	< 0.01
EP1	05/19/93	< 0.05	14.00	< 0.05	0.071	0.096	0.01	0.096	< 0.01
EP2	05/19/93	< 0.05	23.40	< 0.05	0.118	0.466	0.02	0.335	< 0.01
EP3	05/19/93	< 0.05	31.70	< 0.05	0.824	1.070	0.19	1.220	< 0.01
EP4	05/19/93	< 0.05	10.30	< 0.05	0.061	0.065	< 0.01	0.039	< 0.01
V1	06/07/93	< 0.05 ± 0.00	3.15 ± 0.00	< 0.05 ± 0.00	0.025 ± 0.000	< 0.002 ± 0.000	< 0.01 ± 0.00	0.004 ± 0.001	< 0.01 ± 0.00
V2	06/07/93	< 0.05	37.60	< 0.05	0.420	0.325	0.06	0.435	< 0.01
V5	06/07/93	< 0.05	4.79	< 0.05	0.182	0.006	< 0.01	0.006	< 0.01
V8	06/07/93	< 0.05 ± 0.00	4.59 ± 0.09	< 0.05 ± 0.00	0.116 ± 0.000	0.010 ± 0.001	< 0.01 ± 0.00	0.021 ± 0.001	< 0.01 ± 0.00
EP1	06/07/93	< 0.05	7.56	< 0.05	0.048	0.033	< 0.01	0.055	< 0.01
EP2	06/07/93	< 0.05	6.15	< 0.05	0.118	< 0.002	< 0.01	0.186	< 0.01
EP3	06/07/93	< 0.05	41.40	< 0.05	0.276	0.262	0.06	0.326	< 0.01
EP4	06/07/93	< 0.05	7.26	< 0.05	0.223	0.002	< 0.01	0.007	< 0.01
EP5	06/07/93	< 0.05	4.33	< 0.05	0.092	0.011	< 0.01	0.023	< 0.01

STATION	DATE	GF Total		ICP Total		ICP Total		ICP Total		ICP Total		ICP Total	
		Ag (mg/L)	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Ca (mg/L)	Cd (mg/L)				
V1	05/06/93	< 0.0006 ± 0.0000	< 0.06 ± 0.00	< 0.06 ± 0.00	< 0.01 ± 0.00	0.041 ± 0.001	< 0.001 ± 0.000	15.3 ± 0.3	< 0.006 ± 0.000				
V2	05/06/93	0.0006	91.70	0.59	0.02	2.110	0.003	52.7	0.008				
V8	05/07/93	< 0.0006 ± 0.0000	3.53 ± 0.06	< 0.06 ± 0.00	< 0.01 ± 0.00	0.144 ± 0.002	< 0.001 ± 0.000	38.1 ± 1.8	< 0.006 ± 0.000				
EP1	05/06/93	0.0033	196.00	1.17	0.03	11.800	0.008	133.0	0.060				
EP2	05/06/93	< 0.0006	0.16	< 0.06	< 0.01	0.136	< 0.001	32.1	0.008				
EP3	05/06/93	< 0.0006	23.40	0.14	< 0.01	0.633	< 0.001	42.9	0.009				
EP4	05/06/93	< 0.0006	17.20	0.06	< 0.01	0.411	< 0.001	19.7	< 0.006				
EP5	05/07/93	< 0.0006	5.57	0.08	< 0.01	0.198	< 0.001	40.3	< 0.006				
V1	05/19/93	< 0.0006	0.14	0.06	< 0.01	0.015	< 0.001	4.3	< 0.005				
V5	05/19/93	< 0.0006	21.10	0.13	0.01	0.559	< 0.001	49.5	< 0.005				
V8	05/19/93	< 0.0006	15.90	0.12	< 0.01	0.445	< 0.001	33.7	< 0.005				
EP1	05/19/93	< 0.0006	18.40	0.10	0.01	0.369	< 0.001	17.2	< 0.005				
EP2	05/19/93	< 0.0006	36.10	0.16	< 0.01	0.701	0.001	19.7	0.070				
EP3	05/19/93	< 0.0008	211.00	1.07	0.06	3.840	0.005	199.0	0.110				
EP4	05/19/93	< 0.0006	5.74	< 0.05	< 0.01	0.138	< 0.001	14.1	< 0.005				
V1	06/07/93	< 0.0006 ± 0.0000	0.07 ± 0.00	< 0.06 ± 0.00	< 0.01 ± 0.00	0.015 ± 0.000	< 0.001 ± 0.000	4.5 ± 0.1	< 0.006 ± 0.000				
V2	06/07/93	0.0010	137.00	0.64	0.09	1.570	< 0.001	101.0	0.015				
V5	06/07/93	< 0.0006	0.97	< 0.06	< 0.01	0.076	< 0.001	46.3	< 0.006				
V8	06/07/93	< 0.0006 ± 0.0000	1.59 ± 0.03	< 0.06 ± 0.00	< 0.09 ± 0.06	0.081 ± 0.003	< 0.001 ± 0.000	28.4 ± 0.3	< 0.006 ± 0.000				
EP1	06/07/93	< 0.0006	7.44	< 0.06	< 0.01	0.160	< 0.001	9.5	< 0.006				
EP2	06/07/93	< 0.0006	0.30	< 0.06	0.24	0.110	< 0.001	27.2	< 0.006				
EP3	06/07/93	< 0.0006	52.40	0.42	< 0.01	1.110	< 0.001	73.7	0.015				
EP4	06/07/93	< 0.0006	0.17	< 0.06	0.05	0.193	< 0.001	51.5	< 0.006				
EP5	06/07/93	< 0.0006	1.81	0.07	0.23	0.076	< 0.001	24.5	< 0.006				

STATION	DATE	GF Total	ICP Total	ICP Total	Cr (mg/L)	Cu (mg/L)	GF Total	ICP Total	ICP Total	Fe (mg/L)	K (mg/L)	ICP Total	Mg (mg/L)
V1	05/06/93	< 0.0002 ± 0.0001	< 0.006 ± 0.000	< 0.006 ± 0.000	< 0.006 ± 0.000	< 0.006 ± 0.000	< 0.0007 ± 0.0001	< 0.096 ± 0.013	< 2 ± 0	< 2.4 ± 0.0			
V2	05/06/93	0.0013	< 0.006	0.172	0.188	(see ICP)	122.000	15	45.3				
V8	05/07/93	0.0003 ± 0.0000	< 0.006 ± 0.000	0.009 ± 0.002	0.008 ± 0.001	0.0063 ± 0.0003	3.507 ± 0.087	2 ± 0	14.7 ± 0.1				
EP1	05/06/93	(see ICP)	< 0.006	0.568	0.820	(see ICP)	343.000	30	111.0				
EP2	05/06/93	0.0019	< 0.006	< 0.006	0.010	0.0096	0.696	< 2	5.5				
EP3	05/06/93	0.0024	< 0.006	0.110	0.071	(see ICP)	28.800	5	19.8				
EP4	05/06/93	0.0004	< 0.006	0.040	0.030	(see ICP)	18.900	3	9.0				
EP5	05/07/93	0.0003	< 0.006	0.012	0.011	0.0089	5.120	< 2	13.7				
V1	05/19/93	0.0003	< 0.005	< 0.005	< 0.005	0.0073	0.186	< 2	0.6				
V5	05/19/93	0.0013	< 0.005	0.041	0.048	(see icp)	28.600	4	22.9				
V8	05/19/93	0.0007	< 0.005	0.045	0.035	(see icp)	20.200	4	17.2				
EP1	05/19/93	0.0005	< 0.005	0.091	0.034	(see icp)	21.300	4	13.1				
EP2	05/19/93	0.0010	< 0.005	0.042	0.130	(see icp)	40.400	5	14.2				
EP3	05/19/93	(see icp)	0.018	1.180	0.492	(see icp)	352.000	31	180.0				
EP4	05/19/93	0.0002	< 0.005	0.020	0.015	0.0128	6.510	< 2	4.2				
V1	06/07/93	< 0.0001 ± 0.0000	< 0.006 ± 0.000	< 0.006 ± 0.000	< 0.011 ± 0.007	< 0.0007 ± 0.0001	0.072 ± 0.001	< 2 ± 0	0.8 ± 0.0				
V2	06/07/93	0.0009	< 0.006	0.354	0.230	(see ICP)	89.300	13	58.0				
V5	06/07/93	< 0.0001	< 0.006	± 0.025	± 0.015		0.763	± 2	16.5				
V8	06/07/93	< 0.0001 ± 0.0000	< 0.006 ± 0.000	0.012 ± 0.008	< 0.013 ± 0.010	0.0029 ± 0.0001	1.570 ± 0.140	< 2 ± 0	10.0 ± 0.0				
EP1	06/07/93	0.0001	< 0.006	0.110	0.033	(see ICP)	7.680	< 2	5.5				
EP2	06/07/93	0.0006	0.007	< 0.006	0.051	(see ICP)	0.275	< 2	5.1				
EP3	06/07/93	0.0012	< 0.006	0.315	0.116	(see ICP)	66.600	8	43.9				
EP4	06/07/93	0.0001	< 0.006	< 0.006	0.020	0.0010	0.306	< 2	7.8				
EP5	06/07/93	0.0003	< 0.006	< 0.006	0.033	(see ICP)	1.600	< 2	7.7				

Sample size = 3 where mean and standard deviation are given.

STATION	DATE	Mn (mg/L)	Mo (mg/L)	Na (mg/L)	Ni (mg/L)	P (mg/L)	Pb (mg/L)	ICP Total	GF Total	Sb (mg/L)
V1	05/06/93	0.002 ± 0.000	0.01 ± 0.00	1.8 ± 0.0	0.02 ± 0.00	0.1 ± 0.0	0.06 ± 0.00	0.06 ± 0.00	0.0010 ± 0.0002	0.06 ± 0.00
V2	05/06/93	1.760	0.01	5.0	0.16	2.2	0.74	(see ICP)		0.06
V8	05/07/93	0.081 ± 0.002	0.01 ± 0.00	2.2 ± 0.0	0.02 ± 0.00	0.1 ± 0.0	0.06 ± 0.00	0.0407 ± 0.0012		0.06 ± 0.00
EP1	05/06/93	6.040	0.03	4.3	0.51	7.6	6.76	(see ICP)		0.06
EP2	05/06/93	0.339	0.01	2.5	0.02	0.1	0.06	0.0110		0.06
EP3	05/06/93	0.782	0.01	3.1	0.09	0.4	0.27	(see ICP)		0.06
EP4	05/06/93	0.248	0.01	2.6	0.03	0.3	0.09	0.1010		0.06
EP5	05/07/93	0.100	0.01	2.4	0.02	0.1	0.06	0.0680		0.06
V1	05/19/93	0.009	0.01	0.7	0.02	0.1	0.05	0.0006		0.05
V5	05/19/93	0.612	0.01	2.6	0.06	1.1	0.07	0.1210		0.05
V8	05/19/93	0.390	0.01	2.1	0.05	0.7	0.14	0.1500		0.05
EP1	05/19/93	0.330	0.01	1.7	0.07	0.4	0.11	0.1100		0.05
EP2	05/19/93	1.340	0.01	2.9	0.05	1.3	0.25	(see ICP)		0.05
EP3	05/19/93	4.920	0.03	4.3	0.91	7.5	1.03	(see ICP)		0.05
EP4	05/19/93	0.142	0.01	1.5	0.02	0.2	0.05	0.0353		0.05
V1	06/07/93	0.002 ± 0.001	0.01 ± 0.00	0.8 ± 0.1	0.02 ± 0.00	0.1 ± 0.0	0.06 ± 0.00	0.0006 ± 0.0000		0.06 ± 0.00
V2	06/07/93	1.950	0.01	6.0	0.35	1.0	0.77			0.06
V5	06/07/93	0.075	0.01	2.1	0.04	0.1	0.06	0.0022		0.06
V8	06/07/93	0.027 ± 0.001	0.03 ± 0.03	1.6 ± 0.1	0.02 ± 0.00	0.1 ± 0.0	0.06 ± 0.00	0.0124 ± 0.0010		0.08 ± 0.01
EP1	06/07/93	0.227	0.06	1.3	0.10	0.1	0.06	0.0220		0.06
EP2	06/07/93	0.068	0.01	3.0	0.02	0.1	0.06	0.0170		0.10
EP3	06/07/93	1.300	0.01	4.9	0.17	1.0	0.29			0.06
EP4	06/07/93	1.210	0.01	2.6	0.02	0.1	0.06	0.0020		0.06
EP5	06/07/93	0.028	0.01	1.5	0.02	0.1	0.06	0.0100		0.06

Sample size = 3 where mean and standard deviation are given.

STATION	DATE	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)
		ICP Total	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total
V1	05/06/93	< 0.06 ± 0.00	4.5 0.1	< 0.06 ± 0.00	0.072 ± 0.001	0.003 ± 0.001	< 0.01 ± 0.00	0.004 ± 0.001
V2	05/06/93	< 0.06	150.0	< 0.06	0.348	1.930	0.15	0.430
V8	05/07/93	< 0.06 ± 0.00	9.2 0.1	< 0.06 ± 0.00	0.159 ± 0.002	0.114 ± 0.006	< 0.01 ± 0.00	0.045 ± 0.002
EP1	05/06/93	< 0.06	201.0	< 0.06	0.706	4.720	0.26	9.390
EP2	05/06/93	< 0.06	6.5	< 0.06	0.142	0.005	< 0.01	0.454
EP3	05/06/93	< 0.06	24.7	< 0.06	0.197	0.447	0.05	0.590
EP4	05/06/93	< 0.06	23.5	< 0.06	0.100	0.379	0.02	0.131
EP5	05/07/93	< 0.06	12.6	< 0.06	0.163	0.203	< 0.01	0.068
V1	05/19/93	< 0.05	2.6	< 0.05	0.021	0.003	< 0.01	0.006
V5	05/19/93	< 0.05	21.3	< 0.05	0.185	0.469	0.04	0.176
V8	05/19/93	< 0.05	20.4	< 0.05	0.135	0.366	0.03	0.137
EP1	05/19/93	< 0.05	21.0	< 0.05	0.080	0.397	0.04	0.119
EP2	05/19/93	< 0.05	24.1	< 0.05	0.115	0.493	0.03	0.329
EP3	05/19/93	< 0.05	30.8	< 0.05	0.865	3.810	0.44	1.330
EP4	05/19/93	< 0.05	11.1	< 0.05	0.062	0.143	< 0.01	0.039
V1	06/07/93	< 0.06 ± 0.00	3.7 0.0	< 0.06 ± 0.00	0.028 ± 0.000	< 0.002 ± 0.000	< 0.01 ± 0.00	0.024 ± 0.031
V2	06/07/93	< 0.06	166.0	< 0.06	0.460	1.150	0.15	0.663
V5	06/07/93	< 0.06	6.2	< 0.06	0.181	0.041	< 0.01	0.007
V8	06/07/93	< 0.06 ± 0.00	7.3 0.0	< 0.06 ± 0.00	0.119 ± 0.001	0.056 ± 0.006	< 0.01 ± 0.00	0.048 ± 0.000
EP1	06/07/93	< 0.06	15.4	< 0.06	0.057	0.212	0.02	0.092
EP2	06/07/93	< 0.06	7.3	< 0.06	0.121	0.006	< 0.01	0.222
EP3	06/07/93	< 0.06	121.0	< 0.06	0.301	1.230	0.19	0.463
EP4	06/07/93	< 0.06	8.5	< 0.06	0.218	0.007	< 0.01	0.009
EP5	06/07/93	< 0.06	7.9	< 0.06	0.095	0.079	< 0.01	0.056

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	MEAN DAILY TEMPERATURE FOR FARO, YT (°C)	DAILY DISCHARGE AT V8 (m³/sec)	NFR (mg/L)	HARDNESS (asCaCO3) (mg/L)	(Extr.) TOTAL HARDNESS (mg/L)	ICP Extr. Ag (mg/L)	GF Extr. Ag (mg/L)
V1	05/05/93	7.6	1.01	<	49.2	49.4	<	<
V1	05/06/93	8.1	1.27	40	46.6	47.1	<	<
V1	05/07/93	5.3	1.36	<	45.4	45.7	<	<
V1	05/08/93	3.7	1.25	<	48.0	48.3	<	<
V1	05/09/93	3.4	1.18	<	50.0	50.4	<	<
V1	05/10/93	4.8	1.14	40	50.2	50.6	<	<
V1	05/11/93	5.4	1.25	<	48.8	49.2	<	<
V1	05/12/93	7.5	1.42	40	46.6	47.0	<	<
V1	05/13/93	10.6	1.75	40	41.6	42.1	<	<
V1	05/14/93	11.5	2.42	<	33.8	34.7	<	<
V1	05/15/93	17.0	3.34	<	24.8	26.2	<	<
V1	05/16/93	14.7	4.27	<	16.7	17.4	<	<
V1	05/17/93	11.4	7.37	40	11.7	13.0	<	<
V1	05/18/93	6.8	10.60	80	10.2	13.4	<	<
V1	05/19/93	7.1	4.32	40	13.9	14.5	<	<
V1	05/20/93	7.4	3.68	40	15.4	15.9	<	<
V1	05/21/93	10.6	3.29	<	16.1	16.7	<	<
V1	05/22/93	8.9	3.05	40	16.8	17.4	<	<
V1	05/23/93	12.0	3.12	20	13.4	14.3	<	<
V1	05/24/93	9.6	3.54	20	11.2	12.0	<	<
V1	05/25/93	11.2	3.25	20	11.7	12.2	<	<
V1	05/26/93	16.2	3.40	20	10.7	11.5	<	<
V1	05/27/93	12.7	3.53	20	10.5	11.3	<	<
V1	05/28/93	7.6	5.73	20	9.8	11.8	<	<
V1	05/29/93	8.7	6.87	40	11.7	12.3	<	<
V1	05/30/93	10.2	5.51	40	12.1	12.2	<	<
V1	05/31/93	10.8	4.98	40	11.8	12.3	<	<
V1	06/01/93	12.8	4.49	20	11.9	12.4	<	<
V1	06/02/93	14.8	4.45	20	10.7	11.1	<	<
V1	06/03/93	15.2	4.19	20	11.3	11.6	<	<
V1	06/04/93	15.4	4.00	20	11.3	11.6	<	<
V1	06/05/93	14.8	3.98	20	10.6	10.9	<	<
V1	06/06/93	12.7	3.67	20	11.3	11.7	<	<
V1	06/07/93	11.9	3.57	20	12.0	12.3	<	<
V1	06/08/93	11.7	2.92	100	13.9	14.2	<	<
BLANK#1(V1)				20	20.9	20.9	<	<
BLANK #2(V1)				20	0.4	0.4	<	<

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	MEAN DAILY TEMPERATURE FOR FARO, YT (°C)	DAILY DISCHARGE AT V8 (m ³ /sec)	NFR (mg/L)	(Extr.) HARDNESS (asCaCO3) (mg/L)	(Extr.) TOTAL HARDNESS (mg/L)	ICP Extr. Ag (mg/L)	GF Extr. Ag (mg/L)
EP1	05/05/93	7.6	1.01	480	105.0	152.0	< 0.01	< 0.0005
EP1	05/06/93	8.1	1.27	880	122.0	201.0	< 0.01	< 0.0005
EP1	05/07/93	5.3	1.36	300	87.9	118.0	< 0.01	< 0.0005
EP1	05/08/93	3.7	1.25	120	81.5	98.3	< 0.01	< 0.0005
EP1	05/09/93	3.4	1.18	100	78.1	89.4	< 0.01	< 0.0005
EP1	05/10/93	4.8	1.14	140	75.8	86.2	< 0.01	< 0.0005
EP1	05/11/93	5.4	1.25	360	84.2	114.0	< 0.01	< 0.0005
EP1	05/12/93	7.5	1.42	400	85.4	123.0	< 0.01	< 0.0005
EP1	05/13/93	10.6	1.75	540	92.4	152.0	< 0.01	< 0.0005
EP1	05/14/93	11.5	2.42	300	59.3	76.4	< 0.01	< 0.0005
EP1	05/17/93	11.4	7.37	1330	130.0	296.0	< 0.01	< 0.0005
EP1	05/18/93	6.8	10.60	800	72.1	159.0	< 0.01	< 0.0005
EP1	05/19/93	7.1	4.32	350	63.8	109.0	< 0.01	< 0.0005
EP1	05/20/93	7.4	3.68	240	59.1	90.1	< 0.01	< 0.0005
EP1	05/21/93	10.6	3.29	240	52.2	75.2	< 0.01	< 0.0005
EP1	05/22/93	8.9	3.05	140	42.2	56.6	< 0.01	< 0.0005
EP1	05/23/93	12.0	3.12	60	31.3	39.0	< 0.01	< 0.0005
EP1	05/24/93	9.6	3.54	20	18.9	23.5	< 0.01	< 0.0005
EP1	05/25/93	11.2	3.25	20	20.1	24.0	< 0.01	< 0.0005
EP1	05/26/93	16.2	3.40	20	18.6	24.0	< 0.01	< 0.0005
EP1	05/27/93	12.7	3.53	20	16.2	18.7	< 0.01	< 0.0005
EP1	05/28/93	7.6	5.73	870	86.5	183.0	< 0.01	< 0.0005
EP1	05/29/93	8.7	6.87	250	45.5	77.3	< 0.01	< 0.0005
EP1	05/30/93	10.2	5.51	200	50.1	79.8	< 0.01	< 0.0005
EP1	05/31/93	10.8	4.98	400	53.0	84.4	< 0.01	< 0.0005
EP1	06/01/93	12.8	4.49	120	31.2	40.1	< 0.01	< 0.0005
EP1	06/02/93	14.8	4.45	200	34.5	49.2	< 0.01	< 0.0005
BLANK #1(EP1)	05/05/93			< 20	20.7	20.9	< 0.01	< 0.0005
BLANK #2(EP1)	06/02/93			< 20	15.4	15.4	< 0.01	< 0.0005

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	MEAN DAILY TEMPERATURE FOR FARQ, YT (°C)	DAILY DISCHARGE AT V8 (m³/sec)	NFR (mg/L)	(Extr.) HARDNESS (asCaCO3) (mg/L)	(Extr.) TOTAL HARDNESS (mg/L)	ICP Extr. Ag (mg/L)	GF Extr. Ag (mg/L)
V8	05/07/93	5.3	1.36	60	161.0	171.0	< 0.01	< 0.0005
V8	05/07/93	5.3	1.36	120	162.0	173.0	< 0.01	< 0.0005
V8	05/08/93	3.7	1.25	80	169.0	178.0	< 0.01	< 0.0005
V8	05/09/93	3.4	1.18	80	181.0	182.0	< 0.01	< 0.0005
V8	05/10/93	4.8	1.14	120	180.0	196.0	< 0.01	< 0.0005
V8	05/11/93	5.4	1.25	200	176.0	203.0	< 0.01	< 0.0005
V8	05/12/93	7.5	1.42	240	173.0	208.0	< 0.01	< 0.0005
V8	05/13/93	10.6	1.75	400	168.0	223.0	< 0.01	< 0.0005
V8	05/14/93	11.5	2.42	850	184.0	287.0	< 0.01	< 0.0005
V8	05/15/93	17.0	3.34	750	165.0	262.0	< 0.01	< 0.0005
V8	05/16/93	14.7	4.27	730	144.0	224.0	< 0.01	< 0.0005
V8	05/17/93	11.4	7.37	1800	223.0	424.0	< 0.01	< 0.0005
V8	05/19/93	7.1	4.32	400	123.0	160.0	< 0.01	< 0.0005
V8	05/20/93	7.4	3.68	200	111.0	130.0	< 0.01	< 0.0005
V8	05/21/93	10.6	3.29	80	106.0	107.0	< 0.01	< 0.0005
V8	05/22/93	8.9	3.05	40	111.0	120.0	< 0.01	< 0.0005
V8	05/23/93	12.0	3.12	80	102.0	103.0	< 0.01	< 0.0005
V8	05/24/93	9.6	3.54	80	87.1	96.6	< 0.01	< 0.0005
V8	05/25/93	11.2	3.25	40	88.7	94.4	< 0.01	< 0.0005
BLANK #1(V8)	05/07/93			<	20.6	20.6	< 0.01	< 0.0005
BLANK #2(V8)	05/25/93			<	15.4	15.7	< 0.01	< 0.0005

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	MEAN DAILY TEMPERATURE FOR FARO, YT (°C)	DAILY DISCHARGE AT V8 (m³/sec)	NFR (mg/L)	(Extr.) HARDNESS (asCaCO3) (mg/L)	(Extr.) TOTAL HARDNESS (mg/L)	ICP Extr. Ag (mg/L)	GF Extr. Ag (mg/L)
EP2	05/07/93	5.3	1.36	20	110.0	113.0	< 0.01	< 0.0005
EP2	05/08/93	3.7	1.25	<	110.0	112.0	< 0.01	< 0.0005
EP2	05/09/93	3.4	1.18	<	108.0	110.0	< 0.01	< 0.0005
EP2	05/10/93	4.8	1.14	<	105.0	107.0	< 0.01	< 0.0005
EP2	05/11/93	5.4	1.25	<	101.0	102.0	< 0.01	< 0.0005
EP2	05/12/93	7.5	1.42	<	58.8	60.1	< 0.03	< 0.0005
EP2	05/13/93	10.6	1.75	<	102.0	104.0	< 0.01	< 0.0005
EP2	05/14/93	11.5	2.42	3600	249.0	762.0	< 0.10	0.0014
EP2	05/15/93	17.0	3.34	5400	407.0	1350.0	< 0.10	0.0017
EP2	05/16/93	14.7	4.27	5200	281.0	737.0	< 0.10	0.0015
EP2	05/17/93	11.4	7.37	950	239.0	430.0	< 0.10	< 0.0005
EP2	05/18/93	6.8	10.60	500	219.0	344.0	< 0.10	< 0.0005
EP2	05/19/93	7.1	4.32	1000	180.0	367.0	< 0.10	< 0.0005
EP2	05/19/93	7.1	4.32	1800	150.0	451.0	< 0.10	0.0006
EP2	05/20/93	7.4	3.68	700	93.0	213.0	< 0.10	0.0005
EP2	05/21/93	10.6	3.29	500	81.0	155.0	< 0.01	< 0.0005
EP2	05/22/93	8.9	3.05	240	71.1	103.0	< 0.01	< 0.0005
EP2	05/23/93	12.0	3.12	160	72.9	99.1	< 0.01	< 0.0005
EP2	05/24/93	9.6	3.54	120	67.0	72.3	< 0.01	< 0.0005
EP2	05/25/93	11.2	3.25	140	73.5	96.3	< 0.01	< 0.0005
EP2	05/26/93	16.2	3.40	170	76.6	108.0	< 0.01	< 0.0005
EP2	05/27/93	12.7	3.53	100	73.4	86.5	< 0.01	< 0.0005
EP2	05/28/93	7.6	5.73	1600	165.0	402.0	< 0.10	< 0.0005
EP2	05/29/93	8.7	6.87	1800	178.0	481.0	< 0.10	0.0007
EP2	05/30/93	10.2	5.51	250	73.5	107.0	< 0.01	< 0.0005
EP2	05/31/93	10.8	4.98	230	76.4	121.0	< 0.04	< 0.0005
EP2	06/01/93	12.8	4.49	100	78.5	88.7	< 0.01	< 0.0005
EP2	06/02/93	14.8	4.45	80	78.0	82.4	< 0.01	< 0.0005
EP2	06/03/93	15.2	4.19	200	89.8	119.0	< 0.01	< 0.0005
EP2	06/04/93	15.4	4.00	160	81.4	102.0	< 0.01	< 0.0005
EP2	06/05/93	14.8	3.98	80	79.4	89.6	< 0.01	< 0.0005
EP2	06/06/93	12.7	3.67	60	78.4	80.1	< 0.01	< 0.0005
EP2	06/07/93	11.9	3.57	60	83.5	93.8	< 0.01	< 0.0005
EP2	06/08/93	11.7	2.92	115	84.4	90.0	< 0.01	< 0.0005
BLANK #1(EP2)	05/07/93			<	20.8	20.8	< 0.01	< 0.0005
BLANK #2(EP2)	06/08/93			<	15.4	15.5	< 0.01	< 0.0005

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

LOCATION	DATE	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Ca (mg/L)	Cd (mg/L)
V1	05/05/93	< 0.05	< 0.05	< 0.01	0.038	< 0.001	16.1	< 0.005
V1	05/06/93	0.06	< 0.05	< 0.01	0.038	< 0.001	15.3	< 0.005
V1	05/07/93	< 0.05	< 0.05	< 0.01	0.034	< 0.001	14.9	< 0.005
V1	05/08/93	< 0.05	< 0.05	< 0.01	0.035	< 0.001	15.8	< 0.005
V1	05/09/93	< 0.05	< 0.05	< 0.01	0.041	< 0.001	15.8	< 0.005
V1	05/10/93	< 0.05	< 0.05	< 0.01	0.041	< 0.001	15.9	< 0.005
V1	05/11/93	< 0.05	< 0.05	< 0.01	0.039	< 0.001	15.6	< 0.005
V1	05/12/93	< 0.05	< 0.05	< 0.01	0.037	< 0.001	14.9	< 0.005
V1	05/13/93	0.05	< 0.05	< 0.01	0.033	< 0.001	13.3	< 0.005
V1	05/14/93	0.13	< 0.05	< 0.01	0.034	< 0.001	10.8	< 0.005
V1	05/15/93	0.18	< 0.05	< 0.01	0.027	< 0.001	7.8	< 0.005
V1	05/16/93	0.10	< 0.05	< 0.01	0.020	< 0.001	5.2	< 0.005
V1	05/17/93	0.18	< 0.05	< 0.01	0.017	< 0.001	3.6	< 0.005
V1	05/18/93	0.50	< 0.05	< 0.01	0.021	< 0.001	3.1	< 0.005
V1	05/19/93	0.10	< 0.05	< 0.01	0.019	< 0.001	4.4	< 0.005
V1	05/20/93	0.07	< 0.05	< 0.01	0.016	< 0.001	4.9	< 0.005
V1	05/21/93	0.07	< 0.05	< 0.01	0.017	< 0.001	5.2	< 0.005
V1	05/22/93	0.06	< 0.05	< 0.01	0.017	< 0.001	5.4	< 0.005
V1	05/23/93	0.12	< 0.05	< 0.01	0.015	< 0.001	4.3	< 0.005
V1	05/24/93	0.10	< 0.05	< 0.01	0.013	< 0.001	3.6	< 0.005
V1	05/25/93	0.07	< 0.05	< 0.01	0.013	< 0.001	3.8	< 0.005
V1	05/26/93	0.09	< 0.05	< 0.01	0.014	0.002	3.4	< 0.005
V1	05/27/93	0.13	< 0.05	< 0.01	0.015	0.003	3.4	< 0.005
V1	05/28/93	0.30	< 0.05	< 0.01	0.018	0.005	3.1	0.008
V1	05/29/93	0.09	< 0.05	< 0.01	0.017	< 0.001	3.8	0.011
V1	05/30/93	< 0.05	< 0.05	< 0.01	0.011	< 0.001	4.0	< 0.005
V1	05/31/93	0.09	< 0.05	< 0.01	0.010	< 0.001	3.8	< 0.005
V1	06/01/93	0.09	< 0.05	< 0.01	0.011	< 0.001	3.9	< 0.005
V1	06/02/93	0.06	< 0.05	< 0.01	0.011	< 0.001	3.5	< 0.005
V1	06/03/93	0.06	< 0.05	< 0.01	0.013	< 0.001	3.7	< 0.005
V1	06/04/93	0.05	< 0.05	< 0.01	0.013	< 0.001	3.6	< 0.005
V1	06/05/93	0.05	< 0.05	< 0.01	0.012	< 0.001	3.5	< 0.005
V1	06/06/93	0.08	< 0.05	< 0.01	0.014	0.001	3.6	< 0.005
V1	06/07/93	0.07	< 0.05	< 0.01	0.012	0.001	3.9	< 0.005
V1	06/08/93	< 0.05	< 0.05	< 0.01	0.014	< 0.001	4.5	< 0.005
BLANK#1(V1)	<	< 0.05	< 0.05	< 0.01	0.005	< 0.001	5.0	< 0.005
BLANK #2(V1)	<	< 0.05	< 0.05	< 0.01	0.001	< 0.001	0.1	< 0.005

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Ca (mg/L)	Cd (mg/L)
EP1	05/05/93	6.43	< 0.05	0.02	0.782	< 0.001	29.5	< 0.005
EP1	05/06/93	10.80	< 0.05	0.03	1.210	< 0.001	32.3	0.005
EP1	05/07/93	4.36	< 0.05	< 0.01	0.398	< 0.001	25.1	< 0.005
EP1	05/08/93	2.43	< 0.05	< 0.01	0.220	< 0.001	24.2	< 0.005
EP1	05/09/93	1.62	< 0.05	< 0.01	0.146	< 0.001	23.7	< 0.005
EP1	05/10/93	1.50	< 0.05	< 0.01	0.134	< 0.001	23.2	< 0.005
EP1	05/11/93	4.19	< 0.05	0.02	0.471	< 0.001	24.5	< 0.005
EP1	05/12/93	5.24	< 0.05	0.02	0.534	< 0.001	24.3	< 0.005
EP1	05/13/93	8.22	< 0.05	0.02	0.872	< 0.001	24.9	< 0.005
EP1	05/14/93	2.51	< 0.05	0.01	0.224	< 0.001	17.7	< 0.010
EP1	05/17/93	26.00	< 0.05	0.07	0.842	< 0.001	24.9	< 0.010
EP1	05/18/93	13.80	< 0.05	0.03	0.386	< 0.001	14.6	< 0.005
EP1	05/19/93	7.09	< 0.05	0.02	0.190	< 0.001	14.4	< 0.005
EP1	05/20/93	4.78	< 0.05	0.01	0.144	< 0.001	14.8	< 0.005
EP1	05/21/93	3.57	< 0.05	0.01	0.115	< 0.001	13.7	< 0.005
EP1	05/22/93	2.25	< 0.05	0.01	0.085	< 0.001	11.8	< 0.005
EP1	05/23/93	1.18	< 0.05	0.01	0.050	< 0.001	9.2	< 0.005
EP1	05/24/93	0.70	< 0.05	0.01	0.038	< 0.001	5.6	< 0.005
EP1	05/25/93	0.60	< 0.05	0.01	0.030	< 0.001	6.0	< 0.005
EP1	05/26/93	0.84	< 0.05	0.01	0.030	< 0.001	5.4	< 0.005
EP1	05/27/93	0.38	< 0.05	0.01	0.023	< 0.001	5.0	< 0.005
EP1	05/28/93	13.40	< 0.05	0.04	1.080	< 0.001	18.5	0.011
EP1	05/29/93	4.99	< 0.05	0.01	0.157	< 0.001	10.7	< 0.005
EP1	05/30/93	4.61	< 0.05	0.01	0.136	< 0.001	12.5	< 0.005
EP1	05/31/93	4.74	< 0.05	0.01	0.194	< 0.001	13.9	< 0.005
EP1	06/01/93	1.36	< 0.05	0.01	0.068	< 0.001	9.5	< 0.005
EP1	06/02/93	2.22	< 0.05	0.01	0.126	< 0.001	10.0	< 0.005
BLANK #1(EP1)	05/05/93	< 0.05	< 0.05	< 0.01	0.006	< 0.001	4.9	< 0.005
BLANK #2(EP1)	06/02/93	< 0.05	< 0.05	< 0.01	0.004	< 0.001	3.0	< 0.005

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Ca (mg/L)	Cd (mg/L)
V8	05/07/93	1.51	< 0.05	0.01	0.104	0.001	39.4	< 0.005
V8	05/07/93	1.79	< 0.05	0.01	0.113	0.001	39.5	< 0.005
V8	05/08/93	1.45	< 0.05	0.01	0.100	0.001	41.4	< 0.005
V8	05/09/93	<	< 0.05	0.01	0.068	0.002	45.0	< 0.005
V8	05/10/93	2.51	< 0.05	0.01	0.122	0.001	43.7	< 0.005
V8	05/11/93	4.24	< 0.05	0.01	0.175	<	42.4	< 0.005
V8	05/12/93	5.56	< 0.05	0.02	0.233	0.001	41.3	< 0.005
V8	05/13/93	8.40	< 0.05	0.02	0.377	0.001	39.7	< 0.005
V8	05/14/93	16.00	< 0.05	0.04	0.572	0.001	40.9	0.007
V8	05/15/93	15.00	< 0.05	0.04	0.564	0.001	36.7	0.007
V8	05/16/93	12.10	< 0.05	0.03	0.460	0.001	32.7	0.006
V8	05/17/93	29.50	< 0.05	0.08	1.190	<	46.9	0.012
V8	05/19/93	5.57	< 0.05	0.01	0.186	0.001	29.7	0.005
V8	05/20/93	2.94	< 0.05	0.01	0.108	0.001	27.4	< 0.005
V8	05/21/93	0.09	< 0.05	0.01	0.047	0.001	27.8	< 0.005
V8	05/22/93	1.39	< 0.05	0.01	0.076	0.001	28.0	< 0.005
V8	05/23/93	0.08	< 0.05	0.01	0.046	0.001	26.7	< 0.005
V8	05/24/93	1.42	< 0.05	0.01	0.075	0.001	22.0	< 0.005
V8	05/25/93	0.84	< 0.05	0.01	0.054	0.001	22.6	< 0.005
BLANK #1(V8)	05/07/93	<	< 0.05	<	0.006	0.001	4.8	< 0.005
BLANK #2(V8)	05/25/93	<	< 0.05	<	0.005	0.001	2.9	< 0.005

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Ca (mg/L)	Cd (mg/L)
EP2	05/07/93	0.17	< 0.05	< 0.01	0.133	0.001	34.2	< 0.005
EP2	05/08/93	0.09	< 0.05	< 0.01	0.126	0.001	34.2	< 0.005
EP2	05/09/93	0.08	< 0.05	< 0.01	0.120	0.001	33.8	< 0.005
EP2	05/10/93	0.08	< 0.05	< 0.01	0.113	0.001	33.1	< 0.005
EP2	05/11/93	0.05	< 0.05	< 0.01	0.106	0.001	31.8	< 0.005
EP2	05/12/93	<	< 0.2	< 0.03	0.112	< 0.003	19.0	< 0.020
EP2	05/13/93	0.05	< 0.05	< 0.01	0.109	0.001	32.5	< 0.005
EP2	05/14/93	82.70	< 0.5	0.50	1.430	< 0.010	37.0	< 0.050
EP2	05/15/93	149.00	< 0.5	1.30	2.180	< 0.010	46.0	< 0.050
EP2	05/16/93	70.80	< 0.5	0.60	1.200	< 0.010	51.0	< 0.050
EP2	05/17/93	30.30	< 0.5	0.40	0.680	< 0.010	42.0	< 0.050
EP2	05/18/93	20.10	< 0.5	0.20	0.520	< 0.010	59.0	< 0.050
EP2	05/19/93	30.30	< 0.5	0.40	0.590	< 0.010	42.0	< 0.050
EP2	05/19/93	48.50	< 0.5	1.00	0.810	< 0.010	22.0	< 0.050
EP2	05/20/93	20.10	< 0.5	0.40	0.350	< 0.010	20.0	< 0.050
EP2	05/21/93	12.90	< 0.5	0.30	0.240	< 0.010	20.0	< 0.050
EP2	05/22/93	5.46	< 0.05	0.01	0.141	< 0.001	19.6	< 0.005
EP2	05/23/93	4.53	< 0.05	0.01	0.138	0.001	20.7	< 0.005
EP2	05/24/93	0.83	< 0.05	0.01	0.079	< 0.001	20.3	< 0.005
EP2	05/25/93	3.88	< 0.05	0.01	0.125	0.001	21.1	< 0.005
EP2	05/26/93	5.43	< 0.05	0.02	0.158	0.001	21.7	< 0.005
EP2	05/27/93	2.20	< 0.05	< 0.01	0.106	0.001	21.9	< 0.005
EP2	05/28/93	38.70	< 0.5	0.30	1.000	< 0.010	35.0	< 0.050
EP2	05/29/93	48.90	< 0.5	0.40	1.430	< 0.010	33.0	< 0.050
EP2	05/30/93	5.62	< 0.05	0.01	0.194	< 0.001	20.3	< 0.005
EP2	05/31/93	7.89	< 0.2	0.04	0.240	< 0.004	21.0	< 0.020
EP2	06/01/93	1.69	< 0.05	< 0.01	0.116	< 0.001	24.0	< 0.005
EP2	06/02/93	0.71	< 0.05	0.01	0.096	0.001	24.3	< 0.005
EP2	06/03/93	4.91	< 0.05	0.02	0.204	0.001	26.4	< 0.005
EP2	06/04/93	3.49	< 0.05	0.01	0.176	0.001	24.1	< 0.005
EP2	06/05/93	1.75	< 0.05	0.01	0.120	< 0.001	24.1	< 0.005
EP2	06/06/93	0.24	< 0.05	0.01	0.085	0.001	24.3	< 0.005
EP2	06/07/93	1.72	< 0.05	0.01	0.122	0.001	25.5	< 0.005
EP2	06/08/93	0.80	< 0.05	0.01	0.105	0.001	26.1	< 0.006
BLANK #1(EP2)	05/07/93	< 0.05	< 0.05	< 0.01	0.005	< 0.001	5.1	< 0.005
BLANK #2(EP2)	06/08/93	< 0.05	< 0.05	< 0.01	0.004	< 0.001	3.1	< 0.005

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	GF Extr.		ICP Extr.		ICP Extr.		GF Extr.		ICP Extr.		ICP Extr.	
		Cd (mg/L)	Co (mg/L)	Cr (mg/L)	Cu (mg/L)	Cu (mg/L)	Cu (mg/L)	Fe (mg/L)	K (mg/L)				
V1	05/05/93	0.0005	<	0.005	<	0.005	<	0.0020	0.035	0.68			
V1	05/06/93	0.0004	<	0.005	<	0.012	<	0.0026	0.062	0.70			
V1	05/07/93	0.0002	<	0.005	<	0.005	<	0.0021	0.077	0.71			
V1	05/08/93	0.0003	<	0.005	<	0.005	<	0.0014	0.080	0.73			
V1	05/09/93	0.0002	<	0.005	<	0.005	<	0.0013	0.072	0.85			
V1	05/10/93	0.0002	<	0.005	<	0.007	<	0.0010	0.067	0.94			
V1	05/11/93	0.0004	<	0.005	<	0.005	<	0.0014	0.072	1.07			
V1	05/12/93	0.0004	<	0.007	<	0.005	<	0.0013	0.082	1.09			
V1	05/13/93	0.0005	<	0.005	<	0.005	<	0.0017	0.113	1.14			
V1	05/14/93	0.0009	<	0.005	<	0.006	<	0.0015	0.187	1.31			
V1	05/15/93	0.0009	<	0.005	<	0.010	<	0.0014	0.347	1.63			
V1	05/16/93	0.0005	<	0.005	<	0.005	<	0.0009	0.171	1.57			
V1	05/17/93	0.0002	<	0.007	<	0.005	<	0.0010	0.291	1.24			
V1	05/18/93	0.0002	<	0.005	<	0.005	<	0.0014	0.722	1.11			
V1	05/19/93	0.0001	<	0.005	<	0.005	<	0.0007	0.117	0.94			
V1	05/20/93	0.0003	<	0.005	<	0.017	<	0.0007	0.094	0.83			
V1	05/21/93	0.0002	<	0.005	<	0.011	<	0.0030	0.146	0.73			
V1	05/22/93	0.0001	<	0.005	<	0.005	<	0.0021	0.126	0.69			
V1	05/23/93	0.0001	<	0.005	<	0.020	<	0.0007	0.243	0.60			
V1	05/24/93	0.0001	<	0.005	<	0.013	<	0.0010	0.179	0.56			
V1	05/25/93	0.0002	<	0.005	<	0.016	<	0.0010	0.113	0.48			
V1	05/26/93	0.0004	<	0.005	<	0.005	<	0.0038	0.199	0.43			
V1	05/27/93	0.0003	<	0.008	<	0.008	<	0.0005	0.159	0.40			
V1	05/28/93	0.0001	<	0.006	<	0.005	<	0.0008	0.426	0.43			
V1	05/29/93	0.0001	<	0.010	<	0.016	<	0.0008	0.102	0.39			
V1	05/30/93	0.0001	<	0.005	<	0.005	<	0.0005	0.005	0.35			
V1	05/31/93	0.0003	<	0.005	<	0.005	<	0.0006	0.072	0.33			
V1	06/01/93	0.0002	<	0.005	<	0.005	<	0.0005	0.049	0.36			
V1	06/02/93	0.0002	<	0.005	<	0.008	<	0.0010	0.053	0.30			
V1	06/03/93	0.0004	<	0.005	<	0.005	<	0.0005	0.053	0.30			
V1	06/04/93	0.0004	<	0.005	<	0.010	<	0.0014	0.046	0.30			
V1	06/05/93	0.0004	<	0.005	<	0.008	<	0.0005	0.028	0.26			
V1	06/06/93	0.0003	<	0.005	<	0.005	<	0.0006	0.047	0.26			
V1	06/07/93	0.0003	<	0.005	<	0.005	<	0.0005	0.018	0.25			
V1	06/08/93	0.0001	<	0.005	<	0.007	<	0.0005	0.024	0.32			
BLANK#1(V1)		0.0001	<	0.005	<	0.005	<	0.0042	0.005	1.26			
BLANK #2(V1)		0.0001	<	0.005	<	0.005	<	0.0012	0.005	0.05			

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

LOCATION	DATE	GF Extr.	ICP Extr.	ICP Extr.	ICP Extr.	GF Extr.	ICP Extr.	ICP Extr.	ICP Extr.
		Cd (mg/L)	Co (mg/L)	Cr (mg/L)	Cu (mg/L)	Cu (mg/L)	Fe (mg/L)	K (mg/L)	
EP1	05/05/93	0.0014	0.009	0.030	0.010	0.0218	11.800	2.14	
EP1	05/06/93	0.0014	0.013	0.039	0.024	(see ICP)	19.700	3.06	
EP1	05/07/93	0.0006	<	0.019	<	0.0142	7.200	1.58	
EP1	05/08/93	0.0006	<	0.015	<	0.0081	3.960	1.28	
EP1	05/09/93	0.0006	<	0.013	<	0.0065	2.610	1.12	
EP1	05/10/93	0.0005	<	0.005	<	0.0060	2.370	1.14	
EP1	05/11/93	0.0007	<	0.019	<	0.0134	7.440	1.88	
EP1	05/12/93	0.0007	<	0.019	<	0.0167	9.110	2.02	
EP1	05/13/93	0.0010	0.008	0.023	0.015	0.0257	14.800	2.68	
EP1	05/14/93	0.0005	0.006	0.015	<	0.0078	3.980	1.50	
EP1	05/17/93	0.0012	0.026	0.105	0.080	(see ICP)	37.300	3.73	
EP1	05/18/93	0.0006	0.014	0.050	0.043	(see ICP)	18.800	2.36	
EP1	05/19/93	0.0004	0.008	0.042	0.006	0.0186	9.960	1.65	
EP1	05/20/93	0.0003	0.011	0.032	<	0.0135	7.080	1.35	
EP1	05/21/93	0.0003	0.009	0.024	<	0.0120	5.170	1.11	
EP1	05/22/93	0.0002	0.008	0.009	<	0.0079	3.200	0.93	
EP1	05/23/93	0.0001	<	0.007	<	0.0053	1.720	0.73	
EP1	05/24/93	<	0.005	0.011	<	0.0045	1.060	0.62	
EP1	05/25/93	0.0001	<	0.009	<	0.0050	0.843	0.58	
EP1	05/26/93	<	0.005	0.017	<	0.0037	1.180	0.52	
EP1	05/27/93	<	0.005	0.012	<	0.0038	0.535	0.48	
EP1	05/28/93	0.0021	0.021	0.069	0.068	(see ICP)	24.400	2.07	
EP1	05/29/93	0.0004	<	0.041	0.022	(see ICP)	7.010	1.00	
EP1	05/30/93	0.0004	0.005	0.041	0.020	(see ICP)	6.640	0.95	
EP1	05/31/93	0.0003	<	0.033	0.022	(see ICP)	7.250	0.95	
EP1	06/01/93	0.0001	<	0.017	0.011	0.0079	2.010	0.55	
EP1	06/02/93	0.0003	<	0.014	0.010	0.0075	3.290	0.68	
BLANK #1(EP1)	05/05/93	<	0.005	0.006	<	0.0032	0.029	1.29	
BLANK #2(EP1)	06/02/93	<	0.005	0.005	<	0.0007	<	0.005	0.27

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	GF Extr.		ICP Extr.		ICP Extr.		ICP Extr.		ICP Extr.	
		Cd (mg/L)	Co (mg/L)	Cr (mg/L)	Cu (mg/L)	Cu (mg/L)	Fe (mg/L)	K (mg/L)			
V8	05/07/93	0.0001	<	0.009	0.010	0.0053	2.220	1.30			
V8	05/07/93	0.0002	0.005	0.006	0.010	0.0065	2.650	1.40			
V8	05/08/93	0.0001	0.005	0.010	0.011	0.0052	2.070	1.34			
V8	05/09/93	<	0.005	<	0.007	0.0022	0.025	1.22			
V8	05/10/93	<	0.005	0.011	0.013	0.0076	3.510	1.40			
V8	05/11/93	0.0001	0.005	0.010	0.016	0.0119	5.970	1.58			
V8	05/12/93	0.0002	0.005	0.023	0.021	(see ICP)	7.900	1.70			
V8	05/13/93	0.0004	0.006	0.024	0.026	(see ICP)	12.100	2.00			
V8	05/14/93	0.0008	0.012	0.060	0.074	(see ICP)	22.800	2.61			
V8	05/15/93	0.0007	0.010	0.062	0.056	(see ICP)	21.900	2.65			
V8	05/16/93	0.0006	0.014	0.052	0.046	(see ICP)	18.200	2.43			
V8	05/17/93	0.0018	0.035	0.100	0.112	(see ICP)	48.000	4.13			
V8	05/19/93	0.0003	0.005	0.020	0.019	0.0172	8.590	1.52			
V8	05/20/93	0.0002	0.005	0.021	0.011	0.0087	4.350	1.22			
V8	05/21/93	0.0001	0.005	0.005	0.005	0.0023	0.068	0.96			
V8	05/22/93	0.0002	0.005	0.005	0.008	0.0052	2.050	0.97			
V8	05/23/93	<	0.005	0.005	0.005	0.0013	0.060	0.84			
V8	05/24/93	<	0.005	0.005	0.007	0.0040	2.150	0.85			
V8	05/25/93	<	0.005	0.005	0.005	0.0028	1.290	0.74			
BLANK #1(V8)	05/07/93	0.0001	0.005	0.005	0.005	0.0027	0.005	1.32			
BLANK #2(V8)	05/25/93	0.0002	0.005	0.005	0.005	0.0013	0.033	0.30			

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	GF Extr.		ICP Extr.		ICP Extr.		GF Extr.		ICP Extr.		ICP Extr.	
		Cd (mg/L)	Co (mg/L)	Cr (mg/L)	Cu (mg/L)	Cu (mg/L)	Cu (mg/L)	Fe (mg/L)	K (mg/L)				
EP2	05/07/93	0.0026	< 0.005	< 0.005	0.011	0.0067	0.461	1.50					
EP2	05/08/93	0.0025	< 0.005	< 0.005	0.008	0.0063	0.243	1.50					
EP2	05/09/93	0.0026	< 0.005	< 0.005	0.009	0.0081	0.380	1.40					
EP2	05/10/93	0.0025	< 0.005	< 0.005	0.008	0.0069	0.266	1.30					
EP2	05/11/93	0.0027	< 0.005	< 0.005	0.010	0.0058	0.093	1.30					
EP2	05/12/93	0.0027	< 0.020	< 0.020	0.020	0.0045	0.072	1.00					
EP2	05/13/93	0.0033	< 0.005	< 0.005	0.007	0.0056	0.371	1.30					
EP2	05/14/93	0.0042	0.060	0.150	0.680	(see ICP)	110.000	7.00					
EP2	05/15/93	0.0044	0.120	0.330	0.770	(see ICP)	209.000	11.00					
EP2	05/16/93	0.0023	0.080	0.160	0.410	(see ICP)	105.000	8.00					
EP2	05/17/93	0.0016	< 0.050	< 0.050	0.280	(see ICP)	41.200	6.00					
EP2	05/18/93	0.0013	< 0.050	< 0.050	0.230	(see ICP)	26.500	4.00					
EP2	05/19/93	0.0008	< 0.050	< 0.070	0.150	0.0930	40.500	4.00					
EP2	05/19/93	0.0008	< 0.050	< 0.090	0.210	(see ICP)	65.300	7.00					
EP2	05/20/93	0.0008	< 0.050	< 0.050	0.090	0.0530	24.700	3.00					
EP2	05/21/93	0.0005	< 0.050	< 0.060	0.080	0.0490	14.100	2.00					
EP2	05/22/93	0.0005	0.009	0.014	0.046	(see ICP)	6.090	1.60					
EP2	05/23/93	0.0007	0.009	0.009	0.048	(see ICP)	4.840	1.50					
EP2	05/24/93	0.0007	< 0.005	< 0.005	0.027	(see ICP)	0.991	1.00					
EP2	05/25/93	0.0008	0.005	0.007	0.044	(see ICP)	4.260	1.40					
EP2	05/26/93	0.0015	0.012	0.006	0.099	(see ICP)	5.900	1.50					
EP2	05/27/93	0.0008	0.006	0.006	0.042	(see ICP)	2.380	1.20					
EP2	05/28/93	0.0023	< 0.050	< 0.050	0.430	(see ICP)	49.000	4.00					
EP2	05/29/93	0.0013	< 0.050	< 0.200	0.280	(see ICP)	65.000	5.00					
EP2	05/30/93	0.0003	0.007	0.006	0.039	(see ICP)	6.720	1.50					
EP2	05/31/93	0.0007	< 0.020	< 0.020	0.060	0.0500	8.070	2.00					
EP2	06/01/93	0.0007	0.009	< 0.005	0.034	(see ICP)	1.890	1.10					
EP2	06/02/93	0.0007	< 0.005	< 0.005	0.032	(see ICP)	0.720	1.00					
EP2	06/03/93	0.0012	0.009	< 0.005	0.100	(see ICP)	5.430	1.50					
EP2	06/04/93	0.0009	< 0.005	< 0.005	0.047	(see ICP)	3.810	1.30					
EP2	06/05/93	0.0010	< 0.005	< 0.005	0.036	(see ICP)	1.800	1.10					
EP2	06/06/93	0.0008	0.006	< 0.005	0.023	(see ICP)	0.232	0.90					
EP2	06/07/93	0.0008	< 0.005	< 0.005	0.046	(see ICP)	1.770	1.10					
EP2	06/08/93	0.0024	0.006	< 0.005	0.043	(see ICP)	1.120	1.00					
BLANK #1 (EP2)	05/07/93	< 0.0001	< 0.005	< 0.005	< 0.005	< 0.0023	< 0.005	< 1.20					
BLANK #2 (EP2)	06/08/93	< 0.0001	< 0.005	< 0.005	< 0.005	< 0.0005	< 0.005	< 0.30					

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	Mg (mg/L)	Mn (mg/L)	Mo (mg/L)	Na (mg/L)	Ni (mg/L)	P (mg/L)	Pb (mg/L)
V1	05/05/93	2.2	<	0.01	2.4	0.02	0.1	<
V1	05/06/93	2.1	0.001	0.01	2.3	0.02	0.1	<
V1	05/07/93	2.0	<	0.01	2.2	0.02	0.1	<
V1	05/08/93	2.1	0.001	0.01	2.3	0.02	0.1	<
V1	05/09/93	2.5	<	0.01	1.9	0.02	0.1	<
V1	05/10/93	2.5	<	0.01	1.9	0.02	0.1	<
V1	05/11/93	2.4	<	0.01	1.8	0.02	0.1	<
V1	05/12/93	2.3	0.002	0.01	1.7	0.02	0.1	<
V1	05/13/93	2.0	0.003	0.01	1.5	0.02	0.1	<
V1	05/14/93	1.7	0.005	0.01	1.2	0.02	0.1	<
V1	05/15/93	1.3	0.013	0.01	1.0	0.02	0.1	<
V1	05/16/93	0.9	0.006	0.01	0.8	0.02	0.1	<
V1	05/17/93	0.6	0.015	0.01	0.6	0.02	0.1	<
V1	05/18/93	0.6	0.031	0.01	0.5	0.02	0.1	<
V1	05/19/93	0.7	0.003	0.01	0.8	0.02	0.1	<
V1	05/20/93	0.8	0.003	0.01	0.9	0.02	0.1	<
V1	05/21/93	0.8	0.008	0.01	1.0	0.02	0.1	<
V1	05/22/93	0.8	0.004	0.01	1.0	0.02	0.1	<
V1	05/23/93	0.7	0.008	0.01	0.8	0.02	0.1	<
V1	05/24/93	0.6	0.007	0.01	0.8	0.02	0.1	<
V1	05/25/93	0.6	0.004	0.01	0.8	0.02	0.1	<
V1	05/26/93	0.5	0.007	0.01	0.7	0.02	0.1	<
V1	05/27/93	0.5	0.014	0.01	0.7	0.02	0.1	<
V1	05/28/93	0.5	0.020	0.01	0.6	0.02	0.1	<
V1	05/29/93	0.6	0.004	0.01	0.7	0.02	0.1	<
V1	05/30/93	0.5	<	0.01	0.8	0.02	0.1	<
V1	05/31/93	0.6	<	0.01	0.8	0.02	0.1	<
V1	06/01/93	0.6	<	0.01	0.8	0.02	0.1	<
V1	06/02/93	0.5	<	0.01	0.8	0.02	0.1	<
V1	06/03/93	0.5	<	0.01	0.8	0.02	0.1	<
V1	06/04/93	0.5	<	0.01	0.8	0.02	0.1	<
V1	06/05/93	0.5	<	0.01	0.8	0.02	0.1	<
V1	06/06/93	0.5	0.002	0.01	0.8	0.02	0.1	<
V1	06/07/93	0.5	<	0.01	0.9	0.02	0.1	<
V1	06/08/93	0.7	<	0.01	0.9	0.02	0.1	<
BLANK#1(V1)		2.1	0.001	0.01	5.2	0.02	0.1	<
BLANK#2(V1)		<	0.001	0.01	0.1	<	<	<

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	Mg (mg/L)	Mn (mg/L)	Mo (mg/L)	Na (mg/L)	Ni (mg/L)	P (mg/L)	Pb (mg/L)
		ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.	ICP Extr.
EP1	05/05/93	7.7	0.301	< 0.01	2.3	0.02	0.3	0.30
EP1	05/06/93	10.0	0.460	< 0.01	2.4	0.04	0.5	0.50
EP1	05/07/93	6.1	0.185	< 0.01	2.1	< 0.02	0.2	0.14
EP1	05/08/93	5.1	0.123	< 0.01	2.0	< 0.02	< 0.1	0.07
EP1	05/09/93	4.6	0.095	< 0.01	2.0	< 0.02	< 0.1	0.05
EP1	05/10/93	4.3	0.085	< 0.01	2.0	< 0.02	0.1	0.06
EP1	05/11/93	5.6	0.186	< 0.01	2.0	< 0.02	0.2	0.19
EP1	05/12/93	6.0	0.218	< 0.01	2.0	< 0.02	0.2	0.22
EP1	05/13/93	7.3	0.350	< 0.01	2.0	0.03	0.4	0.38
EP1	05/14/93	3.7	0.102	< 0.01	1.5	< 0.02	0.1	0.10
EP1	05/17/93	16.5	0.764	< 0.01	1.7	0.09	0.9	0.42
EP1	05/18/93	8.7	0.408	< 0.01	1.3	0.05	0.5	0.22
EP1	05/19/93	6.7	0.199	< 0.01	1.3	0.04	0.3	0.09
EP1	05/20/93	5.4	0.150	< 0.01	1.3	0.02	0.2	0.06
EP1	05/21/93	4.4	0.107	< 0.01	1.2	< 0.02	0.2	0.05
EP1	05/22/93	3.1	0.077	< 0.01	1.2	< 0.02	0.1	< 0.05
EP1	05/23/93	2.0	0.044	< 0.01	1.1	< 0.02	0.1	< 0.05
EP1	05/24/93	1.2	0.034	< 0.01	0.8	< 0.02	< 0.1	< 0.05
EP1	05/25/93	1.2	0.022	< 0.01	0.9	< 0.02	< 0.1	< 0.05
EP1	05/26/93	1.2	0.029	< 0.01	0.8	< 0.02	< 0.1	< 0.05
EP1	05/27/93	0.9	0.018	< 0.01	0.8	< 0.02	0.1	< 0.05
EP1	05/28/93	9.8	0.495	< 0.01	1.3	0.07	0.5	0.74
EP1	05/29/93	4.6	0.143	< 0.01	1.0	0.02	0.2	0.07
EP1	05/30/93	4.6	0.144	< 0.01	1.2	0.02	0.2	0.06
EP1	05/31/93	4.5	0.183	< 0.01	1.1	0.03	0.2	0.12
EP1	06/01/93	1.8	0.065	< 0.01	0.9	< 0.02	0.1	< 0.05
EP1	06/02/93	2.3	0.098	< 0.01	1.0	< 0.02	0.2	0.08
EP1	05/05/93	2.0	0.002	< 0.01	5.2	< 0.02	0.1	< 0.05
BLANK #1(EP1)								
BLANK #2(EP1)		1.9	< 0.001	< 0.01	1.2	< 0.02	0.1	< 0.05

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

LOCATION	DATE	Mg (mg/L)	Mn (mg/L)	Mo (mg/L)	Na (mg/L)	Ni (mg/L)	P (mg/L)	Pb (mg/L)
V8	05/07/93	15.2	0.061	< 0.01	2.1	< 0.02	< 0.1	< 0.05
V8	05/07/93	15.3	0.080	< 0.01	2.1	< 0.02	< 0.1	< 0.05
V8	05/08/93	15.9	0.057	< 0.01	2.2	< 0.02	< 0.1	< 0.05
V8	05/09/93	16.8	<	< 0.01	2.5	< 0.02	< 0.1	< 0.05
V8	05/10/93	17.2	0.075	< 0.01	2.3	< 0.02	< 0.1	< 0.05
V8	05/11/93	17.1	0.129	< 0.01	2.3	< 0.02	< 0.1	0.06
V8	05/12/93	16.9	0.170	< 0.01	2.3	< 0.02	< 0.1	0.11
V8	05/13/93	16.9	0.281	< 0.01	2.3	0.02	0.3	0.19
V8	05/14/93	19.9	0.516	< 0.01	2.3	0.06	0.5	0.26
V8	05/15/93	17.7	0.506	< 0.01	2.1	0.04	0.5	0.22
V8	05/16/93	15.2	0.443	< 0.01	1.9	0.05	0.4	0.22
V8	05/17/93	25.8	1.300	< 0.01	2.4	0.12	1.3	0.73
V8	05/19/93	11.8	0.207	< 0.01	1.7	0.02	0.2	0.06
V8	05/20/93	10.4	0.102	< 0.01	1.6	< 0.02	< 0.1	< 0.05
V8	05/21/93	9.0	< 0.001	< 0.01	1.6	< 0.02	< 0.1	< 0.05
V8	05/22/93	10.0	0.049	< 0.01	1.7	< 0.02	< 0.1	< 0.05
V8	05/23/93	8.6	<	< 0.01	1.6	< 0.02	< 0.1	< 0.05
V8	05/24/93	7.8	0.061	< 0.01	1.5	< 0.02	< 0.1	< 0.05
V8	05/25/93	7.9	0.034	< 0.01	1.5	< 0.02	< 0.1	< 0.05
BLANK #1(V8)	05/07/93	2.1	0.002	< 0.01	5.4	< 0.02	< 0.1	< 0.05
BLANK #2(V8)	05/25/93	2.0	0.002	< 0.01	1.1	< 0.02	< 0.1	< 0.05

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	Mg (mg/L)	Mn (mg/L)	Mo (mg/L)	Na (mg/L)	Ni (mg/L)	P (mg/L)	Pb (mg/L)
EP2	05/07/93	6.0	0.308	< 0.01	2.3	< 0.02	< 0.1	< 0.05
EP2	05/08/93	5.8	0.272	< 0.01	2.3	< 0.02	< 0.1	< 0.05
EP2	05/09/93	5.6	0.268	< 0.01	2.3	< 0.02	< 0.1	< 0.05
EP2	05/10/93	5.4	0.240	< 0.01	2.3	< 0.02	< 0.1	< 0.05
EP2	05/11/93	5.1	0.190	< 0.01	2.2	< 0.02	< 0.1	< 0.05
EP2	05/12/93	3.0	0.110	< 0.03	2.0	< 0.06	< 0.3	< 0.20
EP2	05/13/93	5.1	0.211	< 0.01	2.3	< 0.02	< 0.1	< 0.05
EP2	05/14/93	38.0	1.840	< 0.10	2.0	< 0.20	1.0	0.70
EP2	05/15/93	71.0	3.530	< 0.10	5.0	0.40	3.0	0.80
EP2	05/16/93	37.0	1.660	< 0.10	2.0	< 0.20	2.0	0.60
EP2	05/17/93	20.0	0.640	< 0.10	2.0	< 0.20	1.0	< 0.50
EP2	05/18/93	16.0	0.540	< 0.10	2.0	< 0.20	1.0	< 0.50
EP2	05/19/93	18.0	0.680	< 0.10	5.0	< 0.20	1.0	< 0.50
EP2	05/19/93	22.0	1.090	< 0.10	3.1	< 0.20	1.0	< 0.50
EP2	05/20/93	11.0	0.420	< 0.10	4.0	< 0.20	1.0	< 0.50
EP2	05/21/93	8.0	0.220	< 0.10	2.8	< 0.20	1.0	< 0.50
EP2	05/22/93	5.4	0.114	< 0.01	2.8	< 0.02	0.1	< 0.05
EP2	05/23/93	5.2	0.106	< 0.01	2.8	< 0.02	0.1	< 0.05
EP2	05/24/93	3.9	0.040	< 0.01	2.4	< 0.02	0.1	< 0.05
EP2	05/25/93	5.0	0.088	< 0.01	2.8	< 0.02	0.1	< 0.05
EP2	05/26/93	5.5	0.110	< 0.01	2.9	< 0.02	0.1	0.07
EP2	05/27/93	4.5	0.063	< 0.01	2.6	< 0.02	0.1	< 0.05
EP2	05/28/93	19.0	0.840	< 0.10	5.0	< 0.20	1.0	0.90
EP2	05/29/93	23.0	1.030	< 0.10	6.0	< 0.20	1.0	1.20
EP2	05/30/93	5.5	0.111	< 0.01	2.5	< 0.02	0.1	0.11
EP2	05/31/93	5.7	0.130	< 0.04	3.0	< 0.09	0.4	< 0.20
EP2	06/01/93	4.5	0.050	< 0.01	2.3	< 0.02	0.1	< 0.05
EP2	06/02/93	4.2	0.034	< 0.01	2.4	< 0.02	0.1	< 0.05
EP2	06/03/93	5.8	0.119	< 0.01	2.9	0.02	0.2	0.12
EP2	06/04/93	5.2	0.082	< 0.01	2.9	< 0.02	0.1	0.08
EP2	06/05/93	4.6	0.045	< 0.01	2.8	< 0.02	0.1	< 0.05
EP2	06/06/93	4.3	0.019	< 0.01	2.7	< 0.02	0.1	< 0.05
EP2	06/07/93	4.8	0.055	< 0.01	2.9	< 0.02	0.1	< 0.05
EP2	06/08/93	4.7	0.058	< 0.01	2.8	< 0.02	0.1	< 0.05
BLANK #1(EP2)	05/07/93	1.9	< 0.001	< 0.01	4.8	< 0.02	0.1	< 0.05
BLANK #2(EP2)	06/08/93	1.8	< 0.001	< 0.01	1.1	< 0.02	0.1	< 0.05

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

LOCATION	DATE	GF Extr.	Pb (mg/L)	Sb (mg/L)	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)
V1	05/05/93		0.0012	< 0.05	< 0.05	4.49	< 0.05	0.068	0.004
V1	05/06/93		0.0026	< 0.05	< 0.05	4.31	< 0.05	0.065	0.006
V1	05/07/93		0.0010	< 0.05	< 0.05	4.36	< 0.05	0.064	0.006
V1	05/08/93		0.0012	< 0.05	< 0.05	4.53	< 0.05	0.067	0.004
V1	05/09/93		0.0008	< 0.05	< 0.05	4.96	< 0.05	0.078	0.003
V1	05/10/93		0.0006	< 0.05	< 0.05	4.96	< 0.05	0.078	0.002
V1	05/11/93		0.0006	< 0.05	< 0.05	4.93	< 0.05	0.076	0.003
V1	05/12/93		0.0014	< 0.05	< 0.05	4.82	< 0.05	0.072	0.002
V1	05/13/93		0.0009	< 0.05	< 0.05	4.48	< 0.05	0.064	0.002
V1	05/14/93		0.0021	< 0.05	< 0.05	4.03	< 0.05	0.052	0.002
V1	05/15/93		0.0013	< 0.05	< 0.05	3.50	< 0.05	0.039	0.002
V1	05/16/93		0.0007	< 0.05	< 0.05	2.66	< 0.05	0.029	0.002
V1	05/17/93		0.0005	< 0.05	< 0.05	2.17	< 0.05	0.021	0.004
V1	05/18/93		0.0035	< 0.05	< 0.05	2.47	< 0.05	0.018	0.013
V1	05/19/93	<	0.0005	< 0.05	< 0.05	2.72	< 0.05	0.024	0.002
V1	05/20/93	<	0.0005	< 0.05	< 0.05	3.11	< 0.05	0.027	0.003
V1	05/21/93		0.0015	< 0.05	< 0.05	3.15	< 0.05	0.028	0.004
V1	05/22/93		0.0053	< 0.05	< 0.05	3.28	< 0.05	0.029	0.003
V1	05/23/93	<	0.0005	< 0.05	< 0.05	2.81	< 0.05	0.024	0.004
V1	05/24/93		0.0008	< 0.05	< 0.05	2.50	< 0.05	0.021	0.003
V1	05/25/93	<	0.0005	< 0.05	< 0.05	2.60	< 0.05	0.021	0.002
V1	05/26/93	<	0.0005	< 0.05	< 0.05	2.44	< 0.05	0.020	0.003
V1	05/27/93		0.0005	< 0.05	< 0.05	2.47	< 0.05	0.021	0.006
V1	05/28/93	<	0.0005	< 0.05	< 0.05	2.47	< 0.05	0.021	0.014
V1	05/29/93	<	0.0005	< 0.05	< 0.05	2.64	< 0.05	0.026	0.009
V1	05/30/93	<	0.0005	< 0.05	< 0.05	2.72	< 0.05	0.020	0.002
V1	05/31/93		0.0015	< 0.05	< 0.05	2.67	< 0.05	0.015	0.002
V1	06/01/93	<	0.0005	< 0.05	< 0.05	2.69	< 0.05	0.017	0.002
V1	06/02/93		0.0012	< 0.05	< 0.05	2.51	< 0.05	0.016	0.002
V1	06/03/93		0.0010	< 0.05	< 0.05	2.65	< 0.05	0.020	0.002
V1	06/04/93	<	0.0005	< 0.05	< 0.05	2.62	< 0.05	0.021	0.002
V1	06/05/93	<	0.0005	< 0.05	< 0.05	2.53	< 0.05	0.020	0.002
V1	06/06/93	<	0.0024	< 0.05	< 0.05	2.65	< 0.05	0.020	0.002
V1	06/07/93		0.0006	< 0.05	< 0.05	2.76	< 0.05	0.022	0.002
V1	06/08/93	<	0.0005	< 0.05	< 0.05	3.01	< 0.05	0.025	0.002
BLANK#1(V1)		<	0.0005	< 0.05	< 0.05	0.49	< 0.05	0.051	0.002
BLANK #2(V1)			0.0007	< 0.05	< 0.05	0.05	< 0.05	0.001	< 0.002

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

LOCATION	DATE	GF Extr.	Pb (mg/L)	Sb (mg/L)	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)
EP1	05/05/93		(see ICP)	< 0.05	< 0.05	14.30	< 0.05	0.140	0.200
EP1	05/06/93		(see ICP)	< 0.05	< 0.05	20.40	< 0.05	0.158	0.360
EP1	05/07/93		0.1660	< 0.05	< 0.05	11.40	< 0.05	0.116	0.096
EP1	05/08/93		0.0829	< 0.05	< 0.05	8.84	< 0.05	0.110	0.051
EP1	05/09/93		0.0450	< 0.05	< 0.05	7.69	< 0.05	0.106	0.032
EP1	05/10/93		0.0640	< 0.05	< 0.05	7.51	< 0.05	0.103	0.034
EP1	05/11/93		0.2010	< 0.05	< 0.05	11.10	< 0.05	0.114	0.142
EP1	05/12/93		(see ICP)	< 0.05	< 0.05	12.50	< 0.05	0.114	0.161
EP1	05/13/93		(see ICP)	< 0.05	< 0.05	16.30	< 0.05	0.121	0.270
EP1	05/14/93		0.1040	< 0.05	< 0.05	8.08	< 0.05	0.081	0.062
EP1	05/17/93		(see ICP)	< 0.05	< 0.05	36.50	< 0.05	0.123	0.295
EP1	05/18/93		(see ICP)	< 0.05	< 0.05	20.70	< 0.05	0.073	0.178
EP1	05/19/93		0.0673	< 0.05	< 0.05	13.70	< 0.05	0.065	0.086
EP1	05/20/93		0.0607	< 0.05	< 0.05	10.90	< 0.05	0.067	0.061
EP1	05/21/93		0.0300	< 0.05	< 0.05	9.05	< 0.05	0.062	0.044
EP1	05/22/93		0.0220	< 0.05	< 0.05	7.12	< 0.05	0.054	0.030
EP1	05/23/93		0.0128	< 0.05	< 0.05	5.28	< 0.05	0.044	0.016
EP1	05/24/93		0.0164	< 0.05	< 0.05	3.66	< 0.05	0.027	0.011
EP1	05/25/93		0.0076	< 0.05	< 0.05	3.83	< 0.05	0.029	0.008
EP1	05/26/93		0.0073	< 0.05	< 0.05	3.94	< 0.05	0.027	0.012
EP1	05/27/93		0.0057	< 0.05	< 0.05	3.24	< 0.05	0.025	0.006
EP1	05/28/93		(see ICP)	< 0.05	< 0.05	20.70	< 0.05	0.087	0.180
EP1	05/29/93		0.0864	< 0.05	< 0.05	10.20	< 0.05	0.049	0.066
EP1	05/30/93		0.0707	< 0.05	< 0.05	9.89	< 0.05	0.057	0.058
EP1	05/31/93		0.1150	< 0.05	< 0.05	9.78	< 0.05	0.064	0.065
EP1	06/01/93		0.0350	< 0.05	< 0.05	5.02	< 0.05	0.044	0.024
EP1	06/02/93		0.0837	< 0.05	< 0.05	6.22	< 0.05	0.048	0.037
BLANK #1(EP1)	05/05/93		< 0.0005	< 0.05	< 0.05	0.68	< 0.05	0.053	< 0.002
BLANK #2(EP1)	06/02/93		0.0008	< 0.05	< 0.05	0.41	< 0.05	0.024	< 0.002

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	GF Extr.	Pb (mg/L)	Sb (mg/L)	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)
V8	05/07/93		0.0330	< 0.05	< 0.05	5.93	< 0.05	0.166	0.028
V8	05/07/93		0.0406	< 0.05	< 0.05	6.40	< 0.05	0.168	0.034
V8	05/08/93		0.0281	< 0.05	< 0.05	6.08	< 0.05	0.177	0.027
V8	05/09/93		0.0006	< 0.05	< 0.05	4.45	< 0.05	0.190	<
V8	05/10/93		0.0446	< 0.05	< 0.05	7.65	< 0.05	0.189	0.045
V8	05/11/93		0.0879	< 0.05	< 0.05	9.98	< 0.05	0.185	0.077
V8	05/12/93		0.1210	< 0.05	< 0.05	11.80	< 0.05	0.181	0.102
V8	05/13/93		0.2120	< 0.05	< 0.05	15.50	< 0.05	0.176	0.151
V8	05/14/93		(see ICP)	< 0.05	< 0.05	25.10	< 0.05	0.182	0.221
V8	05/15/93		(see ICP)	< 0.05	< 0.05	24.20	< 0.05	0.163	0.216
V8	05/16/93		(see ICP)	< 0.05	< 0.05	20.50	< 0.05	0.144	0.170
V8	05/17/93		(see ICP)	< 0.05	< 0.05	42.00	< 0.05	0.209	0.328
V8	05/19/93		0.0740	< 0.05	< 0.05	11.80	< 0.05	0.124	0.074
V8	05/20/93		0.0360	< 0.05	< 0.05	8.01	< 0.05	0.117	0.042
V8	05/21/93	<	0.0005	< 0.05	< 0.05	4.09	< 0.05	0.117	0.003
V8	05/22/93		0.0177	< 0.05	< 0.05	5.87	< 0.05	0.121	0.021
V8	05/23/93	<	0.0005	< 0.05	< 0.05	3.91	< 0.05	0.115	<
V8	05/24/93		0.0250	< 0.05	< 0.05	5.23	< 0.05	0.097	0.023
V8	05/25/93		0.0151	< 0.05	< 0.05	4.57	< 0.05	0.099	0.012
BLANK #1(V8)	05/07/93	<	0.0005	< 0.05	< 0.05	0.35	< 0.05	0.054	<
BLANK #2(V8)	05/25/93	<	0.0005	< 0.05	< 0.05	0.45	< 0.05	0.025	<

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

LOCATION	DATE	GF Extr.	Pb (mg/L)	Sb (mg/L)	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)
EP2	05/07/93		0.0105	< 0.05	< 0.05	6.93	< 0.05	0.155	< 0.002
EP2	05/08/93		0.0034	< 0.05	< 0.05	6.70	< 0.05	0.151	< 0.002
EP2	05/09/93		0.0038	< 0.05	< 0.05	6.69	< 0.05	0.147	< 0.002
EP2	05/10/93		0.0025	< 0.05	< 0.05	6.66	< 0.05	0.141	< 0.002
EP2	05/11/93		0.0016	< 0.05	< 0.05	6.52	< 0.05	0.133	< 0.002
EP2	05/12/93		0.0010	< 0.20	< 0.20	3.84	< 0.20	0.077	< 0.006
EP2	05/13/93		0.0024	< 0.05	< 0.05	6.63	< 0.05	0.134	< 0.002
EP2	05/14/93		0.8310	< 0.50	< 0.50	94.40	< 0.50	0.220	0.780
EP2	05/15/93		0.7900	< 0.50	< 0.50	120.00	< 0.50	0.290	1.210
EP2	05/16/93		0.4270	< 0.50	< 0.50	88.20	< 0.50	0.300	0.780
EP2	05/17/93		0.2410	< 0.50	< 0.50	48.30	< 0.50	0.340	0.460
EP2	05/18/93		0.1550	< 0.50	< 0.50	36.60	< 0.50	0.330	0.320
EP2	05/19/93		0.1770	< 0.50	< 0.50	46.90	< 0.50	0.240	0.430
EP2	05/19/93		0.3210	< 0.50	< 0.50	66.10	< 0.50	0.150	0.600
EP2	05/20/93		0.1390	< 0.50	< 0.50	35.00	< 0.50	0.130	0.290
EP2	05/21/93		0.1410	< 0.50	< 0.50	25.90	< 0.50	0.120	0.170
EP2	05/22/93		0.0390	< 0.05	< 0.05	14.00	< 0.05	0.102	0.083
EP2	05/23/93		0.0353	< 0.05	< 0.05	12.60	< 0.05	0.106	0.067
EP2	05/24/93		0.0119	< 0.05	< 0.05	6.86	< 0.05	0.099	0.011
EP2	05/25/93		0.0260	< 0.05	< 0.05	11.60	< 0.05	0.106	0.061
EP2	05/26/93		0.0546	< 0.05	< 0.05	13.60	< 0.05	0.109	0.080
EP2	05/27/93		0.0200	< 0.05	< 0.05	9.24	< 0.05	0.107	0.033
EP2	05/28/93		0.8270	< 0.50	< 0.50	55.50	< 0.50	0.190	0.510
EP2	05/29/93		(see ICP)	< 0.50	< 0.50	67.30	< 0.50	0.190	0.630
EP2	05/30/93		0.1100	< 0.05	< 0.05	13.80	< 0.05	0.098	0.092
EP2	05/31/93		0.1420	< 0.20	< 0.20	18.00	< 0.20	0.110	0.130
EP2	06/01/93		0.0370	< 0.05	< 0.05	8.58	< 0.05	0.109	0.027
EP2	06/02/93		0.0200	< 0.05	< 0.05	7.04	< 0.05	0.109	0.012
EP2	06/03/93		0.0970	< 0.05	< 0.05	13.60	< 0.05	0.125	0.074
EP2	06/04/93		0.0670	< 0.05	< 0.05	11.20	< 0.05	0.116	0.054
EP2	06/05/93		0.0330	< 0.05	< 0.05	8.59	< 0.05	0.115	0.029
EP2	06/06/93		0.0082	< 0.05	< 0.05	6.11	< 0.05	0.114	0.004
EP2	06/07/93		0.0370	< 0.05	< 0.05	8.61	< 0.05	0.121	0.029
EP2	06/08/93		0.0256	< 0.05	< 0.05	7.17	< 0.05	0.121	0.013
BLANK #1(EP2)	05/07/93		< 0.0005	< 0.05	< 0.05	0.36	< 0.05	0.054	< 0.002
BLANK #2(EP2)	06/08/93		< 0.0005	< 0.05	< 0.05	0.43	< 0.05	0.024	< 0.002

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

LOCATION	DATE	ICP Extr.		ICP Total		GF Total		ICP Total		ICP Total	
		V (mg/L)	Zn (mg/L)	Ag (mg/L)	Ag (mg/L)	Ag (mg/L)	Al (mg/L)	As (mg/L)	B (mg/L)		
V1	05/05/93	< 0.01	0.004	< 0.01	< 0.0006	< 0.10	< 0.06	< 0.01	< 0.01		
V1	05/06/93	< 0.01	0.005	< 0.01	< 0.0006	0.12	0.06	< 0.01	0.01		
V1	05/07/93	< 0.01	0.003	< 0.01	< 0.0006	0.08	0.06	< 0.01	0.01		
V1	05/08/93	< 0.01	0.004	< 0.01	< 0.0006	0.08	0.06	< 0.01	0.01		
V1	05/09/93	< 0.01	0.006	< 0.01	< 0.0006	0.06	0.06	< 0.01	0.01		
V1	05/10/93	< 0.01	0.005	< 0.01	< 0.0006	0.06	0.06	< 0.01	0.01		
V1	05/11/93	< 0.01	0.002	< 0.01	< 0.0006	0.06	0.06	< 0.01	0.01		
V1	05/12/93	< 0.01	0.002	< 0.01	< 0.0006	0.06	0.06	< 0.01	0.01		
V1	05/13/93	< 0.01	0.002	< 0.01	< 0.0006	0.07	0.06	< 0.01	0.01		
V1	05/14/93	< 0.01	0.003	< 0.01	< 0.0006	0.18	0.06	< 0.01	0.01		
V1	05/15/93	< 0.01	0.003	< 0.01	< 0.0006	0.31	0.06	< 0.01	0.01		
V1	05/16/93	< 0.01	0.003	< 0.01	< 0.0006	0.13	0.06	< 0.01	0.01		
V1	05/17/93	< 0.01	0.003	< 0.01	< 0.0006	0.34	0.06	< 0.01	0.01		
V1	05/18/93	< 0.01	0.007	< 0.01	< 0.0006	1.10	0.06	< 0.01	0.01		
V1	05/19/93	< 0.01	0.002	< 0.01	< 0.0006	0.14	0.06	< 0.01	0.01		
V1	05/20/93	< 0.01	0.002	< 0.01	< 0.0006	0.09	0.06	< 0.01	0.01		
V1	05/21/93	< 0.01	0.002	< 0.01	< 0.0006	0.12	0.06	< 0.01	0.01		
V1	05/22/93	< 0.01	0.002	< 0.01	< 0.0006	0.10	0.06	< 0.01	0.01		
V1	05/23/93	< 0.01	0.003	< 0.01	< 0.0006	0.22	0.06	< 0.01	0.01		
V1	05/24/93	< 0.01	0.004	< 0.01	< 0.0006	0.19	0.06	< 0.01	0.01		
V1	05/25/93	< 0.01	0.002	< 0.01	< 0.0006	0.09	0.06	< 0.01	0.01		
V1	05/26/93	< 0.01	0.004	< 0.01	< 0.0006	0.10	0.06	< 0.01	0.01		
V1	05/27/93	< 0.01	0.008	< 0.01	< 0.0006	0.21	0.06	< 0.01	0.01		
V1	05/28/93	< 0.01	0.009	< 0.01	< 0.0006	0.59	0.06	< 0.01	0.01		
V1	05/29/93	< 0.01	0.012	< 0.01	< 0.0006	0.14	0.06	< 0.01	0.01		
V1	05/30/93	< 0.01	0.002	< 0.01	< 0.0006	0.06	0.06	< 0.01	0.01		
V1	05/31/93	< 0.01	0.002	< 0.01	< 0.0006	0.10	0.06	< 0.01	0.01		
V1	06/01/93	< 0.01	0.002	< 0.01	< 0.0006	0.08	0.06	< 0.01	0.01		
V1	06/02/93	< 0.01	0.002	< 0.01	< 0.0006	0.09	0.06	< 0.01	0.01		
V1	06/03/93	< 0.01	0.002	< 0.01	< 0.0006	0.10	0.06	< 0.01	0.01		
V1	06/04/93	< 0.01	0.002	< 0.01	< 0.0006	0.08	0.06	< 0.01	0.01		
V1	06/05/93	< 0.01	0.002	< 0.01	< 0.0006	0.07	0.06	< 0.01	0.01		
V1	06/06/93	< 0.01	0.002	< 0.01	< 0.0006	0.08	0.06	< 0.01	0.01		
V1	06/07/93	< 0.01	0.002	< 0.01	< 0.0006	0.07	0.06	< 0.01	0.01		
V1	06/08/93	< 0.01	0.002	< 0.01	< 0.0006	0.06	0.06	< 0.01	0.01		
BLANK#1(V1)		< 0.01	0.003	< 0.01	< 0.0006	0.06	0.06	< 0.01	0.01		
BLANK #2(V1)		< 0.01	0.002	< 0.01	< 0.0006	0.06	0.06	< 0.01	0.01		

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	V (mg/L)	Zn (mg/L)	Ag (mg/L)	Ag (mg/L)	GF Total	Al (mg/L)	As (mg/L)	B (mg/L)
		ICP Extr.	ICP Extr.	ICP Total	ICP Total		ICP Total	ICP Total	ICP Total
EP1	05/05/93	0.01	0.430	< 0.01	< 0.0006	<	15.00	< 0.06	0.04
EP1	05/06/93	0.03	0.661	< 0.01	< 0.0006	<	24.50	< 0.06	0.06
EP1	05/07/93	< 0.01	0.226	< 0.01	< 0.0006	<	10.60	< 0.06	0.02
EP1	05/08/93	< 0.01	0.154	< 0.01	< 0.0006	<	6.19	< 0.06	0.01
EP1	05/09/93	< 0.01	0.122	< 0.01	< 0.0006	<	3.96	< 0.06	< 0.01
EP1	05/10/93	< 0.01	0.113	< 0.01	< 0.0006	<	3.52	< 0.06	< 0.01
EP1	05/11/93	0.01	0.263	< 0.01	< 0.0006	<	9.72	< 0.06	0.03
EP1	05/12/93	0.01	0.290	< 0.01	< 0.0006	<	11.60	< 0.06	0.03
EP1	05/13/93	0.02	0.468	< 0.01	< 0.0006	<	17.20	< 0.06	0.04
EP1	05/14/93	< 0.01	0.125	< 0.01	< 0.0006	<	6.00	< 0.06	0.01
EP1	05/17/93	0.05	0.476	< 0.01	< 0.0008	<	57.80	< 0.06	0.12
EP1	05/18/93	0.03	0.195	< 0.01	< 0.0006	<	29.80	< 0.06	0.06
EP1	05/19/93	0.02	0.082	< 0.01	< 0.0006	<	16.80	< 0.06	0.03
EP1	05/20/93	0.01	0.071	< 0.01	< 0.0006	<	11.90	< 0.06	0.02
EP1	05/21/93	0.01	0.053	< 0.01	< 0.0006	<	9.17	< 0.06	0.02
EP1	05/22/93	< 0.01	0.046	< 0.01	< 0.0006	<	5.85	< 0.06	0.01
EP1	05/23/93	< 0.01	0.034	< 0.01	< 0.0006	<	2.77	< 0.06	0.01
EP1	05/24/93	< 0.01	0.027	< 0.01	< 0.0006	<	1.73	< 0.06	0.01
EP1	05/25/93	< 0.01	0.025	< 0.01	< 0.0006	<	1.32	< 0.06	0.01
EP1	05/26/93	< 0.01	0.024	< 0.01	< 0.0006	<	1.56	< 0.06	0.01
EP1	05/27/93	< 0.01	0.024	< 0.01	< 0.0006	<	0.76	< 0.06	0.01
EP1	05/28/93	0.03	0.820	< 0.01	< 0.0006	<	34.50	0.07	0.08
EP1	05/29/93	0.01	0.115	< 0.01	< 0.0006	<	11.70	< 0.06	0.03
EP1	05/30/93	0.01	0.100	< 0.01	< 0.0006	<	11.70	< 0.06	0.02
EP1	05/31/93	0.01	0.120	< 0.01	< 0.0006	<	11.80	< 0.06	0.03
EP1	06/01/93	< 0.01	0.043	< 0.01	< 0.0006	<	2.95	< 0.06	0.01
EP1	06/02/93	< 0.01	0.067	< 0.01	< 0.0006	<	4.70	< 0.06	0.01
BLANK #1(EP1)	05/05/93	< 0.01	0.002	< 0.01	< 0.0006	<	0.06	< 0.06	0.01
BLANK #2(EP1)	06/02/93	< 0.01	< 0.002	< 0.01	< 0.0006	<	0.06	< 0.06	0.01

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	ICP Extr. V (mg/L)	ICP Extr. Zn (mg/L)	ICP Total Ag (mg/L)	GF Total Ag (mg/L)	ICP Total Al (mg/L)	ICP Total As (mg/L)	ICP Total B (mg/L)
V8	05/07/93	< 0.01	0.033	< 0.01	< 0.0006	2.97	< 0.06	< 0.01
V8	05/07/93	< 0.01	0.036	< 0.01	< 0.0006	3.91	< 0.06	< 0.01
V8	05/08/93	< 0.01	0.023	< 0.01	< 0.0006	3.00	< 0.06	< 0.01
V8	05/09/93	< 0.01	< 0.002	< 0.01	< 0.0006	2.93	< 0.06	< 0.01
V8	05/10/93	< 0.01	0.032	< 0.01	< 0.0006	5.24	< 0.06	< 0.01
V8	05/11/93	< 0.01	0.057	< 0.01	< 0.0006	9.10	< 0.06	< 0.02
V8	05/12/93	0.01	0.081	< 0.01	< 0.0006	11.80	< 0.06	< 0.03
V8	05/13/93	0.02	0.139	< 0.01	< 0.0006	18.00	< 0.06	< 0.04
V8	05/14/93	0.03	0.276	< 0.01	< 0.0008	34.80	< 0.06	< 0.07
V8	05/15/93	0.03	0.264	< 0.01	< 0.0006	32.30	< 0.06	< 0.07
V8	05/16/93	0.03	0.225	< 0.01	< 0.0006	27.40	< 0.06	< 0.06
V8	05/17/93	0.07	0.667	< 0.01	< 0.0010	66.00	< 0.09	< 0.15
V8	05/19/93	0.01	0.068	< 0.01	< 0.0006	13.60	< 0.06	< 0.03
V8	05/20/93	< 0.01	0.040	< 0.01	< 0.0006	7.03	< 0.06	< 0.02
V8	05/21/93	< 0.01	< 0.002	< 0.01	< 0.0006	4.23	< 0.06	< 0.01
V8	05/22/93	< 0.01	0.023	< 0.01	< 0.0006	3.27	< 0.06	< 0.01
V8	05/23/93	< 0.01	< 0.002	< 0.01	< 0.0006	4.26	< 0.06	< 0.01
V8	05/24/93	< 0.01	0.029	< 0.01	< 0.0006	3.38	< 0.06	< 0.01
V8	05/25/93	< 0.01	0.020	< 0.01	< 0.0006	2.06	< 0.06	< 0.01
BLANK #1(V8)	05/07/93	< 0.01	0.004	< 0.01	< 0.0006	< 0.06	< 0.06	< 0.01
BLANK #2(V8)	05/25/93	< 0.01	0.004	< 0.01	< 0.0006	< 0.06	< 0.06	< 0.01

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	ICP Extr.		ICP Total		GF Total		ICP Total		ICP Total		ICP Total	
		V (mg/L)	Zn (mg/L)	Ag (mg/L)	Ag (mg/L)	Ag (mg/L)	Al (mg/L)	As (mg/L)	B (mg/L)	As (mg/L)	Al (mg/L)	As (mg/L)	B (mg/L)
EP2	05/07/93	< 0.01	0.475	< 0.01	< 0.0006	< 0.0006	0.21	< 0.06	< 0.01	< 0.06	< 0.01	< 0.01	
EP2	05/08/93	< 0.01	0.538	< 0.01	< 0.0006	< 0.0006	0.08	< 0.06	< 0.01	< 0.06	< 0.01	< 0.01	
EP2	05/09/93	< 0.01	0.551	< 0.01	< 0.0006	< 0.0006	0.07	< 0.06	< 0.01	< 0.06	< 0.01	< 0.01	
EP2	05/10/93	0.01	0.512	< 0.01	< 0.0006	< 0.0006	< 0.06	< 0.06	< 0.01	< 0.06	< 0.01	< 0.01	
EP2	05/11/93	0.01	0.501	< 0.01	< 0.0006	< 0.0006	< 0.06	< 0.06	< 0.01	< 0.06	< 0.01	< 0.01	
EP2	05/12/93	< 0.03	0.306	< 0.01	< 0.0006	< 0.0006	< 0.06	< 0.06	< 0.01	< 0.06	< 0.01	< 0.01	
EP2	05/13/93	< 0.01	0.430	< 0.01	< 0.0006	< 0.0006	< 0.06	< 0.06	< 0.01	< 0.06	< 0.01	< 0.01	
EP2	05/14/93	0.10	1.460	< 0.01	0.0012	115.00	115.00	0.14	0.50	0.14	0.50	0.01	
EP2	05/15/93	0.20	1.370	< 0.10	0.0012	227.00	227.00	0.60	7.00	0.60	7.00	0.01	
EP2	05/16/93	0.10	0.780	< 0.01	0.0014	104.00	104.00	0.10	0.60	0.10	0.60	0.01	
EP2	05/17/93	< 0.10	0.280	< 0.01	< 0.0006	36.70	36.70	0.06	0.40	0.06	0.40	0.01	
EP2	05/18/93	< 0.10	0.328	< 0.01	< 0.0006	20.80	20.80	0.06	0.20	0.06	0.20	0.01	
EP2	05/19/93	< 0.10	0.220	< 0.01	< 0.0006	41.10	41.10	0.06	0.40	0.06	0.40	0.01	
EP2	05/19/93	< 0.10	0.430	< 0.01	0.0007	66.60	66.60	0.07	1.00	0.07	1.00	0.01	
EP2	05/20/93	< 0.10	0.190	< 0.01	< 0.0006	26.40	26.40	0.06	0.40	0.06	0.40	0.01	
EP2	05/21/93	< 0.10	0.150	< 0.01	< 0.0006	14.40	14.40	0.06	0.30	0.06	0.30	0.01	
EP2	05/22/93	< 0.01	0.159	< 0.01	< 0.0006	7.15	7.15	0.06	0.02	0.06	0.02	0.01	
EP2	05/23/93	< 0.01	0.186	< 0.01	< 0.0006	5.91	5.91	0.06	0.01	0.06	0.01	0.01	
EP2	05/24/93	< 0.01	0.101	< 0.01	< 0.0006	1.10	1.10	0.06	0.01	0.06	0.01	0.01	
EP2	05/25/93	< 0.01	0.177	< 0.01	< 0.0006	5.13	5.13	0.06	0.01	0.06	0.01	0.01	
EP2	05/26/93	< 0.01	0.224	< 0.01	< 0.0006	7.55	7.55	0.06	0.02	0.06	0.02	0.01	
EP2	05/27/93	< 0.01	0.164	< 0.01	< 0.0006	3.10	3.10	0.06	0.01	0.06	0.01	0.01	
EP2	05/28/93	< 0.10	0.850	< 0.01	0.0008	53.00	53.00	0.07	0.30	0.07	0.30	0.01	
EP2	05/29/93	< 0.10	0.620	< 0.01	0.0009	64.10	64.10	0.10	0.40	0.10	0.40	0.01	
EP2	05/30/93	0.01	0.092	< 0.01	< 0.0006	8.03	8.03	0.06	0.02	0.06	0.02	0.01	
EP2	05/31/93	< 0.04	0.170	< 0.01	< 0.0006	9.16	9.16	0.06	0.02	0.06	0.02	0.01	
EP2	06/01/93	< 0.01	0.108	< 0.01	< 0.0006	2.35	2.35	0.06	0.01	0.06	0.01	0.01	
EP2	06/02/93	< 0.01	0.090	< 0.01	< 0.0006	0.95	0.95	0.06	0.01	0.06	0.01	0.01	
EP2	06/03/93	< 0.01	0.319	< 0.01	< 0.0006	6.69	6.69	0.06	0.02	0.06	0.02	0.01	
EP2	06/04/93	< 0.01	0.152	< 0.01	< 0.0006	4.55	4.55	0.06	0.01	0.06	0.01	0.01	
EP2	06/05/93	< 0.01	0.108	< 0.01	< 0.0006	2.21	2.21	0.06	0.01	0.06	0.01	0.01	
EP2	06/06/93	< 0.01	0.072	< 0.01	< 0.0006	0.33	0.33	0.06	0.01	0.06	0.01	0.01	
EP2	06/07/93	< 0.01	0.159	< 0.01	< 0.0006	2.18	2.18	0.06	0.01	0.06	0.01	0.01	
EP2	06/08/93	< 0.01	0.174	< 0.01	< 0.0006	0.86	0.86	0.06	0.01	0.06	0.01	0.01	
EP2	06/08/93	< 0.01	0.002	< 0.01	< 0.0006	< 0.06	< 0.06	0.06	0.01	0.06	0.01	0.01	
BLANK #1(EP2)	05/07/93	< 0.01	0.003	< 0.01	< 0.0006	< 0.06	< 0.06	0.06	0.01	0.06	0.01	0.01	
BLANK #2(EP2)	06/08/93	< 0.01		< 0.01	< 0.0006	< 0.06	< 0.06	0.06	0.01	0.06	0.01	0.01	

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	Ba (mg/L)		Be (mg/L)		Ca (mg/L)		Cd (mg/L)		GF Total (mg/L)		ICP Total (mg/L)		Cr (mg/L)	
		ICP Total	Total	ICP Total	Total	ICP Total	Total	ICP Total	Total	ICP Total	Total	ICP Total	Total	ICP Total	Total
V1	05/05/93	0.043	<	0.001	<	15.6	<	0.006	<	0.0005	<	0.006	<	0.013	
V1	05/06/93	0.043	<	0.001	<	14.7	<	0.006	<	0.0005	<	0.006	<	0.006	
V1	05/07/93	0.039	<	0.001	<	14.2	<	0.006	<	0.0003	<	0.006	<	0.006	
V1	05/08/93	0.041	<	0.001	<	15.2	<	0.006	<	0.0002	<	0.006	<	0.008	
V1	05/09/93	0.040	<	0.001	<	15.6	<	0.006	<	0.0002	<	0.006	<	0.006	
V1	05/10/93	0.040	<	0.001	<	15.7	<	0.006	<	0.0002	<	0.006	<	0.007	
V1	05/11/93	0.038	<	0.001	<	15.3	<	0.006	<	0.0004	<	0.006	<	0.006	
V1	05/12/93	0.036	<	0.001	<	14.7	<	0.006	<	0.0004	<	0.006	<	0.010	
V1	05/13/93	0.033	<	0.001	<	13.2	<	0.006	<	0.0005	<	0.006	<	0.010	
V1	05/14/93	0.033	<	0.001	<	11.0	<	0.006	<	0.0009	<	0.006	<	0.006	
V1	05/15/93	0.029	<	0.001	<	7.6	<	0.006	<	0.0008	<	0.006	<	0.006	
V1	05/16/93	0.019	<	0.001	<	5.1	<	0.006	<	0.0004	<	0.006	<	0.010	
V1	05/17/93	0.018	<	0.001	<	3.6	<	0.006	<	0.0001	<	0.006	<	0.012	
V1	05/18/93	0.026	<	0.001	<	3.1	<	0.006	<	0.0001	<	0.006	<	0.006	
V1	05/19/93	0.016	<	0.001	<	4.3	<	0.006	<	0.0001	<	0.006	<	0.010	
V1	05/20/93	0.017	<	0.001	<	4.9	<	0.006	<	0.0001	<	0.006	<	0.006	
V1	05/21/93	0.017	<	0.001	<	5.1	<	0.006	<	0.0001	<	0.006	<	0.008	
V1	05/22/93	0.017	<	0.001	<	5.3	<	0.006	<	0.0001	<	0.006	<	0.010	
V1	05/23/93	0.016	<	0.001	<	4.2	<	0.006	<	0.0001	<	0.006	<	0.006	
V1	05/24/93	0.014	<	0.001	<	3.5	<	0.006	<	0.0001	<	0.006	<	0.009	
V1	05/25/93	0.015	<	0.001	<	3.7	<	0.006	<	0.0002	<	0.006	<	0.006	
V1	05/26/93	0.015	<	0.001	<	3.4	<	0.006	<	0.0005	<	0.006	<	0.006	
V1	05/27/93	0.014	<	0.001	<	3.3	<	0.006	<	0.0003	<	0.006	<	0.006	
V1	05/28/93	0.018	<	0.001	<	3.1	<	0.006	<	0.0001	<	0.006	<	0.006	
V1	05/29/93	0.014	<	0.001	<	3.7	<	0.006	<	0.0001	<	0.006	<	0.006	
V1	05/30/93	0.013	<	0.001	<	3.9	<	0.006	<	0.0001	<	0.006	<	0.006	
V1	05/31/93	0.013	<	0.001	<	3.7	<	0.006	<	0.0003	<	0.006	<	0.006	
V1	06/01/93	0.013	<	0.001	<	3.8	<	0.006	<	0.0003	<	0.006	<	0.006	
V1	06/02/93	0.013	<	0.001	<	3.5	<	0.006	<	0.0002	<	0.006	<	0.006	
V1	06/03/93	0.014	<	0.001	<	3.6	<	0.006	<	0.0004	<	0.006	<	0.006	
V1	06/04/93	0.013	<	0.001	<	3.6	<	0.006	<	0.0004	<	0.006	<	0.006	
V1	06/05/93	0.013	<	0.001	<	3.4	<	0.006	<	0.0004	<	0.006	<	0.008	
V1	06/06/93	0.014	<	0.001	<	3.6	<	0.006	<	0.0003	<	0.006	<	0.006	
V1	06/07/93	0.014	<	0.001	<	3.8	<	0.006	<	0.0004	<	0.006	<	0.007	
V1	06/08/93	0.016	<	0.001	<	4.3	<	0.006	<	0.0001	<	0.006	<	0.006	
BLANK#1(V1)		0.006	<	0.001	<	4.8	<	0.006	<	0.0001	<	0.006	<	0.006	
BLANK#2(V1)		<	<	0.001	<	0.1	<	0.006	<	0.0001	<	0.006	<	0.006	

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

LOCATION	DATE	Ba (mg/L)	Be (mg/L)	Ca (mg/L)	Cd (mg/L)	Cd (mg/L)	GF Total	ICP Total	Co (mg/L)	Cr (mg/L)
EP1	05/05/93	0.919	< 0.001	29.4	0.007	0.0017		0.013	0.051	
EP1	05/06/93	1.410	< 0.001	32.7	0.009	0.0017		0.021	0.075	
EP1	05/07/93	0.498	< 0.001	24.6	< 0.006	0.0006		0.009	0.032	
EP1	05/08/93	0.293	< 0.001	24.0	< 0.006	0.0007	<	0.006	0.025	
EP1	05/09/93	0.190	< 0.001	23.4	< 0.006	0.0004	<	0.006	0.040	
EP1	05/10/93	0.172	< 0.001	22.9	< 0.006	0.0005	<	0.006	0.010	
EP1	05/11/93	0.578	< 0.001	25.1	< 0.006	0.0008		0.009	0.041	
EP1	05/12/93	0.656	< 0.001	25.0	< 0.006	0.0008		0.011	0.054	
EP1	05/13/93	1.020	< 0.001	25.6	0.010	0.0013		0.015	0.065	
EP1	05/14/93	0.275	< 0.001	17.7	< 0.006	0.0005	<	0.006	0.029	
EP1	05/17/93	1.280	< 0.001	27.0	0.021	0.0015		0.042	0.227	
EP1	05/18/93	0.601	< 0.001	15.9	0.012	0.0007		0.022	0.116	
EP1	05/19/93	0.338	< 0.001	15.0	< 0.006	0.0004		0.010	0.094	
EP1	05/20/93	0.250	< 0.001	15.5	0.006	0.0004		0.012	0.061	
EP1	05/21/93	0.203	< 0.001	14.4	0.006	0.0003		0.006	0.050	
EP1	05/22/93	0.141	< 0.001	12.1	< 0.006	< 0.0001	<	0.006	0.038	
EP1	05/23/93	0.076	< 0.001	9.1	< 0.006	< 0.0001	<	0.006	0.012	
EP1	05/24/93	0.053	< 0.001	5.6	< 0.006	< 0.0001	<	0.006	0.012	
EP1	05/25/93	0.041	< 0.001	6.0	< 0.006	< 0.0001	<	0.006	0.008	
EP1	05/26/93	0.040	< 0.001	5.5	< 0.006	< 0.0001	<	0.006	0.006	
EP1	05/27/93	0.027	< 0.001	5.0	< 0.006	< 0.0001	<	0.006	0.006	
EP1	05/28/93	1.390	< 0.001	19.3	0.014	0.0022		0.028	0.151	
EP1	05/29/93	0.255	< 0.001	11.0	< 0.006	0.0003		0.009	0.063	
EP1	05/30/93	0.232	< 0.001	13.0	< 0.006	0.0004		0.010	0.063	
EP1	05/31/93	0.283	< 0.001	14.2	0.007	0.0004		0.009	0.055	
EP1	06/01/93	0.088	< 0.001	9.4	< 0.006	< 0.0001	<	0.006	0.007	
EP1	06/02/93	0.166	< 0.001	10.0	< 0.006	0.0005	<	0.006	0.019	
BLANK #1(EP1)	05/05/93	0.005	< 0.001	4.9	< 0.006	< 0.0001	<	0.006	0.006	
BLANK #2(EP1)	06/02/93	0.003	< 0.001	3.0	< 0.006	< 0.0001	<	0.006	0.006	

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	Ba (mg/L)	Be (mg/L)	Ca (mg/L)	Cd (mg/L)	Cd (mg/L)	GF Total (mg/L)	ICP Total (mg/L)	Co (mg/L)	Cr (mg/L)
V8	05/07/93	0.128	< 0.001	39.3	< 0.006	< 0.006	0.0002	< 0.006	< 0.006	0.010
V8	05/07/93	0.146	< 0.001	39.3	< 0.006	< 0.006	0.0002	< 0.006	< 0.006	< 0.006
V8	05/08/93	0.126	< 0.001	41.4	< 0.006	< 0.006	0.0002	< 0.006	< 0.006	< 0.006
V8	05/09/93	0.126	< 0.001	44.6	< 0.006	< 0.006	<	< 0.006	< 0.006	< 0.006
V8	05/10/93	0.166	< 0.001	44.5	< 0.006	< 0.006	0.0002	< 0.006	< 0.006	0.009
V8	05/11/93	0.250	< 0.001	43.3	< 0.006	< 0.006	0.0003	< 0.006	< 0.006	0.008
V8	05/12/93	0.323	< 0.001	41.2	< 0.006	< 0.006	0.0003	< 0.006	0.007	0.030
V8	05/13/93	0.512	< 0.001	39.8	< 0.007	< 0.007	0.0005	< 0.007	0.007	0.040
V8	05/14/93	0.840	< 0.001	41.4	0.010	0.010	0.0010	0.010	0.022	0.119
V8	05/15/93	0.810	< 0.001	37.6	0.010	0.010	0.0009	0.010	0.021	0.117
V8	05/16/93	0.675	< 0.001	33.0	0.010	0.010	0.0007	0.010	0.022	0.100
V8	05/17/93	1.650	< 0.001	48.2	0.022	0.022	0.0021	0.022	0.052	0.218
V8	05/19/93	0.315	< 0.001	29.8	< 0.006	< 0.006	0.0005	< 0.010	0.010	0.045
V8	05/20/93	0.172	< 0.001	27.4	< 0.006	< 0.006	0.0003	< 0.006	< 0.006	0.031
V8	05/21/93	0.116	< 0.001	27.3	< 0.006	< 0.006	0.0001	< 0.006	< 0.006	0.013
V8	05/22/93	0.110	< 0.001	28.1	< 0.006	< 0.006	0.0003	< 0.006	< 0.006	0.016
V8	05/23/93	0.124	0.002	26.8	< 0.006	< 0.006	0.0002	< 0.006	< 0.006	0.016
V8	05/24/93	0.100	0.002	21.9	< 0.006	< 0.006	<	< 0.006	< 0.006	0.009
V8	05/25/93	0.071	0.002	22.3	< 0.006	< 0.006	0.0001	< 0.006	< 0.006	0.013
BLANK #1(V8)	05/07/93	0.006	< 0.001	4.8	< 0.006	< 0.006	0.0003	< 0.006	< 0.006	0.009
BLANK #2(V8)	05/25/93	0.004	< 0.001	3.2	< 0.006	< 0.006	0.0002	< 0.006	< 0.006	< 0.006

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

LOCATION	DATE	Ba (mg/L)	Be (mg/L)	Ca (mg/L)	Cd (mg/L)	Cd (mg/L)	GF Total (mg/L)	Co (mg/L)	Cr (mg/L)
EP2	05/07/93	0.134	0.002	37.0	<	0.006	0.0029	<	0.010
EP2	05/08/93	0.127	0.002	36.8	<	0.006	0.0025	<	0.007
EP2	05/09/93	0.121	0.002	35.8	<	0.006	0.0027	<	0.013
EP2	05/10/93	0.114	<	35.2	<	0.006	0.0025	<	0.015
EP2	05/11/93	0.110	0.002	33.4	<	0.006	0.0026	<	0.014
EP2	05/12/93	0.110	0.002	35.0	<	0.006	0.0026	<	0.006
EP2	05/13/93	0.110	0.002	33.6	<	0.006	0.0032	<	0.008
EP2	05/14/93	1.870	0.001	36.0	0.041	0.041	(see ICP)	0.089	0.283
EP2	05/15/93	3.300	<	47.0	0.090	0.090	0.0037	0.210	0.700
EP2	05/16/93	1.600	<	51.0	0.041	0.041	(see ICP)	0.071	0.269
EP2	05/17/93	0.760	<	55.9	0.014	0.014	0.0019	0.030	0.082
EP2	05/18/93	0.537	<	59.0	0.008	0.008	0.0014	0.023	0.037
EP2	05/19/93	0.760	<	42.0	0.010	0.010	0.0010	0.029	0.088
EP2	05/19/93	1.070	<	23.0	0.021	0.021	0.0012	0.040	0.138
EP2	05/20/93	0.449	<	20.1	0.009	0.009	0.0009	0.019	0.058
EP2	05/21/93	0.266	<	21.0	0.006	0.006	0.0006	0.010	0.090
EP2	05/22/93	0.169	<	20.6	<	0.006	0.0006	0.010	0.010
EP2	05/23/93	0.162	<	21.5	<	0.006	0.0007	0.008	0.016
EP2	05/24/93	0.085	<	21.7	<	0.006	0.0006	<	0.012
EP2	05/25/93	0.147	<	22.5	<	0.006	0.0008	0.009	0.006
EP2	05/26/93	0.193	<	23.0	<	0.006	0.0015	0.007	0.021
EP2	05/27/93	0.121	<	23.4	<	0.006	0.0009	0.009	0.016
EP2	05/28/93	1.230	<	36.0	0.018	0.018	0.0029	0.046	0.125
EP2	05/29/93	1.680	<	32.0	0.026	0.026	(see ICP)	0.048	0.210
EP2	05/30/93	0.238	0.001	21.9	<	0.006	0.0004	<	0.014
EP2	05/31/93	0.286	<	25.2	<	0.006	0.0008	<	0.010
EP2	06/01/93	0.132	<	25.6	<	0.006	0.0008	<	0.012
EP2	06/02/93	0.100	<	28.0	<	0.006	0.0007	<	0.006
EP2	06/03/93	0.236	<	25.5	<	0.006	0.0013	0.013	0.014
EP2	06/04/93	0.196	<	25.5	<	0.006	0.0010	0.008	0.006
EP2	06/05/93	0.127	<	25.6	<	0.006	0.0010	0.009	<
EP2	06/06/93	0.089	<	23.4	<	0.006	0.0008	0.008	<
EP2	06/07/93	0.130	<	27.1	<	0.006	0.0009	0.009	<
EP2	06/08/93	0.110	<	28.3	<	0.006	0.0025	0.007	<
EP2	06/08/93	0.006	<	4.8	<	0.006	<	0.006	<
BLANK #1(EP2)	05/07/93	0.003	<	2.8	<	0.006	<	0.006	<
BLANK #2(EP2)	06/08/93	0.003	<	2.8	<	0.006	<	0.006	<

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

LOCATION	DATE	Cu (mg/L)		GF Total	Fe (mg/L)		K (mg/L)		Mg (mg/L)		Mn (mg/L)		Mo (mg/L)	
		ICP Total	<		ICP Total	<	ICP Total	<	ICP Total	<	ICP Total	<	ICP Total	<
V1	05/05/93	<	0.006	0.0013	0.015	0.74	2.5	0.001	<	0.01				
V1	05/06/93	<	0.006	0.0036	0.070	0.77	2.4	0.001	<	0.01				
V1	05/07/93	<	0.006	0.0016	0.056	0.80	2.3	0.001	<	0.01				
V1	05/08/93	<	0.006	0.0012	0.084	0.81	2.4	<	<	0.01				
V1	05/09/93	<	0.006	0.0010	0.078	0.85	2.4	<	<	0.01				
V1	05/10/93	<	0.006	0.0009	0.071	0.92	2.4	<	<	0.01				
V1	05/11/93	<	0.006	0.0012	0.075	1.00	2.3	0.002	<	0.01				
V1	05/12/93	<	0.006	0.0009	0.091	1.00	2.1	0.001	<	0.01				
V1	05/13/93	<	0.006	0.0012	0.119	1.10	1.9	0.003	<	0.01				
V1	05/14/93	<	0.006	0.0010	0.188	1.24	1.6	0.006	<	0.01				
V1	05/15/93	<	0.006	0.0012	0.454	1.59	1.2	0.014	<	0.01				
V1	05/16/93	<	0.006	0.0006	0.164	1.49	0.8	0.007	<	0.01				
V1	05/17/93	<	0.006	0.0007	0.330	1.20	0.6	0.016	<	0.01				
V1	05/18/93	<	0.006	0.0010	1.010	1.21	0.7	0.034	<	0.01				
V1	05/19/93	<	0.006	0.0006	0.120	0.88	0.7	0.003	<	0.01				
V1	05/20/93	<	0.006	0.0006	0.098	0.75	0.7	0.003	<	0.01				
V1	05/21/93	<	0.006	0.0025	0.219	0.70	0.7	0.010	<	0.01				
V1	05/22/93	<	0.006	0.0019	0.110	0.65	0.8	0.005	<	0.01				
V1	05/23/93	<	0.006	0.0007	0.240	0.60	0.6	0.009	<	0.01				
V1	05/24/93	<	0.006	0.0012	0.186	0.55	0.5	0.008	<	0.01				
V1	05/25/93	<	0.006	0.0013	0.117	0.43	0.6	0.005	<	0.01				
V1	05/26/93	<	0.006	0.0039	0.195	0.43	0.5	0.004	<	0.01				
V1	05/27/93	<	0.006	0.0006	0.165	0.40	0.5	0.010	<	0.01				
V1	05/28/93	<	0.006	0.0007	0.535	0.51	0.5	0.017	<	0.01				
V1	05/29/93	<	0.006	0.0007	0.126	0.43	0.5	0.004	<	0.01				
V1	05/30/93	<	0.006	0.0006	0.006	0.36	0.5	0.001	<	0.01				
V1	05/31/93	<	0.006	0.0006	0.052	0.33	0.5	0.001	<	0.01				
V1	06/01/93	<	0.006	0.0006	0.061	0.35	0.5	0.001	<	0.01				
V1	06/02/93	<	0.006	0.0007	0.071	0.30	0.5	0.001	<	0.01				
V1	06/03/93	<	0.006	0.0006	0.041	0.32	0.5	0.001	<	0.01				
V1	06/04/93	<	0.006	0.0012	0.031	0.28	0.5	0.001	<	0.01				
V1	06/05/93	<	0.006	0.0006	0.022	0.31	0.5	0.001	<	0.01				
V1	06/06/93	<	0.006	0.0006	0.062	0.31	0.5	0.002	<	0.01				
V1	06/07/93	<	0.006	0.0006	0.045	0.33	0.5	0.001	<	0.01				
V1	06/08/93	<	0.006	0.0006	0.006	0.26	0.6	0.001	<	0.01				
BLANK#1(V1)		<	0.006	0.0038	0.110	1.23	2.1	0.001	<	0.01				
BLANK #2(V1)		<	0.006	0.0014	0.006	0.06	<	0.003	<	0.01				

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

LOCATION	DATE	ICP Total Cu (mg/L)	GF Total Cu (mg/L)	ICP Total Fe (mg/L)	ICP Total K (mg/L)	ICP Total Mg (mg/L)	ICP Total Mn (mg/L)	ICP Total Mo (mg/L)
EP1	05/05/93	0.049	(see ICP)	20.100	4.22	11.0	0.355	< 0.01
EP1	05/06/93	0.080	(see ICP)	33.900	5.96	15.2	0.550	< 0.01
EP1	05/07/93	0.027	(see ICP)	12.400	3.22	8.2	0.215	< 0.01
EP1	05/08/93	0.021	0.0130	6.740	2.45	6.3	0.144	< 0.01
EP1	05/09/93	0.025	(see ICP)	4.300	1.87	5.4	0.126	< 0.01
EP1	05/10/93	0.012	0.0074	3.820	1.82	5.0	0.098	< 0.01
EP1	05/11/93	0.032	(see ICP)	12.800	3.20	7.6	0.229	< 0.01
EP1	05/12/93	0.035	(see ICP)	15.300	3.56	8.3	0.267	< 0.01
EP1	05/13/93	0.058	(see ICP)	24.200	4.70	11.0	0.409	< 0.01
EP1	05/14/93	0.016	0.0120	7.220	2.41	4.9	0.120	< 0.01
EP1	05/17/93	0.138	(see ICP)	74.600	10.60	29.8	0.978	< 0.01
EP1	05/18/93	0.080	(see ICP)	35.700	6.06	14.7	0.506	< 0.01
EP1	05/19/93	0.027	(see ICP)	18.300	4.30	11.0	0.249	< 0.01
EP1	05/20/93	0.022	0.0170	13.700	3.18	8.5	0.187	< 0.01
EP1	05/21/93	0.018	0.0150	10.200	2.59	7.1	0.139	< 0.01
EP1	05/22/93	0.010	0.0092	6.330	1.93	4.8	0.096	< 0.01
EP1	05/23/93	0.010	0.0064	3.010	1.22	2.7	0.052	< 0.01
EP1	05/24/93	0.008	0.0047	2.360	0.91	1.5	0.040	< 0.01
EP1	05/25/93	0.007	0.0050	1.410	0.76	1.5	0.025	< 0.01
EP1	05/26/93	< 0.006	0.0040	1.800	0.75	1.4	0.032	< 0.01
EP1	05/27/93	< 0.006	0.0039	0.830	0.54	1.0	0.019	< 0.01
EP1	05/28/93	0.095	(see ICP)	47.500	6.44	19.0	0.627	< 0.01
EP1	05/29/93	0.028	(see ICP)	13.200	2.68	7.3	0.178	< 0.01
EP1	05/30/93	0.024	(see ICP)	13.400	2.59	8.0	0.184	< 0.01
EP1	05/31/93	0.032	(see ICP)	14.400	2.60	7.8	0.225	< 0.01
EP1	06/01/93	0.013	0.0095	3.460	0.97	2.4	0.075	< 0.01
EP1	06/02/93	0.013	0.0093	5.360	1.32	3.1	0.110	< 0.01
BLANK #1(EP1)	05/05/93	< 0.006	0.0032	< 0.006	1.34	2.0	0.001	< 0.01
BLANK #2(EP1)	06/02/93	< 0.006	0.0012	< 0.006	0.32	1.9	< 0.001	< 0.01

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	ICP Total Cu (mg/L)	GF Total Cu (mg/L)	ICP Total Fe (mg/L)	ICP Total K (mg/L)	ICP Total Mg (mg/L)	ICP Total Mn (mg/L)	ICP Total Mo (mg/L)
V8	05/07/93	0.010	0.0058	3.120	1.86	15.7	0.067	< 0.01
V8	05/07/93	0.016	0.0110	4.210	2.04	15.8	0.090	< 0.01
V8	05/08/93	0.012	0.0057	3.110	1.87	16.4	0.064	< 0.01
V8	05/09/93	0.012	0.0059	3.110	1.83	17.6	0.058	< 0.01
V8	05/10/93	0.014	0.0088	5.470	2.23	18.2	0.088	< 0.01
V8	05/11/93	0.022	0.0140	9.610	3.04	18.8	0.152	< 0.01
V8	05/12/93	0.028	(see ICP)	13.000	3.46	18.6	0.200	< 0.01
V8	05/13/93	0.039	(see ICP)	20.400	4.50	19.6	0.328	< 0.01
V8	05/14/93	0.099	(see ICP)	41.200	7.28	26.8	0.616	< 0.01
V8	05/15/93	0.082	(see ICP)	39.700	6.86	24.6	0.608	< 0.01
V8	05/16/93	0.066	(see ICP)	32.900	6.23	21.2	0.522	< 0.01
V8	05/17/93	0.166	(see ICP)	93.500	12.10	41.7	1.540	< 0.01
V8	05/19/93	0.029	(see ICP)	15.700	3.85	14.8	0.248	< 0.01
V8	05/20/93	0.007	0.0110	7.560	2.46	12.0	0.121	< 0.01
V8	05/21/93	< 0.006	0.0062	4.490	1.83	11.0	0.071	< 0.01
V8	05/22/93	< 0.006	0.0061	3.400	1.60	11.0	0.058	< 0.01
V8	05/23/93	< 0.006	0.0070	4.850	1.68	11.0	0.083	< 0.01
V8	05/24/93	< 0.006	0.0056	3.720	1.41	8.6	0.071	< 0.01
V8	05/25/93	< 0.006	0.0033	2.110	1.10	8.2	0.039	< 0.01
BLANK #1(V8)	05/07/93	< 0.006	0.0031	< 0.006	1.38	2.1	< 0.001	< 0.01
BLANK #2(V8)	05/25/93	< 0.006	0.0016	0.010	0.31	2.0	< 0.001	< 0.01

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	ICP Total Cu (mg/L)	GF Total Cu (mg/L)	ICP Total Fe (mg/L)	ICP Total K (mg/L)	ICP Total Mg (mg/L)	ICP Total Mn (mg/L)	ICP Total Mo (mg/L)
EP2	05/07/93	0.010	0.0073	0.492	1.64	6.0	0.325	<
EP2	05/08/93	0.010	0.0063	0.258	1.62	5.9	0.284	<
EP2	05/09/93	0.014	0.0079	0.398	1.54	5.7	0.280	<
EP2	05/10/93	0.013	0.0074	0.287	1.49	5.5	0.251	<
EP2	05/11/93	0.011	0.0058	0.094	1.45	5.2	0.197	<
EP2	05/12/93	0.015	0.0049	0.109	1.50	5.4	0.206	<
EP2	05/13/93	0.015	0.0057	0.391	1.50	5.4	0.218	<
EP2	05/14/93	0.790	(see ICP)	149.000	17.30	45.1	1.980	<
EP2	05/15/93	0.790	(see ICP)	285.000	40.00	79.0	3.740	<
EP2	05/16/93	0.426	(see ICP)	152.000	15.60	47.6	1.750	<
EP2	05/17/93	0.261	(see ICP)	50.900	7.07	21.4	0.834	<
EP2	05/18/93	0.250	(see ICP)	27.700	4.79	16.2	0.550	<
EP2	05/19/93	0.200	(see ICP)	48.400	8.21	20.4	0.704	<
EP2	05/19/93	0.240	(see ICP)	82.600	11.60	26.5	1.150	<
EP2	05/20/93	0.083	(see ICP)	28.600	5.54	12.0	0.437	<
EP2	05/21/93	0.110	(see ICP)	15.600	3.65	8.0	0.260	<
EP2	05/22/93	0.052	(see ICP)	6.930	2.41	5.8	0.118	<
EP2	05/23/93	0.055	(see ICP)	5.500	2.18	5.5	0.110	<
EP2	05/24/93	0.033	(see ICP)	1.090	1.26	4.2	0.040	<
EP2	05/25/93	0.050	(see ICP)	4.840	2.07	5.4	0.094	<
EP2	05/26/93	0.110	(see ICP)	7.090	2.50	6.0	0.118	<
EP2	05/27/93	0.049	(see ICP)	2.740	1.66	4.9	0.067	<
EP2	05/28/93	0.450	(see ICP)	62.500	9.38	22.0	0.910	<
EP2	05/29/93	0.340	(see ICP)	83.700	10.70	27.2	1.070	<
EP2	05/30/93	0.051	(see ICP)	8.590	2.49	6.1	0.119	<
EP2	05/31/93	0.072	(see ICP)	9.750	2.66	6.9	0.153	<
EP2	06/01/93	0.042	(see ICP)	2.220	1.47	4.9	0.051	<
EP2	06/02/93	0.037	(see ICP)	0.805	1.21	4.5	0.035	<
EP2	06/03/93	0.110	(see ICP)	6.450	2.34	6.2	0.129	<
EP2	06/04/93	0.049	(see ICP)	4.490	1.92	5.6	0.085	<
EP2	06/05/93	0.035	(see ICP)	2.050	1.35	4.9	0.047	<
EP2	06/06/93	0.023	(see ICP)	0.251	1.00	4.6	0.019	<
EP2	06/07/93	0.048	(see ICP)	2.040	1.39	5.1	0.056	<
EP2	06/08/93	0.043	(see ICP)	1.110	1.10	4.9	0.058	<
BLANK #1(EP2)	05/07/93	<	0.0028	<	1.33	2.1	<	<
BLANK #2(EP2)	06/08/93	<	0.0008	<	0.29	1.9	<	<

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

LOCATION	DATE	Na (mg/L)	Ni (mg/L)	P (mg/L)	Pb (mg/L)	GF Total (mg/L)	ICP Total (mg/L)	Sb (mg/L)	Se (mg/L)
V1	05/05/93	2.0	< 0.02	< 0.1	< 0.06	0.0009	< 0.06	< 0.06	< 0.06
V1	05/06/93	1.9	< 0.02	< 0.1	< 0.06	0.0019	< 0.06	< 0.06	< 0.06
V1	05/07/93	1.8	< 0.02	< 0.1	< 0.06	0.0010	< 0.06	< 0.06	< 0.06
V1	05/08/93	1.9	< 0.02	< 0.1	< 0.06	0.0006	< 0.06	< 0.06	< 0.06
V1	05/09/93	1.9	< 0.02	< 0.1	< 0.06	<	< 0.06	< 0.06	< 0.06
V1	05/10/93	1.9	< 0.02	< 0.1	< 0.06	0.0006	< 0.06	< 0.06	< 0.06
V1	05/11/93	1.7	< 0.02	< 0.1	< 0.06	0.0006	< 0.06	< 0.06	< 0.06
V1	05/12/93	1.7	< 0.02	< 0.1	< 0.06	0.0006	< 0.06	< 0.06	< 0.06
V1	05/13/93	1.5	< 0.02	< 0.1	< 0.06	0.0006	< 0.06	< 0.06	< 0.06
V1	05/14/93	1.2	< 0.02	< 0.1	< 0.06	0.0020	< 0.06	< 0.06	< 0.06
V1	05/15/93	1.0	< 0.02	< 0.1	< 0.06	0.0010	< 0.06	< 0.06	< 0.06
V1	05/16/93	0.8	< 0.02	< 0.1	< 0.06	0.0006	< 0.06	< 0.06	< 0.06
V1	05/17/93	0.6	< 0.02	< 0.1	< 0.06	0.0006	< 0.06	< 0.06	< 0.06
V1	05/18/93	0.6	< 0.02	< 0.1	< 0.06	0.0024	< 0.06	< 0.06	< 0.06
V1	05/19/93	0.8	< 0.02	< 0.1	< 0.06	0.0006	< 0.06	< 0.06	< 0.06
V1	05/20/93	0.9	< 0.02	< 0.1	< 0.06	0.0006	< 0.06	< 0.06	< 0.06
V1	05/21/93	0.9	< 0.02	< 0.1	< 0.06	0.0019	< 0.06	< 0.06	< 0.06
V1	05/22/93	1.0	< 0.02	< 0.1	< 0.06	0.0060	< 0.06	< 0.06	< 0.06
V1	05/23/93	0.8	< 0.02	< 0.1	< 0.06	0.0006	< 0.06	< 0.06	< 0.06
V1	05/24/93	0.8	< 0.02	< 0.1	< 0.06	0.0010	< 0.06	< 0.06	< 0.06
V1	05/25/93	0.8	< 0.02	< 0.1	< 0.06	0.0010	< 0.06	< 0.06	< 0.06
V1	05/26/93	0.8	< 0.02	< 0.1	< 0.06	0.0006	< 0.06	< 0.06	< 0.06
V1	05/27/93	0.7	< 0.02	< 0.1	< 0.06	0.0006	< 0.06	< 0.06	< 0.06
V1	05/28/93	0.7	< 0.02	< 0.1	< 0.06	0.0006	< 0.06	< 0.06	< 0.06
V1	05/29/93	0.7	< 0.02	< 0.1	< 0.06	0.0006	< 0.06	< 0.06	< 0.06
V1	05/30/93	0.8	< 0.02	< 0.1	< 0.06	0.0007	< 0.06	< 0.06	< 0.06
V1	05/31/93	0.8	< 0.02	< 0.1	< 0.06	0.0014	< 0.06	< 0.06	< 0.06
V1	06/01/93	0.8	< 0.02	< 0.1	< 0.06	0.0013	< 0.06	< 0.06	< 0.06
V1	06/02/93	0.8	< 0.02	< 0.1	< 0.06	0.0014	< 0.06	< 0.06	< 0.06
V1	06/03/93	0.8	< 0.02	< 0.1	< 0.06	0.0006	< 0.06	< 0.06	< 0.06
V1	06/04/93	0.8	< 0.02	< 0.1	< 0.06	<	< 0.06	< 0.06	< 0.06
V1	06/05/93	0.8	< 0.02	< 0.1	< 0.06	0.0006	< 0.06	< 0.06	< 0.06
V1	06/06/93	0.8	< 0.02	< 0.1	< 0.06	0.0032	< 0.06	< 0.06	< 0.06
V1	06/07/93	0.8	< 0.02	< 0.1	< 0.06	0.0018	< 0.06	< 0.06	< 0.06
V1	06/08/93	0.9	< 0.02	< 0.1	< 0.06	0.0011	< 0.06	< 0.06	< 0.06
BLANK#1(V1)		5.3	< 0.02	< 0.1	< 0.06	0.0006	< 0.06	< 0.06	< 0.06
BLANK #2(V1)		< 0.1	< 0.02	< 0.1	< 0.06	0.0013	< 0.06	< 0.06	< 0.06

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

LOCATION	DATE	Na (mg/L)	ICP Total	Ni (mg/L)	ICP Total	P (mg/L)	ICP Total	Pb (mg/L)	GF Total	ICP Total	Sb (mg/L)	ICP Total	Se (mg/L)
EP1	05/05/93	3.2		0.04		0.4		0.30	(see ICP)		0.06		< 0.06
EP1	05/06/93	3.6		0.06		0.6		0.53	(see ICP)		0.06		< 0.06
EP1	05/07/93	2.6		0.02		0.2		0.18	0.1880		0.06		< 0.06
EP1	05/08/93	2.4	<	0.02	<	0.1		0.10	0.0918		0.06		< 0.06
EP1	05/09/93	2.3		0.04	<	0.1		0.06	0.0561		0.06		< 0.06
EP1	05/10/93	2.2	<	0.02	<	0.1		0.07	0.0680		0.06		< 0.06
EP1	05/11/93	2.6		0.03		0.2		0.21	0.2300		0.06		< 0.06
EP1	05/12/93	2.6		0.03		0.3		0.24	(see ICP)		0.06		< 0.06
EP1	05/13/93	2.9		0.05		0.5		0.42	(see ICP)		0.06		< 0.06
EP1	05/14/93	1.9	<	0.02	<	0.2		0.10	0.1070		0.06		< 0.06
EP1	05/17/93	2.6		0.17		1.3		0.53	(see ICP)		0.06		< 0.06
EP1	05/18/93	2.5		0.08		0.7		0.27	(see ICP)		0.06		< 0.06
EP1	05/19/93	1.9		0.07		0.3		0.06	0.0730		0.06		< 0.06
EP1	05/20/93	1.8		0.05		0.3	<	0.06	0.0680		0.06		< 0.06
EP1	05/21/93	1.6		0.04		0.2	<	0.06	0.0370		0.06		< 0.06
EP1	05/22/93	1.5	<	0.02	<	0.2	<	0.06	0.0240		0.06		< 0.06
EP1	05/23/93	1.2	<	0.02	<	0.1	<	0.06	0.0120		0.06		< 0.06
EP1	05/24/93	0.9	<	0.02	<	0.1	<	0.06	0.0150		0.06		< 0.06
EP1	05/25/93	0.9	<	0.02	<	0.1	<	0.06	0.0074		0.06		< 0.06
EP1	05/26/93	0.9	<	0.02	<	0.1	<	0.06	0.0066		0.06		< 0.06
EP1	05/27/93	0.8	<	0.02	<	0.1	<	0.06	0.0050		0.06		< 0.06
EP1	05/28/93	2.2		0.10		0.6		0.79	(see ICP)		0.06		< 0.06
EP1	05/29/93	1.6		0.05		0.3		0.09	0.1040		0.06		< 0.06
EP1	05/30/93	1.8		0.04		0.2		0.07	0.0840		0.06		< 0.06
EP1	05/31/93	2.3		0.04		0.3		0.14	0.1350		0.06		< 0.06
EP1	06/01/93	1.3	<	0.02	<	0.1	<	0.06	0.0370		0.06		< 0.06
EP1	06/02/93	1.3	<	0.02	<	0.2	<	0.07	0.0917		0.06		< 0.06
BLANK #1(EP1)	05/05/93	5.3	<	0.02	<	0.1	<	0.06	< 0.0006		0.06		< 0.06
BLANK #2(EP1)	06/02/93	1.2	<	0.02	<	0.1	<	0.06	< 0.0006		0.06		< 0.06

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX I TABLE 6

DAILY COMPOSITE EXTRACTABLE AND TOTAL METALS DATA MAY/JUNE, 1993

LOCATION	DATE	Na (mg/L)	Ni (mg/L)	P (mg/L)	Pb (mg/L)	Gf Total (mg/L)	ICP Total (mg/L)	Sb (mg/L)	Se (mg/L)
V8	05/07/93	2.3	< 0.02	< 0.1	< 0.06	0.0330	< 0.06	< 0.06	< 0.06
V8	05/07/93	2.3	< 0.02	< 0.1	< 0.06	0.0410	< 0.06	< 0.06	< 0.06
V8	05/08/93	2.3	< 0.02	< 0.1	< 0.06	0.0240	< 0.06	< 0.06	< 0.06
V8	05/09/93	2.6	< 0.02	< 0.1	< 0.06	0.0310	< 0.06	< 0.06	< 0.06
V8	05/10/93	2.6	< 0.02	< 0.1	< 0.06	0.0457	< 0.06	< 0.06	< 0.06
V8	05/11/93	2.9	< 0.02	0.2	0.08	0.0920	< 0.06	< 0.06	< 0.06
V8	05/12/93	2.9	0.03	0.2	0.14	0.1200	< 0.06	< 0.06	< 0.06
V8	05/13/93	3.2	0.05	0.3	0.23	(see ICP)	< 0.06	< 0.06	< 0.06
V8	05/14/93	3.4	0.09	0.7	0.33	(see ICP)	< 0.06	< 0.06	< 0.06
V8	05/15/93	3.2	0.10	0.7	0.29	(see ICP)	< 0.06	< 0.06	< 0.06
V8	05/16/93	2.9	0.08	0.6	0.23	0.2610	< 0.06	< 0.06	< 0.06
V8	05/17/93	3.0	0.19	1.9	0.88	(see ICP)	< 0.06	< 0.06	< 0.06
V8	05/19/93	2.3	0.05	0.3	0.07	0.0810	< 0.06	< 0.06	< 0.06
V8	05/20/93	2.0	< 0.02	0.2	0.06	0.0360	< 0.06	< 0.06	< 0.06
V8	05/21/93	1.8	< 0.02	< 0.1	< 0.06	0.0200	< 0.06	< 0.06	< 0.06
V8	05/22/93	1.9	< 0.02	< 0.1	< 0.06	0.0190	< 0.06	< 0.06	< 0.06
V8	05/23/93	1.9	< 0.02	< 0.1	< 0.06	0.0320	< 0.06	< 0.06	< 0.06
V8	05/24/93	1.6	< 0.02	< 0.1	< 0.06	0.0296	< 0.06	< 0.06	< 0.06
V8	05/25/93	1.6	< 0.02	< 0.1	< 0.06	0.0164	< 0.06	< 0.06	< 0.06
BLANK #1(V8)	05/07/93	5.4	< 0.02	< 0.1	< 0.06	< 0.0006	< 0.06	< 0.06	< 0.06
BLANK #2(V8)	05/25/93	1.2	< 0.02	< 0.1	< 0.06	< 0.0006	< 0.06	< 0.06	< 0.06

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

LOCATION	DATE	Na (mg/L)	ICP Total	Ni (mg/L)	ICP Total	P (mg/L)	ICP Total	Pb (mg/L)	GF Total	Pb (mg/L)	ICP Total	Sb (mg/L)	ICP Total	Se (mg/L)
EP2	05/07/93	2.4	<	0.02	<	0.1	<	0.06	0.0110	<	0.06	<	0.06	<
EP2	05/08/93	2.4	<	0.02	<	0.1	<	0.06	0.0032	<	0.06	<	0.06	<
EP2	05/09/93	2.4	<	0.02	<	0.1	<	0.06	0.0045	<	0.06	<	0.06	<
EP2	05/10/93	2.3	<	0.02	<	0.1	<	0.06	0.0024	<	0.06	<	0.06	<
EP2	05/11/93	2.4	<	0.02	<	0.1	<	0.06	0.0010	<	0.06	<	0.06	<
EP2	05/12/93	2.4	<	0.02	<	0.1	<	0.06	0.0016	<	0.06	<	0.06	<
EP2	05/13/93	2.4	<	0.02	<	0.1	<	0.06	0.0030	<	0.06	<	0.06	<
EP2	05/14/93	4.2	<	0.23	<	2.5	<	0.87	(see ICP)	<	0.06	<	0.06	<
EP2	05/15/93	7.0	<	0.40	<	5.0	<	1.00	(see ICP)	<	0.60	<	0.60	<
EP2	05/16/93	4.6	<	0.19	<	2.8	<	0.44	(see ICP)	<	0.06	<	0.06	<
EP2	05/17/93	5.1	<	0.07	<	1.2	<	0.24	(see ICP)	<	0.06	<	0.06	<
EP2	05/18/93	4.3	<	0.03	<	0.7	<	0.12	0.1710	<	0.06	<	0.06	<
EP2	05/19/93	4.6	<	0.07	<	0.9	<	0.19	0.2550	<	0.06	<	0.06	<
EP2	05/19/93	4.2	<	0.12	<	1.5	<	0.32	(see ICP)	<	0.06	<	0.06	<
EP2	05/20/93	4.2	<	0.04	<	0.6	<	0.13	0.1690	<	0.06	<	0.06	<
EP2	05/21/93	3.7	<	0.02	<	0.3	<	0.10	0.0840	<	0.06	<	0.06	<
EP2	05/22/93	3.2	<	0.02	<	0.2	<	0.06	0.0390	<	0.06	<	0.06	<
EP2	05/23/93	3.2	<	0.02	<	0.2	<	0.06	0.0340	<	0.06	<	0.06	<
EP2	05/24/93	2.7	<	0.02	<	0.1	<	0.06	0.0079	<	0.06	<	0.06	<
EP2	05/25/93	3.1	<	0.02	<	0.1	<	0.06	0.0250	<	0.06	<	0.06	<
EP2	05/26/93	3.3	<	0.02	<	0.2	<	0.06	0.0551	<	0.06	<	0.06	<
EP2	05/27/93	3.0	<	0.02	<	0.1	<	0.06	0.0320	<	0.06	<	0.06	<
EP2	05/28/93	4.7	<	0.10	<	1.4	<	0.86	(see ICP)	<	0.06	<	0.06	<
EP2	05/29/93	5.9	<	0.15	<	1.7	<	1.30	(see ICP)	<	0.06	<	0.06	<
EP2	05/30/93	2.9	<	0.02	<	0.2	<	0.10	0.1340	<	0.06	<	0.06	<
EP2	05/31/93	3.2	<	0.02	<	0.2	<	0.14	0.1580	<	0.06	<	0.06	<
EP2	06/01/93	2.7	<	0.02	<	0.1	<	0.06	0.0420	<	0.06	<	0.06	<
EP2	06/02/93	2.7	<	0.02	<	0.1	<	0.06	0.0190	<	0.06	<	0.06	<
EP2	06/03/93	3.3	<	0.02	<	0.2	<	0.14	0.1280	<	0.06	<	0.06	<
EP2	06/04/93	3.3	<	0.02	<	0.1	<	0.09	0.0850	<	0.06	<	0.06	<
EP2	06/05/93	3.2	<	0.02	<	0.1	<	0.06	0.0440	<	0.06	<	0.06	<
EP2	06/06/93	3.1	<	0.02	<	0.1	<	0.06	0.0082	<	0.06	<	0.06	<
EP2	06/07/93	3.3	<	0.02	<	0.1	<	0.06	0.0400	<	0.06	<	0.06	<
EP2	06/08/93	3.1	<	0.02	<	0.1	<	0.06	0.0270	<	0.06	<	0.06	<
EP2	06/07/93	5.4	<	0.02	<	0.1	<	0.06	<	<	0.06	<	0.06	<
BLANK #1(EP2)	05/07/93	1.2	<	0.02	<	0.1	<	0.06	<	<	0.06	<	0.06	<
BLANK #2(EP2)	06/08/93		<	0.02	<	0.1	<	0.06	<	<	0.06	<	0.06	<

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

LOCATION	DATE	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total
V1	05/05/93	4.79	< 0.06	0.081	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	05/06/93	4.61	< 0.06	0.075	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	05/07/93	4.71	< 0.06	0.073	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	05/08/93	4.92	< 0.06	0.078	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	05/09/93	4.94	< 0.06	0.078	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	05/10/93	4.94	< 0.06	0.078	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	05/11/93	4.87	< 0.06	0.076	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	05/12/93	4.79	< 0.06	0.071	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	05/13/93	4.49	< 0.06	0.065	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	05/14/93	4.13	< 0.06	0.052	< 0.004	< 0.01	< 0.003	<	<	<	<	<
V1	05/15/93	3.85	< 0.06	0.040	< 0.008	< 0.01	< 0.004	<	<	<	<	<
V1	05/16/93	2.74	< 0.06	0.028	< 0.003	< 0.01	0.313	<	<	<	<	<
V1	05/17/93	2.47	< 0.06	0.020	< 0.010	< 0.01	0.004	<	<	<	<	<
V1	05/18/93	3.66	< 0.06	0.019	< 0.029	< 0.01	0.005	<	<	<	<	<
V1	05/19/93	2.81	< 0.06	0.024	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	05/20/93	3.15	< 0.06	0.027	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	05/21/93	3.18	< 0.06	0.028	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	05/22/93	3.36	< 0.06	0.029	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	05/23/93	2.98	< 0.06	0.025	< 0.006	< 0.01	< 0.002	<	<	<	<	<
V1	05/24/93	2.59	< 0.06	0.021	< 0.004	< 0.01	0.004	<	<	<	<	<
V1	05/25/93	2.59	< 0.06	0.023	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	05/26/93	2.53	< 0.06	0.021	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	05/27/93	2.65	< 0.06	0.020	< 0.004	< 0.01	< 0.002	<	<	<	<	<
V1	05/28/93	3.09	< 0.06	0.019	< 0.016	< 0.01	< 0.002	<	<	<	<	<
V1	05/29/93	2.75	< 0.06	0.021	< 0.003	< 0.01	< 0.002	<	<	<	<	<
V1	05/30/93	2.75	< 0.06	0.020	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	05/31/93	2.76	< 0.06	0.021	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	06/01/93	2.77	< 0.06	0.021	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	06/02/93	2.61	< 0.06	0.020	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	06/03/93	2.76	< 0.06	0.021	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	06/04/93	2.71	< 0.06	0.021	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	06/05/93	2.60	< 0.06	0.020	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	06/06/93	2.75	< 0.06	0.021	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	06/07/93	2.83	< 0.06	0.022	< 0.002	< 0.01	< 0.002	<	<	<	<	<
V1	06/08/93	3.07	< 0.06	0.025	< 0.002	< 0.01	< 0.002	<	<	<	<	<
BLANK#1(V1)		0.45	< 0.06	0.054	< 0.002	< 0.01	< 0.002	<	<	<	<	<
BLANK#2(V1)		<	<	0.001	< 0.002	< 0.01	< 0.002	<	<	<	<	<

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

LOCATION	DATE	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)
ICP Total	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total	ICP Total
EP1	05/05/93	28.90	<	0.159	0.442	0.03	0.639
EP1	05/06/93	41.30	<	0.184	0.738	0.05	1.020
EP1	05/07/93	22.50	<	0.127	0.274	0.03	0.322
EP1	05/08/93	16.20	<	0.123	0.186	0.02	0.222
EP1	05/09/93	12.20	<	0.116	0.110	0.01	0.150
EP1	05/10/93	11.40	<	0.110	0.100	0.01	0.130
EP1	05/11/93	20.60	<	0.132	0.293	0.03	0.420
EP1	05/12/93	23.50	<	0.133	0.349	0.03	0.449
EP1	05/13/93	30.80	<	0.142	0.511	0.04	0.737
EP1	05/14/93	14.10	<	0.089	0.152	0.01	0.192
EP1	05/17/93	58.50	<	0.154	1.220	0.15	0.670
EP1	05/18/93	45.00	<	0.096	0.648	0.07	0.267
EP1	05/19/93	32.30	<	0.078	0.410	0.05	0.110
EP1	05/20/93	23.70	<	0.078	0.287	0.04	0.098
EP1	05/21/93	19.70	<	0.071	0.227	0.03	0.071
EP1	05/22/93	14.10	<	0.061	0.155	0.02	0.055
EP1	05/23/93	8.52	<	0.047	0.076	0.01	0.042
EP1	05/24/93	5.75	<	0.031	0.050	0.01	0.032
EP1	05/25/93	5.17	<	0.032	0.030	0.01	0.029
EP1	05/26/93	5.13	<	0.030	0.031	0.01	0.028
EP1	05/27/93	3.86	<	0.027	0.015	0.01	0.023
EP1	05/28/93	48.70	<	0.110	0.625	0.08	1.080
EP1	05/29/93	21.90	<	0.060	0.250	0.03	0.137
EP1	05/30/93	22.40	<	0.069	0.253	0.03	0.128
EP1	05/31/93	22.20	<	0.076	0.297	0.03	0.173
EP1	06/01/93	7.92	<	0.047	0.071	0.01	0.049
EP1	06/02/93	10.90	<	0.054	0.124	0.01	0.078
BLANK #1(EP1)	05/05/93	0.49	<	0.054	<	0.01	<
BLANK #2(EP1)	06/02/93	0.41	<	0.025	<	0.01	<

LOCATION	DATE	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)
V8	05/07/93	8.70	< 0.06	0.173	0.070	< 0.01	0.034
V8	05/07/93	10.20	< 0.06	0.176	0.087	< 0.01	0.047
V8	05/08/93	9.00	< 0.06	0.185	0.069	< 0.01	0.028
V8	05/09/93	8.95	< 0.06	0.198	0.063	< 0.01	0.024
V8	05/10/93	12.40	< 0.06	0.201	0.110	0.01	0.037
V8	05/11/93	18.60	< 0.06	0.201	0.205	0.02	0.072
V8	05/12/93	22.10	< 0.06	0.194	0.252	0.03	0.110
V8	05/13/93	30.80	< 0.06	0.193	0.391	0.04	0.193
V8	05/14/93	51.60	< 0.06	0.208	0.708	0.09	0.382
V8	05/15/93	49.10	< 0.06	0.188	0.670	0.08	0.365
V8	05/16/93	43.90	< 0.06	0.164	0.577	0.07	0.299
V8	05/17/93	64.80	< 0.06	0.241	1.360	0.19	0.914
V8	05/19/93	25.10	< 0.06	0.136	0.268	0.04	0.093
V8	05/20/93	15.30	< 0.06	0.123	0.143	0.02	0.051
V8	05/21/93	10.70	< 0.06	0.122	0.090	0.01	0.032
V8	05/22/93	9.54	< 0.06	0.125	0.077	< 0.01	0.029
V8	05/23/93	10.50	< 0.06	0.122	0.093	< 0.01	0.040
V8	05/24/93	8.61	< 0.06	0.100	0.076	< 0.01	0.038
V8	05/25/93	6.90	< 0.06	0.100	0.052	< 0.01	0.022
BLANK #1(V8)	05/07/93	0.37	< 0.06	0.055	< 0.002	< 0.01	0.002
BLANK #2(V8)	05/25/93	0.46	< 0.06	0.025	0.007	< 0.01	0.002

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX II

LOCATION	DATE	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)
EP2	05/07/93	7.15	< 0.06	0.155	0.004	< 0.01	0.506
EP2	05/08/93	6.92	< 0.06	0.150	< 0.002	< 0.01	0.574
EP2	05/09/93	6.93	< 0.06	0.146	< 0.002	< 0.01	0.576
EP2	05/10/93	6.91	< 0.06	0.141	< 0.002	< 0.01	0.536
EP2	05/11/93	6.55	< 0.06	0.133	< 0.002	< 0.01	0.517
EP2	05/12/93	7.00	< 0.06	0.137	< 0.002	< 0.01	0.510
EP2	05/13/93	6.82	< 0.06	0.139	< 0.002	< 0.01	0.415
EP2	05/14/93	159.00	< 0.06	0.241	2.300	0.29	1.630
EP2	05/15/93	210.00	< 0.60	0.350	7.180	0.60	1.860
EP2	05/16/93	110.00	< 0.06	0.318	2.310	0.27	0.845
EP2	05/17/93	51.90	< 0.06	0.333	0.843	0.09	0.435
EP2	05/18/93	37.50	< 0.06	0.325	0.469	0.05	0.360
EP2	05/19/93	55.80	< 0.06	0.251	0.847	0.08	0.322
EP2	05/19/93	71.40	< 0.06	0.156	1.390	0.14	0.469
EP2	05/20/93	41.80	< 0.06	0.131	0.561	0.05	0.226
EP2	05/21/93	31.70	< 0.06	0.118	0.315	0.03	0.190
EP2	05/22/93	16.40	< 0.06	0.110	0.154	0.02	0.166
EP2	05/23/93	15.00	< 0.06	0.110	0.134	< 0.01	0.189
EP2	05/24/93	7.43	< 0.06	0.100	0.023	< 0.01	0.105
EP2	05/25/93	13.70	< 0.06	0.110	0.122	< 0.01	0.184
EP2	05/26/93	16.80	< 0.06	0.117	0.155	0.01	0.238
EP2	05/27/93	10.90	< 0.06	0.110	0.066	< 0.01	0.173
EP2	05/28/93	64.90	< 0.06	0.207	1.160	0.12	0.941
EP2	05/29/93	72.10	< 0.06	0.198	1.470	0.14	0.699
EP2	05/30/93	17.40	< 0.06	0.100	0.178	0.02	0.100
EP2	05/31/93	19.80	< 0.06	0.123	0.203	0.02	0.185
EP2	06/01/93	9.89	< 0.06	0.115	0.059	< 0.01	0.111
EP2	06/02/93	7.67	< 0.06	0.114	0.020	< 0.01	0.094
EP2	06/03/93	17.10	< 0.06	0.130	0.181	0.02	0.323
EP2	06/04/93	12.80	< 0.06	0.120	0.100	0.01	0.153
EP2	06/05/93	9.31	< 0.06	0.117	0.050	< 0.01	0.110
EP2	06/06/93	6.38	< 0.06	0.119	0.005	< 0.01	0.073
EP2	06/07/93	9.33	< 0.06	0.123	0.050	< 0.01	0.158
EP2	06/08/93	7.28	< 0.06	0.122	0.019	< 0.01	0.171
EP2	06/08/93	0.35	< 0.06	0.055	< 0.002	< 0.01	< 0.002
BLANK #1(EP2)	05/07/93	0.40	< 0.06	0.024	< 0.002	< 0.01	< 0.002
BLANK #2(EP2)	06/08/93						

Samples represent daily composites collected at 08:00, 16:00 and 24:00 hrs.

APPENDIX II TABLE 1

SEDIMENT METALS AT V8, EP6 AND EP7 09-OCT-1991 AND 14-SEP-1993

LOCATION	DATE	SAMPLE SIZE	Ag (ug/g)	Al (ug/g)	As (ug/g)	Ba (ug/g)	Be (ug/g)	Ca (ug/g)	Cd (ug/g)
V8	10/09/91	10	<	13230	43	1081	0.30	14510	<
			±	± 1594	± 8	±	±	± 0.1	
V8	09/14/93	4	<	21450	25	645	1.00	19225	<
			±	± 626	± 2	±	±	± 0.1	
EP6	09/14/93	4	±	24200	221	1412	0.95	17350	1.7
			±	± 4208	± 196	±	±	± 0.9	
EP7	09/14/93	8	<	10885	17	1728	1.00	30400	1.1
			±	± 672	± 3	±	±	± 0.3	

APPENDIX II TABLE 1 SEDIMENT METALS AT V8, EP6 AND EP7 09-OCT-1991 AND 14-SEP-1993

LOCATION	DATE	SAMPLE SIZE	Co (ug/g)	Cr (ug/g)	Cu (ug/g)	Fe (ug/g)	K (ug/g)	Mg (ug/g)	Mn (ug/g)
V8	10/09/91	10	<	46	57	29500	1140	10386	458
			±	±	±	±	±	±	
V8	09/14/93	4	20	88	50	36300	3238	16000	833
			±	±	±	±	±	±	
EP6	09/14/93	4	42	59	137	62025	1848	16475	1318
			±	±	±	±	±	±	
EP7	09/14/93	8	10	32	31	23600	2348	12663	513
			±	±	±	±	±	±	

APPENDIX II TABLE 1 SEDIMENT METALS AT V8, EP6 AND EP7 09-OCT-1991 AND 14-SEP-1993

LOCATION	DATE	SAMPLE SIZE	Mo (ug/g)	Na (ug/g)	Ni (ug/g)	P (ug/g)	Pb (ug/g)	Sb (ug/g)	Si (ug/g)
V8	10/09/91	10	5.8 ±	158 40 ±	44 3 ±	970 66 ±	1801 618 ±	8.2 0.6 ±	543 24 ±
V8	09/14/93	4	4.8 ±	305 15 ±	100 1 ±	993 13 ±	161 8 ±	8.0 0.0 ±	326 57 ±
EP6	09/14/93	4	6.5 ±	100 0 ±	93 24 ±	1300 392 ±	1136 566 ±	16.0 6.2 ±	380 58 ±
EP7	09/14/93	8	3.9 ±	193 245 ±	49 3 ±	1483 155 ±	38 21 ±	8.0 0.0 ±	353 40 ±

APPENDIX II TABLE 1

SEDIMENT METALS AT V8, EP6 AND EP7 09-OCT-1991 AND 14-SEP-1993

LOCATION	DATE	SAMPLE SIZE	Sn (ug/g)	Sr (ug/g)	Ti (ug/g)	V (ug/g)	Zn (ug/g)	SFR (mg/kg)	SVR (mg/kg)
V8	10/09/91	10	< 8.0 ± 0.0	63 ± 3	419 ± 37	37 2	321 ± 19	N/A	N/A
V8	09/14/93	4	< 8.5 ± 0.5	77 ± 2	471 ± 11	76 1	441 ± 11	946750 ± 3345	53450 ± 3517
EP6	09/14/93	4	± 11.8 ± 3.6	80 ± 14	280 ± 56	50 1	1512 ± 645	975250 ± 2861	24725 ± 2879
EP7	09/14/93	8	< 8.0 ± 0.0	104 ± 8	307 ± 9	74 8	204 ± 32	974250 ± 3961	25688 ± 4052